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*** START OF THE PROJECT GUTENBERG EBOOK A TREATISE ON TOBACCO, TEA, COFFEE, AND CHOCOLATE ***

Preliminary Transcriber's Notes:



A

TREATISE

ON

Tobacco, Tea, Coffee, and Chocolate.



**A
TREATISE
ON
TOBACCO, TEA, COFFEE, *and* CHOCOLATE.**
IN WHICH

I. The Advantages and Disadvantages attending the Use of these Commodities, are not only impartially considered, upon the Principles of *Medicine* and *Chymistry*, but also ascertained by *Observation* and *Experience*.

II. Full and distinct Directions laid down for knowing in what Cases, and for what particular Constitutions, these Substances are either beneficial, or hurtful.

III. The *Chinese* or *Asiatic Tea*, shewn to be the same with the *European Chamelæagnus*, or *Myrtus Brabantica*.

The Whole Illustrated with COPPER PLATES, *exhibiting the Tea Utensils of the Chinese and Persians.*

Written originally by SIMON PAULI;

AND

Now Translated by Dr. *JAMES*.

Ante omnia scire convenit Naturam Corporis; quia alii graciles, alii obesi sunt, alii calidi, alii frigidiore, alii humidi, alii sicciore, alios adstricta, alios resoluta, alvus exercet.

Celsus, *Lib. 1. Cap. 3.*

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M,DCC,XLVI.



A
TREATISE
ON
TOBACCO, &c.



S *Nicolaus Monardus*, in *Simpl. Med. Histor.* has given so full and accurate an History and Description of *Tobacco*, that others have only borrowed their Accounts of it from his Works, we shall, in the Words of that Author, in *Cap. 14*, inform the Reader what *Tobacco* is, where it is produced, and to what Uses it is applied.

"The Plant *Tobacco*, says he, was formerly used by the *Indians*, and especially by the Inhabitants of *New Spain*, for the Cure of Wounds. A few Years ago it was imported into *Spain*, rather for the Decoration of Gardens, than on Account of its medicinal Virtues: But it is now more celebrated for the latter, than used for the former.

"This Plant is among the *Indians* called *Picelt*; for the *Spaniards* first called it *Tobacco* from a certain Island of that Name, where great Quantities of it were produced.

"It rises to a great Height, and is sometimes as tall as the *Lemon-Tree*. Its Trunk is strait, and sends out many large Branches, which bear Leaves almost resembling those of the *Lemon-Tree*, but larger, like those of the *Burdock*, of a faint green Colour, and a little rough and shaggy, as the Whole of the Plant is. The Tops of the Branches bear Flowers of the Shape of a small Bell, which are white at the Extremities, but of a purple Colour in the Middle; and when these Flowers fall off, they are succeeded by small Heads, which resemble those of the *Black Poppy*, and contain a very small cineritious blackish Seed. The Root is thick, divided into many Parts, internally of a ligneous or woody Nature, Saffron-coloured, bitter, and easily deprived of its Bark: But I am acquainted with no medicinal or other Quality of which it is possessed.

"The Plant grows in most Places of the *Indies*, and especially those of a moist and shady Nature, and in light well cultivated Soils: It may be sown at all Seasons; but when it appears above Ground it is to be preserved from the Cold, and may be transplanted for the Decoration of Garden-Walls; for, like the *Citron-Tree*, it continues green through the whole Year.

"The Leaves are only used; though when these cannot be had, some use the Seeds in their Stead. The Leaves are preserved by passing a Thread through them, suspending them in a shady Place, and thus drying them, after which they are used either whole or reduced to Powder.

"*Tobacco* is hot and dry, and consequently heats, resolves, cleanses, and is a little astringent, as will appear from these following Virtues, of which it is possessed.

"The Leaves of *Tobacco* heated and applied, prove an excellent Remedy for a *Cephalæa*, and *Hemicrania*, provided these Disorders arise from a cold Cause, or Flatulences, but the Use of them is to be often repeated, till the Disease is removed. Some, before the Application of them, anoint the Head with the Oil obtained from the

Flowers of the *Orange-Tree*. The same Remedy is beneficial for a Rigidity of the Neck or *Tetanus*, and for Pains of the whole Body, arising from the same Cause.

"When a Tooth-ach proceeds from a cold Cause, the wiping the affected Tooth with a Linen-Cloth, soaked in the Juice of *Tobacco*, and then putting a Piece of the Leaf, made up in Form of a Pill, into the Hollow, not only removes the Pain, but also prevents the spreading of the Corruption.

"A Decoction of Tobacco-Leaves with Water, and a *Linctus* prepared of the same Decoction, are beneficial in Disorders of the Breast, inveterate Coughs, Asthma's, and other similar Disorders proceeding from cold Humours. A small Quantity of a Syrup prepared of Sugar, and a Decoction of the Leaves eliminates any putrid Humours lodged in the Breast. The Smoak of Tobacco-Leaves received into the Mouth, sometimes affords Relief to asthmatic Patients; but proper Evacuations ought previously to be made, if the Patient's Condition can possibly admit of it.

"Tobacco-Leaves heated under the Ashes and applied to the Pit of the Stomach, without shaking the Ashes off, afford Relief to Persons afflicted with a Rumbling of the Intestines, and Flatulencies. For the same Purposes others bruise the Leaves with their Hand, anointed with Oil, and apply them to the Region of the Stomach. The Leaves triturated in a little Vinegar, long used by way of Ointment, and bound upon the Parts affected, are beneficial in Obstructions, or schirrous Tumours of the Stomach and Spleen; but over this Preparation warm Leaves, or a Cloth soaked in the warm Juice of the Leaves, are to be applied frequently every Day. When the Leaves cannot be had, Snuff may be mixed with any deobstruent Ointment, and the obstructed or tumid Part long anointed with it.

"The *Indian* Women greatly extol the Use of *Tobacco*, not only for Children, but also for adult Persons who are afflicted with Crudities of the Stomach; for after anointing the *Abdomen* with Lamp-Oil, the Leaves heated under the Ashes, and applied opposite to the Stomach, on the Breast and Back, concoct the Crudities, and render the Body soluble, provided the Application is repeated sufficiently often. A small Quantity of the Juice of *Tobacco* Leaves, concocted and depurated with Sugar, expels both flat and round Worms from the Intestines; but for answering this End more effectually, the triturated Leaves ought to be laid upon the Navel, and a proper Clyster injected.

"The Leaves heated under the Ashes, and applied as hot as the Patient can bear, afford great Relief in nephritic and flatulent Pains, provided the Remedy be sufficiently often repeated. *Tobacco* is also in many Cases an useful Ingredient in Clysters, Fomentations, and Plaisters.

"In Suffocations of the *Uterus*, the Leaves rendered sufficiently hot, and applied to the Navel, and Region of the *Uterus*, afford present Relief; and if a *Deliquium* should succeed, which it frequently does, the Patient will be forthwith roused from it by blowing the Smoak of *Tobacco* up her Nostrils. This Practice is so common among the *Indian* Women, that for this very Reason they carefully preserve and greatly esteem *Tobacco* Leaves. Some for uterine Disorders previously apply odorous Substances to the Navel, and then lay *Tobacco* Leaves over them: But the most proper Substances for this Purpose, are *Tachamahach*, Oil of liquid *Amber*, *Peruvian* Balsams, *Caranna*, or a Plaister of all these together worn daily on the Navel.

"*Arthritic* Pains, provided the Humours are cold, or at least are not too hot, are greatly relieved by the Application of the warm Leaves, or of a Linen-Cloth soaked in the warm Juice of the Leaves; for these resolve and digest the Humours; for which Reason they are advantageously laid upon œdematous Tumours, previously washed with the warm Juice of the Leaves.

"It is certain from Experience, that *Chilblanes* are cured by rubbing them three or four Times with *Tobacco* Leaves, and then washing the Hands and Feet in warm Water and Salt.

"A few Years ago *Tobacco* has been found to resist Poison, even that of the most virulent Kind, with which the *Cannibals* taint their Arrows. It was formerly customary to sprinkle *Sublimate* into the Wounds thus inflicted; but the *Spaniards* found a Method of subduing the Force of the Poison by Means of *Tobacco*.

"A Company of *Cannibals* made an At-tack upon a Body of *Indians* and *Spaniards*, some of whom were killed and others wounded with their poisoned Darts. But as those who survived had no *Sublimate*, they were advised by a certain *Indian* to pour the expressed Juice of *Tobacco* into their Wounds, and then apply the triturated Leaves of the same Plant to them, by which Means their Pains were forthwith alleviated, the Symptoms checked,

the Force of the Poison subdued, and the Wounds cured. This Accident laid a Foundation for the subsequent Use of *Tobacco* against Poisons; and the King of *Spain*, in order to be convinced of its Efficacy, ordered a Wound to be made in the Throat of a Dog, and to be anointed with the Poison used by Hunters; soon after which a large Quantity of the Juice of *Tobacco* was poured into the Wound, and the triturated Leaves of the Plant applied to it, by which Means the Dog was effectually secured against the Symptoms usually produced by Poisons.

"*Tobacco* Leaves laid upon pestilential and malignant Carbuncles induce an *Eschar*, and induce a Cure; nor are they a less present efficacious Remedy against the Bites of poisonous Animals.

"The Leaves, when laid upon recent Wounds, immediately stop the *Hæmorrhage*, and produce a Conglutination; but if they are large, they ought to be previously washed with Wine, their Lips brought into Contact, and sprinkled with the Juice of the Leaves, after which the triturated Leaves are to be secured upon the Wound: The same Measures are to be taken the next and subsequent Days, and a proper Regimen observed.

"An Instillation of the Juice, and an Application of the triturated Leaves deterge, cure, and cicatrise old Ulcers and Gangrenes; provided due Evacuations are made, a sufficient Quantity of Blood, if necessary, is taken away, and a proper Regimen observed.

"By this Means Ulcers are not only cured in Men, but also in Animals. For through all the *Indies*, Cows, Sheep, and other Animals, are much subject to Ulcers, which, on Account of the excessive Humidity of the Climate, easily become putrid, and full of Worms. In these Ulcers it was sometimes customary to sprinkle *Sublimate*, the Inhabitants being destitute of better Remedies. But as this Medicine is dear in that Part of the World, what was used for the Cure of these Ulcers generally cost more than the Animal was worth. For this Reason the Inhabitants, conscious of the Efficacy of *Tobacco* on Mankind, transferred its Use to the putrid, fetid, and wormy Ulcers of Animals; and accordingly found that its Juice instilled into them, not only killed the Worms, but also cleansed the Ulcers, and induced a *Cicatrix*. *Tobacco* is also good against the Gallings of Cattle, for which Reason the *Indians* always carry the Powder of it about with them.

"I knew a certain Person afflicted with Ulcers of the Nostrils, which discharged a seemingly contagious *Sanies*. By my Advice he dropped the Juice of *Tobacco* into them; after the second Instillation a large Number of Worms fell away; then a smaller Quantity and after a few Days the Ulcers were cured, though the Parts eroded were not restored. The rubbing Ring-worms and Scall'd Heads with *Tobacco* Leaves is also a beneficial Practice.

"*Tobacco* is the celebrated Plant used by the *Indian* Priests before they give their Responses; for it is customary among the *Indians* to consult the Priests with respect to the Event of Wars, and other Affairs of Importance. Upon such Occasions, the Priest consulted, burnt dry *Tobacco* Leaves, received the Smoak of them into his Mouth through a small Tube contrived for that Purpose, then dropt down as it were in an Extasy, lay totally destitute of Motion, and remained in that Condition for some Time. When the Fumes of the *Tobacco* were discussed, he returned to himself, told that he had communicated the Affair to his Demon, and gave such ambiguous Responses, that, whatever the Event should be, the superstitious Crowd might be easily perswaded, that he had prophesied rightly. Thus the credulous *Barbarians* are miserably hood-wink'd by the impious and fraudulent Stratagems of their Priests.

"The common People among the *Indians* also receive the Smoak of *Tobacco* into their Mouths and Nostrils, when they want either to be transported with pleasant Dreams, or to predict the Events of their Affairs from the Occurrences which happen to them during Sleep; for as the grand Impostor, the Devil, knows the Virtues of Herbs, he has taught them the Qualities of *Tobacco*, in order to deceive them by means of these Dreams.

"Various Plants, when chewed, or taken internally, are observed to excite false and delusory Representations and Ideas of Objects. Thus *Dioscorides*, in Cap. de *Solano Maniaco, seu Furioso*, tells us, that a Dram of the Root of this Plant, drank in Wine, produces false, tho' not unpleasant Representations; that double the Quantity produces an Alienation of Mind, which lasts for three Days; and that four Times the Quantity proves mortal. It is also reported, that if a Person, when he is going to sleep, eats *Aniseeds*, they excite pleasant and agreeable Dreams; whereas, the eating of *Horse-Raddish* procures those of a turbulent and ungrateful Kind.

"*Garcias ab Orta* informs us, that the Juice of a certain Plant called *Bangue*, mixed with some other Juices, produces Alienation of Mind, excites Dreams, and frees the Mind from all Anxiety and Uneasiness: The like Effects are brought about by *Opium*, which is much used by the *East-Indians*, and concerning which *Garcias* has treated very largely.

"The *Indians* also, when fatigued by carrying Burdens, or by any other violent Exercise, smook *Tobacco*, by which Means they become as it were stupid, and fall asleep; but when they awake, they find themselves refreshed, and their Strength repaired. The *Ethiopians* brought thither as Slaves, following the Example of the Natives, smook *Tobacco* too frequently, for which their Masters chastise them severely, and burn their *Tobacco*, in order to deprive them of an Opportunity of using it, which, however, they continue to do secretly and in private.

"*Tobacco* is also used by the *Indians* in order to allay Hunger and Thirst; for they calcine some Shells of River-Snails, and by Trituration reduce them to a fine Powder, of which, and *Tobacco* Leaves, they take equal Parts, and chew them together till they are reduced to a Kind of Mass, which they form into Pills, larger than a Pea: These they dry in a Shade, and preserve for Use. When they intend to travel through Desarts, where they expect neither Meat nor Drink, they take a sufficient Quantity of these Pills along with them, put one between their Under-Lip and Teeth, and constantly suck the Liquor from it; so that when one is consumed, they supply its Place with another, and thus they perform a three, and sometimes a four Days Jour-ney; during which Time, they say, they neither feel the Effects of Hunger nor Thirst: The Reason of this probably is, that as they continually suck these Pills, they draw the pituitous Humours from the Brain, which being swallowed, moisten the Stomach, and allay its natural Heat, but are at last consumed by it for Want of other Aliments. Instances of a similar Nature may be observed in many Animals, which, during the whole *Winter*, confine themselves to their Holes without any Food; because the natural Heat of the Stomach is employed in digesting and consuming the Fat which they had gathered in the *Winter*."

These are all the Virtues and Qualities of *Tobacco* known to *Monardus*: But, besides this, *Zacutus*, in *Observat. Lib. 1. de Medic. Princip. Histor.* informs us, that he had often found the Juice of *Tobacco* effectual for the Cure of an *Alopecia* or Falling off of the Hairs: Nor is this to be wondered at, since, as the Medicine indicated ought to bear an Analogy to the indicating Symptoms, as *Tobacco* is hot and dry, resolvent, cleansing, and somewhat astringent; and as all these Qualities are, according to *Galen*, indicated in an *Alopecia*, *Zacutus* might succeed in the Cure of it by means of *Tobacco*. I remember two Girls, who being indisposed, had a *Lixivium*, in which dry *Tobacco* Leaves were macerated, prescribed for taking the Scales off their Heads; but the one was seized with a gentle *Vertigo*, and the other thought she perceived herself, as it were, drunk. But I mention these Accidents for the Sake of young Practitioners, without any Design to discourage them from applying *Tobacco* and its Preparations to other Parts of the Body; for the celebrated *Hartmann* seems to have thought the Essence of the green Leaves of *Tobacco*, obtained by Infusion in *Malmsey* Wine, a Specific for the Cure of the *Palsey*; and after a Sweat has been procured, orders the paralytic Limbs to be long rubbed with it; by which Means, he says, he has often seen them happily restored.

Though *Tobacco* is a valuable Herb, yet the Abuse of it, which we shall afterwards consider, is intolerable, and highly noxious. Besides, *Monardus*, *Ægidius Everartus*, in 1587, at *Antwerp*, published a beautiful Commentary upon the Virtues and Uses of *Tobacco*: And when the same Work was reprinted at *Utrecht* in 1644, various Treatises concerning *Tobacco* were added to it; such as the *Misocapnus*, or a Treatise on the Abuse of *Tobacco*, taken from the Works of King *James* the Sixth of *England*; *Tobacologia Johannis Neandri. Epistolæ ac Judicia clarissimorum aliquot Medicorum*; and the *Hymnus Tabaci Raphaelis Thorii*. After these Authors appeared *Chrysostomus Magnenus*, Professor of Medicine in the University of *Padua*, who in 1648, published very learned Exercitations concerning *Tobacco*. Not only from the Authors already mentioned, but also from *Andreas Cæsalpinus*; *Dalechampius's Historia generalis Plantarum*; *Lobelii Adversaria*, *Clusius in his Notæ ad Monardum*; *Dodonæus*; *Tabernamontanus*; *Nardi Antonii Recchi Res Medicæ Novæ Hispaniæ, cum Terentii Lyncei Notis*, we learn what is the native Soil of *Tobacco*, and how the knowledge of it was introduced into *Europe* after the Discovery of *America* by *Christopher Columbus* and *Americus Vesputius*. Some of these Authors have also described its Virtues and Use, whilst others of them have treated very fully concerning the Abuse of it. Following the Example of these great Men, I shall proceed, without any Partiality, and with that Freedom which is always peculiar to Truth. This is certainly a difficult Attempt, considering the Opposition and Prejudice with which I have to grapple. But before I proceed, I shall take Notice of the Error of *Libavius*, who, according to *Magnenus in Exercitat. 1. Par. 1.* asserts, that *Tobacco* was a Native of *Europe*, since it was found in the almost inaccessible Places of the *Hercynian Forest*: But adds this Author, *Who denies that Seeds are dispersed, and carried every where by the Winds?* But it is by no means probable, that the Seeds of *Tobacco*, which, comparatively speaking, are as small as the Atoms of *Democritus*, could, by a Whirlwind, be conveyed to the *Hercynian Forest* in *Germany*, from *France*, *Italy*, or *Spain*, much less from *America*. This is a Plant of a

particular specific Kind, and the Native of *America*: Neither does any Historian mention such a Whirlwind for the Dispersion of its Seeds. It is true, Mount *Ætna* in *Sicily*, and Mount *Hecla* in *Iceland*, by their sulphureous Eruptions, throw the Ashes to a vast Distance: But it does not to me seem probable, that the Air should ever be in such a gyratory Motion, as to convey Seeds from one Quarter of the World to another, or from one Country to another, though it is not to be denied but they may be carried from a Plain to a rising Ground, or from one Garden to another adjacent to it.

Those Authors, who have called *Tobacco Herba rixosa*, the Strife-producing Herb, and *Herba insana*, the Plant which excites Madness, seem not to have been very much in the wrong; for what is more frequent than for People of all Denominations to spend the whole of the Day smoaking *Tobacco* in Ale-Houses and Taverns? Nay, so fond are young and old Men of *Tobacco*, that the Father forgets the Interests of the Son, and the Son those of the Father for its Sake. Thus some Men use large Quantities of *Tobacco*, whilst, perhaps, their Families are starving at Home: Whereas some Children spend upon *Tobacco* what their industrious Parents had, with Toil and Care, amassed for their Use. Nay, such is the Madness of some *Europeans*, that they will, for a Trifle, dispose of their Goods, in order to gratify themselves with *Tobacco*.

King *James* the Sixth of *England* tells us, "that, among the *Americans*, a Servant addicted to the Smoaking of *Tobacco*, can hardly find a Purchaser; so odious is that Custom to the Authors of it themselves." We *Europeans*, however, are so infatuated and hood-winked, as yearly to sail to *America*, spare no Expences, and expose ourselves not only to Storms and Tempests, but also to Sickness and Death, for the Sake of *Tobacco*; and it is certain, that our Men, on their Return from *America*, spread through all *Europe* the *Neapolitan* Disease, which, as *Fiorovanta* thinks, was endemial to the *Americans*, on Account of their eating human Flesh. This, to use the Phrase of *Agrippa, de Vanitat. Scientiarum*, Cap. 84. is to purchase Death at a great Price. The *Indians* and *Barbarians* have such an Aversion to the Abuse of *Tobacco*, that they severely chastise the *Ethiopians* and Slaves for it, and burn their *Tobacco*; probably, because they suspect that it renders them valetudinary, and disables them to work; in which Situation they are a Burthen upon their Masters. According to *Viganenus*, in *Lib. de Ritibus Moribusq; Turcarum*; and *Johannes Chrysostomus Magnenus*, in *Exercitat. de Tabac. Exercit.* 6. §. 10. *Amureth*, the 4th Emperor of the *Turks*, by an Edict, prohibited the Use of *Tobacco*, under Pain of Death, lest, by the Abuse of it, his Subjects should become effeminate, feeble, and barren. According to *Adamus Olearius*, in *Lib. 3. Cap. 6.* the Emperor of *Muscovy*, in 1634, by an Edict prohibited the Importation of *Tobacco* and *Snuff* into his Territories, under the Penalty of being beat with Rods, and having the Nostrils slit in Case of Disobedience: And the same Author says, he saw some who had these Marks of Infamy inflicted upon them. In *Lib. 5. Cap. 31.* he also tells us, that *Schach Abas*, the *Persian* Monarch, prohibited all Use of *Tobacco* in that Army, which he raised against *Tameran Chan* under the Penalty of the Offender's having his Nose and Lips cut off; nay, he was so rigid, or rather cruel in his Discipline, that when a certain *Persian*, ignorant of the Edict, came into his Camp with some *Tobacco* to sell, he ordered both him and his Commodities to be thrown into one Funeral Pile and burnt.

These, and other similar Examples, might perhaps have a lucky Influence on some *Europeans*, unless the Custom of using *Tobacco* had become so prevalent and universal, that *James* the Sixth said he believed "that a whole Wood in *England* would hardly afford Trees enough for hanging the Dealers in *Tobacco*." *Hoffman*, in *Lib. 2. de Medicam Officinal. Cap. 3.* informs us, "that this Prince, in the University of *Oxford*, disputed publicly against the Use of *Tobacco*, giving Instances of Persons who used it, who were afflicted with incurable Disorders of the Breast, Deliriums, Watchings, and Convulsions; and after whose Death, the Lungs were found black and parched, just as if they had been indurated in Smoak." The same *Hoffman* informs us, that he was told by some Soldiers who had resided in *Holland*, "that upon dissecting the Heads of some Snuff-takers, who had been executed, they observed, that the whole internal Part of what Anatomists call the *Patera* of the Brain, was black with Snuff." He was also told by *Patricius Noræus*, "that in the last *Bohemian* War, he saw all the Heads of the *English* Soldiers, who were killed, in the same Condition." *Nardus Antonius Recchus*, in *Lib. 5. Rer. Medicar. Nov. Hisp.* observes, "that those who use *Tobacco* too frequently, become ill coloured, have a squalid, sordid Tongue, a Palpitation of the Throat, and a preter-natural Heat of the Liver, and fall into Cachexies and Dropsies, by which they are at last cut off." Thus they suffer for their Folly in gratifying themselves in so preposterous a Manner.

But without expatiating farther upon Things so obvious, let it suffice to have warned the Reader of his Danger, by the foregoing Observations. That Smoaking is more prejudicial and injurious than Snuffing, I think may be justly asserted, if we consider the Instances which Anatomists give us of the Effects produced by each, which we shall hereafter do: I must, however, here observe, that we cannot enough admire the Zeal of *James the Sixth of England*, for the Good of his Subjects; since, in the last Words of his *Misocapnus*, he expostulates with them in the following pathetic and affectionate Manner: "At last, therefore, O Citizens, if you have any Sense of Shame, or Dread of Infamy, left in your Bosoms, lay aside the Use of *Tobacco*, a Custom attended with Ignominy, received through Error, and established by Stupidity. By its Means the Wrath of Heaven is excited against us, the Health of our Bodies impaired, our Substance wasted, and the Dignity of our Nation not only diminished at Home, but also despised Abroad; for *Tobacco* is a Substance loathsome to the Sight, disagreeable to the Smell, noxious to the Brain, injurious to the Lungs, and, by its Clouds of black Smoak, nearly resembling the horrid Steams of Hell."

If any Champion for the Interests of *Tobacco*, deaf to my salutary Instructions, should ask me whether I would have the Pope, the Emperor, and all the Kings, Electors, Princes, and Dukes in *Europe*, prohibit and discharge the Use of *Tobacco*? I answer, that such a Revolution is really to be wished for, on Account of the Abuses of *Tobacco* before enumerated. But, before I proceed to give a fuller Answer, I would have the Person who asks this Question, attentively listen to the following sublime and truly noble Sentiments of *Seneca*, in *Lib. de Vita Beata, Cap. 1*. "Nothing, says he, is more worthy in itself, nor more becoming the Dignity of a free-born Soul, than not, like the Cattle, implicitly to follow the Van of the Flock, going, not whither we ought to go, but whither they go before us. But nothing involves us in more terrible Misfortunes, than our judging of Things by Fame and Report, esteeming those Things best, which are most universally assented to, and approved, as we find in numberless Instances. We neither live agreeably to the Dictates of Reason, nor in a Manner that is uniform and consistent with itself: Hence it is, that such Numbers of Individuals fall, as it were, upon others. In a large and crowded Army, none falls without drawing another along with him, and the foremost prove fatal to those who succeed them. The like happens in every Part and Circumstance of human Life; for it is the universal Practice to impose upon our own Reasons, and, by that Means prove the Cause of Errors to others." It is therefore to be lamented, that we *Europeans* should thus brutally follow the Custom of the *Barbarians*, without listening to Reason, in which we so far excel them, since, to use the Expressions of *Salust*, "They are addicted to Intemperance and Sleep, so rude and uncultivated, that they seem to lead the Life of Brutes, rather than that of Men, since they indulge themselves in Voluptuousness, whilst their Souls are a Burthen to them." In a word, they live in a no less brutal Manner, than the Inhabitants of the Main Land of *Africa*, who, according to *Hippocrates*, in *Lib. de Morbo sacra*, "lie upon Goat-Skins, and eat Goat's Flesh, without any Bed-Cloths, or Garments, or Shoes, except what are made of Goat-Skins." The *Americans* are still worse, since they feed upon human Flesh, have nothing to cover them, and pass their Time in desert Places, and lurking Holes. Since, therefore, the Climate, Soil, and Non-Naturals of the *Americans*, are widely different from those of the *Europeans*, it is highly reasonable, that we should neither admit, nor tolerate, the continual and habitual Use of *Tobacco* in *Europe*.

