I.HORTUS INDICUS MALABARI-CUS, continens Regni Malabarici apud Indos celeberrimi omnis generis Plantas Rariores &c. Amstelodami, Anno, 1678

His excellent Work giveing account of the most rare and strange Trees and Shrubs of the most fruitful and flourishing Country of Malabar in the East Indies, by their descriptions. Vertues, and whatever else hath been observed remarkable, hath been especially promoted by the noble and ingenious Governour of the same H. Henry Van Rheede, who made his utmost endeavours to find and learn out not only from his own observations, but by the advice and affiftance of the most learned men of the Country, what might prove exact and true concerning this Subject, not only to please the Curious with those Monsters of Vegetables expressed therein, but for the help to Mankind by their excellent Vertues. But through the various Employments of this Noble Person, himself not able (to his desire) to performe such a taske (tho accomplished and curious in drawing and defigning as well as other parts) earnestly desiring to prosecute the same, he called to his affistance the most experienced and learned Father Mathem of the Order of St. Joseph a Carmelite, whose long inclinations to these Studies had raised him to a great perfection of knowledge, who upon the request of this noble Person opened his Treasure of Skill as well in his swift and most lively designing, as in other parts of this worke; To which our present Author Johanes Casiarius adjoyning his accurate hand in supplying the defects of others with his knowledge hath compiled and fet forth this

this admirable work with very apt descriptions and caured the most essential parts of each (viz.) the Flowers, Fruits, and their Cases, to be also engraved in large Copper Cuts generally as big as the Life, 57 in number, each whole Sheet opened containing but one Plant and its parts, most excellently done (they having had most Skilful Painters upon the place,)to which are added the Latine, Malabarick, Arabick and Braman's names. And for that part concerning the Vertues the Author hath fet forth in their own Language, and with the Translations thereof, the Testimonies. of the most learned men of the Country, as Father Mathem the Carmelite, Ranga Botto Vinaque, Pandito, & Apu Bandito, à Braman, and Itti Achudem a Doctor of Chegu &c. whose fidelity Dr. Christian Herman, and D. Manuel Carnier (men of credit and fince returned home) by fetting their hands to the Translation of their Testimonials out of their original Languages have certified to the World the truth of these Relations.

And for the better completion of this Laudable Worke, that most curious and exact Person whose name should not be mentioned without an Encomium Dr. A. Seyn Physick and Boranick Professor lately at Leyden in his Epistle complaining of the defect in some other Authors of the connection and consent of others who have also formerly written on the same Subject, hath been pleased wonderfully to satisfy the World and shew his great learning in illustrating this Worke with his notes upon each Plant and his thoughts of the same, wherein he hath shewed what Authors have formely written of it, and what is new, who gives a great Character of the Worke and that an Egg is not more like an Egg than the Plant to these Figures, which he desires you to look into this Garden and behold.

Wherein our Author first gives a large account of a sort of Palm-Tree which he calls Tenga, whose Fruits are much coveted by Elephants, and the Trees Eradicated by them for the same. From the Juice or Liquor of which Tree they there make divers sorts of Drinks, one especially which

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they call Suri, a Liquor of a grateful Sweetness mixed with Acidity strong and inebriateing as Wine, which whilst new is Sweet in the Morning, Sowre by Night; one day somewhat acid, the next day sweet, but after due Fermentation past, proves an excellent moderate Drink, helpfull in Feavers, very pleasant and wholsome, which by distillation they improve to be spirituous as Brandy. Of this Tree and its several parts are Four several Plates.

Dr. P. Herman now Professor at Leyden sent from thence a leaf of another sort of Palm by them called Carin-pana 30 Feet long, and moderately extended 9 Feet broad.

Another fort called caunga of which and its several

parts are Four Figures.

A Fourth fort called Ampana is a very fruitful Tree bearing an innumerable Stock of round Fruits exceeding tharp of tast and biteing to the Tongue.

A Fifth fort he calls Schunda pana.

A Sixth called Bala with plain streight leaves undivided, whose Roots boyled prove very helpful to those who are troubled with Vertiginous sits, sharpness of Urine, and

whose bodies have been infected with Quick-Silver.

He tells us of the largest of Canes which he calls Hy, supposed to be that which C. Bauhine calls Arundo Arborea, an example whereof D. Herman sent over from thence, saying that the Portugals have corruptly named it Bambu or Bamboes, which he entituled Arundo Indica arborea cortice spinoso, and tells us that they call it Nuayhas, which is the Ague Tree from its effects upon those who wash themselves in those Waters wherein the Leaves have fallen; but they turne it also to good use by makeing a Decocion of the Leaves, which seemes one of their best dispersers of coagulated blood, either inwardly or outwardly taken, and from the pithie part in the middle of the old ones they make an excellent Medicine against the Strangury and sharpness of Vrine. The Leaves hereof seem different from others of this Nature being not above an hands

hands length and a fingers breadth, growing in bunches upon pedicles or foot Stalks out of the several Joynts, and he reports that about 60 years after the sowing hereof it bears its Flowers all in a Months time, and its Seeds, divesting its selfof its Leaves, wholly dies away Root and Branch.