Cornelius Agrippa, in *Lib. de Vanitat. Scient. Cap. 84*. seems, with a good deal of Reason, to think, "That it would greatly contribute, not only to the Health of Mankind, but also to the Interests of particular States, to prohibit the Importation of foreign and exotic Drugs, which are often counterfeited, or adulterated, by those who deal in them, to the great Detriment of the State." No less salutary and reasonable is that Law enacted at *Rome* by *Nero*, which runs in the following Tenor: "Apothecaries are hereby enjoined, to use no other Medicines, but those found in *Italy*, since these are not only better suited and adopted to the Constitutions of *Romans*, but may also be had far fresher, more genuine, and with less Difficulty, Expences, and Danger, than foreign Medicines, the most of which are justly to be suspected, as sophisticated, spurious, spoiled in the Ship, corrupted by Age, or not collected at due Seasons, or in proper Places." Since the Diseases described by the Antients, sometimes seize the *Europeans*, though with new and uncommon Symptoms; and since new Diseases also appear in *Europe*, I think it is not to be doubted, but the Meats, Fruits, and other Delicacies, sent from *Asia*, *Africa*, and *America*, into *Europe*, are, in some Measure, the Sources of our Calamities.

But, without any farther Digression, I shall confine myself to the Abuse of *Tobacco*. That *Tobacco*, when used with Prudence and Propriety, is a salutary Medicine, I do not deny; since I myself use it with great Advantage in the *Spring* and *Autumn*, at which Seasons I am afflicted with catarrhus Defluxions. Most People, when only seized with a gentle Cough, are so cautious, as not to venture upon a small Dose of the Syrup of Violets, or Liquorice, without consulting their Physicians, Friends, and Nurses; but vast Numbers of the *Europeans*, without

any Advice, greatly incommode and disturb the Brain, the Seat of their Reason, by using the highly penetrating Smoak of *Tobacco*, in the Morning and Evening, in the Night as well as the Day, and in all States and Constitutions of the Weather, calm and serene, as well as cloudy and over-cast. Let us therefore lay aside this barbarous Custom, so fatal and prejudicial to Health.

Besides, it is probable, that the crafty *Americans*, sensible of the vast Quantity of *Tobacco* yearly imported into *Europe*, may, for the Sake of Gain, impose upon us; for it is certain, that our own Merchants, influenced by a base and sordid Principle of Avarice, have long ago found Methods of adulterating *Tobacco* by Means of Brine, Lemons, Vinegar, Wine, and Euphorbium. But with respect to these Frauds, the Reader may consult *Neander* in his *Tabacologia*. Besides, it is hardly credible, that the Roaps brought from *America*, under the Name of *Tobacco*, consist intirely of good and sound *Tobacco* Leaves: For almost every one knows, that the Marks of the Goodness of *Tobacco*, whether drawn from the Colour, Smell, Taste, or Weight, vary very greatly among the *Europeans*, who, to their Disgrace be it said, have learned to hang their *Tobacco*, when corrupted, insipid, or light, in Houses of Office, or Vaults, in order to be rendered more acrid and ponderous by the volatile Salts of human Urine and Excrements, under a specious Pretence, that these Salts render it beneficial and salutary, by cleansing the Head; which, they say, is highly beneficial to Persons who drink much. But this is certainly an improper and prejudicial Method of treating the Head, and evacuating its Excrements; concerning the copious Production of which, by means of the corrupted Temperature of the Brain in Persons who daily smoak *Tobacco*, we shall afterwards treat.

Having premised these Things, we now come to decide a Question lately begun to be agitated, namely, Whether Snuffing or Smoaking is the more innocent and safe Custom? I affirm, then, that both are generally pernicious, and none of them to be recommended to any one without great Caution and Deliberation: Though I remember I was formerly a Smoaker of *Tobacco*, yet, I am of Opinion, that Snuffing is a less injurious and hurtful Practice. Some are of Opinion, that by the constant Use of Snuff, the Sight is rendered more clear and penetrating; but with how great Danger this Practice is accompanied, is sufficiently confirmed by *Adrianus Spigelius*, in *Corp. human. Fabr. Lib. 7. Cap. 2.* where he proposes a Problem, together with its Answer, in the following Words: "What is the Cause, why many Persons, by often repeated Sternutations, especially when industriously excited, suddenly become blind? This happens, either because the Ramifications of the caroted Arteries, which are so near the Optic Nerves as to touch them, are so filled, as to compress them; or, because a large Quantity of pituitous Humours is conveyed from the Brain to the Optic Nerves, which are thereby obstructed. When the Disorder arose from the former of these Causes, I have seen the Patients cured by a *Seton*; but, when it proceeded from the latter, I never remember to have seen it cured." *Joh. Chrysostomus Magnenus*, in *Exercitat. 8. de Tabaco. §. 1.* affirms, "that by violent Sternutation, some Persons have died; since by it the Head has been so strongly agitated, as by the Effort to burst the *Meninges*, and relax the *Compages* of the Brain." And this Opinion he confirms by the Example of a certain Baker, mentioned by *Famianus Strada*, "who, when he had twenty-four Sternutations immediately succeeding each other, died of the twenty-fifth, by the violent Shock, of which the Arteries of the Brain, and Membranes surrounding it, were broken." The same Author, in *Sect. 4.* of the last-cited Chapter, affirms, "That he saw a certain Man, who by the excessive Use of Snuff, had the chrystalline Humours of his Eyes corrugated, so that all Objects seemed to be in a Kind of fluctuating Motion before him."

If it should be objected, that such Accidents are rare; I answer, that though they are rare, yet they are not impossible; and, what has happened to some, may also be the Fate of others. Though, therefore, the *Falx* of the *Dura Mater*, and the *Torcular* of *Herophilus*, the fatal Seat of an *Apoplexy*, are not forthwith so disordered as to yawn by Snuffing, yet the Interests of the Five Senses are but ill consulted, by often drawing from the Brain with Snuff, what we call *Snot* or *Mucus*, which is evacuated through the Nose; or rather, according to *Galen*, and other Anatomists, through the *Os Ethmoides*, which is the Organ of Smell, but not at all destined for eliminating the Excretions of the Brain. Thus Persons who use Snuff to Excess, instead of bettering, rather impair their Sight, and for their Pains generally lose the Sense of Smelling.

As the Person who, for his Crimes, has lost his Ears, is looked upon with Infamy; what better Treatment does he deserve, who, either through a Contempt of Medicine, or an obstinate Fondness to gratify his own Inclinations, either impairs or destroys those Senses, which indulgent Heaven has bestowed upon him for so noble Purposes! With respect to Instances of this Misfortune, and the Reasons why it happens, *Magnenus* in *Tr. de Abusu Tabaci, Exercitat. 6. Sect. 15.* speaks in the following Manner: "The Sense of Smelling, as I have been told by many,

who have either snuffed or smoaked to Excess, is abolished by the Abuse of *Tobacco*, because the mamillary Processes are thereby dried, so that when they are rendered drier than the Effluvia exciting the Perception of any Smell, they cannot be duly acted upon by such Effluvia; for Smell, according to *Aristotle*, in *Lib. 3. de Animal.* consists in the dry Effluvia surpassing the Moisture of these Processes; so that the common Sensory may have a Change produced in it by proper and adequate Objects." *Magnenus* also, in *Exercitat. 28. Sect. 1.* tells us, "That he knew a Man, who, in one Day, snuffed four Ounces." After which, he proceeds to enquire into the Advantages and Injuries attending the Use of Snuff; and to consider why it excites Sternutation in those who are not accustomed to it, but not in those who are. This accurate Author also, among other Reasons against the excessive Use of Snuff, advances this, that it may enter the Passages of the *Os Ethmoides*, form itself into *Concretions*, and there lodge for a great while. Hence, it is sufficiently obvious, that when the Passages and Perforations of this Bone are obstructed by Snuff, the Air can neither have Access to the Brain for its Ventilation, nor can the Effluvia of odorous Bodies be conveyed to it; in Consequence of which, the Sense of Smelling must necessarily be lost. Though this should, perhaps, be looked upon as a trifling and inconsiderable Loss; yet Snuff, by its highly narcotic, heating, drying, penetrating, and unctuous Qualities, has such an unlucky Influence on the eighth Pair of Nerves of *Spigellius*, or the first of *Bartholin*, which are appropriated to Smelling, that it gradually impairs, and, in process of Time, totally destroys that Sense; because this Pair of Nerves is conveyed to the mamillary Processes, which are situated in the interior Part of the Brain, near the *Os Ethmoides*, which is covered with the *Dura Mater*. Since, therefore, a large Quantity of Snuff is violently attracted towards the Root of the Nose; and since, according to the Doctrine of *Hippocrates*, Nature is never one Moment idle in a living Body, all whose Parts are pervious and transparable, it must necessarily happen, that the Parts subservient to the Sense of Smelling must be greatly injured by the narcotic Quality of Snuff. Having said thus much of the Misfortunes produced by excessive Snuffing, we now come to consider those attending the Abuse of Smoaking; in doing which, we shall confine ourselves to Examples, which have a better Effect on the Vulgar, than the nice and fine-spun Deductions of a Philosopher's Reason.

It is therefore certain that *Tobacco* is possessed of an highly penetrating Quality. Thus the celebrated *Heurnius*, in *Lib. 1. Method. ad Prax.* speaks of it in the following Manner: "*Tobacco*, when smoaked, produces very singular Effects, since it draws a surprizing Quantity of Phlegm from the Mouth and Nostrils: The Smoak arising from its dry Leaves laid upon live Coals, when received into the Mouth by a Funnel, pervades the whole Brain, and is also conveyed to the Ears, and *Uterus*. But I can affirm, that this Herb is, in a peculiar Manner, appropriated to the Brain; easily conveys its Virtues thither, and evacuates all its *Sordes*: For, about a Year ago, when I was afflicted with the Tooth-ach, I made a Decoction of *Tobacco* with Water, adding some *Camomile* Flowers: A Spoonful of this Decoction, when tepid, I put in my Mouth, and spit it out some Time after; and this I did for two Hours; by which Means my Pain was considerably alleviated. Next Day, when I went to my Garden, and stooped to pull up a Weed, a large Quantity of a Saffron-coloured Liquor, which smelled like *Tobacco*, flowed from my Nose, upon which my Tooth-ach was immediately removed. During the whole of my Life, neither Blood, nor any other Liquor, except a ferous Phlegm, had flowed from my Nose, but upon this Occasion I never saw any Liquor of a deeper yellow Colour." Other similar Accounts of the penetrating Quality of *Tobacco*, I have had from my old Master, *Henningus Arnesæus*, Physician to *Christianus*, the fourth King of *Denmark*, who affirmed, "That not only the Smoak of *Tobacco*, but also that of every other Substance received by the Mouth, was penetrating on Account of its Acrimony; in Consequence of which, it must pervade and alter the whole Substance of the Brain, both *Meninges*, and all the Vessels, and Contents of them." Besides, as the Smoak of *Tobacco* is hot, proceeding immediately from kindled *Tobacco*; and as, according to *Aristotle*, it is the Property of Heat to collect homogeneous, and separate heterogeneous Substances, it must necessarily happen, in the very Nature of Things, that this Smoak should fuse and colliquate the Phlegm, the Receptacle of which is the Brain, which, according to *Hippocrates*, is the largest of all the Glands. I do not in the least doubt of the Truth of *Arnesæus*'s Opinion; for I think that all the Fore-runners of Catarrhs, such as Sternutations, Spittings, and Discharges of Saliva, are produced by Heat, which is the necessary Cause of Catarrhs, though not the productive Cause of the morbid Matter. Thus the celebrated *Hoffman*, in *Lib. 3. Institut. Medic. Cap. 193.* informs us, "That Heat alone, and, for the most part, of the external Kind, such as that of the Sun, or that procured by Exercise, Wine, and Aromatics, among which are *Cinnamon* and *Saffron*, with which we so plentifully season our Aliments, is sufficient to fuse and colliquate the Phlegm, or acrid Serum." Thus a Pipe filled with the burned Wicks of Candles, gathered out of Snuffers, or with a Piece of Match used in discharging Cannons, or with a Piece of bituminous, fossile Earth, especially that of *Holland*, will procure as copious a Spitting, as a Pipe of the best *Virginian* Tobacco. Soldiers also, and Sailors, produce the same Pleasure and Effects in themselves by

smoaking kindled Paper, as are produced by smoaking *Tobacco*. Since, therefore, acrid Smoak and Heat of every Kind, conveyed to the Brain, fuse the Phlegm, and eliminate it by the *Os Ethmoides* and *Sphænoides*, the Nose and the Palate of the Mouth, I see no Reason why *Heurnius* should affirm, "That it has a surprizing Faculty of drawing the Phlegm from the Mouth and Nostrils; that it is peculiarly adapted to the Brain, easily conveys its Virtues thither, and eliminates all its Sordes."

As *Tobacco* is hot, dry, unctuous, and penetrating; it must, on account of these Qualities, soon take Flame: And, as it is possessed of an highly narcotic Quality, it, by its narcotic Sulphur, stupifies those who use it, corrupts the Temperature of the Brain, and destroys its Tone; whereas, the moderate Smoaking of *Marjoram*, *Betony*, *Rosemary*, *Amber*, and other Substances of a like Nature, would eliminate the Phlegm more safely, and without producing any of these ill Consequences. This narcotic Quality of *Tobacco*, is the Reason why great Smoakers are, during the whole of their Lives, afflicted with a continual Spitting, as I have observed in *Histor. Pompinellæ Class. secund. Quadripartit.* Though by the frequent Use of *Tobacco*, a large Quantity of Phlegm is eliminated from the Brain; this Plant is not, therefore, a peculiar Specific, adapted to that Organ: For, on the contrary, since it manifestly abounds with a narcotic Sulphur, it is highly injurious, not only to the Nerves, but also to the whole Substance of the Brain. Hence, as I observed before, many Users of *Tobacco*, not only have their olfactory Nerves so injured by its narcotic Sulphur, as to lose the Sense of Smelling, but are also observed not to have a very exquisite Taste, the fourth and seventh Pairs of Nerves being affected. Persons of this Kind are also observed to be fond of Malt Liquors, and to complain of a languid Appetite; because the sixth Pair of Nerves, which descends into the Stomach, is stupified by the narcotic Sulphur of the *Tobacco*: It is, therefore, absurd to maintain, that *Tobacco* is of a cephalic Quality, and peculiarly adapted to the Disorders of the Head, since it is so unfriendly to the Nerves as to produce a Stupor in them. It is more reasonable to argue thus: *Tobacco* is hot, consists of very subtle Parts, and is highly penetrating; therefore, being at the same Time narcotic, it will prove the more hurtful, the more penetrating it is; because the narcotic Quality of *Tobacco*, which is otherwise slow, like that of *Opium*, or *Hemlock*, is, by its other Qualities, exalted, and put in Action; or, to speak my Sentiments more freely, by means of the Acrimony ascribed to its Salt, whether fixed or volatile, the narcotic Sulphur is conveyed in its full Strength to the Nerves of the Head. That this Sulphur remains pretty long intire, even in a living Person, is sufficiently evinced, by that Saffron-coloured Liquor, smelling like *Tobacco*, which was discharged from the Nostrils of *Heurnius*, next Day after the Abuse of a Decoction of *Tobacco* and *Camomile* Flowers. I would not have any one imagine, that as soon as he lays by his Pipe, his Brain is no longer heated by the Smoak, which, for two or three Days after, he smells, or expires, when he sneezes. Thus, this narcotic, unctuous, and strong-smelled Sulphur, adhering to the Membranes, Ventricles, Gyration, or other latent Passages of the Brain, and being left alone without either Smoak or Heat, gradually and insensibly corrupts the whole Mass of the Brain, by which Means *Tobacco*-Smoakers are obliged to spit and expectorate continually. When the Brain is thus weakened by the copious Spitting excited by the narcotic Sulphur, neither the *Tonsils* nor the *Thymus*, which are destined for imbibing the natural excrementitious Humours of the Brain, are any longer fit for that Purpose. When such an Accident happens, the *Tobacco*-Smoaker begins to yawn, to have a hoarse and shrill Voice, and a stinking Breath, like those labouring under a *Lues Venerea*.

I think I have now sufficiently proved, that as *Tobacco* is of a narcotic Quality, and its Fumes penetrate intimately into the Brain, so, of course, Smoaking must be more prejudicial than Snuffing. But, if People will still obstinately indulge themselves in the Use of this noxious Plant, all I can do farther, is to warn them of their Danger.



A TREATISE ON *TEA*.

I Have hitherto strenuously endeavoured to preserve the Health of the *Europeans*, by discarding and exploding the Abuse of *Tobacco*: But if any one should ask my Sentiments of *Tea*, which some Years ago began to be imported from *Asia*, and the *Eastern* Countries, and which has Qualities quite contrary to *Tobacco*, since it prevents Sleep, and therefore is by some Authors highly commended as an excellent Cephalic, and very grateful to the *Viscera*, subservient to Nutrition: I answer, that no satisfactory Reply can be made, till we know the Genus and Species of *Tea*, and to what Species of *European* Herbs it may be referred or compared; for *Tobacco* is by us called the *Peruvian Hyosciamius*, but we give no Name of any of our Plants to *Tea*: Nay, it is not known, whether *Tea* is what the *Greeks* call Ποα, an Herb, or Θαμνίσκιον, a Shrub, which Words, according to *Ruellius*, *Morantha*, and others, are so confounded by *Dioscorides*, *Theophrastus*, and other Botanists, as to occasion great Disputes among the Learned. But the Authors, who have most faithfully collected whatever has been wrote upon *Tea*, either in the *Spanish*, *French*, *Latin*, *English*, or *Dutch* Languages, are *Nicolaus Tulpus*, and *Nicolaus Trigautius*, from the Works of whom I shall enquire,

1st, Of what Kind and Species the Herb *Tea* is?

2d, Whether *Tea* is only the Produce of *Asia*, and whether it is ever found in *Europe*, or not? And,

3d, Which of the *European* Herbs may be most properly used in its Stead.

Tulpus, then, speaks in the following Manner: "In the *East Indies* nothing is more common than drinking the Decoction of an Herb, which the *Chinese* call *Thee*, and the *Japanese*, *Tchia*. As my Accounts of this Plant were received from the best and most impartial Authors, I shall willingly hand them down to Posterity. The Herb *Tea*, therefore, has long acuminate Leaves crenated about the Edges. Its Roots are fibrous, and divided into very small Shreds. It grows not only in *China* and *Japan*, but also in *Chiam*, only the Leaves of the *Chinese Tea* are of a blackish green Colour: Whereas the *Japanese Tea* is of a fainter Colour, and more grateful Taste. Hence it also happens, that the *Tchia* of the *Japanese*, is far more esteemed than the *Thee* of the *Chinese*; since one Pound of the former is frequently sold at an Hundred *Libræ*; for it is in these Parts of the World believed, that nothing is more salutary and beneficial than this Herb, whether for protracting Life to extreme old Age, or for preventing the Attacks of Diseases. It not only renders the Body vigorous and active, and prevents the Stone, to which none of the Inhabitants are for this Reason subject, but also removes Head-achs, Stuffings of the Head, Inflammations, and Distillations of the Eyes, a Difficulty of Breathing, Weakness of the Stomach, Gripes of the Intestines, and Weariness. It also so effectually prevents Sleep, that those who drink it at Night, can sit up, without feeling the least Inclination to sleep: for it is moderately heating, and by constricting the Mouth of the Stomach, hinders the Ascent of those Vapours which are necessary to procure Sleep; so that, by its Means, nothing hinders or interrupts those who intend to read or write all Night.

"This Plant, however, seems neither to have been long known, nor long used, among the *Chinese*, since they have no hieroglyphical Characters, such as most of their Letters are, which express its Nature and Qualities. These two Nations also differ widely, with respect to the Manner of using *Tea*; since the *Japanese* mix the *Tea*, powdered in a Marble Mortar, with warm Water: Whereas, the *Chinese*, boil the Plant itself with some Liquor, adding a few Grains of Salt, or Sugar. This Decoction, they drink with their Friends and Visitors; and even their leading Men do not think it beneath them, but rather a Piece of Honour to prepare the *Tea* for their Guests; for which Purpose they have Closets in their Palaces, fitted up on purpose, in which they keep their Pots, Tripods, Tunnels, Cups, Spoons, and other *Tea* Utensils, which they buy at an exorbitant Price, preserve in Silk, and only use when their best Friends visit them. These, they esteem as much as we do Adamants, Gems, and the most precious Stones. See *Joh. Maffæus, Rer. Indicar. Lib. 6. & 12. Ludovic, Almeid. Select. Epist. Lib. 4. Petr. Garric. Tom. 2. Lib. 2. Cap. 17. Matth. Ricius, de Christ. Expedit. apud Sinas, Lib. 1. Cap. 7. Alois Frois, in Relat. Japon. Jac. Bontius, Dialog. 6. Med. Indorum, & Johan. Linseot, Cap. 26.*"

Nicolaus Trigautius, in *Tractat. de Regno Chinæ, Cap. 3.* where he treats of the Things produced in *China*, gives us the following Particulars, with respect to *Tea*: "I purposely, says he, omit the Description of many Things necessary, such as Marbles of different Colours, Carbuncles, and other Stones and Gems, not unfit for painting; odoriferous Woods, Bitumens, and an incredible Number of other Curiosities; but I neither can, nor ought to pass over, in Silence, two or three Things, unknown to the *Europeans*; the first of which is, that Shrub, of the Leaves of which is prepared that celebrated Liquor, called *Cia*, by the *Chinese*, *Japonese*, and neighbouring Countries. It is not possible, that the Herb from which this is prepared has been very long used by the *Chinese*; since, in order to represent it, they have no hieroglyphical Characters, such as all their Letters are. Hence it may, perhaps, be suspected, that our *European* Woods produce this Herb. They gather the Leaves in the *Spring*, dry them in a Shade, and keep them for preparing a Decoction, which they almost continually use, not only at their Meals, but also when their Friends come to visit them; for this is generally the Entertainment to which they invite each other. It is always drank, or rather sipped warm; nor is it ungrateful to the Palate, in consequence of its temperate Bitterness; but it is very salutary, and frequently used for various Disorders. *Tea* is not with them all of one Price; since, sometimes, a Pound is sold for a Noble, and, at other Times, for two or three, if it is accounted good: The best of the *Japonese Tea* is often sold for ten or twelve, and the Method of preparing it with these, is somewhat different from that of the *Chinese*; for the *Japonese*, having reduced their *Tea* to a Powder, mix two or three Spoonfuls of it with a Cup of boiling Water, which they drink when moderately cool: Whereas, the *Chinese* throw some of the Leaves into a Vessel of boiling Water, which, after it has imbibed the Force of the *Tea*, they drink, leaving the Leaves." But, in the seventh Chapter of the same Work, which treats of some of the Customs of the *Chinese*, the Author speaks in the following Manner: "When any one receives a formal Invitation to a Feast; the Day before, or several Days before, it is to be kept, the Master sends him a Kind of Ticket, desiring his Presence: When he is come to the House, and the usual Ceremonies past, he is set down in the first Hall, where he drinks his *Tea*; after which he is conducted to the Feasting-Room, which is not adorned with Carpets, which they never use, but with Pictures, Flowers, Vessels, and other antient Houshold Furniture." Though these Accounts may satisfy the Vulgar, yet they will not prove satisfactory to Physicians, who want to know, whether *Tea* is an Herb, a Shrub, or a Species of Copse; for the two last quoted Authors differ from each other; since *Tulpius* calls the *Chinese Tea*, "an Herb, with darkish, green, oblong Leaves, acuminate and crenate about the Edges, with fibrous Roots, divided into many small Shreds. Whereas, the Leaves of the *Japonese Tea* are of a fainter green Colour, and of a more grateful Taste." But *Trigautius* affirms, "that it is a Shrub of the Leaves, of which the celebrated *Cia*, of the *Chinese* and *Japonese*, is prepared by Decoction." The former asserts, that the Herb *Tea*, grows not only in *China* and *Japan*, but also in *Chiam*: The latter thinks it is to be suspected, that it is also produced in the *European* Woods: But, as I shall afterwards accurately discuss these Points, I shall only here observe, from *Olearius*, that *Maffæus*, in *Tr. de Rebus Indicis*, affirms, that the *Japonese*, from a certain Plant, express an highly salutary Liquor, which they call *Chia*; and *Linschotanus*, in *Tr. de Insula Japoniæ*, tells us, that the Inhabitants of *Japan* prepare a Drink called *Chaa*, from a certain Herb: But these Authors neither mention the Shrub, nor the Leaves, but unanimously assert *Tea* to be an Herb. *Jacobus Bontius*, Physician in Ordinary to the Town of *New Batavia*, in the Island of *Java*, in the *East Indies*, in *Medic. Indor. Lib. 2. de Conserv. Valetud. Dialog. 6.* affirms, "that the Leaves of the small Herb, from which *Tea* is prepared, resemble those of the *Daisy* or lesser *Cousound*, and have small Incisions about their Edges." But since, in the subsequent Chapter, he affirms, that the Inhabitants of that Country, though brutally ignorant in every other Respect, have yet such an exact Knowledge of Roots and Plants, that if *Pavius*, the greatest Botanist of his Age, was to rise from the Dead, he would wonder to find that he could be instructed by these Men; I am surprized, he should have despised their Information, and, contrary to the Custom of their Historiographers, given us (*Europeans*) such a lame and imperfect Description of *Tea*, when commenting on the *Indian* Plants. One would be ready to take it for an Herb, when he is told, that its Leaves resemble those of the *Daisy*, and have small Incisions about the Edges, which *Tulpius* also ascribes to them. It is worth our Observation, that *Tulpius*, *Trigautius*, *Bontius*, and other Authors, unanimously agree in this, that the Decoction of *Tea* is of a pretty, grateful, bitter Taste. In order, therefore, to clear up these Difficulties, I must have recourse to the Reverend Father, *Alexander de Rhodes*, who, in his *Sommaire des divers Voyages & Missions Apostoliques*, speaks in the following Manner: "Among the most memorable Things in this Country, is *Tay*; the Use of which is not only common to all the *Eastern* Countries, but also begins to be known in *Europe*: It is justly to be reckoned among the most salutary Substances which I observed in this Country; and I do not know but it is one of the principal Causes, why the Inhabitants not only enjoy such a good State of Health, but also arrive at so extreme an old Age. The Leaves are as big as those of the Pomegranate Tree, and the Shrub itself resembles the Myrtle Bush. Nor does *Tea* grow in any Part of the World,

except in two Provinces of *China*, which are *Nanquin* and *Chim*, the Inhabitants of which have their Harvests for *Tea* Leaves, as we have for our Grain in *Europe*. These Leaves they dry in Furnaces, and preserve for Use in close stopped Vessels. It is frequently used through all *China*, *Japan*, *Tonquin*, and other Kingdoms; and there are such great Quantities of it, that it is sold at a Small Price. For this Reason they use it frequently every Day, or rather each Hour, prepared in the following Manner: They throw the Leaves into boiling Water, which they forthwith take off the Fire; and when the Leaves have subsided, which is generally in a Quarter of an Hour, they drink the Water, from which they find three very happy Effects; the first of which is to repress Vapours, and alleviate Pains of the Head: For when I laboured under an *Hemicrania*, or any other Disorder of the Head, by drinking this Water, I had my Pain so quickly alleviated, as if a Person had done it by the Application of his Hand. When, for the Sake of hearing Confessions, I was obliged to sit up whole Nights, I used the same Remedy, and, by its Means, was not only hindered from sleeping, but also felt no more Uneasiness next Day, than if I had not sat up. I once made an Experiment of this for six Nights successively, but must confess I found myself wearied and exhausted. The second Virtue of this Water, or Decoction, is to corroborate the Stomach, and the third to purge the Kidnies from Stones and Gravel." *Bernardus Varenius*, in *Descript. Regni Japoniæ*, Cap. 23. speaks in the following Manner: "Not only the *Japanese*, but also the *Chinese*, are delighted with Draughts of almost boiling Water, in which the Powder of *Tea* is sprinkled. The Herb *Tea* is not only Green itself, but also tinges any Liquor with the same Colour. It grows only in some, and not in all Countries, and the finer Kind of its Leaves is thought to be very valuable. These Leaves are, by the richer Sort, kept in large Vessels, close stopped, in order to prevent the Access of the Air. The Leaves, before they are used, are reduced to a Powder." And a little after he subjoins, "This Liquor is pleasant to the Taste, and highly salutary, especially for carrying off the Uneasiness produced by Surfeits, and for removing all pituitous Disorders: So that it is become a proverbial Saying, with respect to the Rich, *How is it possible they should not enjoy good Health, since they drink the best Tsia?*" *Olearius*, in the Work before quoted, speaks of *Tea* in the following Manner: "We have already observed, that at the *Maidan* in *Ispahan*, there are, among others, particular Species of Inns, called *Tzai*, *Chattai*, and *Chane*, in which, as well as in other Places, the *Persians* drink an hot, black Water, prepared of an Herb, brought into their Country by the *Usbeck Tartars*. This Herb has oblong pointed Leaves, about an Inch long, and half an Inch broad, which, when dried, are of a blackish Colour, and shrivel up into the Form of a Worm; but they are the same with what the *Chinese* call *Tea*, and the *Japanese* and *Indians*, *Chia*, and *Cha*. In each of these Nations, this Herb is highly esteemed; the *Persians* boil it with Spring-Water, *Anise* and *Fennel*: Some of them also add a small Quantity of *Cloves* to it. The *Persians*, *Chinese*, *Japanese*, and *Indians*, ascribe uncommon Virtue and Efficacy to this Water, affirming, that it produces the most salutary Effects on the Stomach, Lungs, Liver, Mass of Blood, and all the *Viscera*, which it deterges and corroborates. It also expels the Stone, removes the Head-ach, and dissipates that superfluous Humidity, which produces Lassitude and Drowsiness. By drinking this Water, a Person is rendered so lively, brisk, and alert, as chearfully to bear the Want of Sleep for several Nights, and without any Pain, or Fatigue, apply long to Business of the greatest Importance. This Liquor, when drank in Moderation, not only preserves Health, but also protracts Life to an excessive old Age. This Herb *Tea* is, at present, well known in *Holland*, since the *East-Indiamen* bring large Quantities of it to *Amsterdam*." *Johannes Albertus von Mandelslo*, in *Itinerar. Indiæ Orientalis*, Cap. 11. gives us the following memorable Account of *Tea*: "In our Visits, we make use of the black Water, in which the Herb *Tea* is boiled. This Liquor, which is very common in the *Indies*, is greatly admired, not only by the Natives, but also by the *English* and *Dutch*; since it is said to carry off Phlegm, warm the Stomach, and procure Digestion. We drink it three Times a Day, namely, in the Morning, Afternoon, and Evening. The *Persians* also drink a black Water, called *Chavve*, which, in Colour, resembles the *Tea*, though its Virtues and Efficacy are different; since the *Chavve* is a great Cooler, and procures Sterility, on which Account, the lascivious *Persians* chuse to drink it: On the contrary, the *Tea* moderately warms, and strengthens, the Bowels and Stomach."

Gulielmus Leyl, a Native of *Denmark*, after his Return from the *East Indies*, at my Request, courteously wrote me the following Particulars with respect to *Tea*: "I was informed by the *Chinese*, in the Islands of *Java*, *Macascar*, *Celebes*, and other Places, that the *Cha*, or *Thee*, grew in *China* and *Cathaya*; but that the best came from *Cathaya*, a Country belonging to the *Tartars*. The Herb is, in the *Chinese*, *Japanese*, *Tartarian*, *Persian*, *Arabic*, *Turkish*, and *Indostan* Languages, called *Cha*; in the Pronunciation of which Word, it is to be observed, that the *Ch* is sounded as it is in *Spain* and *England*; but is by the *Persians*, *Arabians*, and *Turks*, expressed by one of their own Characters. By such of the *Chinese* as border upon the Sea it is called *The*. In these Countries, vast Sums of Money are laid out upon this Herb, which is said to be possessed of very considerable Virtues; for it corroborates the Stomach, and produces a good Digestion; nourishes the Limbs, and dissipates and carries off

by Urine, or otherwise, all peccant and redundant Humidity. It also cures the Gout, and prevents, or expels the Stone and Gravel. During my Residence, for many Years there, I never had the smallest Symptoms of the Gout, with which I have been violently afflicted since my Return into *Europe*. The *Chinese* are also Strangers to the Stone, and their *Tea* not only preserves the Body in good Health, but also removes Intoxication. It prevents Sleep, and renders Persons alert and chearful in the Dispatch of Business. The Water prepared of this Herb, is to be drank in a Morning fasting, with preserved Ginger, as also after Dinner, between Meals, after Supper, or at any Time, since the frequent Use of it is not hurtful. They boil a Pint of Water in a Pot, then put a Spoonful of *Tea* into it, and cover it close up for a Quarter of an Hour, during which Time they shake it frequently. Those to whom this Liquor is disagreeable, on account of its bitter Taste, put Sugar-Candy into the Cup; but, its Efficacy is greater, when drank without it. The People of Fashion in *China* and *Japan*, have their particular Kettles, in which they boil the Water by itself, and then pour it upon the *Tea* in another Vessel, which they cover for a Quarter of an Hour, shaking it frequently."

In order to determine that dubious and perplexing Question, Whether the *Tea* of the *Chinese* is an Herb, or a small Shrub? It is necessary I should previously enquire, whether it is only produced in *Asia*, or whether any of it is also to be found in *Europe*; as also which of the *European* Plants is the most proper Succedaneum to it? In these Disquisitions, I must, therefore, have recourse to the Suffrages of the before-quoted Authors. But I must here advise all Physicians to divest their Minds of Prejudice, and carefully peruse *Hippocrates's* Treatise *de Aere, Aquis, & Locis*, by which they will be informed, how much *Airs, Waters, and Soils*, agree, or disagree, and what proportionable Variations, or Alterations, these Agreements, or Differences are capable of producing. The celebrated *Hoffman*, in *Lib. 2. de Medicament. Officinalibus, Cap. 15.* when speaking of the *Myrtle*, tells us, "That we are carefully to attend to the native Soil and Climate of a Plant, by which it is rendered either better or worse, in consequence of which, its Faculties and Virtues will not be the same in different Countries." This Doctrine I have everywhere inculcated in my *Quadripartitum*, but especially in the Histories of *Betony, Carduus Benedictus, Scurvy-Grass, Marsh Trefoil, Dragons and Squills*. My Design in advancing this is, to shew the Probability of the Production of *Tea*, not only in the Kingdoms of the *East Indies*, such as *China, Japan, Chian, Nanquin, and Cham*; but also, according to the Conjecture of *Trigautius*, in the *European* Woods and Forests: And I am the more inclined to this Opinion, because the celebrated *Olearius* informs us, that the *Tartars* of *Uzbeck*, who, according to *De Laet. in Descript. Persiæ, Cap. 1.* are separated from the *Persians*, wage War upon them, and export *Tea* from *Cattajo* into *Persia*: Besides, *Gulielmus Leyl*, a Gentleman, not only of Distinction, but also of untainted Veracity, informs me, in his Letter, that in *Java* the greater, *Macassar*, and *Celibes*, he was told by the Inhabitants, that *Cha* or *The* grows in *China* and *Catajo*; but that the best is, by the *Tartars*, exported from the latter of these Places, Now, it is sufficiently known, that *Tartary*, on account of the Elevation of the Pole, in many Respects, agrees with the *European* Provinces, situated under the same Degree of Elevation; so that, it is by no means absurd to assert that many Trees, Shrubs, and Herbs, should thrive as well in these *Northern* Provinces, as in *Tartary*, which, like them, is diversified with Precipices, Forests, Mountains, Pasture-Grounds, Vallies, and Rivers. In a word, as *Tulpius* and *Trigautius* think that neither *Tea*, nor its Use, were long known to the *Chinese*, because they had neither any antient Names for it, nor Hieroglyphics to express its Nature; I am more and more confirmed, that *Cha*, or *The*, grows more plentifully in *Catajo* than in *China* itself, especially since *Olearius* and *Leyl* inform us, that *Cha* is a *Tartarian* Word; and, according to the latter of these Authors, only some of the *Chinese*, who live upon the Shore, have begun to call *Cha, Te*. Since, therefore, the *Europeans* frequent *China*, or its adjacent Islands, much more than they do *Tartary*, and since the *Chinese* call the *Cha* of the *Tartars The*, it is probable, that this is the Original of the Word *Tea* in *Europe*, But it is to be observed, that *Tulpius* asserts, that, the *Tchia* of the *Japonese*, is far more valuable than the *Thee* of the *Chinese*; since a Pound of the former is sometimes sold at an Hundred *Libræ* of Silver, which, if I am not mistaken, amount to forty Crowns. But *Trigautius* affirms, that a Pound of the *Chinese* is sold at one *Noble*, and at most for two or three; whereas, a Pound of the best *Japonese* is often sold at ten or twelve. Father *Rhodius* tells us, that *Tea* is no where produced, except in two Provinces of *China, Nanquin* and *Chim*; and immediately subjoins, That there was such Plenty of it, that it sold at a very low Rate: Though these Accounts are inconsistent with each other, yet it is none of my Business to reconcile them; since my Design is only to shew, that the *Cha*, the *Tchia*, or *Thee*, whether a Species of Copse, or an Herb, is indigenous to *Tartary*. Now, as *Tulpius* and *Trigautius* have shewn, that *Tea* has not been long known to the *Chinese*; and, as *Olearius* and *Leyl* assert, that it is exported from *Tartary* into *Persia*, as well as *China*, I am of Opinion, that it probably began to be known in *China* when the *Tartars* in 1644 made an Incursion into that Country, and that it was first transported into *Europe* from the *East-Indies*. And though the Authors mentioned by *Olearius* affirm, that the *Thee* of the *Chinese* was known

before this Incursion; yet as the *Tartars* had several Times before laid *China* waste, it is not improbable, but the *Chinese* were, by the *Tartars*, with whom I believe it is cheap, first taught the Use of *Tea*, as we were by the *Chinese*: For if, according to *Tulpius*, *Tea* is sold at so great a Rate in *China*, or, if a Pound of the best *Tea* is often sold at twelve *Nobles* in *Japan*, I cannot see how the Merchants of *Amsterdam* and *Hamburg*, who may reasonably be allowed a fourth of Profit, could afford a Pound for eight *Nobles*. Since, therefore, *Tartary* is a very extensive Kingdom; and since, in some Provinces of it, the *Tea* of the *Chinese* grows, I think it very probable, that the same *Tea* may be found in the similar, heathy, copsy, and uncultivated Places of *Europe*. We now come to enquire, whether *Tea* is an Herb, or a Kind of Copse: Besides the Authors, therefore, already quoted from *Olearius*, as affirming that it is an Herb, *Bontius*, *Varenius*, *Olearius*, *Johannes Albertus von Mandelslo*, and *Leyl*, also call it an Herb: But *Trigautius* and *Rhodius* pronounce it a Kind of Copse, or small Shrub. If, therefore, we are swayed in our Judgment by the Plurality of Voices, we must infallibly conclude *Tea* to be an Herb. But as, in all Cases, one Eye-Witness is better than ten who take Things upon Report; and as the two last-mentioned Authors travelled through the *East-Indies*, it is more reasonable to trust to their Descriptions, than to those of the others, who, being no professed Botanists, were, in some measure, misled by botanical Authors, who too often confound Words, as we have shewn in the Dissertation on *Tobacco*: However, to reconcile these Differences, we say, that *Tea* may be defined and described, either as an Herb, or as a Kind of Copse, or small Shrub; for as Geographers, in their Descriptions of *Nova Zembla*, and the *Terra Australis incognita*, make Conjectures about some Things which they never saw, because they were never there; so, why may not I, though I never was in *Asia*, make an Attempt to delineate an *Asiatic* Plant, which is the Herb, or Shrub, *Tea*, in order to prevent that excessive Import of it, which corrupts our Regimen, and impairs our Health no less than the *Tobacco* sent us from *America*? Now, though *Asia* furnishes the *Chinese* with *Tea*, as a salutary Medicine, yet she obtrudes it upon us, at the same Time we are ignorant what it is; for which Reason I shall describe *Tea*, both as an Herb, and as a Kind of Copse, or small Shrub. "*Tea*, therefore, as an Herb, has oblong Leaves, acuminate, crenated about the Edges, and about an Inch long, and half an Inch broad. In *China* these Leaves are of a dark green Colour, and of a bitter Taste; whereas those produced in *Japan*, are of a fainter Green, and more grateful Taste, tinging any Liquor with the same Colour. These Leaves, when dried, become black, and shrivelled up, like small Worms, and the Herb has a fibrous Root, divided into many small Shreds." If any should tell me, that this seems to be a Description of *Betony*, I answer, so it is; and I would rather perswade the *Europeans* to use this Herb, possessed of numberless known Virtues, than to persist in the Use of the unknown *Tea* of the *Chinese*, purchased at a great Expence, and calculated for impoverishing Families. It is indeed certain, that, as the moderate Use of it, without producing a preter-natural Heat, comforts and dries the Brain, and whole nervous System, so the immoderate Use of it, cannot fail to be equally noxious to the *Europeans* as the Abuse of *Wine*. *Tea*, as a Kind of Copse, or small Shrub, may be described in the following Manner: "*Tea* is a small Shrub, greatly resembling the *Myrtle*-Bush, with dark green Leaves, as large as those of the *Pomegranate*, but with small Incisions about the Edges, like those observable in the Leaves of the *Daisy*. These Leaves are carefully collected in the *Spring*, dried in a Shade, or in proper Furnaces, and preserved in pretty large Vessels, close stopped, in order to prevent the free Access of the Air." If any one should find fault with me for describing *Tea*, both as an Herb, and as a Kind of Copse, or small Shrub; I can vindicate myself, by desiring him to compare each of these Descriptions with the different Accounts given by all the before-cited Authors, whose Veracity cannot be called in Question. But, perhaps, it may be objected, that *Bontius* asserts, that *Tea* is an Herb, and describes it as such, and consequently, that I corrupt what I intended to correct, which happened to *Epicurus*, attempting to rectify the Doctrines of *Democritus*: I answer, that *Bontius*, through an Affectation of laconic Brevity, darkened his Description of *Tea*, by comparing its Leaves, which are crenated, to those of the *Daisy*, which have small Incisions: Whereas, he might, with more Justice, have compared them to the Leaves of any Shrub, or Copse: But the Reader will, possibly, condemn me for *Pyrrhonism*, or *Scepticism*, and upbraid me with treating of Things, without coming to any fixed and final Conclusion. But, in answer to this Charge, I affirm, in the Words of *Vossius de Sect. Philosoph. Cap. 20*. "That *Scepticism* is not absolutely to be condemned; since, though many Things are certain, yet far more are uncertain; and these latter combined and interwoven with the former, impose on the Mind by their Similitude to Truth; so that it is necessary to use all Diligence in distinguishing Truth from Error." *Cicero*, in *Lib. 1. de Natur. Deor.* professes himself of the same Opinion: "I am none of those, says he, to whom nothing appears true; but I affirm, that Truth and Falshood are sometimes so intimately mixed, and bear so near a Resemblance to each other, that there is hardly any Criterion for distinguishing them." But, leaving all dubious Ratiocinations, we shall now declare our Sentiments in an explicit Manner, and come to a fixed and determinate Conclusion. For this Purpose, let us compare the Descriptions

which *Dodonæus* gives us of the Herb *Betony*, and of the Shrub *Chamelæagnus*, with those two I have given of the *Chinese Tea*: I am then intirely free from Partiality, when I think that the Properties ascribed to these two, especially to the *Chamelæagnus*, exactly agree to the *Chinese Tea*; nor, considering how far I am advanced in Years, do I care how much I may be ridiculed for maintaining such an Opinion, since I have long ago formed my Mind upon those noble and exalted Sentiments, which *Epictetus*, in *Enchirid. Cap. 29.* expresses in the following beautiful Manner: "If thou inclinest to commence the Study of Wisdom and Virtue, thou must forthwith prepare thyself for future Reproach and Contempt, since many will hiss thee, upbraid thee with becoming a Philosopher all on a sudden, and sneeringly ask the Reason of thy supercilious Air: Do thou, in the mean time, guard against a supercilious Behaviour, as much as thou possibly canst; but, like a faithful Centinel, placed in a particular Post by thy Master, rigidly maintain and adhere to those Things which, to thee, appear best and most praise-worthy; and, for thy Comfort, remember this, that if thou resolutely keepest thy Post, thou wilt, at last, become the Admiration of those who before derided thee: Whereas, if thou shamefully quittest thy Station, and succumbest to the heedless and unthinking Herd, thou wilt be doubly derided." But, as moral Reflections may be thought impertinent on such Occasions, we shall return to our Subject. *Dodonæus*, therefore, in *Pemptad. 1. Lib. 2. Cap. 20.* tells us, "that *Betony* has oblong, broad, and green Leaves, somewhat rough, serrated about the Edges, and resembling those of the Oak, though somewhat smaller." Now, *Tulpius* informs us, that the Leaves of *Tea* are oblong, acuminate and serrated about the Edges: And *Olearius* affirms, that they are about an Inch in Length, and half an Inch in Breadth. *Tulpius* also asserts, that in *China*, they are of a dark green Colour; whereas, in *Japan*, they are of a fainter Colour; so that these Descriptions quadrate very exactly with *Betony*. The *Chamelæagnus* is, by *Dodonæus*, in *Stirp. Histor. Pemptad. 6. Cap. 20.* described in the following Manner: "The *Chamelæagnus* is a small and low Shrub, rarely rising to the Height of a Cubit: It sends forth some Branches, which bear small, broad, and oblong Leaves, not unlike those of the *Myrtle*, but harder, and frequently longer: All the Parts of the Shrub, and especially its Seeds, are somewhat odorous: It delights in wild and uncultivated Soils, which are somewhat marshy and aqueous." The Authors before quoted, have made no Mention, either of the Seeds, or Flowers; nor, though I have had an Opportunity of turning over large Quantities of *Tea*, have I ever found any Part of a Flower, Stem, Apex, Calyx, Down, Seed, Pods of Seed, Berries, or any Thing analogous to any of these, except some few Pieces, of a Kind of arundinacious Grass; from which we may justly infer, that the *Chinese Tea* delights in uncultivated, aqueous, and marshy Soils, as well as the *European Chamelæagnus*; which, as described by *Dodonæus*, exactly resembles the *Tea* of the *Chinese*. The Reasons why I have compared *Tea* to *Betony*, are sufficiently obvious; since my Accounts of the former, taken from *Trigautius*, *Rhodius*, and *Bontius*, exactly agree to the latter; for *Trigautius* affirms, that the Leaves called *Tea*, when gathered from a certain Shrub, and boiled in Water, afford that celebrated Liquor, so much used by the *Chinese*, *Japoneses*, and their neighbouring Nations: And *Rhodius* asserts, that the Leaves of *Tea* are, in a great measure, like those of the *Myrtle*, and, in Bulk, equal to those of the *Pomegranate*. I have, in a particular Manner, mentioned the Crenations of the Leaves, because no such Circumstance is specified, either by *Dodonæus*, in his Description of the *Chamelæagnus*, or by *Trigautius* and *Rhodius*, in their Accounts of the Leaves of *Tea*, which, according to *Olearius*, are about an Inch long, half an Inch broad, and, when dried, assume a blackish Colour, all which Circumstances hold true of the *Chamelæagnus*. *Tulpius* informs us, that the Leaves of *Tea* are of a dark green Colour, oblong, acuminate, and crenated about the Edges; and *Bontius* describes them with small Incisions about the Edges, like those of the *Daisy*: Besides, if the Reader compares what *Dodonæus* advances, with respect to the native Soil of the *Chamelæagnus*, with the Description I have given of it, he will find it probable that it is also produced in *Tartary*; so that we have just Reason to conclude, that the *Cha* of the *Tartars*, and *Thee* of the *Chinese*, are nothing else but the *European Chamelæagnus*. Another Analogy is also to be observed between the Leaves of *Tea*, and those of the *Chamelæagnus*, which is, that only the larger Leaves of each of them are crenated. If it should be objected, that *Dodonæus* inclined to insinuate, that the Leaves of the *Chamelæagnus* are like those of the *Myrtle*; and that the Leaves of the true *Myrtle* are not crenated: I answer, that I am sufficiently apprised of this; but, at the same time, would have the Objector remember, that *Caspar Bauhine* finds some Things wanting in the Figure of the *Chamelæagnus*, exhibited in the *Latin* Edition of *Dodonæus*, and for that Reason, prefers the Figure in the *Dutch* Edition to it. His Description is also very defective, since he neither mentions the Crenation of the Leaves, nor the Sporting of Nature, which are very material Points; since the Leaves are not all crenated in the same Manner, and sometimes not crenated at all, especially at the Points, till they have arrived at a certain Age and Bulk. Similar Sportings of Nature are frequently to be observed; since, in one and the same Mallow, it often happens, that one Leaf is not like another. There is also a surprizing Variety, both in the Form and Number of the Leaves of the *Eupatorium Canadense Foliis Enulæ Jacobi Cornuti* of the