There is a Cane of this in the Gallery of the Garden at Leyden 26 or 28 Feet!ong, and in the Musaum Ashmolianum at Oxford one not much less being 8 or 9 Inches Diameter, both which have certainly lost a great part, one end not

much exceeding the other in bigness.

They have a Tree or shrub which they call Appel or Nal la Appella, which serves for many excellent uses. The Oyl extracted from the Roots is of a Gold yellow colour, of a most grateful smell, somewhat of sharp tast mixed with a little bitterness, easeth the pains of their Heads and almost any other parts of the Body, all Aches comeing from Cold, the Gout, Spleen, of the Bowels, very prevalent against

Agues, Feavers &c.

Another which he calls Carua, which D. seyn thought good to call Laurus Zeilanica, vel Malabarica baccis calyculatis ex qua Cinamomum, of which great things are related and the diversitie observable: from the Roots they extract Camphore and the Oyle thereof; from the Bark of the Tree, Oyle of Cinamon; from the Leaves, Oyle of Cloves; from the Fruits, Oyle like that of Juniper; also a thick fat Oylie Substance like Wax serveing for makeing of Unguents, Plasters, Candles &c. This Tree serves, as also diverse others, both for external and internal uses.

Divers of their Trees flower twice a year, and some are productive all the year of very Sweet and Odoriferous and strangely shaped Flowers and Fruits, some whereof are, and some not, reduceable to our European method of Trees and Plants. But Providence seems admirably kind to those hot Gountrys in provideing them with such rare cooleings and Cordials profitable against Feavours, Calentures,

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and such like distempers as may probably arise, rare Antipestilentials, Excellent Oyles, Liquors &c. for corroborateing and exhilarateing the Bodies and Spirits of menwhereof any defirous Reader may farther fatisfy himself in the perusal of the Worke.

Horti Indici Malabarici pars secunda, &c. Amstelodami 1679.

The second part of this Laudable Worke hath been especially collected and promoted by that great Senator Hen. van Rheede, to whose counsel and affistance the before mentioned John Casearius being called bath continued his expressions of skill in describing the rare and unknown Plants of that Country, some whereof have been formerly mentioned by some others, as C. Bauhine, Prosp. Alpinus, Pisos Fontius and the late Jac. Breynius, but not with that cleerness and exactness as these long inhabitants upon the place have proved willing and able to do, as by their excellent Sculptures, clear Descriptions, and their excelent Vertues, may to the Reader more largely appear.

But alass the loss of that Curious and Learned Notifier D.A. Seyn, whose ingenious notes so illustrated the former Booke, being Snatched away by untimely Death in the Flower of his Age, had render'd the Work imperfect, had not an ingenious Successor D. I. Commelinus risen up in his place, who very well confidering the necessitie of prosecuting a Worke so well begun, hath given good demonstration of his reading and learning by comparing and adjusting these exotick Rarities to what others have formerly said of

them, and added his notes upon the same.

In this part are 56 large and excellent Figures drawn and cut to the Life, each one employing a whole sheet holding but one Plant or part of a Tree, which feem to be as

big as the life and well designed as in the other also. When he hath occasion to express a Tree he maketh a part of a large trunck or body cut off, with a Limb or Branch springing out, bearing the Leaves, Flowers or Fruits, or what is observeable, which seems a much more expressive way than to contract and abbreviate a whole large Tree to so

little a compass as other Sculpturs usually do.

Our Author gives account of a rare Pl nt which he calls Kaida whereof there are several sorts which are kinds of Anana's, which our Travellers know by the name of Anana's, which our Travellers know by the name of Indian Pine-Apples. Of the first he gives 8 Figures to express the several Growths and Parts of the same, growing a considerable heigth, divideing its self into divers branches, from the naked parts of which (which are transparent that a man looking up may see the Skie through them) it drops down new rooty matter which touching the earth takes fresh hold for its farther procedure, (as is observable in the Sedum arborescens majus when it grows well) the flowers are pleasantly sweet, and the fruits frowing at every branches end are received among their delicacies, and desired by Elephants.

A second sort called Kaida taddi beareth large fruits bike clusters of the fruits of the true Pine-tree set together.

Thirdly Perin-Kaida-taddi whose fruit grows in large unches but with lesser scales, not distinctly apart as the other.

Fourthly Kaida-tsjera, which seem (as well as the rest of Bis) somewhat odd names pretending to be Latines the fruits of this sort become large long Cones with a stiff forked prickle upon each scale, and are pleasant fruits to eat.

He tells us of a beautiful Shrub about 8 or 10 feet high bearing clusters of flowers, which are of divers colours, as red, scarlet, white and shaded with degrees of these colours, as is the plant with us called the Marvel of Peru.

Also three forts of Hummatu which are kinds of Daturasone with prickly fruit but round, two other with smooth
fruits

fruits oval; the leaves serve for many external and some internal uses; the Seeds are of a Soporiferous quality, as the known Datura.

Here are two forts of Ericu mentioned, which are A-pocynums, whose seed vessels the Arabians call Beid el Ossar, which others name Beidelzar, which is Apocynum majus Syriacum rectum Cornuti.

Avanacu ceu Citavanacu of our Authorais Ricinus Americanus of others, of which here are several forts and shapes.

He sets forth among many others a curious Shrub called Nandi-Ervatam major & minor bearing large odoriferous slowers, for whose sweetness they are entertained into their gardens, one whereof was brought over and presented to the Frince of Orange, and did, if not doth grow in his Garden at Honseleardick which our Annotatour calls syringa Malabariensis lastescens flore niveo pleno odoratissimo.

Divers others are set forth worth observation whose descriptions are good and whose vertues seem to be peculiar,

if not specifick.

Horti Indici Malabarici pars tertia &c. Amstelodami Anno 1682.

This third part the before mentioned Excellent H. van Rheed hath dedicated to the Indian King in whose Dominions himself lived several years, and there collected, and made his observation of what that Country afforded, who hopes by his promise of true relation that his account of so many new and most wonderful plants and trees may not be apprehended an ungrateful work, since the greatest part thereof are such as have not been mentioned by any European Author, complaning of those who stuff the world with new books of formerly known Subjects.

In his survey of the Woods and Mountains with no small pleasure, he could not but observe almost every tree

to be different, sometimes seeing some 80 feet high or more of a very considerable thickness seeming but one body, but bearing 10 or 12 different sorts of leaves, slowers, fruits &c. Which seemed amazeing at first, but from better examination they proved to be so many several sorts growing up Hederaceously together, complicateing themselvs into one body, others with their boughs falling to the ground or drepping roots from their branches growing up again employing a large space of ground, and sometimes so neatly growing that they seemed rather to be a stately Palace with its curious Pillars and Arches, than an incultivated woods which Timbrella's Providence hath wondersully bestowed on these hot Countries which are very pleasant and fruitful as if each part were cultivated by skilful and industrious hands.

This rich Country he tells you is extended from the City of Goa to the Comorine Promontory 120 German miles, and bout 30 broad, abounding in all necessaries both for meat medicine. He seems mighti'y to commend the unexpessible cunning of their government, their Theology and Boliticks so well mixed, one depending upon the other, that

the same may in probability hold to the worlds end The two first parts of this work were especially compiled by the Reverend and skilful D. J. Cafearius a Divine in the City of Cochin (where then lived D. P. Herman the pre-Ent Botanick Professor at Leyden, a person of excellent experience and skill, and no small instrument in this work with his assistance there) which D. Casearius then dying before the finishing of the work D. van Rheed took to his Mistance the well experienced D. J. Munnicks now Professor at Vtrecht for the prosecution and completion of his designed work, to which D. J. Commelinus hath bestowed? his curious Notes, but tells us that this third volume should have been more properly the second, confisting most of trees as the first doth; and the second should have been the last containing Shrubs and Plants, in which are 64 whole theet plates of Sculptures rarely done. A alles ed remon In

In this Volume our Author fets forth trees more unufual and seemingly strange than in either of the other. At first he presents you with a monstrous Palm tree which he calls Codda panna, five Palma montana Malabarica, and fays that about the five or fix and thirtieth year of its age it rifeth to be about 60 or 70 feet high wth plicated leaves near round, 20 feet broad; wherewith they usually cover their Houses, and part of one leaf makes a Book, between whose tolds they stamp their Characters entring the outward Cuticle and there remains the impression, which proves most durable or Records or the like, but bearing neither flowers nor fruits in that time; out of the top bud whereof rifeth forth a new Stem which in 3 or 4 months time becomes 30 feet high; about which time the leaves fall off, & there appears a plaine, naked , upright, ftreight tree, from the fides of which new shoot, in about 3 months more spring forth divers naked streight parts from every side round, the lower whereof may be 20 feet long, Whereof there is a large pattern in Mr. Ashmoles Museum at Oxford. Afterwards these branches are adorned with abundance of small white flowers growing in bunches or bundles most pleasant to behold, which falling away are succeeded by great store of round fruits hanging on the small branches of an Oseous substance with plump Kernells in the middle, which being eaten cause Vomiting, and not of much use. This may probably be that mentioned by C. Bauhine, Arbor folijs fex brachiorum longis, cujus folio extenfo tres quatuorve viri in itinere operiuntur ut pluvias non metuant.