Lysimachia Lutea Major and *Minor*, and of the *Pseudolysimachia*. It is also sufficiently known, that the *Peruvian Flower* in *Europe*, varies every Day considerably from the same Flower in *Peru*; but we are not, for this Reason, to deny that they both belong to the same Species. Thus, though in *Europe*, there is a Kind of Sporting of Nature in the Leaves of the *Chamelæagnus*; yet all these Leaves, when most accurately compared with the *Tartarian* or *Chinese Tea*, are only found to differ inconsiderably from them in Size, Colour, and Crenations: So that we may conclude, that the Shrub *Chamelæagnus* belongs to the same Species with the *Tea* of the *Tartars* and *Chinese*: But, lest my own Authority should be questioned, I shall, from that of other Botanists, prove this surprizing Variation in our own *Chamelæagnus*. I am indeed sorry that the *Chamelæagnus* is not sufficiently and fully treated of, either in the last Edition of *Tabernemontanus*, or in the *Ebrodunense Herbarium*. But we must supply this Defect from *Bauhine*, who, in *Pinax*. 40. Lib. 11. Sect. 4. tells us, "That the *Rhus Myrtifolia Belgica*, or *Chamelæagnus*, has its Leaves sometimes broad, and sometimes narrow; and I have been told by Dr. *Backmaster*, that its Leaves are sometimes crenated like those of a Shrub; such as the *Rosemary* of the *Northern Nations*, or our own *Myrtle*." In 1622, when walking in a Copsy Field, near *Rostock*, I broke off a small Twig of this *Chamelæagnus* in the *Spring*, before it was in the Flower. This I carefully preserved till it was fully dry, and found the Leaves exactly to resemble those of the *Chinese Tea*, in Tenderness, Size, Colour, and Crenations. But that this Affinity and Resemblance might be still farther evinced, I have, in *Quadripartit. Botan.* given a Cut of one of the tender Leaves of the *Chamelæagnus*, gathered in the *Spring*, and another of a full grown Leaf, gathered in the *Summer*; and to these I have added two Cuts of *Tea* Leaves, produced in *China*: But, some may object, that the *Chinese Tea* differs from the *Chamelæagnus*, because, according to *Rhodius*, the Leaves of the former appear in the Beginning of the *Spring* at *Nanquin* and *Chim*; and, when dried, are so far from resembling Leaves, that they rather seem to be small Buds or Gems of Shrubs, or Trees: Whereas, the Branches of our *Chamelæagnus* are not cut, till the Middle, or latter End of the *Summer*, and are negligently hung up in the Shops, with the Leaves, Seeds, and Flowers. These Circumstances, I confess, must produce a considerable Difference in these Leaves, not only with respect to Colour and Smell, but also, perhaps, with respect to Qualities and Virtues. If I should be asked, whether it is expedient to recommend the *Chamelæagnus* as a Succedaneum, to the *Chinese Tea*? I answer, it is highly expedient. If it should be said, that it affects the Head; I reply, so does *Betony*, which procures a certain Hilarity, or Agility, to the Brain and Members, by which Means, it greatly invigorates the Animal Faculty: For this specific Quality of *Tea*, it is so much used by Statesmen, in order to render them brisk and active, for the Discharge of their Offices: For this Class of Men, as well as Physicians, are allowed Angular and uncommon Indulgences by *Plato*, in *Lib. 3. de Republica*. "The Gods, says he, can obtain no good End by lying to Mortals; but, a Lie may be useful to sick Persons; for which Reason Lying is pardonable in Physicians, immediately employed in their Business, but not at all in Persons of a private Character. In Governors also, Lying is pardonable, when it has a Tendency, either to promote the Good of their Subjects, or frustrate the Designs of their Enemies." Some affirm, that Ale, prepared with the *Chamelæagnus*, excites violent Head-achs, from which they infer, that its Sulphur is injurious to the Head: But I would have such Persons remember, that the best Things may be used to Excess. Thus a Pain is immediately produced in the Head, by the Abuse of the Wine of the *Rubus Idæus*, or that in which the *Pimpinella Sanguisorba* has been macerated. Hence, if you mix but a small Quantity of the *Chamelæagnus*, full of its Seeds, with Ale, such Ale will speedily intoxicate those who drink it; but if you put only a few of the Leaves to the Ale, it will revive the Spirits as effectually as the *Asiatic Tea*. At the *Hague*, *Sinapi* is called *Senney*, and in the *Netherlands*, *Mustard*; but this Change of Names does not hinder *Sinapi* from being an Herb of the same Species in these different Parts. In *Europe* we are to have a due Regard to the most commodious Time of gathering the Leaves of the *Chamelæagnus*, which, in *Asia*, is the *Spring*, and after they are gathered, we are carefully to keep them in large, close-stopped Vessels. Besides, we are to consider, that the Climates of *Asia* and *Europe* differ very widely; though I have shewn, that from the same Elevation of the Pole, some *Northern* Countries have a Climate, not much unlike to that of the *Tartars*. But some may say, granting that the *Chamelæagnus*, or *Myrtus Nostras Sylvestris*, is really the *Cha* of the *Tartars*, and the *The* of the *Chinese* and *Persians*; yet it never arrives at such Perfection in any Part of *Europe*, as in *Tartary* or *China*: This, perhaps, I may grant, with respect to *China*, but not with respect to *Tartary*, for the Reasons before specified, and on account of the Climate, which, it is to be suspected, produces *Tea* of little or no Value; for it is not so much as mentioned in the following Account of the *Tartars*, and their Herbs, given by *Antonius Maginus*, in *Comment. Nov. Geograph.* "The *Tartars* live in a most sordid, nasty Manner; since only a very few of them use Table-Cloths and Napkins at their Meals: They drink Water, Milk, and Ale prepared of Millet. Very little Wine is produced in their Country; and with that which is imported they intoxicate themselves, which is with them considered as an honourable and glorious Thing.

They commend the Juice or Milk of Sorrel, because it corroborates the Stomach, and proves purgative at the same Time. They chearfully eat various Herbs, especially such as grow near the *Tanais*, among which they greatly extol an Herb called *Baltracan*, which greatly nourishes them, and restores their Strength. At the Season, therefore, when this Herb bears Fruit, the *Tartars* freely wander through these Desarts, in which no other Kind of Food or Aliment is to be found; for, if they can provide nothing else, this Herb, which they frequently find, and carry home on Carts and Horses, proves sufficient for their Sustenance." But I shall proceed to contemplate our *Chamelæagnus*, with greater Accuracy. It is, therefore, certain, that *Iceland*, a cold and harsh Climate, produces the best *Angelica* in all *Europe*; and *Norway*, which is somewhat milder, though intolerably cold in the *Winter*, yet affords those large Quantities of *Gentian*, and other medicinal Herbs, which the Traders in *Germany* and *Holland* have annual Occasion for. It is therefore probable, that our *Chamelæagnus* may also be possessed of very singular medicinal Virtues; and, that it is so, we shall afterwards fully demonstrate. If it should be objected, that the *Chinese* and *Tartarian Teas* have become famous, but not the *European Chamelæagnus*; I answer, that the Objection has no Foundation in Reason; because the Qualities and Temperaments of Medicines are not altered by the Time at which they began to be in Repute: Thus the *Angelica* of *Iceland*, and the *Norwegian Gentian* are celebrated in *Europe*; and tho' it is not to be doubted, but *Tartary*, and other Countries, lying under the same Elevation of the Pole, produce *Angelica* and *Gentian* equally good, yet these Medicines are not there celebrated, because the Inhabitants have not ventured upon the Use of them. Thus, the perfumed Gloves sent us from *Greece*, are more esteemed than those smelling of *Amber*, *Musk*, *Stacte*, and *Cassia*, sent us from *Italy*, and *Spain*, only because they were famed before these latter Countries began to use such a Practice; such, and so great, is the Tyranny of Opinion, and the Force of Custom! It is, therefore, merely an ill-grounded Opinion, to believe that our *Chamelæagnus* is inferior in Virtues to the *Chinese* or *Tartarian Tea*; or that it is to be neglected, and not introduced into the Shops. Nor is it reasonable to infer, that it is not the *Chinese Tea*, because it has never been prepared in their Manner; or that it ought not to be substituted in its stead, because it has hitherto been little known, and only used by a few instead of Hops. Tho' I am always willing to yield to superior and more powerful Reasons, yet I cannot help thinking, that our *Chamelæagnus* may be very commodiously substituted to the *Chinese Tea*. Thus the *Scordium* of *Crete* is generally thought the best of all others, for no other Reason, but that it grows there. The *Germans* and *Danes*, however, ceased to import it from *Crete* and *Venice*, after they discovered the true *Scordium*, and found large Quantities of it produced in *Lapland*, which also yielded great Plenty, not inferior to that of *Asia*; so that we despise the *Asiatic*, in comparison of our own. Thus, also, when we found from Experience, that the Qualities of our common *Wormwood*, were not inferior to those of the *Wormwood* brought from *Pontus* and *Rome*, we ceased to bring it from these Places, and wisely used our own. *Hoffman*, in *Lib. 2. de Med. Offic.* §. 5. tells us, "That these *European* Mountains which are most exposed to a free Air, produce the wild or common *Wormwood*; whereas, those of the *Pontic* and *Roman* Kinds, are only to be found in Gardens." But how opposite is our Conduct with respect to *Tea*, which, at great Expence and Trouble, we bring from *Asia*, when large Quantities of it are produced in *Europe*? It is certainly unaccountable, and an unpardonable Folly, for a Man, who is rich at Home, to go Abroad and beg: Now, we are equally foolish, for despising that Plenty we have at Home, and purchasing, at a great Price, the *Chinese Tea*, when its Virtues are almost destroyed, as I shall afterwards demonstrate. Some Persons may, perhaps, reject my Sentiments, unless they found an exact Agreement between the Decoctions of *Chinese* and *Tartarian Tea*, and the *Chamelæagnus*, in Colour, Taste, Smell, and other Qualities; and I doubt not in the least, but they would find this Agreement, provided our *Chamelæagnus* was gathered at a proper Season, treated in the same Manner with the *Chinese Tea*, and prepared in the Method used by them. I would have tried Experiments of this Kind, had not I wrote this Treatise in the *Winter* Season; but I thought a Delay of its Publication might be attended with bad Consequences; since all *Europe* has large Sums of Money annually drained from it by the *Asiatic Tea*, I therefore obtest, not only all Physicians, but also others, fairly to examine, whether my Sentiments and Reasonings on this Particular are true, or only probable; for most Truths, according to *Cicero*, have the Disadvantage to be blended with Falshood and Error. But some Persons may say I advance many Things without establishing any. I own it is so; for I am like the Images of *Mercury* set up by the Highways of the Antients, which pointed out the Road to others, without ever entering it themselves. Perhaps practical Physicians may blame me for making the *Chamelæagnus* a Succedaneum for the *Chinese Tea*; since it is sufficiently known that the former greatly affects the Head. I own, indeed, I am subject to Error and Mistake, as well as other Mortals: But I would have these Physicians consider, that *Trigautius* and *Rhodius* affirm, that the Leaves of *Tea* resemble those of the *Myrtle*. Now, the Leaves of the *Chamelæagnus*, when arrived at their full Growth in the *Summer*, are so like those of the *Myrtle*, except that these last are crenated at the Points, that the one cannot be distinguished from the other. They

also produce an Effect similar to those of the *Myrtle*; we must therefore compare the *Chinese Tea*, the true *Myrtle*, and the *Chamelæagnus*, with one another, in order, from this Comparison, to ascertain and determine the Virtues and Faculties of the Leaves of each of them. The Virtues and Faculties, then, of *Tea*, according to *Tulpius*, are these following: "It renders the Body vigorous, and removes nephritic Pains, to which none of the *Chinese* are, for this very Reason, obnoxious. It carries off Pains and Stuffings of the Head, Inflammations of the Eyes, Defluxions, Difficulty of Breathing, Weakness of the Stomach, Gripings of the Intestines, and Weariness: It also prevents Sleep, heats moderately, and by constricting the Mouth of the Stomach, hinders the Vapours from ascending to the Head. This Liquor, when drank warm, *Trigautius* thinks highly salutary in a great many Cases." Though I do not deny these Things, yet, when the *Chinese* assert, that nothing is more conducive to the protracting of Life to an extreme old Age than *Tea*, they run into an Hyperbole, no less glaring and ostentatious than that of *Cicero*, when describing his own Return, in *L. Calphurn. Pis.* "*Rome* herself, says he, seemed to move from her Foundation, in order to contemplate her returning Guardian and Preserver, whom she received with such unbounded and universal Joy, that even the Walls and Temples of the City seemed to rejoice." This Happiness of the *Chinese*, is intirely owing to other Causes; for their Air is clement, and their Regimen so temperate, as, almost, to come up to that of the *Pythagoreans*; though the *Tartars* cannot boast either of such a Climate, or such Moderation. But, with the *Europeans*, a fuller and more copious Diet is used, which is therefore productive of more Diseases: Hence, the incomparable *Bartholine*, in *Consil. Med. de Cometa.* gives the *Europeans* a most salutary Advice, by recommending a spare and slender Diet, and condemning a full and copious Regimen: "Moderate eating of Flesh, says he, is to be enjoined; since Excess, in this Respect, is the Origin of violent Putrefaction, and various Disorders. Thus *Diogenes apud Porphy.* in *Lib. I. de Abstinen.* used to say, that those who eat much were generally Thieves, and Soldiers; and such as eat Flesh were Sycophants and Tale-Bearers. Hence the *Quadragesimal Fast*, in *Concil. Laodicen. Canon. 50.* is ordered to be kept with Bread, Salt, and Water, as *Christoph. Justellus* explains the Word *Ξηροφαγία* from *Epiphanius*:" Hence the eating little Flesh, but somewhat more Broth, is conducive to the Preservation of Health: So that the slender, spare Diet of the *Asiatics* protracts their Lives to extreme old Age; whereas, the full and luxurious Regimen of the *Europeans*, cuts them off, before the natural Period of their Life is expired: So happy a Tendency have a clement Air, and a proper Regimen, if not to protract Life, yet, at least, to preserve Health, and prevent Diseases. Not only *Tea*, which we have from the *East*, but also *Chocolate*, which is imported from the *West Indies*, begins to be famous: With respect to this latter Commodity, the Reader may consult *Antonius Colmerus de Ledesma*, whose Work is translated from *Spanish* into *Latin*, by *Marcus Aurelius Severinus*. But I proceed in the History of *Tea*, which is possessed of admirable Qualities; since, according to *Rhodius*, "It relieves the Head, prevents Vapours, and is a Specific against the *Hemicrania*; since, when he was afflicted with this, or any other Disorder of the Head, he was, by drinking *Tea*, immediately relieved. It also prevents Sleep, corroborates the Stomach, purges the Kidnies from Stones and Gravel; and, according to *Varenius*, is of singular Efficacy in removing the Uneasiness arising from previous Surfeits, and all pituitous Disorders." *Olearius* also affirms, that it is possessed of constrictive and astringent Quality, and is highly salutary to the Stomach, Lungs, Liver, Blood, and all the human *Viscera*, which it deterges and corroborates; that it expels the Stone, removes Head-achs, and dries up all superfluous and redundant Humours, which occasion Laziness and Drowsiness. *Johannes Albertus von Mandelslo* informs us, that the Water impregnated with *Tea*, is not only much admired by the *Indians*, but also highly esteemed by the *Dutch*, who frequently use it for evacuating Phlegm, corroborating the Stomach, heating and strengthening all the *Viscera*; and that he was convinced, that by drinking three Times a-day, large Quantities of *Tea*, which is of an astringent Quality, he was freed from a violent Uneasiness and *Diarrhæa* at *Surat*. *Gulielmus Leyl* asserts, that it corroborates the Stomach, and assists its concoctive Powers, heats the Members, and removes all excrementitious Humours, which it expels by Urine, or in some other Manner; that it removes the Gravel and Gout, as he experienced in himself, when Governor of the Camp of *Daniburg*, in the Island of *Cormandel*, in the *East Indies*; that he was racked with the Gout upon his Return into *Europe*; that *Tea* removes Intoxication, renders Men active in transacting Business, and prevents Sleep. Though I do not in the least doubt of the Truth of these Assertions, yet I shall prove, that the true *Myrtle*, is possessed of the same, and other excellent Qualities; since it not only seems to be, but really is, a Species of *Tea*. If, therefore, the Leaves of the *Danish* and *German Myrtle*, called *Chamelæagnus*, vary much among themselves, and greatly resemble *Tea*, may we not conclude, that the Leaves of *Tea*, the *Myrtle*, and the *Chamelæagnus*, also agree in Virtues and Qualities. This is what I now intend to evince. *Hippocrates*, therefore, in order to shew the Efficacy of the *Myrtle* in curing and removing Diseases, in *Lib. de Superfætat, Sect. 3.* tells us, that when the Mouth of the *Uterus* is præternaturally constricted, it is opened by a Suffumigation, for which Purpose, among other Things, he orders green *Myrtle*

Leaves contused. He prescribes them green, and not dry, because the former most abound with Sulphur and volatile Parts; whereas the latter contain little of these; but, on account of their terrestrial, and somewhat hot Parts, are violently drying; for which Crasis and Diversity of Parts, as *Myrtle* is but gently, or hardly, hot at all, *Galen* calls it cold. This Effect, therefore, mentioned by *Hippocrates*, evinces, that *Myrtle* consists of very subtle Parts, and is of a highly drying Quality. I am surprized, that the Writers of the *Chinese History*, have not determined, whether *Tea* was beneficial for both Sexes. The same *Hippocrates*, in *Lib. 1. de Morb. Mulieb. Sect. 5. Ver. 6.* among other Things proper for expelling a corrupted *Fætus*, prescribes *Myrtle-Berries*, *Sweet Flag*, and *Lentiles*, boiled in Wine, and, a little after, he recommends *Pessary* of the Leaves of *Myrtle* for the same Purpose: And in *Lib. de Natur. Muliebr. Sect. 5.* he orders the Fruit of the *Black Myrtle* macerated in Water, and mixed up with fine Flower, to be exhibited as a Medicine for rendering the Body soluble, and opening the *Uterus*. *Galen* also, in *Lib. 7. Med. Simpl.* informs us, "That *Myrtle* consists of contrary and heterogeneous Substances, that a cold and terrestrial Principle, however, predominates in it, notwithstanding which, it has a certain subtile Heat, in consequence of which, it is of an highly drying Nature: That the Leaves, the Buds, the Fruit, and the Juice, have different Degrees of Astringency; that the dried Leaves are more exsiccant than such as are green; and that all Parts of the Plant are of an astringent Quality, whether used internally or externally." The same Author, in *Lib. 2. de Aliment. Facultat. Cap. 18.* affirms, that, like the Fruit of the *Juniper*, it nourishes little, though it is possessed of a contrary Quality: "For, says he, it is highly astringent; and, for that Reason, stops Fluxes; but its Coldness does not bear a Proportion to the Degree of its Astringency." (Circumstances which ought to be carefully adverted to in investigating the Virtues of *Tea*, the *Myrtle*, and the *Chamelæagnus*) "because it is not only astringent, but also possessed of a certain Acrimony. Besides, it is peculiar to all Aliments, possessed of a strong medicinal Quality, to lose that Quality," (which Words I would have the Reader carefully observe) "by boiling, roasting, or Maceration; after which they afford but little Nourishment, and before none at all: This holds true in Onions and Leeks." *Diascorides*, in *Lib. 1. Cap. 156*, tells us, "That the *Myrtle* and its Seeds are of an astringent Quality; and, that the Juice expressed from the green Berries, produces the same Effects, is beneficial to the Stomach, creates a Discharge of Urine, and cures the Bites of venomous Spiders and Scorpions, if drank in Wine." He also informs us, that there are two Kinds of *Myrtles*, in like Manner as there are two Kinds of *Tea*, sent into *Europe*, by the *Chinese*. *Athenæus*, in *Deipnosophist. Lib. 15.* tells us, "That such of the *Greeks* as were afflicted with Head-achs by drinking too much Wine at their Feasts, stood in need of a Remedy for their Disorder, which, by a certain Instinct of Nature, they knew to be most expeditiously removed by Bundles of Flowers, and especially by Garlands wore on the Head; for, according to *Andreas*, when any one was seized with an Head-ach, his Pain was forthwith alleviated by tying it tight up:" (This may be accounted for from *Harvey's* late Discovery of the *Circulation of the Blood*) "For this Reason they swathed the Heads of those who had drank to Excess, with a Crown wove of an hederaceous Plant, which is plentifully produced without any Culture, which is sufficiently beautiful, and throws a grateful Shade over Forehead and Eyes. For this Reason such Crowns seem to have been dedicated to *Bacchus*, who both invented Wine, and was supposed to remove the Disorders produced by it: But, in process of Time, Mankind became so voluptuous, that they were not content to have the Effects of Drunkenness removed by this Disorder; but also sought to gratify their Smell and Eyes. Then they began to use a Crown of *Myrtle*, which is astringent, and dispels the Exhalations of Wine, or a Garland of *Roses*, which, in some measure, alleviates the Pain of the Head, and cools those who are overheated by excessive Drinking: But over their Cups, they never used the *Laurel*, which is heating, and of a disagreeable Smell: They also rejected *Violets*, which by their Smell offend the Head, and every other Thing, which could either create Uneasiness, or produce Obstructions." And afterwards, he declares himself of *Philonis's* Opinion, in the following Words: "But I am intirely of the Sentiments of *Philonis*, who affirmed, that a Crown of *Myrtle* dispelled the Vapours of Wine, and a Garland of *Roses* refrigerated and alleviated the Pain of the Head." *Bodæus*, a *Stapelen*. in *Comment. Lib. 4. Hist. Plant. Theophr.* informs us, from *Clemens Alexandrinus*, "that the *Myrtle* was efficacious for exciting Laughter, which is represented as the Concomitant of *Venus*:" And he adds, that *Myrtle* was supposed to be so grateful to this Goddess, that all who celebrated her Festivals, were adorned with Crowns of it. The same Author, from *Athenæus* informs us, that the *Lesbians* crowned themselves with Wreaths of *Myrtle* Twigs, which they called *Hypothymidæ*; because, as he tells us, they refreshed and revived the Brain by their grateful Fragrance. Those who desire to know more concerning the Virtues of the *Myrtle*, may consult the *Histor. Plantar. Universal. Ebrodunens. Herbarior. Lib. 5. Cap. 1.* where, what we have advanced, is farther confirmed, or similar Qualities of the *Myrtle* ascertained. But we proceed to enquire into the Virtues and Qualities of the *Myrtus Brabantica*, or *Chamelæagnus*. Though a great deal is not said of this Plant, which *Bauhine* calls the *Rhus Myrtifolia Belgica*, either by the antient or modern Botanists; yet that it is possessed of

singular Virtues, is evinced from this, that *Pliny*, in *Lib. 24. Cap. 11.* informs us, that the Herb called *Rhus*, which, according to *Clusius* and *Dodonæus*, is our *Chamelæagnus*, expels Poison, and cures scalled Heads; a signal Proof, that whether green, or dry, it abounds with a singular volatile Salt and Sulphur; which is also farther confirmed, partly by its acrid, tho' not ungrateful Smell, and partly by the Effects it produces. This is sufficiently confirmed by the Authority of *Dodonæus*, who speaks of its Qualities and Virtues in the following Manner: "Its Seeds, says he, are intensely hot and dry, almost in the third Degree: Its Leaves are also hot and dry, though in a much smaller Degree: Its Fruit, which is prejudicial to the Brain, when used in preparing Ale, which is customary with many, renders the Ale highly offensive to the Head, and soon productive of Intoxication or Drunkenness. The whole Shrub, and its Fruit, when dried, and laid among Clothes, preserve them from Moths and Worms." It also banishes Dormice, as I have observed in my *Quadripartit. Botan.* Besides, a certain Person of great Distinction in *Holstein*, and a Man of the strictest Veracity, informs me, that the *Polanders* use our *Chamelæagnus* for killing the Lice of their Hogs; for, if this Plant is strewed under them in their Styes, the Lice which infest them will be destroyed in a few Hours; nor will their Nits ever become alive. Besides, Serpents are never found to have their Holes in those Forests, which produce the *Chamelæagnus*, nor are they ever observed to come near it, much less to creep through it, as I have been informed by Forest-Keepers of great Veracity. It is not, therefore, to be denied, but the *Chamelæagnus* is an Herb of singular and excellent Virtues, since it produces these, and a great many other uncommon Effects. *Dalechampius*, Author of the *Herbarum Lugdunense*, in *Cap. 1.* gives us the following Account of it: "The *Rhus Sylvestris Dodonæi*, and the *Rhus Plinii* seems to be another Plant, which is by some called the *Myrtus*, by others the *Pseudomyrsine*, and the *Myrtus Brabantica*. It is a low, woody, hard Plant, with many Branches, which bear pretty long Leaves, not unlike those of the *Box-Tree*. Between the Branches rise many Twigs, bearing, as it were, a great Number of Ears, which are, at first, loaded with many small Flowers, and afterwards with a Congeries of many angular Seeds, full of a certain pingueous Humour, of the same bitter Taste with the Leaves, Flowers, and Fruit, but of a pleasant grateful Smell. The Inhabitants of *Roan* in *Normandy*, whose dark and gloomy Forests produce great Quantities of it, call it *Piment Royale*, as it were *Melyssophyllum Regium*. The Country People in *Summer* gather the Branches loaded with the Leaves and Seeds, tie them up in small Bundles, for no other Purpose, but to give Clothes an agreeable Scent, and hinder them from being corroded by Worms and Moths. Its highly bitter Taste evinces that it is remarkably drying and discutient, and that it is in a peculiar Manner adapted to kill and expel Worms, whether exhibited internally, or applied externally: It flowers in the Months of *May* and *June*, and bears Fruit in *July* and *August*." An anonymous Author, who makes some Additions to *Dodonæus*, speaks of it in the following Manner: "The *Gagel* has, in *English*, the Appellation of Gold from the Gold-coloured Flowers, or the clammy sulphureous Matter lodged between the Seeds and their Husks. *Gagel* is, by some, esteemed a good Remedy, in all Cases, wherein the true *Myrtus* is used; but this Opinion is false: The Flowers and the clammy sulphureous Substance lodged between the Seeds, and their Husks, are, by some, accounted good in Consumptions and all other Disorders of the Breast. These are also used in making Gold; others use the whole Plant as an Antidote against Poison. Some put *Gagel* into Beer instead of Hops; whilst others put it into Must, affirming, that it gives the Wine an agreeable Flavour, without injuring the Brain." These last Words excellently describe those Virtues of the *Chamelæagnus*, in which it agrees with the *Chinese Tea*, especially as the Author had before informed us, that, in consequence of its abounding with a viscid, yellowish Dew, or roscid Sulphur, it was of a drying Quality, and that it has hitherto been despised, as an Herb possessed of no other Virtues, than that of intoxicating, when Ale is prepared with it; and certainly, this Effect is to be ascribed to no other Cause, than the large Quantity of Sulphur contained in the *Chamelæagnus*: But I am sensible, that I am entering upon chymical Principles, which I have fully explained in another Work, when treating of malignant Fevers, and especially the Nature, Genius, and Effects of volatile Salts and Sulphurs. Now, as no one has hitherto contradicted any of my Opinions, I hope this seeming Paradox, with respect to *Tea*, will meet with the like favourable Reception; for, from the Comparison instituted between the *Chinese Tea*, and the true *Myrtle*, it is evident, that they agree, not only in Form, but also in Virtues and Faculties: And as, not only *Tea*, but also the *Chamelæagnus*, is like the true *Myrtle*, and may be used as a Succedaneum to it, we cannot doubt, but the *Chamelæagnus* is the genuine *Cha* of the *Tartars*, or *Thee* of the *Chinese*; and as I have sufficiently demonstrated this, I hope the *Europeans* will not, for the future, be so foolish, as to despise the *Tea* produced in their own Climate, in comparison of that which is brought from *China*: Besides, that *Tea* is nothing else but our *Chamelæagnus*, may be proved by the following Syllogism.

Whatever Things agree in Form and Virtues, are of the same Species:

The *Cha* of the *Tartars*, the *Thee* of the *Chinese*, and our *Chamelæagnus*, agree in Form and Virtues:

Therefore, they are all of the same Species and Kind.

But Physicians may object, that I am still bewildered, and at a Loss; since the *Chinese Tea*, and our *Chamelæagnus*, produce different Effects: For, as all the Effects which the *Chinese* or *Indians* ascribe to their *Tea*, seem to arise from the Diversity of its Parts, some of which are moderately warm, others excessively dry, some gross, and some subtle: Hence, both *Tea* and the true *Myrtle*, prevent Intoxication; nay, an Infusion of *Tea* surprisingly keeps those who drink it in *China*, from sleeping for some Nights. It may, therefore, be objected to me, that the *Chamelæagnus* is so far from preventing or removing Drunkenness, that it forthwith intoxicates the Person who drinks the Ale in which it has been boiled; but these Effects are as diametrically opposite to each other, as those others are of the *Chinese Tea* removing an *Hemicrania*, and Head-achs, and the *European Chamelæagnus* exciting them: I answer, all this is true; but, at the same time, it is to be remembered, that *Galen* every where demonstrates, of how great Efficacy, the Diversity of Parts, in a compound Body, is; a memorable Example of which he has given, in *Acorns* arrived at perfect Maturity, in *Tr. de Composit. Medicament. Loc. 1. Lib. 6.* I shall not affirm, that this Diversity of Parts alone, is sufficient to account for all the Effects produced by *Tea*, and the *Chamelæagnus*: But I am of Opinion, that both considered, with respect to their whole Substance, and the Mixture of Parts peculiar to each, act not so much by their weak Heat, as by their excellent drying Virtues; so that they produce their respective Effects only by their primary or secondary Qualities. But I can easily prove, whence this Disagreement of Qualities derives its Origin. We are, therefore, to consider, that the *Chamelæagnus* abounds with a Salt, and a glutinous Sulphur, of which, according to *Dodonæus*, the Seeds and Fruit cannot be destitute: But, I deny that this Sulphur is, in the least, offensive to the Brain and Nerves; and affirm, that like the Wreaths of *Myrtles*, wore by the *Lesbians*, it, by its Fragrance, comforts and revives the Brain; for, if it was otherwise, I do not see how Ministers and Ambassadors to the Courts of *China*, should often, by the Use of *Tea*, be enabled to attend Business for whole Nights, without sleeping: This Account, however, must either be confirmed, or refuted, by Experience. *Diogenes Laertius* informs us, that *Democritus*, when nothing else could be of any Service to him, protracted his Life three Days longer, only by the refreshing Smell of Bread, newly taken from an Oven. Thus, also, the moderate Use of Wine revives, corroborates, and, by its Sulphur, dries the Nerves; which is sufficiently known by Dancers, who frequently bath their Feet in Wine, in order to strengthen them; and by Musicians, who take the same Measures with their Hands: And if other Persons would frequently bathe their Feet and Hands with Wine, impregnated either with *Rosemary*, *Sage*, or *Betony*, it is incredible, how much it would contribute to their Health. Besides, it may happen, that, by this Means, malignant Disorders may be prevented. This Redundance, therefore, of a volatile Sulphur in the *Chamelæagnus*, which palpably affects the Smell of those who walk in Copsy Ground, disturbs the Brain, intoxicates, and produces Head-achs. Thus, in Wine-Vaults, a Person is intoxicated by drinking, sooner than elsewhere, because the Wine, though contained in close Casks, sends forth sulphureous Exhalations, which escape the Sight. It is certain, that the *Tartars* import their *Cha*, or *Chamelæagnus*, into *China*; but, it is not, to me, probable, that they prepare it in the same Manner with the *Chinese*: For, if we consider the Customs and Regimen of the *Tartars*, we find them intolerably addicted to Drunkenness; notwithstanding which, they are very robust and hardy: Hence, if they eat Herbs crude, and also boiled, as they do their *Baltracan*, it is probable, they toast their *Cha*, or dry it, and use it, whether after a *Crapula*, or not, and whether they are afflicted with a Pain of the Head, or not; provided they are intoxicated with it, as the Country People of *Europe* are with the *Chamelæagnus* In order to correct this intoxicating Quality of the *Chamelæagnus*, the *Chinese* gather the Leaves in the *Spring*, and not in the *Summer*: Now, it is sufficiently certain, from chemical Observations, that the sulphureous Parts of Herbs are easily exhaled. This was well enough known to *Galen*, since, in *Lib. de Aliment. Facultat. Cap. 18.* he tells us, that the drastic Qualities of Substances, that is, their saline, sulphureous, and volatile Parts, are corrected, or drawn out by boiling, roasting, or Maceration. Hence, the *Chinese* toast, or carefully dry their *Tea*, in a Stove; after which, they macerate it for a Quarter of an Hour in warm Water, but do not boil it, lest, by that Means, it should be deprived of all its Virtues: Thus, it is sufficiently known, that *Rhubarb* is deprived of its purgative Qualities by toasting it, and *Alexandrian Senna* by being boiled, and strongly expressed. If, therefore, as I before hinted, the *Europeans* would imitate the *Chinese*, they would only use those Leaves of the *Chamelæagnus*, which are gathered in the *Spring*; but not the Shrub itself, nor the Flowers, nor Seeds, boiled in Ale instead of Hops; for the Leaves ought only to be macerated: Nor is it probable, that the *Chamelæagnus* would intoxicate so soon, if it was intirely deprived of its Seeds; for this Effect is produced by the Sulphur which abounds in other Herbs and

Shrubs, as well as the *Chamelæagnus*, and is sometimes more, and sometimes less volatile, or fixed: Thus, the Scent of the Heart of the *Moschatella* is intirely lost, by being frequently smelled. The *Geranium Moschatum* also, has this peculiar to itself, that when it appears half withered, it emits no Smell; but sends forth a strong one when gently rubbed between the Hands; for if it should be bruised, the Labour would be lost. *Rue* also contains so volatile a Sulphur, that, when it is dry, it has almost no Colour, whilst its Seeds are oleous and sulphureous. *Wormwood* holds a Kind of Medium, consisting of one highly volatile Principle, which greatly affects the Head; for which Reason some would have it washed in warm Water before it is used for the Preparation of the *Vinum Absinthites*, and another of a more fixed Nature; as also a volatile and fixed Salt: Thus, also, *Garlick*, *Mother of Thyme*, and especially the *Laurel*, abound in Sulphur, as well as the *Chamelæagnus*, in which, indeed, it is more slowly and difficultly consumed, than in the others. When, in order to investigate the Virtues and Faculties of the *Chamelæagnus*, I kindled some Part of it, together with the Seeds; it did not burn suddenly, like the *Juniper*, but slowly, like the *Beech*, with certain Noises, or Kinds of Explosions, intermixed. The Smoak, which filled the whole Laboratory, was of an acrid Smell, highly resembling that of the kindled Twigs of the *Beech*: Hence, we infer, that the *Chamelæagnus* contains a large Quantity of Sulphur and volatile Salt. From these Reasonings and Experiments, I think it is sufficiently obvious, that it is, upon account of the grateful and duly corrected Sulphur of the *Chinese Chamelæagnus*, that the Brain is so much refreshed, and that Persons who use it in *China*, can, without any Loss, sit up whole Nights in transacting Business; a memorable Instance of this we have in *Alexander Rhodius*, who always had Disorders of his Head removed by drinking it: Whereas, the *European Chamelæagnus*, especially that which is full grown, and abounds with Seeds and Flowers, when boiled in Ale, intoxicates those who drink such Ale, procures Sleep, and excites Head-achs. These Circumstances, when impartially weighed, will vindicate me from Partiality, when I despise the costly *Chinese Chamelæagnus*, and, in its stead, substitute our own, a Shrub of uncommon and excellent Qualities against Poison, and the Bites of Serpents: Since, according to *Pliny*, these noxious Animals cannot endure the Smell of it. These Virtues of the *Chamelæagnus*, we can teach the *Asiatics*, but can hardly believe that, by Virtue of their *Tea*, Persons may sit up all Night, without sustaining any Loss.

Every one is convinced that two Kinds of *Tea* are sold in the Shops, one of a blackish Colour, and the other of a faint Green; the one pretty much, and the other far less crenated: This Variation of the *Chinese Tea*, I can sufficiently account for; since *Tulpius* tells us, that the Leaves of the *Chinese Tea* are of a dark green Colour; whereas those produced in *Japan* are of a fainter Colour, and more grateful Taste; for which Reason, one Pound of the latter is, in the *Indies*, frequently sold for an Hundred *Libræ* of Silver, or, according to *Trigautius*, only for ten or twelve *Nobles*. Notwithstanding this, the Shopkeepers of *Amsterdam* and *Hamburg* sell a Pound of this Commodity for eight *Nobles*, as I have often before observed.

I cannot, on this Occasion, forbear recommending the Conduct of *Oluis Wormius*, who, in his *Musæum*, *Lib. 2. Cap. 14.* informs us, that he macerated a certain Quantity of both Kinds of *Tea*, in warm Water, and found the Leaves of the one, when spread, of a dark green Colour, crenated like *Rose-Tree* Leaves, oblong, and about an Inch in Length. Mr. *Harford*, the King's Apothecary, made me a Present of two large Boxes full of *Tea*, of different Colours: In the one Box, which contained the green, I found neither Stalks, nor Flowers, nor Seeds of the Plant, but only the Leaves; but, in turning over the *Bohea Tea*, contained in the other Box, I found three Stalks, so nearly resembling those of the *Myrtle*, that, not only Mr. *Harford* and I, but also some others, thought that they might be justly accounted the Stalks of the *Myrtle*: This, in so dubious a Case, is a pretty strong Argument, that *Bohea Tea* is adulterated with *Myrtle*, which may, very properly, be substituted, in its stead, or rather exactly agrees with it. This blacker Species of *Tea*, or *Myrtle*, is far cheaper among the *Indians* than the green Kind. The celebrated *Olaus Wormius*, on account of the vast Diversity in the Leaves of *Tea*, suspects that the Leaves of some other Plant are often sold in their Stead. This also, as I before observed, often happens with respect to *Tobacco*. That I might not, however, be charged with Rashness, or falsly accusing the *Asiatics* of Fraud, I thought it incumbent upon me, attentively to view the *Chinese Tea*; for which Purpose, I ordered Mr. *Harford's* two Apprentices, to pick out some of the largest, and most perfect *Tea* Leaves, to be macerated in warm Water, and then spread and unfolded: Accordingly they shewed me ten, which were neither lacerated, nor torn; and two of the most perfect of which were accurately engraved by *Albert Halwey*, the King's Engraver. See *Histor. Cochlear. 4. Class. Quadripartit. Botantic.* These Leaves were of different Shapes and Bulks, but so like those of the *Chamelæagnus*, that the one could hardly be distinguished from the other. The Leaves of the green Kind seemed to be produced by an Herb, or Shrub, of a quite different Species from the *Chamelæagnus*, the Leaves of which, when gathered small, and in the *Spring*, make, in my Opinion, the most genuine *Tea*.

But though I have before shewn, from the Authority of *Bauhine*, that the Leaves of one and the same *Chamelæagnus*, sport and vary considerably from each other; yet, I would not, because this may also probably happen to the *Chinese Tea*, have any one infer, that, in *China*, the *Tea*, which some maintain to be the *Cha* of the *Tartars*, is not adulterated. I am, indeed, of Opinion, that it is adulterated, but never either affirmed, or so much as intended to insinuate, that Nature sported and varied so in the *Chamelæagnus*, either of the *Tartars*, or *Europeans*, as to produce Leaves of a different Species: Nor is this Variation, and Sporting of Nature, surprizing in the *Chamelæagnus*; since it is equally, if not more, palpable, in Prunes of different Colours, Peaches, Apricots, sweet and bitter Almonds, and the Leaves produced by these Trees. I have often carefully viewed and turned over all the three Thousand Plants, with which my Repository is enriched, in order to see whether any of them resembled the spurious *Chinese Tea*, or that with which the genuine is adulterated; and I found the Leaves of two Shrubs highly similar to those of the spurious *Tea*: The one is by *Carolus Clusius* in *Lib. 5. Rarior. Plantar. Histor. Cap. 20.* called *Pyrola quarta Fruticans*; and *Bauhine*, in his *Pinax*, calls it the *Pyrola Frutescens Arbuti Folio*: The other is a Shrub, called by *Clusius*, in *Lib. 1. Histor. Plant. Cap. 53*, the *Spiræa Theophrasti*, and by *Bauhine*, *Frutex Spicatus Foliis Salignis Serratus dictus*.

As it was expedient to compare my Description of the *Chinese Tea* with those which *Dodonæus* gives of the Herb *Betony*, and the *Chamelæagnus*; so, in this Place, I think it proper to insert the Descriptions which *Clusius* has given of the *Pyrola Fruticans*, and the *Spiræa Theophrasti*; the former of which he describes in the following Manner: "One Genus of this Plant is sometimes of a shrubby Nature; for new, short, and small Branches springing up every Year, remain firm and green for some Years, and rise above the Earth, till by their own Weight they bend downwards, hide themselves in the Ground, and sometimes send out fibrous Roots. Two, three, or four small carnosus Leaves generally grow between the Nods: The superior Parts of these Leaves are of a deep green Colour, and shining, whilst, in Form and Bulk, they almost resemble those of the *Chamædaphne*, or *Laureola*, only they are serrated about the Edges, and of an highly drying and bitterish Taste, like the Leaves of the other Species of *Pyrolæ*." These last Words ought carefully to be adverted to. The same *Clusius*, in *Lib. 1. in Rarior Plantar. Histor.* describes the *Spiræa* in the following Manner: "It rises to about the Height of two Cubits, with small Branches, or Twigs, covered with a reddish Bark. Among these Branches arise, without any Order, numerous, long, and narrow Leaves, resembling those of the Willow, serrated about the Edges, with their superior Surfaces of a faint green, and their inferior as if they were besprinkled with Verdegreaase: They are of a drying and kind of bitter Taste." The last Words of this Description are also to be carefully adverted to, since the Leaves of *Tea* are not only serrated, but also of a drying and bitter Taste. As, therefore, the *Pyrola Fruticans* of *Clusius*, and the *Spiræa* of *Theophrastus*, and especially the former, are of a drying and bitterish Taste, it is highly probable, that the *Chinese Tea* may be adulterated with one, or both of these; especially, since they not only greatly resemble each other in Form, but also in Taste. A Cut of one Leaf of the *Pyrola*, I have annexed to the Description of *Scurvy-Grass*, in my *Quadripartitum*, No. 9. and another of a *Tea-Leaf*, produced in *China*. As for a Cut of the *Spiræa*, the Curious may have recourse to *Clusius*, or they may find one Leaf of it accurately engraved in Plate 2, of this Work; where two Leaves of *Chinese Tea* are engraved. The larger of these is so like the *Spiræa* of *Theophrastus*, both in Length, Breadth, Bulk, the Course of the Veins, and the Disposition of the Crenations, that there is hardly the smallest Possibility of distinguishing the one from the other: But both these Leaves are vastly unlike to that *Tea Leaf* which, in No. 7. of the last cited Plate, I ordered to be engraved, with the *Cochlearia Danica*: But the other small uncrenated Leaf is like the *Chinese Tea*, as the latter is like the *Chamelæagnus*, which, as I have already observed, sports and varies very surprizingly in its Leaves: This latter, I take to be genuine *Tea*; whereas, I am of Opinion, that the former, resembling the *Spiræa*, is spurious. Since, therefore, both *Tartary* and *China*, abound with the *Pyrola*, and the *Spiræa* of *Theophrastus*, I think we have just Reason to conclude, that all the Leaves sold among us for *Tea*, have not been gathered from one Species of Shrub, or Herb, but are adulterated with those of the *Pyrola*, the *Spiræa*, or some other Shrub; among which, we may justly reckon the *Rhus*, or *Sumach*, on account of the Similarity of its Leaves, Flowers, Taste, and Bulk; though I am sensible, that the celebrated *Bauhine*, in his *Pinax*, has placed it among the Species of *Agnus Castus*, and made it a Kind of intermediate Plant, between the *Vitex* and *Ligustrum*, calling it *Frutex Spicatus Foliis Salignis serratis*. In consequence of this, it seems dubious to what Kind of Shrubs it is principally to be referred: Its Flowers grow in a spicated Order, on the Tops of the Twigs, like those of the *Agnus Castus*; so that the *Spiræa* very much resembles the *Vitex*: But, when the Flowers, and crenated Leaves of the *Spiræa*, are accurately viewed, we find, that it is more justly referred to the *Rhus*, or *Sumach*, than to any other Species of Shrub. As neither *Theophrastus*, *Clusius*, nor *Bodæus a Stapelen*, have mentioned its Virtues, I shall not assert that they agree exactly with these of the *Chinese Tea*; only, it is highly probable, that the *Chinese Tea* is adulterated with

the *Spiræa*, either by the *Asiatic* or *European* Dealers. Avarice has not only prompted People to this Piece of Fraud, but also to lodge *Tobacco* in Office-Houses, in order to render it more acrid. In order to evince how like the *Chinese*, or *Japoneſe Tea* is to the *Spiræa*, I refer the Reader to *Tab. 1. Fig. 6, & 7*, the former of which is a Leaf of *Tea*, and the latter that of the *Spiræa*.

Happening one Day to viſit *Hieronymus Molmanus*, a learned Jeſuit, to whom I communicated my Paradox about *Tea*; that Gentleman, upon my commending *Trigautius* and *Rhodium*, ordered me to read *Martini Martinii novus Atlas Sinenſis*, as the beſt and lateſt Account of the *East Indies*, or rather of *China*. When I found this Work, I was glad to meet with a Deſcription of the *Cha*, in the Account of the Town *Hojechu* in *Nanquin*, in which the Author affirms, that it is no where better and more valuable. *Martinius* informs us, that the *Chinese Tea* belongs to the *Rhus*, and is highly ſimilar to it: But this *Rhus*, as I have already ſhewn from *Pliny*, *Cluſius*, *Dodonæus*, and *Dalechampi*, is the ſame with our *Chamelæagnus*. Hence, it is not only obvious in itſelf, but confirmed by the Authority of *Martinius*, that the *Chinese* are guilty of Fraud and Impoſture in adulterating their *Tea*.

The Deſcription which *Martinius* gives of the *Thee*, is as follows: "The Leaves, moſt commonly known by the Name of *Cha*, are no where more valuable, than in the Province of *Nanquin*; and, for the Sake of the Curious, I ſhall deſcribe them as briefly as poſſible. The Leaf is exactly ſimilar to that produced by the *Rhus Coriaria*; and I am apt to think the former is a certain Species of the latter, though the *Thee* is not wild, but cultivated, is not a Tree, but a Kind of Shrub, ſending forth various ſmall Branches: The Flowers of the one do not much differ from thoſe of the other, except that thoſe of the latter are of a more yellowiſh White than thoſe of the former. The *Tea* flowers in the *Spring*, and the Flower emits a gently fragrant Smell. It is ſucceeded by a green Berry, which ſoon aſſumes a blackiſh Colour: The tender Leaves appearing in the *Spring*, are thought beſt. Theſe, when gathered, they put into an Iron Pan, over a ſlow Fire, and heat them a little; then they put them in a thin fine Cloth, and again expoſe them to the Fire, till they are intirely dry, and ſhrunk up. When thus prepared, they generally keep them cloſe ſtopped leaden Veſſels, in order to prevent Evaporation, and the free Access of the Air. After they have been kept a long Time, they reſume their primitive Verdure, and expand themſelves when put into boiling Water, in which they produce a greeniſh Colour, and communicate to it a pretty grateful Taſte, eſpecially to thoſe who are accuſtomed to drink it. The *Chinese* greatly extol the Virtues of this warm Liquor, which they frequently uſe by Day and Night, making it the common Entertainment for Strangers and Viſitors. The Price is very various, ſince a Pound aſcends from an Halfpenny, to two, or more, *Nobles*: To this Liquor, it is principally ſaid to be owing, that the *Chinese* are never afflicted with the Gout and Stone. When drank after Meals, it removes Crudity and Indigeſtion, for it greatly aſſiſts Concoction: It affords Relief after hard Drinking, and Surfeits of every Kind; for it is of a drying Quality, removes ſuperfluous Humours, expels ſomniferous Vapours, and prevents Drowſineſs and Oppreſſion in thoſe who incline to ſtudy: It has various Names in *China*, according to the Places where it is produced, and the different Prices of it. The beſt in *Nanquin*, is generally called *Sunglocha*. For a farther Account, the Curious may conſult *Rhodium de Regno Tunking*." *Martinius* alſo informs us, that the City *Luchen*, in the Province of *Kiangnan*, is celebrated both for the great Quantities, and the Goodneſs of its *Tea*.

I could heartily wiſh, that all the practical Phyſicians in *Europe* would concur to giving a Sanction to this Doctrine by their Practice; for, beſides the Teſtimonies of *Trigautius* and *Rhodium*, I am certain from Experience, that the *Cha* is the *Rhus Coriaria*, or a certain Species of it, whoſe Qualities and Marks are known from what has been already ſaid. I do not, in the leaſt, doubt, but the *Cha* of the *Tartars*, or the *Thee* of the *Chinese*, is our *Chamelæagnus*, or *Pliny's* Herb *Rhus*; eſpecially ſince *Cluſius*, in *Auctar. Exoticor. Libror.* expreſſy aſſerts, that from the Cuts of ſome *Chinese* Books, which *Pavius* and *Joſeph Scaliger* received in a Preſent from ſome *East India* Merchants, though coarſely engraved, he perceived that many *Chinese* Plants are exactly ſimilar to ſome of thoſe produced in *Europe*. This Circumſtance renders it highly probable, that *China* which borders upon *Tartary*, produces our *Chamelæagnus*. I am heartily ſorry, however, that I have not had an Opportunity of converſing with *Martinius* on this Subject, ſince, according to *Galen*, in *Lib. de Compos. Med. Cap. 3.* reading an Author's Works, is not ſo ſatisfactory, as a perſonal Converſation with him. However, as I have only followed Reason, and the Courſe of my own Thoughts, I hope I ſhall have no Cauſe to repent my Labour; ſince, according to *Cornelius Tacitus*, in *Annal. 15.* many Things are obtained by Experiments and Efforts, which, to the lazy and ſluggiſh Part of Mankind, ſeemed highly difficult, if not impoſſible. Thus the *Romans*, by Bravery and Activity, raiſed their originally petty State, to a moſt extenſive and powerful Empire. *Columbus* diſcovered *America* by Reading and making Efforts for that Purpoſe. *Copernicus*, and *Ticho Brahe*, by their extenſive

Acquaintance with Mathematics, discovered and demonstrated many important Things, unknown to our Forefathers. The illustrious *Hoffman*, in *Paralcip. Officinal*, when giving a noble Scope to his Imagination, in the Investigation of Mineral Waters, tells us, that the advancing probable Things, is an Advantage to the Cause of Truth, and was always looked upon as such by *Plato*, *Aristotle*, *Galen*, and all other Philosophers. Notwithstanding the incomparable Learning and Industry of *Martinius*, I cannot comprehend some Things in his Description of *Tea*; for I cannot conceive why he asserts, that the *Rhus Coriaria* is not wild, but cultivated among the *Chinese*; since *Matthiolus*, *Bauhine*, and *Hoffman*, do not, with *Galen*, make a Distinction between the *Rhus Coriaria*, and *Culinaria*, which, by *Trigautius* and *Rhodium*, is called the *Cha*, or *Thee*; but if *Martinius* had mentioned the *Myrtle*, I should have conjectured, that he followed other Botanists, who exclude the *Myrtus Sylvestris Dioscoridis*, in the Shops known by the Name *Ruscus*, or *Bruscus*, from the Species of true *Myrtles*. Thus *Marcellus Virgilius*, in *Comment. in Dioscorid. Lib. 1. Cap. 132.* makes a great Difference between them in the following Passage: "The *Myrtus Sativa* of *Pliny*, which I describe in this Chapter, is not like other Plants, sown in continued Tracts of Ground; and though it thrives better in Gardens, than in uncultivated Soils, this is not the only Difference between it and the *Myrtus Agrestis*, which is a Plant of an intirely different Kind, which the *Greeks* call *Oxymyrsene*, and the *Latins*, *Ruscus*; for, upon Comparison, the *Myrtle* is milder than the *Ruscus*, whose cuspidated Leaves are pricking and sharp. It is, however, certain, that the *Ruscus* was, by some of the Antients, called *Myrtus Sylvestris*." I do not remember, that any Botanist has brought such a Charge against our *Chamelæagnus*, since it is universally enumerated among the Species of true *Myrtle*, though of the wild Kind. The Reason why *Martinius* calls the *Chamelæagnus* a cultivated Plant, as I suppose, is, because the *Chinese*, seeing us so fond of *Tea*, have begun to cultivate it, in order to draw the Profits arising from it, just as the *Europeans* do the Vine, for the Sake of the Grapes, the *Persians* the *Mulberry-Tree*, for the Silk; the Inhabitants of *Narbon* and *Provence*, the *Ilex Coceigera*, for the Sake of the *Cochineal*; or the *Americans* the *Tobacco*, on account of the large Quantities of it imported into *Europe*. As *Trigautius* thinks it not impossible for *Tea* to grow in some Parts of *Europe*, and as *Rhodium* affirms, that the *Chinese* are as busy in the Time of gathering their *Tea*, as the *Europeans* are in their Harvest; so, it is probable, that some Tracts of Land may be sown with *Tea* in *China*; notwithstanding which, it is more agreeable to the usual Way of speaking, to call *Tea* rather a wild, than cultivated Shrub. The *Chinese* also, according to *Rhodium*, do not gather all the Leaves produced by the Shrub, but only such as appear first in the *Spring*, and are soft and tender, which they also gather, one after another. Hence I infer, that the Leaves in the *Summer*, are very unlike those in the *Spring*, which is also observed in those of our *Chamelæagnus*, with respect to Softness, Smoothness, and Colour; so that it is not to be wondered at, if the *Chinese Chamelæagnus* appears milder than our own; since they collect, prepare, and dry theirs in a quite different Manner from us: "For, first, they put it in an Iron Pan, and warm it gently over a slow Fire; then, they wrap it up in a smooth, thin Cloth, and again expose it to the Fire, till it is corrugated, and shrivelled up." Hence it is, that our *Chamelæagnus*, when macerated in warm Water, is of a different Colour, Taste, and Smell from the *Chinese Tea*, though their Effects are the same, only those of the former are stronger and more considerable than those of the latter. If, therefore, in our Country, the *Chamelæagnus* was gathered with the same Circumstances, Pains, and Precautions observed by the *Chinese*, I doubt not but it would be equal to, their *Tea*; for if the same Measures are not taken in the Preparation of the same Herb, how is it possible, that it should produce similar and uniform Effects, especially if the one is gathered in the *Spring*, and the other in the End of the *Summer*: The one artificially dried in the House, and the other dried in the open Air by the Heat of the Sun; the one collected when it begins to appear, and other when the Plant is full of a roscid, sulphureous Dew, and bears Flowers, and Seeds. For this Reason, *Scherbius* justly observes, "That when many Things concur to the Production of the same Effect; all these Things ought to be exactly the same." *Hoffman*, in *Comment. Lib. 7.* represents this Doctrine in the following accurate and beautiful Manner: "Individual Objects often appear to our Senses to have no Difference; whereas, a very considerable one is observed in their Effects. This Circumstance constitutes that Individuality, which cannot be described, and which, I remember, *Scherbius*, my old Master, used to illustrate by the following *Simile*: If a Bell-Founder should make twenty small Bells, of the same Metal, in the same Mould, at the same Time, and in the same Place; yet the Sound of no one of them will be perfectly similar to that of another. What can be the Cause of this Variation? The Artist, the Mould, the Metal, and the Fire, concur to produce the same Effects, which, however, is not obtained. Besides, if we were carefully to examine these Bells by the Sight, the Touch, the Weight and other Circumstances, we can discover no Difference; which, however, is sufficiently evinced by the Sound. Some Things, said my Matter, can neither be described, nor expressed, and of this Kind are these Differences. Perhaps, in this Case, there is not an equable Thickness of the Metal, because the Fire has not equably pervaded all its Particles. Perhaps the Surface is not every where smooth because the fused

Metal might have been in some Parts more refrigerated than in others: and perhaps, there maybe other Variations; for, unless all Circumstances exactly concur, the same Sound cannot be produced in all the Bells." I have quoted this Passage from *Hoffman*, lest any Person, observing some Differences between our *Chamelæagnus*, and the *Chinese*, or *Tartars Tea*, should forthwith doubt,—whether they are Shrubs of the same Species, as I have already proved them to be. The *Chinese Tea*, therefore, and our *Chamelæagnus*, are Shrubs of the same Species; though, for the former, we go beyond the *Cape of Good Hope*, into *China*, cross the *Equator* four Times in every Voyage, and expose ourselves to uncommon Hardships and Dangers, in order to bring Home the Leaves of an unknown Shrub, which has not the same Virtues and Qualities for which the *Chinese Tea* is celebrated in *China*, and to which our *European Betony* is preferable. Since, therefore, the *Chamelæagnus* is now sufficiently known, we have no more Occasion for *Tea* from *China*, than we have for *Arum* from *Asia*, *Wormwood* from *Pontus*, or *Scordium* from *Crete*.

I now proceed to consider the peculiar Virtues commonly supposed to reside in *Tea*, but which I assert are equally to be found in *European* Plants; for the *Chinese* are guilty of a fulsome Exaggeration, when they assert that it has a Tendency to prolong Life. The Virtues, then, of the *Tea*, seem to be most accurately described by *Rhodius* and *Martinius*, who seem to have reduced them to three Heads; the first of which, according to *Rhodius*, is, that it alleviates Pains of the Head, and represses Vapours: The second, that it corroborates the Stomach: And, the third, that it expels the Stone and Gravel from the Kidneys. These Virtues are, by *Martinius*, recited in the following Order: To the drinking of this warm Liquor, it is said to be owing, that the *Chinese* are Strangers to the Gout and Stone. When drank after Meals, it removes Crudities and Indigestion. When exhibited to drunken Persons, it affords them Relief, and prevents the bad Consequences of Surfeits; for it is of a drying Nature, carries off superfluous Humours, expels somniferous Vapours, and removes the languid State of Students, who are oppressed by long Application. These Virtues are, at present, to be carefully examined. I shall not here speak of those Qualities, which are the Result of its Temperature; since I before evinced, that the whole Substance of the *Tea* was grateful to the Brain; but at the same time shewed, from a singular Observation, that *Betony* was possessed of the same Virtues and Qualities.

First, then, it is asserted of *Tea*, that it removes the bad Consequences of Surfeits, because it is of a drying Nature, and carries off superfluous Humours: The same Effects are also produced by *Betony*: But as for the Expulsion of somniferous Vapours, and removing the languid State of hard Students; these Properties are more frequently ascribed to the true *Myrtle*, than to *Betony*; which, however, as we shall afterwards shew, is also recommended against Intoxication.

The second Virtue of *Tea* macerated in warm Water, is, that it corroborates the Stomach; which Effect is also remarkably produced by *Betony*.

The third Virtue it is said to be possessed of, is, that it frees the Kidneys from Stones and Gravel; for which Reason, according to *Martinius*, the *Chinese* are Strangers to nephritic and arthritic Disorders. *Betony* remarkably produces this Effect, and, at the same time, is a powerful Preservative against the Gout. The other Qualities of *Tea*, enumerated by other Authors: I shall not here mention, that I may, at more Length, compare it with *Betony*. The Reader may, however, consult my *Quadripartitum*, and *Antonius Musa*, who, in *Libell. de Betonica*, affirms, that *Betony* is possessed of so excellent medicinal Virtues, that it cures no less than forty-seven Disorders; which none of the *Chinese* have ever dared to assert, concerning their *Tea*: The *Asiatic Tea* is, therefore, far inferior to the *European Betony*. The same Author affirms, "That *Betony*, previously taken, prevents Intoxication." By which Words, *Musa* insinuates, that it guards against a Surfeit, and, consequently, frees us from Drowsiness; so that the whole Substance of it is equally grateful and refreshing to the Brain with *Tea*. It were to be wished, that this Physician had directed the Method of preparing *Betony*, in order to prevent Intoxication; by which Means the *Europeans* would, in all Probability, have been encouraged to greater Care and Diligence in cultivating, drying, and separating the small from the large Leaves of our *Chamelæagnus*, a Decoction of whose Flowers would have been as grateful to them as that of the *Chinese Tea* is to them. But if any should foolishly dread the Use of the *Chamelæagnus*, which, however, is much used, and greatly extolled in *Denmark*, and the *Lower Saxony*; such Persons may, I think, substitute *Betony* in its Room. But, if a Physician should order an *European* Candler, or Day-Labourer, frequently to use a Decoction of *Betony*, they would sneeringly bid him use his insipid Water himself. But the Custom of drinking *Tea* only prevails, because it is a new Thing, unknown to the Forefathers of the *Chinese*, and is imported from *Asia* into *Europe*, whose Inhabitants of all Ranks are so excessively fond of it, on account of its grateful Bitter, and sub-astringent Taste:

The same may be said of the *Indian Chocolate*, and the Water impregnated with the *Chavva* of the *Persians*, since these three Liquors have generally no more grateful a Taste, than a Decoction of coarse *European Pears*, or what the *Germans* call a *Pear-souse*.

But, as *Antonius Colmeri de Lodesma* has given a distinct Account of *Chocolate*, and the Method of preparing it, the Reader may expect that I should say something of the Use and Method of preparing the Water of *Chavva*; and this I shall the more willingly do, because no Physician, or Botanist, so far as I know, has expressly, but only accidentally, and imperfectly, given the History of the *Chavva*. But I would advise Physicians to order the Use, not only of *Chocolate*, but also of the *Chavva*, very sparingly; though both Liquors are highly commended by the high and learned, as well as the low and illiterate Part of Mankind: For *Hieronymus Benzo*, who, according to *Dalechampius, Lib. 18. Histor. General. Plant.* calls it, "A Wash rather fit for Hogs, than a Liquor proper for human Creatures." *Benzo*, after residing above an Year in the Province of *Nicariquan*, in *America*, had, all the while, a mortal Aversion to this Liquor; till, falling short of Wine, he learned to imitate the Natives, that he might not be under a Necessity of drinking Water perpetually. This Liquor, by its somewhat bitter Taste, refreshes and refrigerates the Body, without intoxicating those who use it. This is the principal and dearest Commodity of those Countries; nor do the *Indians*, who use it, esteem any thing more highly, according to *Clusius, Lib. 2. Exot. Cap. 29.* and *Anonym. Auctar. in Dodon.* I must own I should, with *Benzo*, have preferred pure Water to this unnatural Mixture, which, as well as *Coffee*, and *Tea*, the *Europeans* may very well want, without any Loss of Health: And it were to be wished, that the excessive Demands for all these, did not excite People of sordid Tempers, to adulterate them, with Substances of heterogeneous Parts, and such as are unfriendly to Nature. This, as I have before mentioned, with respect to *Tobacco*, is the Reason why, in our Age, we are seized with Disorders, the Names of which are not so much as mentioned in the Writings of the Antients. Hence *Bartholin* thinks, "That Aromatics and Spices, which are no less the Causes of Wars in *Europe*, than of Commotions in the Body, ought to be prohibited; since the Purposes of Life and Health will be far better answered, by cleansing the Blood now and then with the Leaves of the *Coluthea*, Water-Cresses, or *Fumitory*. We are also to chuse an Antidote for common Use; but not the *Theriaca*, of which the Emperor *Antoninus* took the Bulk of a Bean every Morning, nor the *Mithridate*; for these are injurious by their Heat, and consequently improper for us. But we are to use *Conserve of Roses*, *Rob. of Elder*, Electuaries of *Marygolds*, the *Morus Norvegica*, and other indigenous Plants, whose Qualities are best suited to our Temperaments and Constitutions." But the Use of the Herb *Tea*, if it could be brought fresh and recent from *China* into *Europe*, would be more tolerable than that of *Chocolate*, and *Coffee*, which is of all others the worst: Since a Decoction of the *Chavva* surprizingly effeminates both the Minds and Bodies of the *Persians*; by imitating whom, we shall never arrive at that Vigour and Hardiness, which *Julius Cæsar*, and *Cornelius Tacitus*, so much admired in our Forefathers.

We have before observed, that *Amurath*, the fourth Emperor of the *Turks*, under Pain of Death, totally prohibited the Use of *Tobacco*, lest his Subjects should become barren. But we *Europeans* heedlessly go on by the Abuse of *Coffee*, to emasculate ourselves like the *Persians*, who are fond of Sterility, and, according to *Olearius*, much more salacious than the *Europeans*; But of this Effect of *Coffee* we shall afterwards treat.

As the Fruit of the *Cacao*, or *Cacarate*, which resemble *Almonds*, are the Basis of *Chocolate*, they are found engraved in *Tabernemontan. Lib. 3. Cap. 16.* So that I shall here give no Cuts of them, since I have done that in *Quadripartit. Botan. Class. 3. No. 11, 12.* when, describing the Seed *Bon*, or *Ban*, which is also called *Buna*, or *Buncho*, and *Bunea*, or the Seed from which is prepared the *Coava*, *Caova*, *Cavve*, *Choava*, and *Cahvve*, which, by a Corruption, is, no doubt, the *Coffee* of the *Europeans*.

If it should be asked, to what Class of Simples, whether that of Herbs, or Trees, we are to refer the Plant which bears the Seed *Bon*, from which the Water of *Chavve* is prepared, and which is also mentioned by *Olearius*, in *Itinerar. Persiæ, Cap. 17.* I answer, that some, ignorant of *Botany*, may take it for an Herb, whose Seeds resemble those of the *Turkish Corn*, or the *Indian Corn*, by *Bauhine* called *Mays*, or for our Wheat: Whereas, it is no Herb, but a Tree, by *Olearius*, in the last quoted Passage, described in the following Manner: "The *Persians*, in smoaking *Tobacco*, have always the black Water of *Chavve* present. The Fruit with which they prepare this Liquor is sent from *Egypt*; and, in the inner Side, resembles the *Turkish*, though on the outer Side, the *European Wheat*. This Fruit is of the Bigness of a *Turkey Bean*, and the Shrub bears a white Flower. The Fruit, or Berries, they burn, or roast, in a dry Pan; after which they grind them, and boil them in Water, which they drink, and which has a Kind of hot, unpleasant Taste. It is esteemed a great Cooler; for which Reason it is drank by most; but if it is used to Excess, it extinguishes the Inclination to Venery, and induces Sterility." The Seed *Bon*, or *Ban*,

is collected from a Tree bearing its own Name, if we may believe *Prosper Alpinus*, *Lib. de Plant. Egypt. Cap. 16*. This Author, after residing some Years in *Egypt*, saw the *Bhon-Tree* in the Green-House of *Hali Bei*, the *Turk*. An intire Description and Cut of this Tree is also to be found in *Tom. 1. Lib. 4. Histor. Plantar. Univers. Cap. 5*. Since, therefore, *Alpinus* compares this Tree to our *Euonymus*, and says, that the former resembles the latter: Hence *Caspar Bauhine*, in his *Pinax*, places it among the Species of *Euonymus*, and calls it the *Egyptian Bon*, like the *Euonymus*, with a Fruit like Bay-Berries, from whose Seeds the Egyptians make their Liquor, called *Coava*. Though this Fruit, with respect to Figure, Bark, and Colour, is highly similar to Bay-Berries, yet it is far less in Bulk. In my Opinion, it most resembles the Seeds of the admirable *Peruvian Tree*, Decoctions of which, are used by the *Eastern Nations*, the *Egyptians*, *Turks*, and *Persians*, for corroborating a cold Stomach, assisting Concoction, and removing Obstructions of the *Viscera*. They also, with Success, use this Decoction for many Days against old Obstructions, and cold Tumors of the Liver and Spleen. This Decoction, according to *Alpinus*, seems also appropriated to the *Uterus*, which it warms, and frees from Obstructions: Thus, the *Egyptian* and *Arabian Women*, for the due Evacuation of their *Menses*, use this Decoction for several Days after they commence. Hence, according to *Olearius*, the *Persians* are not afraid, lest the Decoction of *Cavve* render them cold; unless we should also say, that *Agnus Castus* which induces Sterility, is also of a cold Temperature: But this Doubt will be cleared by-and-by. It were to be wished, that the celebrated *Johannes Weslingius*, who also travelled into *Egypt*, had had an Opportunity of seeing this Tree; since he would have given us a more accurate Description of it, than we have hitherto got; for, in *Commentar. in Prosper. Alpin.* he tells us, that the Fruit of this Tree is brought from *Jamin*, or *Arabia Felix* into *Egypt*; and, that a Decoction of it is sold in some Thousands of Taverns at *Memphis*. *Prosper. Alpinus* also, in *Lib. de Medicina Egyptor. Lib. 4. Cap. 3*. when treating of the Decoctions used by the *Egyptians*, whether sick, or in Health, tells us, that, in a particular Manner, they make use of the Decoction called *Choava*, prepared with the Coats or Husk of the Seeds called *Bon*. Then he describes the Preparation of *Bon*, by telling us, that it smells like Corn, Rye, Barley, or Pease, when thrown upon live Coals, and burned a little. *Alpinus*, however, endeavors to evince, that the Seeds of *Bon* consist of two Substances, the one thick and earthy, by which they brace up and corroborate, and the other thin and subtile, by which they heat, absterge, and remove Obstructions. That they are highly drying is certain, but I cannot for this Reason comprehend why *Prosper Alpinus* asserts, that Cold prevails moderately in them; for they act by their whole Substance, both by their Salt and both Kinds of Sulphur: So that it is highly probable they produce these Effects, on account of their ungrateful Taste and Smell. But it is said these Seeds are corrected with Sugar. Thus *Weslingius* informs us, "that some correct the Bitterness of this Decoction with Sugar, and preserve the whole Kernel of the Fruit incrustated with Sugar. Nor is this only customary in *Egypt*, but also through all the Provinces of *Persia*. This renders the Seeds *Bon* not only dear, but scarce, in *Europe*." Though *Weslingius* thinks that these Seeds are useful to the *Europeans*, yet I am of a different Opinion; for, in like Manner, the *Europeans* have resolved to sweeten, not only their *Coffee*, but also their *Chocolate* and *Tea*, without having any View to prevent Disorders, or recover Health; but only to follow the Customs of the *Asiatics*, and indulge themselves in a Liquor, whose Taste is pleasant to them.

If it should be said, that *Tulpius* informs us, that the *Chinese* dissolve a few Grains of Salt, or Sugar, in their Infusions of *Tea*, I answer, we here enquire not what is done, but what ought to be done; not what is palatable, but what is conducive to preserve Health, and restore it when lost. Though I do not altogether disapprove of *Salt* in *Tea*, yet I absolutely condemn *Sugar*. How ill the *Europeans*, especially those of the *Northern Countries*, consult their Health, by mixing their *Mustard*, and their Sauces of *Vinegar*, and *Horse-Radish*, designed as a Preservative against the *Scurvy*, with *Sugar*, I have already shewn, in *Class. 3. Quadripartit. Botan.* For the same Reason, *Sugar*, mixed with an Infusion of *Tea*, infringes and impairs its Virtues; so that, by this means, we drink, not a medicated Water, but little more only than simple *European Water*, edulcorated with *Sugar*. This, no doubt, is an excellent Remedy against Intoxication; but certainly if we read both antient and modern Authors, we shall find, that Drunkenness may be removed by drinking cold Water. Besides, an Intoxication, next to Madness, may be greatly alleviated by wrapping up the *Scrotum* in Cloths dipped in cold Water. Hence we have but little Reason to bring *Tea* from *China*, *Tartary*, and *Japan*, at an extravagant Price, which might be far better laid out, in relieving poor indigent Families at Home. But the present *Europeans* are vastly different from what they were before the *Asiatic Effeminacy* was known among us. The *Europeans* might, perhaps, be indulged in the perpetual Use of *Tea*, provided their Regimen was the same with that of the *Asiatics*. Now, Regimen includes all the five Non-Naturals, which are Air, Meat and Drink, Excretion and Retention, Motion and Rest, Sleep and Watching, and the Passions of the Mind. Now, all these, in *Europe*, are vastly different from what they are in the *Indies*, as is obvious from the faithful and impartial Accounts, given us by *Martinius*, and *Mandelslo*. This Subject is

excellently handled by *Hippocrates*, in *Tr. de Aere, Aquis, & Locis*, who joins these three together, with great Judgment, and for very sufficient Reasons; since each of the three has Atoms, in a manner, peculiar to itself, which it continually sends forth, and diffuses even to a great Distance: So that some Bodies, according to *Bartholine*, may, by means of the Atoms they emit, propagate the Sphere of their sympathetic Actions, to the Distance of a Thousand Miles. About the *Equinoxes*, and *Solstices*, the sudden Changes of the State of the *Atmosphere*, and the Variety of Vapours exhaled from the Earth, produce surprizing Alterations in Health. And these Exhalations rise sometimes in such large Quantities, as to be condensed, and by their own Weight to fall down, in the Form of sulphureous Showers: A memorable Instance of this we had in *Norway*, where, on *May 19, 1665*, a violent Tempest, accompanied with uncommon Thunder, and thick Clouds, broke out: During this Storm, there fell from the Clouds, a Substance, highly similar to Sulphur, which not only floated on the Water, but also seemed to cover the Earth. When *Stobæus* subjected this Matter to an Examination, he found, after drying, and passing it through a Sieve, that when it was become moderately warm, on an heated Tile, it emitted a fetid Smoak of the same Colour with that of the Spirit of *Nitre*, in Distillation. But this Matter could not be fused by the strongest Fire; by which Means, however, it became inodorous, and like small Sand, though before it resembled a fetid, coarse Sulphur, reduced to Powder. The same Author, in his Letters also, informs me, that, when about as much of the recent Matter, as would lie on the Point of a Knife, was laid upon a red hot Tile, it was spontaneously kindled, made a Kind of Noise, and emitted a reddish fetid Smoak. Next Day *Stobæus* endeavoured to sublime this crude and sulphureous Matter, by itself, without any Addition, in order to discover, whether Flowers of Sulphur could be obtained from it; but his Labour was in vain; for though the Matter became red hot by due Degrees of Fire, yet no Flowers appeared; only the first Steam, which, in the Alembic, appeared reddish, in the Water, assumed a dark ferruginous Colour: Then, by augmenting the Fire, a whitish Spirit appeared, which gave a similar Colour to the Water. This Steam and Spirit appeared in Distillation to be of an acrid Taste; so that *Stobæus* justly concluded them to contain a volatile Salt, of a particular Kind. The same Author informs me, in his Letter, that the Rain which fell, during the Thunder, smelled of Sulphur: And from this Observation, he thinks, the Chemists Doctrine, concerning the Generation of Thunder, may be confirmed. As every Substance does not act upon every other Substance, nor sulphureous Things on those of the same Nature, he put this Matter into Spirit of *Turpentine*, and digested it by a gentle Fire; by which Means, it gave the Liquor a yellowish Colour, and a Smell, very like that of Balsam of *Sulphur*: But of these I shall not treat at greater Length, since I am perswaded that Miracles have ceased, and that Providence disposes of second Causes according to wise and stated Laws. Hence it is, that about the *Vernal* and *Autumnal Equinoxes*, or *Solstices*, all Sorts of Diseases, and especially those of the endemial or epidemical Kind, rage; such as the *Scurvy*, *Measles*, and *Small-Pox*, as also the *Plague*, though often these Disorders are confined to one City. A memorable Instance of this, we have in the Cities of *Hambourg* and *Amsterdam*, which, in 1663, and 1664, were afflicted with a Pestilence, which, however, did not spread itself to *Denmark*, *Sweden*, *Britain*, *France*, and *Germany*. But, as the *Plague* is imported from *Africa*, it is probable, that the Salubrity of the Atmosphere, in those Countries which escaped, checked the sulphureous, saline, and pestilential Atoms, which first contaminated the Air of *Amsterdam*, and then that of *Hambourg*. But all Countries differ so widely, with respect to Air, Water, and Situation, that none of them, even the most contiguous, are exactly alike, and conspire in producing the same Effects. Thus, among the *German Wines*, the *Rhenish* is the best; though it also differs in Goodness, according to the particular Parts in which it is produced. The like holds in the *French Wine*, the worst of which is reckoned that of *Orleans*; for which Reason, *Quercean*, in his *Diæticum*, Cap. 6. tells us, "That in the Oeconomy of the King of *France's* House, it is enacted, by a domestic Law, that the Steward shall give the King no *Orleans Wines*;" which, however, has a very grateful Taste. The same holds, not only in Ales, but also in other Things: Thus, the *Noremberg Cakes*, on account of the peculiar Qualities of the Water with which the Meal and Aromatics are made up, are far better, and more pleasant to the Taste, than those prepared in the same Manner, in any Part of *Europe*. This is what the Philosophers have been at so much Pains to account for. The Air, Water, and Situation, also constitute the Reason, why *Tea* in *Europe* does not produce the same Effects it does among the *Asiatics*, especially the *Chinese*. Many Persons of Rank and Distinction have informed me, that they could never be sensible of the so-much-extolled Virtues of *Tea*, nor perceive that it prevented Sleep, or rendered them more brisk, and fit for Business. One or two Persons, however, subject to Catarrhs, have confessed to me, that they have become far better by the long Use of *Tea*. Thus, I have heard, that a certain Ambassador to the *Dutch*, who before laboured under a Difficulty of Hearing, had his Disorder totally removed, by the large Quantities of *Tea* he drank at the *Hague*. I, myself, have found *Tea* to be diuretic. I own, two or three Persons who have travelled, not only through *Europe*, but also through the *East Indies*, have affirmed to me, that in *Japan*, the drinking of

Tea infallibly removes Intoxication, and prevents Sleep; but this Effect is not at all produced by it in *Europe*. Thus, I have been informed, that Strangers, upon their Arrival in *Muscovy*, can drink such large Quantities of *Brandy*, as would put an End to their Lives in other Countries. Thus, it may happen, that the *Chinese*, or *Japoneſe Tea*, with the Assistance and Concurrence of other Things, may produce a particular Effect, which *Tea* will not do in *Europe*. But all these Effects are produced by *Betony*, an Herb universally known in *Europe*: Thus, it is certain, that our *Chamelæagnus* is the *Tea* of the *Chinese*, or *Japoneſe*. But to illustrate my Subject the better, I ſhall make a few Remarks on the peculiar Genius, Regimen, and Method of living used among the *Indians* and *Chinese*. The *Indians* then are fond of moistening Aliments, which guard against the Heat of the Sun; ſuch as Cherries, Fruits of all Kinds, Pot-Herbs, Fiſhes, Oysters, Crabs: Besides, *Michael Boym*, a learned Jeſuit, in his *Flora Sinenſis*, mentions various Fruits which are not produced in *Europe*; whereas Nature has furniſhed the *Chinese* with others, either like to, or exactly the ſame with, thoſe of the *Europeans*. The former of theſe, and the other ſimilar Delicacies of the *East Indies*, do, in all Probability, give riſe to new Diſeaſes in *Europe*. This Jeſuit ſpeaks of *China* in the following Manner: "The Kingdom of *China* is, as it were, a Compound of the whole Globe, or rather, a Gem, in which more Riches are to be found than in all the reſt of the World beſides. In the *Southerly* Parts of the Country, the Heats are moſt intense, and produce large Quantities of all the *Indian* Fruits, ſuch as Dates, Mangas, Ananas, and others: Whereas the *Northern* Parts produce Fiſgs, Chesnuts, Nuts of all Kinds, Peaches, Apricots, and Pears of various Kinds." Thus provident Nature has furniſhed the *Southermoſt* Parts of *China* with Fruits intirely unknown to the *Europeans*; whereas, the *Northern* Parts produce ſuch as are known in *Europe*, and ſuited to its Soil and Climate: Since, in the former, the Heats are very intense, but not ſo in the latter. Thus Nature ſeems to have prohibited us the Uſe of the former of theſe Fruits, by placing us at ſuch a Diſtance from them, and to have indulged us in the Uſe of the latter, by placing us ſo near them; for the Precept, of ſometimes uſing Things to which we are not habituated, does not hold in this Caſe: Since, being *Europeans*, we ought to uſe the Regimen, Aliments, and Drinks, peculiar to *Europe*; for it is no leſs generally than juſtly obſerved, that the natural Produce of any Country is beſt ſuited to the Conſtitution of its Inhabitants. Thus *Tea* ſeems by Nature adapted to the Inhabitants of *China*, *Coffee* to thoſe of *Persia*, *Chocolate* to thoſe of *America*, and *Ale* and *Wine* to thoſe of the different Parts of *Europe*. Thus the antient Inhabitants of *Saxony* and *Megapolis*, before they became fond of foreign Delicacies, uſed to ſay proverbially, *Drink Wine, and reap Benefit from it; drink Ale, and become fat; drink Water, and die*. It is alſo certain, that in former Times, the Inhabitants of *Iceland* and *Norway*, when they uſed a ſimple Regimen, and were Strangers to foreign Luxury, enjoyed good Health to an incredible Age; whereas, their Poſterity are not only weaker, but hardly live beyond the thirtieth, fortieth, or fiftieth Year of their Age: So that the *Lyric* Poet ſeems to have made a juſt Prophecy of our own Generation, in the following Lines:

Damnosa quid non imminuit dies?
 Ætas Parentum pejor avis; tulit.
 Nos nequiores, mox daturos
 Progeniem Vitiosorem.

Europeans then muſt have their Conſtitutions impaired, and their Strength exhausted, by living like the Inhabitants of *Asia*, *Africa*, and *America*; eſpecially ſince *Macrobius*, in *Lib. 7, Saturnal. Cap. 4.* ſhews, that the moſt ſimple Aliments are the moſt ſalutary, and eaſily digeſted. Besides, *Socrates* ordered his Pupils to abſtain from ſuch Meats and Drinks as created an Appetite after Hunger and Thirſt were ſatisfied. But, according to the *Chinese*, *Tea* produces an Appetite after Hunger and Thirſt are ſatisfied; therefore the drinking of it is to be abſtained from. The ſame holds true with reſpect to *Chocolate*, and *Coffee*. But I return to the *Chinese*, who are accuſtomed to Water-drinking, and a frugal Life. Hence, their Phyſicians, whom *Martinius*, in the Preface of his *Atlas Sinicus*, ſeems to prefer to thoſe of *Europe*, no doubt, enjoin them the Uſe of *Tea*, in order to prevent the Generation of excrementitious Humours; or, when generated, to carry them off by Stool, or Urine; for, it is certain, from what has hitherto been ſaid, that *Tea* is moderately heating, bitter, drying, and aſtringent. If it ſhould, for theſe Reaſons, be ſaid, that *Tea* is juſtly to be commended for a Weakneſs of the Stomach, I anſwer with *Celsus*, in *Lib. 1. Cap. 8.* "Our Countrymen ought not to be believed, who, when indiſpoſed, covet Wine, or Water, and inſtead of charging their own Luxury, lay the Fault on the Stomach, which has no Share in it." This Paſſage is equally applicable to *Tea*, *Coffee*, and *Chocolate*, and ſeems to inſinuate, that ſuch Perſons, in order to ſatiate their Thirſt, falſly accuſe their Stomachs. If this were more carefully adverted to by the Patrons of the *Chinese* Delicacies, and eſpecially thoſe who look upon *Tea* as a *Panacea*, they would uſe it more ſparingly, eſpecially in a bad State of Health; becauſe *Celsus*, in *Chap. 3.* of the ſame Book, tells us, "That Changes ought

to be gradually and slowly made; since that to which the Patient is not accustomed, proves, hurtful, whether it be soft, or hard".

But the *Chinese* Method of using *Tea*, is not agreeable to the Custom of the *Europeans*, and therefore hurtful to them.

Hence the *Germans*, *Saxons*, and Inhabitants of other Nations, in the *Baltick* Sea, being neither accustomed to much Wine, nor to dilute it with Water, are generally seized with malignant Fevers, when they go into *France*, or *Italy*; because every fixed Substance fixes such as is volatile; whereas, such as is volatile, resolves that which is fixed. Hence the thick and fœculent Blood of the *Germans*, consisting of saline, sulphureous, fixed, and volatile Parts, and being changed by the Regimen of *France*, and the Heat of the Sun, is subtilized by the *Tartar* and *Sulphur* of the *French* Wine, especially in such *Germans* as took great Care of their Health, when in their own Country; and in those who enjoyed good Health, their Blood is not only subtilized, but also ferments, undergoes an Ebullition, and is despumated. Hence arise Spots of different Colours, produced by the Blood variously corrupted. But these I have considered more fully in my *Digressio de Febribus Malignis*. This Doctrine is warmly inculcated by *Hippocrates*, who, in *Lib. de Fract. Senectut.* §. 6. tells us, "That the Age and Constitution of one Person, differ widely from those of another." But this Assertion, how true soever, is but little adverted to by most of the *Europeans*. But I think it incumbent upon me, for the Reasons now alledged, to warn them against the Abuse of *Tea*; especially since we find, that this Herb does, by no means, answer the Encomiums bestowed upon it by the *Chinese* and *Japonese*. I own *Tea* is of a more drying Quality than many *European* Herbs; but, for this very Reason, the constant Use of it is so far from procuring Longevity, especially in Persons of a middling Age, that it rather accelerates old Age; which, according to *Macrobius*, in *Lib. 7. Saturn. Cap. 11.* is, "an Exhaustion and Dissipation of the vital Liquor, by Length of Time; for old Age is dry, for Want of natural Moisture, and sometimes moist through a Redundance of peccant Humours, produced by Coldness of Constitution." Since then *Tea*, by Means of the Sulphur it contains, is of a more heating and drying Nature than *Ginger*, *Cinnamon*, *Pepper*, *Cubebs*, *Cardamomis*, or *Arabian Castus*; hence, it necessarily follows, that it is injurious to old Persons, and such as are of a dry Constitution, and loose Texture of the solid Parts. On account of this dry Constitution, and natural *Marasmus* of old People, which no Art can prevent, they become thirsty, and more addicted to tippling, than in their younger Years: Hence arises the *German* Proverb, *If a young Man knew the Pleasure of drinking in old Age, he would be saving in his younger Years.*

It is not, therefore, the native Heat, but that fatal Dryness which renders the Members cold, and the Skin corrugated, which renders old Persons fond of drinking; and for this Reason, I have, in my *Commentaries*, universally commended a moistening Diet for them. Hence, the Inhabitants of those Nations, who, besides *Tea*, daily drink Wine, ought carefully to guard against all sudden Changes in Diet and Regimen. Thus, when a certain celebrated *French* Physician, endeavoured to perswade a Person of eminent Rank, who was, generally, twice or thrice a Year seized with a Catarrh, to change his Regimen, and give over the Use of Wine, or, at least, dilute it with Water; because, in all Probability, the Physician told him, that cold Water powerfully corrected acrid Humours. Upon this, the Person of Distinction asked the Physician, whether he was in good Health? To whom the Physician replied he was: Then, says he, continue to drink Water, or Wine and Water, till you can drink no more; but you shall never, on account of slight Catarrhs, which are rarely offensive to me, perswade me to accept of a *French*, or *Italian* Regimen, instead of a *Danish*, and *German*: Nor will I drink Water instead of Wine, or Ale. I am at present full of Flesh and Blood, and enjoy a good Appetite: My Forefathers, for many Years back, were of the like Constitution, and used the same Regimen I do; but if, in the sixtieth Year of my Age, I should begin to drink Water, I am afraid I should rather resemble you than them; for you, who are a Water-drinker, though you enjoy good Health, yet you are emaciated, have a cadaverous Countenance, and seem to be rather a Skeleton than a living Person. I wish all Persons, especially such as are old, would follow the Example of this Gentleman, and obstinately reject *Tea*, which so dries the Bodies of the *Chinese*, that they can hardly spit. It is also an egregious Mistake, not only among the *Persians*, but also among most other Nations, to think that the Seed *Bon*, or *Ban*, which when toasted is called *Coffee*, and which I have taken Care to have engraved in the Plate after the History of *Scurvy-Grass*, No. 11, 12. of my *Quadripartitum*, is of so cooling a Quality, as to produce Impotence, even in those who use it frequently; for it only dries them. Thus *Casmin*, the Wife of Sultan *Mahmud*, after her Husband had so weakened himself by the Use of *Coffee*, that he had been impotent for many Years, is said, when she saw the Preparations making, for gelding a generous *Persian* Steed, to have told the Persons employed in that Work, that there was no Occasion for so much Trouble, since, by giving the Horse *Coffee*, he would become like her Husband, the King. This Story is, with the same Circumstances, related by

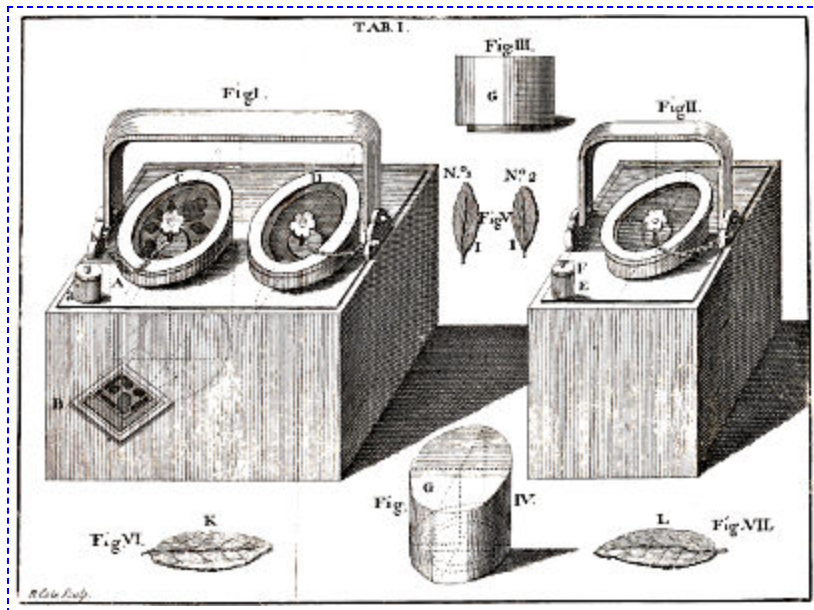
Olearius, in his Travels through *Muscovy* and *Persia*. *Coffee*, then produces Sterility in the *Persians*, not because it is cold, but because it gradually dries their Bodies, by means of a certain Sulphur, as peculiar to itself, as those of *Opium*, *Tobacco*, or *Agnus Castus* are to them. As the *Agnus Castus*, or *Vitex* is, by *Galen*, said to be dry in the third Degree, like *Rue*, and to consist of very subtile Parts, it is impossible it should produce Impotence by rendering the Seed cold, which it diminishes and dissipates, not so much by the Subtilty of its Parts, as by its peculiar Sulphur. The incomparable *Hoffman*, both in his *Variæ Lectiones*, and in his Treatise *de Medicamentis Officinalibus*, has treated accurately of the *Vitex*. But, if that Author had been still alive, he would have agreed with me in this, that what *Galen* ascribes to the Subtilty of the Parts, not only of all Simples, but also of such Things as act by their whole Substance, such as *Opium*, *Tobacco*, *Agnus Castus*, *Chinese Tea*, *European Tea*, or the *Myrtus Brabantica*, or the *Chamelæagnus Danica*, is to be ascribed to their small sulphureous, and excessively dry Parts. Thus the Seeds of the *Agnus Castus* affect the Head, and from what has been said, it is sufficiently obvious, that the Seeds of the *Chamelæagnus* contribute principally to intoxicate the Country People, who prepare their Ale with it: The Seeds of the *Agnus Castus*, according to *Hoffman*, "do not convey Flatulences to the Head, except when they affect it by the Subtilty of their Parts (which I call their sulphureous Quality) just as Wine, whose Taste and Smell they have, according to *Pliny*, affects the Head, and procures Sleep." All these Properties of Wine, as well as of our *Chamelæagnus*, proceed from their Sulphur, which is grateful to the Nerves: But these Effects could never be produced, only by *Galen's* Subtilty of the Parts. But to proceed, in the Words of *Hoffman*: "Another Proof of the Subtilty of the Parts of *Agnus Castus*, (which I call its sulphureous Quality) is, that its Seeds, whether crude, or toasted, discuss Flatulencies of the Intestines, and most powerfully when toasted; since these do not so much affect the Head as the former." Thus, it also happens, that an Account of the artificial and careful Toasting of the *Chinese Tea*, by which most of its sulphureous Parts are dissipated, it prevents Sleep in the *Chinese*: Whereas, the *European Tea*, or *Chamelæagnus*, renders the Country People, as it were, intoxicated, and disposed to Sleep. But these different Effects are not owing to any occult Qualities of the *Chinese* and *European Teas*, but manifestly to the sulphureous Parts, of which the *Chinese* has a far smaller Quantity than our *Chamelæagnus*. Thus, it is certain, that prepared *Vipers* may be safely eaten, and that *Dioscorides* roasted *Vipers* for Food; so vast a Difference there is between artificial Preparations, and natural Productions. But to proceed: *Hoffman*, with respect to toasting the Seeds of the *Agnus Castus*, tells us, "That in toasting, the remarkably subtile Parts are dissipated." These remarkably subtile Parts, I call sulphureous, which the *Persians* also dissipate, by an artificial toasting, from the Seeds *Bon*, or *Ban*, conveyed to them from *Egypt*. Thus, the celebrated *Hoffman*, only differs from me in Words, but not in Sentiments. The same also holds true of *Chocolate*. I, therefore, conclude, that all these Substances are of a drying Quality, on account of their sulphureous Parts. I would, therefore, advise all *Europeans* to have a due Regard to these Things, to preserve Youth by moistening Substances, and prevent old Age, which is brought on before its due Time, by Means of these drying and sulphureous Commodities; though, at the same time, I do not prohibit the Use of moderately hot Substances. Let no one condemn me for making Repetitions; since it is a Maxim, not only of Policy, but also of common Humanity, *That the Safety of the People, is, of all other Laws, the most essential and important*. If, therefore, an immense Reward was bestowed on the Man who preserved a single *Roman Citizen*, I may, certainly, hope for Indulgence, when, by repeated Expostulations, I attempt to preserve all *Europe*, by perswading its Inhabitants not to exchange our own salutary Regimen, for that of the *Asiatics*, and *Chinese*, by following their Custom of *Tea-Drinking*. *Martinus Martinius*, indeed, in his Preface to his *Atlas Siniticus*, greatly extols the *Chinese* Regimen, in the following Manner: "Their Drinks, says he, whether prepared with Water, Wine, or Rice, must always be warm; they macerate their *Tea* in particular in boiling Water, which they drink as hot as they can bear. When I was accustomed to this Regimen, I commended the *Chinese*, and condemned the *Europeans*, who are so fond of drinking cold Liquors; for, in *China*, the Inhabitants, by drinking their Liquors warm, both extinguish Thirst, and so dissipate the redundant Humours, that they hardly ever spit; nor are they afflicted with Crudities of the Stomach, as the *Europeans* are: They have also fewer, and less violent Diseases; neither are the Stone, the Gout in the Hands and Feet, and other similar Disorders, known among them." But these Things happened to *Martinius*, in *China*, and not in *Europe*. Nor shall he ever perswade me, to change the *European*, for the *Indian* Regimen. Since, according to *Martinius* himself, some of the Inhabitants of that Country, on account of the *Pythagorean* Doctrine, of the Transmigration of Souls, religiously abstain from Flesh, and think,

----*Scelus est in Viscere Viscera Condi, Congestoq; Avidum pinguescere Corpore Corpus,
Alterusq; Animantem Animantis vivero Letho.*

Martinius, therefore, makes an insufficient Enumeration of Causes; since the good Health of the *Chinese*, is not totally owing to the Use of *Tea*, but to various other Circumstances, which we shall not here enumerate: Only I shall, from the *Amphiatrídus* of *Johannes Boterius*, published in 1600, observe, "That in the various Districts of *China*, the Clemency and Salubrity of the Air is so great, that a Pestilence has never been remembered to rage universally in them." For the Sake also of those who want the sixth Part of the *Theatrum Europæum Johannis Bleau*, or the *Novus Atlas Martinii*, I shall, from the Preface of the last-mentioned Author, take the following Passage: "In Practice, the *Chinese* Physicians surpass those of *Europe*, who are more addicted to Dispute and Speculation, but less successful and happy in the Cure of Diseases, than the former." But, if a *Chinese* Physician was to practice on the *Baltick* Shore, where endemial *Scurvys* rage, it is hardly credible, that he would cure them with greater Success, than a skilful *European* Physician does; since, according to *Hippocrates*, there are many nominal, but few real Physicians. The same Author, in his *Prisca Medicina*, informs us, "That most Physicians resemble bad Pilots, who, if they steer the Vessel in a smooth and calm Sea, can prevent the Detection of their Ignorance; but, when they are attacked by blowing Winds, and violent Tempests, it becomes sufficiently obvious, that the Ship must be lost through their Fault, and Want of Skill." But to drop the Defence of the *European* Physicians, I shall return to the *Asiatics*. *Martinius* then, in the Passage last quoted, tells us, "That the *Chinese* Physicians generally prepare their Medicines of Simples and Decoctions; that they use Unctions, and Frictions, but not Venesections, which they look upon as an irreparable Error. They rather chuse to reduce the Blood to a due Temperature, by Fasting, and refrigerating Medicines; for, say they, because Broth boils in a Pot, the Broth is not, therefore, to be poured out, but the Fire to be removed from the Pot." But this Comparison is certainly far from being just: And, a little after, the Author subjoins, "In *China* are great Numbers of Chymists, who confidently boast of producing Gold, and preventing Death by Means of their Medicines. The Design of these Men is like that of their Brethren in *Europe*, to extort Money from the credulous and avaritious Part of their Fellow Creatures."

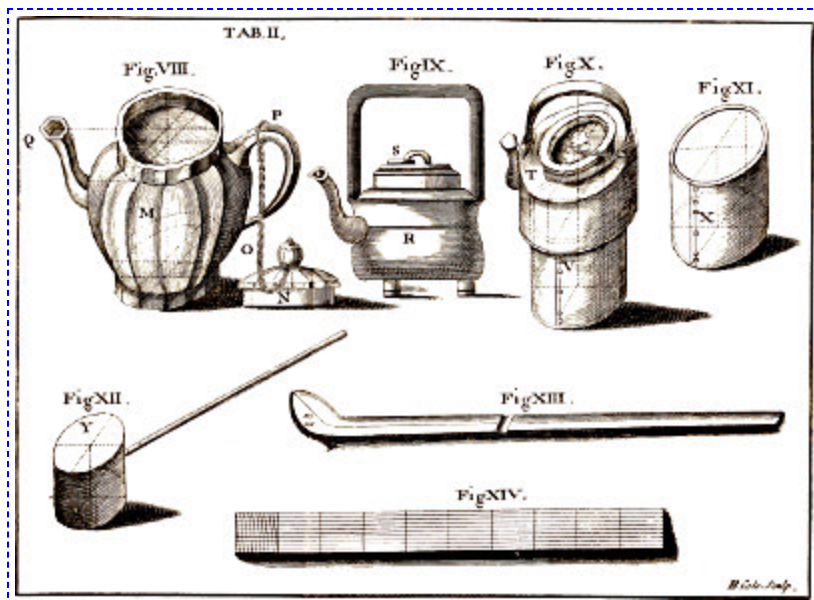
I now return, to consider the Air, Water, and Situation of the *Chinese*. *Martinius* then, in the Place before quoted, tells us, that *China*, or the most remote Parts of *Asia*, abounds with all Kinds of metallic Mines, such as those of Gold, Silver, Mercury, Iron, Tin, Copper, Minium, *Lapis Lazuli*, and Vitriol; in consequence of which, it is probable, that the *Chinese* Waters, flowing from the Mountains, as well as those of *Europe*, partake of the Qualities of the various Minerals through which they glide. Thus, according to *Georgius Agricola*, in *Lib. 10. de Natur. Fossil. Cap. 18.* at *Goslar*, in *Saxony*, there is a Kind of Bole, or Earth, impregnated with the Juice of Vitriol, as also with *Oker*. The same *Agricola*, in *Lib. 1. De Natura eorum quæ ex Terra effluunt. Cap. 4.* informs us, that the River *Ochra*, receives its Name from *Oker*, with which it is tinged, of a yellow Colour, at the Place where a Rivulet coming from Mount *Ramelus*, disembogues itself into it. Hence, it is easy to assign a Reason, why the *Goslar* Ale is so diuretic: The *Garlabian* Ale also, so much used at *Helmstadt*, is of a medicinal Nature: Hence, according to the celebrated *Hoffman*, in *Paral. Officin. Cap. ult.* "It both cures and produces Diseases in such as are not accustomed to it; for it is prepared of some hot, mineral Water, as is obvious from its peculiar Taste. On the contrary, the *Turgensian* Ale is highly agreeable; because the Water of which it is prepared has some mineral Quality, which is easily lost by Carriage; which also happens to other Waters. Hence, *Augustus*, Elector of *Leipsic*, in preparing his Ale, instead of *Malt*, ordered only a Drag to be boiled." I would not, however, have any one confide too much, either in hot or cold Mineral Waters. But among Mineral Waters, I also reckon that described by *Martinius*, in his Account of the ninth Province of *China*, called *Kiangnar*, and the fifth Town, called *Chang-chew*, in the following Manner: "Near *Kiangin* is a Mount, called Mount *Chin*, celebrated on account of a fabulous *Chinese* Story; for they assert, that a Woman was there born of a *Deer*. The Rivulet *Leang*, from a small Hill, called *Hoej*, flows into a Lake, near *Vusie*: Its Origin is a Fountain called *Hoej*, whose Waters are, by the Natives, accounted to be the second in Goodness; and I myself am convinced from Experience, that the *Chinese* are in the right, with respect to these Waters; for they are universally admired by the *Grandeés*; and hardly any Ship passes, without purchasing, for a Trifle, large Quantities of this Water, previously put up in Casks; though Strangers, who stay for any Time there, may, for nothing, drink as much as they please. It is conveyed to the most remote Provinces, even as far as *Peking*; for it is excellently well suited to the Preparation of *Tea*: So that these two Commodities are generally sold together." But surely this *Chinese* Water is to be had in no Part of *Europe*. The same Author, in his Description of the fifteenth Province, called *Junnam*, and its Metropolis, tells us, "That in Mount *Xang*, situated to the North of the Town, there is a Spring of intensely cold Water, which, however, is highly beneficial to paralytic Persons." He also tells us, that in the same Province, there is a Spring called *Hiangkui*, which, in their Language, signifies odoriferous Water, "Because it diffuses a fragrant Scent, especially in the Spring, at which Time, the Inhabitants offer Sacrifices to the Fountain, and drink

Water, mixed with Wine, or with a Liquor prepared of *Rice*. They also assert, that this Liquor cures many Diseases." That these Waters are impregnated with Metallic Particles, I have two Reasons to believe: First, Because *Martinius* informs us, that the Rivulet near the City *Vusie*, flows from a Fountain on a little Hill, called *Hoej*: The second is, that the Waters of this Lake are conveyed to the remotest Provinces, even to the Royal City, *Peking*, where they are used by the *Grande*es in preparing their *Tea*. But the best Waters, when taken from the *Spring*, cannot be long preserved from Corruption, unless they abound with a peculiar Salt: Since the cold Mineral Waters of the *Spaw*, lose much of their Virtue by being conveyed only into the Provinces adjacent to *Germany*. Thus, it is sufficiently known to all the *Europeans*, that the *May* Rains abound with Salt and Sulphur; in consequence of which, they keep longer free from Corruption than other Waters. For this Reason, it is customary among the *Papists*, to prepare their *Holy Water* of *May* Rain: See my *Digressio de Febribus Malignis*. But, lest these Reasons should be esteemed conjectural, I shall farther prove, and confirm my Opinion from *Martinius*, who, in the Place before quoted, speaks in the following Manner: "It is not without Reason that the City *Gnihing* receives that Name, which, in their Language, signifies the *Glory of the Earth*; and which was bestowed upon it, because in it are made the earthen Vessels, used in diluting, and drinking their *Tea*. The Reason why these are preferred to the *Chinese*, though more transparent, and diaphanous, is, because the former convey to the *Tea*, a certain Taste and Smell, much admired by the *Chinese*; so that the Inhabitants of that City are much employed in making them; and some of them are sold at a Price equal, if not superior, to those of *Portugal*." Since, therefore, these Vessels communicate to the *Tea*, both a Smell and Taste, which are grateful to the *Chinese*; since the Cause of Taste is a volatile Salt, and that of Smell a certain Sulphur; since this Salt and Sulphur can hardly be separated by Chymistry; and since it is peculiar to Salt to penetrate into the Essence of Things; it must necessarily happen, that the Water, taken from the Lake, or River last mentioned, and which is without any Smell, (for, if it had been odorous, *Martinius* would have mentioned that Circumstance, as he did of the third Fountain) must gradually extract the Taste and Smell from those precious Vessels, resembling *Lemnian* or *Silesian* Earth. But this Water of the Rivulet *Leang*, or of the Fountain *Hoej*, would either not at all, or with Difficulty, extract the Taste and Smell from these earthen Vessels, unless it abounded with an highly penetrating Salt, or, perhaps, a Vitriol; since *Martinius* tells us, that Vitriol Mines are found in *China*, for no Substance can communicate to another, a Quality which it does possess itself. *Tea* has indeed a Taste, though not of the grateful Kind, as is obvious from what has been said. The Taste and Smell, therefore, which the *Chinese* perceive in drinking *Tea*, do not proceed from the *Tea* itself, but from the Water, or earthen Vessels they use, or from both; from the Water, which by its Mineral Salt, extracts from the Vessels their Salt and Sulphur; and from the Vessels, which in return communicate these to the Water. For this peculiar Quality of the Earth, the City is called *Gnihing*, which, according to *Martinius*, signifies the *Glory of the Earth*. It is, by no means, surprizing to find various fragrant Mineral Earths: Thus, in the Dutchy of *Kalenberg*, in *Germany*, there is dug up a certain bituminous Mineral, which is a Kind of intermediate Substance, between Earth, Clay, and Stone; and which if it is either licked with the Tongue, or has cold Water, and especially Rain-Water, poured upon it, diffuses a Smell as fragrant as that of the Violet: The Truth of this, I know from Experience. But these precious Vessels are so rare in *Europe*, that the smallest of them are not to be purchased under an immense Sum. When, however, I understood, that *Frederic* the third, King of *Norway* and *Denmark*, had, among other *Chinese* Curiosities, two of these elegant and sumptuous Vessels; I obtained the Use of them from him, and prevailed upon *Julius Reichelt*, Professor of Mathematics at *Strasburg*, and a skilful Designer, to delineate them. This Gentleman has, with the greatest Accuracy, not only exhibited in the following Plates, these, and other *Chinese* Utensils, but also informed himself of their real Bulk, with all the Care and Pains he possibly could: But we shall give an Account of his Performance in his own Words:



TAB. I.
Fig. I.
Fig. II.
Fig. III.
Fig. IV.
Fig. V.
Fig. VI.
Fig. VII.

B. Cole. Sculp.



TAB. II.
Fig. VIII.
Fig. IX.
Fig. X.
Fig. XI.
Fig. XII.
Fig. XIII.
Fig. XIV.

"At the Request of the learned and judicious *Simon Pauli*, I have delineated some of the *Chinese* Utensils, and hope for Indulgence, because these Vessels are neither exhibited according to the Laws of Painting, nor Perspective; but in a Manner, used by Mechanics, since I thought it expedient, both for the Sake of the Subject, and the Satisfaction of the curious Reader, to have a due Regard to Capacity, and Measure. I have exhibited the Orthography of the Vessel represented by *Fig. IX.* the Scenography of *Fig. III.* of which the Orthography is represented by *Fig. IV.* In *Fig. VIII.* the Scenography of the Vessel M, and the Orthography of its Cover N, are represented; but I have only described the Scenographies of all the rest. I have used the *Rhinlandian* Geometrical Foot, to the Measure of which all the Parts of these Vessels are adjusted, in that Proportion, observable in *Fig. XIV.* which represents a smaller Foot, divided into ten Parts. *Fig. XIII.* exhibits a wooden Instrument, exactly of the same Size with the Figure. In all the Figures I have represented the Length and Breadth by Diameters and Diagonals; but the Height or Depth, by pricked Perpendiculars. I hope the Mathematical Reader will find no Fault with the quadrangular Passage B in *Fig. I.* for conveying the Air, in order to ventilate the Coals; nor with *Fig. IX.* the two Feet of which, shade other two similar to themselves."

An Explanation of the Figures, representing some Chinese Utensils.

Fig. I. Represents a Kind of Kettle, curiously made of *Chinese* Copper, furnished with a Handle, divided by a Copper Partition; and which, though at first View, it appears to be one Vessel, is yet, upon narrower Inspection, found to be two, with two Coverings; for A represents a small Furnace, into which the Coals are put; and B, the Mouth of the Furnace, covered with Cross-Bars, for the better Ventilation of the Coals. The other Vessel has its internal Surface lined, or covered with Tin, serves either for drying, or boiling the *Tea*, and is furnished with a particular small Tube, the Cover of which is exhibited by *a*; by the Benefit of which, the large Coverings, C D, being shut up, the Vapours of the *Tea* may be retained, or allowed to exhale at Pleasure.

Fig. II. E represents a Copper Vessel, in which the *Tea* is either boiled, or preserved, when dry. E represents its Tube, and F the covering of the Tube.

Fig. III. and IV. G G exhibit different Views of one and the same Vessel, the internal Surface of which is lined with a thin gilded Plate, of some proper Metal, and the external Surface, covered with Lack, after the Manner of the *Chinese*.

Fig. V. I I. No. 1. represents a genuine *Chinese Tea-Leaf* macerated, and stretched to its full Extent. No. 2. A Leaf of the *Chamelæagnus*, or what the *French* call *Piment Royal*, artificially dried.

Fig. VI. K represents another, and, in my Opinion, a spurious *Chinese Tea-Leaf*, brought from *China*.

Fig. VII. L exhibits a Leaf of what *Clusius* calls the *Spiræa Theophrasti*, found in the Green-Houses of *Copenhagen*, and so like the spurious *Chinese Tea*, with which the genuine is adulterated, that the one cannot be distinguished from the other.

Fig. VIII. M represents a curious Polygonal *Tea-Pot*, probably made of sealed *Lemnian*, or *Silesian* Earth. N its Lid joined by the golden Chain O, to its Handle P. and Q. Its Stroup curiously tipped with Gold.

Fig. IX. R represents another earthen *Tea-Pot*, with a Stroup, but of a roundish, or oblong Form, and in the Lid of which, is fixed a Ring of Clay S for taking it off and putting it on: Both these earthen *Tea-Pots* are highly fragrant; the former is of a light, and the latter of a pale red Colour.

Fig. X. T exhibits a Copper Vessel lined with Tin, capable of containing four Ounces; and whose inferior Part about the Letter V is covered with a Kind of Case, woven of such Wood as the *Europeans* use in making Sieves; but so as that the Vessel can be taken out of the Case. But I am of Opinion, that the *Chinese* pour their hot *Tea*, whether infused, or boiled, into this, in order to prevent the scalding of their Hands; and so cool the Liquor, as that it may neither burn their Lips, nor Tongue.

Fig. XI. X represents this wooden Case, or Handle, by itself.

Fig. XII. Y exhibits a small wooden Ladle, with a semicircular wooden Handle.

Fig. XIII. Z represents a small, and somewhat incurvated wooden Spatula.

Fig. XIV. represents a small geometrical Foot, divided into ten equal Parts, for ascertaining the just Proportion of the Utensils described.

It is to be observed, that these Vessels are of a grateful fragrant Smell, resembling those of the *Juniper*, *Cypress*, or *Aloes Tree*, which is certainly owing to the bituminous Earth of which they are formed. Thus we have before observed, that the *Kalenburgian* bituminous Earth is as fragrant as Violets; and that, according to *Martinius*, it is on account of the Fragrance of these Vessels, that the *Chinese* are so fond of them, and purchase them at such immense Prices. We have also taken Notice from *Tulpius*, and *Maffæus*, that these Pots, Vessels, and other Pieces of *Tea* Equipage, are, by the *Chinese*, bought at the Rate of some Thousand *Nobles*, wrapped up in silken Coverings, shewn only to their nearest Friends, and as much valued by them as Adamants, Gems, and curious Medals are by the *Europeans*. Let the *Europeans*, therefore, before they drink *Tea*, which itself is void of Smell, provide themselves with the fragrant Vessels of *Gnihing*, and the Waters of the Rivulet *Vussie*, which they must bring uncorrupted from *China*; and then, on Supposition the Air was the same, which it is not, the same Effects might be produced in *Europe* by *Tea*, as those which it is boasted to produce in *China*. It is therefore far more congruous to Truth and Reason, to suppose, that the *Chinese* are free from the Stone, Gout, and arthritic Pains, rather by the Goodness of their Water, than by their *Tea* alone, which may also contribute something to their Happiness in these Respects. Besides, the Force and Virtue of *Tea*, must be considerably impaired and lost, by the intense Heat of the Sun, during so long a Voyage, in which the *Equator* must be twice crossed, before the Ships arrive at any *European* Ports. Hence we know from Experience, that those Persons most consult the Interest of the *Europeans*, who, according to *Mercator*, in his Description of *China*, advise, that *Rhubarb*, with the best Sort of which, *China* abounds, should be brought through *Persia* by Land, lest it should be spoiled and corrupted by so long a Voyage. What must therefore happen to *Tea*, or the *Chinese Chamelæagnus*, which is in *China* frequently toasted in an Iron Pan, so as to corrugate and conglomerate its Leaves, according to *Rhodius* and *Martinius*? For, if the Virtues of *Rhubarb*, which is a compact Substance, are, by such a Voyage, exhaled, this Misfortune must much more happen to the tender Leaves of *Tea*, which are gathered in the *Spring*, and have a bitterish Taste, but no Smell. Hence we may infer, that these Leaves are, after their Arrival at *Europe*, possessed of a volatile and fixed Salt, but deprived of their Sulphur, especially the most volatile Part of it; for, if they were intirely destitute of Sulphur, they would not take Flame, nor could they be burned. The Author of a Book, intitled, *Artificia Hominum Miranda Naturæ in Sina & Europa*, in *Chap. 35.* tells us, "that in *Chekiang*, in *China*, there are Woods of *Mulberry-Trees*, so many Silk-Worms, and such immense Quantities of Silk, that a Person may there purchase ten silken Suits of Cloaths at an easier Rate, than he can have one of Cloth in any Part of *Europe*. The *Chinese* prune their *Mulberry-Trees* every Year, as the *Europeans* do their Vines; nor do they suffer them to grow up into tall Trees, because they have found from long Experience, that the Leaves of the smallest Trees produce the finest Substance for Silk, and the best Thread: For which Reason, they justly distinguish between the first and second Weaving of the Thread: The former is produced when the Worms are nourished by the Leaves which appear in the *Spring*, and are soft and delicate: The latter is, when they are fed upon the *Summer* Leaves, which are coarse and hard; so great is the Difference of Work produced by these Animals only by a Change of Food." If this Account of the Nourishment of Silk-Worms is true, as we *Europeans* find it by Experience, so it is equally certain, that there is as great a Difference between those Leaves of the *Chinese Tea*, or *European Chamelæagnus*, which appear in the *Spring*, and those which are produced in the *Summer*, as I have all along insinuated in this Work. By this remarkable Passage of the anonymous Author, I am more and more convinced, that the vernal Leaves of the *Chamelæagnus*, or *European Tea*, are possessed of different Virtues from those which appear in the *Summer*, when the Sun has entered *Leo*: And those who will not grant this Truth, are confuted by the palpable Instance drawn from the Nourishment of the Silk-Worms.

By way of Digression, I shall intreat every Lover of Truth, to throw the Leaves, (not the Shrub, Flowers, or Seeds) of the *European Chamelæagnus*, which, when dry, have no Scent upon live Coals, and do the same with an equal Quantity of *Chinese Tea*, tho' in different Rooms, and by the exact Resemblance of the Smell diffused by each, he will be convinced that the *Chamelæagnus* is a Plant of the same Species with *Tea*.

I am not acquainted with all the Acts, Statutes, and Laws, of the different Cities of *Europe*, made for suppressing and preventing the Avarice and Exorbitance of Apothecaries; only in Upper and Lower *Germany*, a certain Fine is, by public Authority, laid upon the Apothecary who sells old and mouldy Herbs, or uses any Methods to make them appear good and fresh: Nay, it is customary, in some Provinces of *Germany*, publickly to burn such Herbs,

Roots, Shrubs, or Plants as are bad, or suspected to be more than one Year old; lest the poorer Inhabitants should, like the Widow mentioned in *Luke*, Chap. viii. 43, spend all their Money upon Physicians, without being healed by any: But the Case is quite otherwise with *Tea*; for supposing it to be only one Year old, when it is put into the Ships at *China*, it must be double that Time, and often more, before it arrives to us. How great then is the Stupidity of us *Europeans*, who are never disgusted at the Avarice and Baseness of the *Asiatics*, though they should send us *Tea* as old as the *Trojan War*, whilst they use it fresh and good themselves? Besides, as the *Tea-Leaves* have no Smell, it is highly probable, that the *Asiatics* have infused and macerated them, and then dried them a second Time for the Use of the *Europeans*; since, when chewed in the Mouth, they are resolved into a Kind of gross Powder. I am also of the Opinion of the celebrated *Wormius*, who thought it highly probable, that *Tea-Leaves* were either mixed with others, or had others intirely substituted in their stead. If we are at such Care and Pains to discharge and prohibit the Sale of old *European Plants*, ought we not, with the same Rigour and Authority, to prohibit the Import of *Tea* deprived of its Smell, and long ago dried and prepared for the Use of the *Chinese*? The Man would surely be ridiculous who should import into *Europe* large Quantities of *Tobacco*, already cut small for the present Smoaking of the *Indians*, or *Americans*; or who should commend it on account of its unctuous Sulphur, or prefer it to large Pricks, made up hard and compact for the Sake of keeping; for cut *Tobacco* after it has been kept some Months and become dry, loses all its Virtue, and is despised by a phlegmatic *European*. It is also obvious from what has been said, that after the *Chinese* have toasted their *Tea*, they preserve it in close stopped Vessels, that it may not be corrupted, or too much dried by the Access of the Air: It is, therefore, the Duty of every *European* to join in engaging the Legislature to put a Stop to this epidemical Evil, and prohibit the Abuse, not only of *Tea*, but also of *Tobacco*, since both of these, and *Coffee*, as I have before shewn, so enervate the *European Men*, that they become incapable of propagating their Species, like *Eunuchs*, some of whom are highly salacious; but it is sufficiently known, that they are incapable of Procreation, tho' they emit something analogous to *Semen*. For this Reason, the *Turks* perform Castration in a different Manner from the *Italians*, since the former cut off *Penis*, *Testicles*, and all; and the latter only the *Testicles*. The Curious may consult *Bartholinus Anatom. Reformat. Lib. 1.* at the End of which, they will be informed why, and when it happens, that Horses and Bulls procreate their respective Species after Castration: The *Turks*, therefore, lest their *Eunuchs* should provide them with a spurious Progeny, treat them in a far more inhuman Manner, than the *Italians* do. Since we have mentioned the *Turks*, it will not be improper to observe, that the *Persians*, though salacious, are, nevertheless, generally impotent: For since, on account of *Polygamy*, which they have in common with the *Turks*, they have a numerous Progeny to be supported; when they copulate with their Wives and Whores, they are not so sollicitous to procure an Offspring, as, like the infamous *Onan*, to emit a vapid and unprolific Seed, which, on account of the *Coffee* corrupted in their Veins, may, by a Person acquainted with Chymical Principles, be justly compared to the Lees of Wine, in a great Measure deprived of the volatile Salt and Sulphur of the Wine: Or it may be compared to that of the *Eunuchs* of other less brutal Nations; or that of the *Scythians*, who are by *Hippocrates*, in *Lib. de Aere, Aquis, & Locis*, stiled *emasculated and effeminate Mortals*. The same Author, in the Work now quoted, assigns other Causes for the Sterility of the *Scythians*; "for, says he, they make so deep Incisions in the Veins behind their Ears, that when they come to be married, they are impotent." But *Olearius* informs us, that without this Practice, the salacious *Persians* emasculate themselves only by the Use of *Coffee*: Nor is this surprizing, since Salacity, instead of promoting Procreation, procures Sterility. Hence a common Strumpet rarely becomes pregnant, notwithstanding her frequent venereal Encounters with salacious Rakes and Debauchees. Besides, there is a vast Difference between stimulating, cold, and languid Constitutions to Venery, which is obtained by *Rocket*, and fecundating the *Semen*, which is obtained by some Vegetables, as Sweet Almonds, Pine Kernels, Pistachio Nuts, and Chesnuts; as also by Animals, as Capons, Larks, Thrushes, Kids-Flesh, Mutton, or Veal. I do not deny, but *Coffee*, *Chocolate*, and *Tobacco*, have a Power of stimulating to Venery, but may yet induce Sterility, because they consist of heterogeneous Parts, or rather act by their whole Substances: But all these Things are unfit for fecundating the *Semen*; as also all other Substances of a drying Quality, and not cold Substances, as is commonly believed. The Effeminacy and Impotence then produced by drinking *Coffee*, and smoaking *Tobacco*, are sufficiently obvious. And to these two, if I am not mistaken, good Judges will join *Tea*, because according to *Martinius*, the *Chinese* by the last not only extinguish Thirst, but also dissipate their Humours to such a Degree, that they hardly ever spit. It is also by a drying Quality, that the *Agnus Castus*, *Rue*, *Mint*, and *Camphire*, render Men impotent. Besides, *Tea* is to the *Chinese* themselves only a new Thing, whose Virtues and Faculties they have not, as yet, sufficiently investigated; for which Reason I justly prefer to it our own *Betony*, which has been deservedly celebrated for so many Ages. The *Chinese* Incapacity of Spitting is, therefore, a manifest Proof that *Tea* contains a drying, though not an intensely

hot Sulphur. I do not find it expressly affirmed by Authors, that *Chocolate*, as well as *Coffee*, produces Sterility and Impotence; since they rather assert, that it proves a Stimulus to Venery: A Circumstance confirmed by the Accounts of some Men of Learning and Penetration, upon their Return from *Africa* and *America*. But as *Benzon* informs us, "that *Chocolate* has a somewhat bitterish Taste, and refrigerates, or dries the Body, without producing the smallest Degree of Intoxication:" Hence we may reasonably infer, that as *Chocolate* agrees with *Coffee* and *Tea*, in one Third of its Qualities, so all these three exactly agree with each other, in producing Effeminacy and Impotence: But I shall not here attempt an Investigation of their other Qualities. I therefore hope, that for the future, the *Europeans* will be wise, and reject *Coffee*, *Chocolate*, and *Tea*; since they are all either equally bad, or equally good: Nay, I hope to see People of all Ranks and Conditions, have as great an Aversion to them as the *Mahometans* and *Turks*, or rather their Emperors have to *Tobacco*, the Lovers of which, as well as those who are idle, prodigal, barren, impotent, or effeminate, they will not suffer to live within their Territories. There is another Method of producing Barrenness and Impotence, probably brought from *Asia* into *Europe*, which is the indiscriminate Use of Venesection, in both Sexes, behind the Ears, for intolerable Tooth-achs. But let me tell the Persons, who, despising the Authority of *Hippocrates*, suffer, like the *Scythians*, the Veins behind their Ears to be opened, that they will afterwards repent their Folly, when they find Sterility and Impotence to be their Fate. Some practical Physicians may furnish us with Instances of Tooth-achs, accompanied with Deliriums, and other violent Symptoms; but none of them seem to have observed, that a Tooth-ach, when removed by opening the Veins behind the Ears, has proved the Cause of Sterility, as *Hippocrates*, who, according to *Macrobius*, was never deceived himself, nor imposed upon others, affirms, not of a single Instance or two, but of the whole Nation of the *Scythians*. Let, therefore, the Masters and Mistresses of Families reject the Custom of cauterising or opening the Veins behind the Ears, unless they incline that their Children should be cursed with Sterility, or Impotence, which are attended with a dire and numerous Train of Woes. So that we hope the *Europeans* will guard against Sterility; produced in the *Indies* by *Coffee*, *Tea*, and *Chocolate*; and in *Scythia* by opening, or burning the Veins behind the Ears.

Having already considered the Regimen of the *Chinese*, I shall proceed to take Notice of their Manners, Customs, and Dispositions: In the Execution of which Design I shall take my Accounts from *Martinius*, who, when treating of Quack-Physicians, affirms, that the *Chinese*, as well as the *Cretans*, are greatly addicted to Lying. The same Author, in his *Atlas Chinicus*, speaks in the following Manner: "The *Europeans* are superior to the *Chinese* in Fortitude, but the *Chinese* excel the *Europeans* in Brightness of Genius: They are also sagacious, cunning, intrepid, industrious, and dextrous, in managing sudden Emergencies: Notwithstanding their great Abundance, they collect and preserve the most worthless Things, such as Dogs Bones, Feathers, and Hogs Bristles, which they sell. Their Penetration often discovers itself by Fraud, Guile, and Imposition. Their Merchants are industrious and active, and the whole of the Inhabitants spare no Pains, and think no Labour too severe, when they have the smallest Prospect of Gain, because they always prefer Profit to Honesty. They have sound and robust Constitutions, being accustomed to Fatigue from their Infancy: Some of them are of as fair Complexions as the *Europeans*."

As I have before compared the *Chinese* with the *European* Regimen, so I should here institute the Comparison between their Manners and Dispositions, if *Barclay* had not already executed that Design with great Judgment and Accuracy: Only I must observe, that their Cunning surpasses our Prudence, and that their Fraud sufficiently evinces their Inclination to deceive us. In a word, Cunning, Avarice, and Lying, are the distinguishing Characteristicks of the *Asiatics*, who yearly defraud the *Europeans* of such immense Sums of Money for *Teas*. As *Hippocrates* spared no Pains to remove and root out the *Athenian* Plague, so I have used the utmost of my Endeavours to destroy the raging epidemical Madness of importing *Tea* into *Europe* from *China*; since I have demonstrated, that the *Chinese Tea*, and the *Chamelæagnus*, or *Myrtus Brabantica*, are Plants of the same Species. Let such, therefore, as are unacquainted with *Botany*, cease to use *Chinese Tea*, and in its Room substitute our *European Chamelæagnus*. Tho' I have not Authority sufficient to force my Opinions upon others, yet let me persuade my Countrymen to use *Betony*, which, as *Antonius Musa* informs us, cures no less than forty Disorders, instead of the *Chinese Tea*, which is without Smell, corrupted by the Length of the Voyage, and destitute of the Qualities it is possessed of in *Asia*: Nor do I in the least doubt, but the *European Betony* would happily cure those Disorders, for which the *Chinese* recommend their *Tea*. The Physicians of *China* are indeed to be commended for curing Diseases by Abstinence from Meat and Drink, and the Use of simple Decoctions, or other similar Things; because Nature delights in Simplicity, is contented with little, and overpowered by a Farrago of compound Medicines.

If I should be laughed at for my Opinions, I shall comfort myself with this Reflection, that I have always had so sacred and inviolable an Attachment to Truth, that I have chearfully gone whithersoever she led me; so that I may, with a few Variations, put a Close to this Work, in the Words of *Cicero*, in *Academ. Quest. Lib. 4*.

"If I had been induced to this Work by Ostentation, or the Love of Dispute, I ought to be condemned, not only as a Fool, but also as a vicious and immoral Man; for, if Obstinacy in Trifles is justly ridiculed, it ought to be much more so in Affairs of Importance. During the whole Course of my Life I have been impartial in my Searches after Truth, and never attempted to impose upon the Judgment of others; for I can swear by the immortal God, that I not only have an ardent Love to Truth, but also that I speak the genuine Sentiments of my Mind; for why should not I desire to discover Truth, when I rejoice to find what bears a near Resemblance to it. As it is the peculiar Glory of the human Nature, to perceive Truth in its genuine Colours; so, it is a Disgrace to Reason to embrace Falshood for Truth. I do not, however, lay claim to Infallibility, since I confess that I may err, as well as other Men."

FINIS.

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Transcriber's Notes:

1. æ and œ ligatures were used interchangeably in this text. Based on context, the transcriber chose the most appropriate ligature for each incidence.
2. Examples: All instances of Chamelœagnus were corrected to Chamelæagnus; instances of Spirœa were corrected to Spiræa; instances of Dodonœus were corrected to Dodonæus
3. Both preternaturally and præternaturally are used in the text; left as printed.
4. Minor punctuation and printer errors repaired.
5. Every effort has been made to replicate this text as faithfully as possible, including obsolete and variant spellings and other inconsistencies.
6. It is noted that, despite the title, only the treatises on Tobacco and Tea were present in this volume.

*** END OF THE PROJECT GUTENBERG EBOOK A TREATISE ON TOBACCO, TEA, COFFEE, AND CHOCOLATE ***

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