To express this so notable a thing and all its parts, the

Author hath employed 12 plates.

There is another which is referred to the Palmes very strange, called Todda-panna; to set forth its several parts, shapes and transimutations, our Author hath bestowed nine plates, the whole growing about 30 feet high, with a strange body about a foot and half or 2 feet diameter, with many joints and as it were Florizontal articulations.

Another he calls Katou-Indel, which is also referred to

the Palmes with a Plum like Fruit, to shew the parts of

which he gives 4 Plates.

Tsiaka-maram & Pilau Malabarensibus 3 Iaqueira Lusitanis; is a large Timber Tree, bearing its fruits somewhat extraordinary hanging out of the body of the tree and large branches, not on the small branches as other trees do, each one a cubit long of an oval form all over prickly of which our Author particularizeth the parts on the three Plates.

He tells us also of a Tree of a vast bigness which he calls Atti-meer-alou, of 50 feet commonly in circumference, whereof there is one in the Provine of Cochin by the Temple Baykam, which they say hath been there growing 2000

years. Ma Many other things might have been observed as things every unusal in these parts of the world, which we leave Downloaded from the leave the curious Reader farther to satisfy himself of, from the work it self.

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top inflance he fays, that the eroding quality of Oils her than dearm woos not usite from the acid of thole oils. distributed are respectively to machine and their as can produce all those Effects, which are commonly had to its

II. Epistola ad D. Joelem Langelottum DE ALCALI ET ACIDI INSUFFICIENTIA pro principiorum corporum Naturalium munere gerendo, conscripta à Johanne Bohn Phil. ac Med. Doct. & in Acad. Lips. Prof. T.

The ingenious Author of this Epiftle; in pursuit of his design, do's. blow and to ever all the interior of this end of the pursuit of the control of the con

- which are given of the two great Duellists of Natures. Aleali and Acidum, by the favourers of this Hypothesis; if every thing, which ferments with anacid, be an Alcali, how comes it to pass, that Spirit of Salts or Spirit of Vitriol causes a fermentation, and precipitation, when mingled with a solution of Lunas or Venus, made with Aqua-fortis, or Spirit of Nitre? and, if whatsoever coagulates with an Alcali, be an acid, whence is it, that Liquor Nitri sixi, or ol. Tartariper del. sturns Milk? and that Spirit * coagulates with ol. Tart. per deliquium.
- 2. He afferts, that those actions, which are imputed to Alcali and Acidum, do many times belong to such bodies, as partake of little, or nothing, of those Principles; for instance, he says, that the eroding quality of Oils per Expressionem, does not arise from the acid of those oils, there being not (as he says) so much acid in them, as can produce all those Effects, which are commonly laid to its charge.

 3. He

offer well not bear that 3. He affirms that there is an absolute necessity of intro. ducing (at least) one active Principle more; without which it is impossible to explain several Phanomena of Nature, particularly the inflammability of Spirit of Wine, which (he fays) cannot proceed from any acid, that is in it, (as the friends to this Hypothesis would perswade us) for Spirit of Wine well Tartariza, burns away as readily, as that which is of an equal strength with it, and is not Tartariz'd at all.

The Author has hit on many things, which the Honorable Mr. Boyle thought fit to make use of in his [Reflections Supon the Hypothelis of Alcali, and Acidum which track was Printed in the same year with this Epistle, and may very Sproperly be consulted for a farther satisfaction in this sub-

est Koman one, both the Gift of the learning

- VINISINE ACIDO&c.

 Demonstratio curiosa.

 Demonstratio curiosa.

 The Author of this little Treatise (which is joyned with the Epistle before mentioned) does prove, that there is no Acid in Spirit of Wine.

 1. By affirming, that Spirit of Wine, altho cohobated from its acid, if it had any at all) does still afford an Offafrom its acid, if it had any at all) does still afford an Offa alba, when mingled with spirit of Vrine.
 - 2. By giving an Analysis of spirit of Wine, which discovers it to be an oil dissolved in Phlegm, having nothing at all of an acid in it.

3. By shewing, that this Offa alba will not bear that Test, which a Coagulum arising from an Alcali, and an Acid, will undergo for, when brought to the Fire, it immediately dissolves.

Advertisement.

SInce the Printing the first sheet of this Transaction, the Altar there Engraven and Explained, together with another ancient Roman one, both the Gift of the learned and judicious Interpreter Martin Lister Esquire, are safely arrived at Oxford, where they will speedily be set up, together with some others of the Worshipful Elias Ashmole Esquire, in the Court before the Museum by Him lately surnished.

OXFORD,

Printed by LEONARD LICHFIELD, Printer to the University, and are to be sold by Hen. Rogers at the Sign of the Bible in Westminster Hall, and Sam. Smith at the Princes-Arms in St. Pauls Church-yard.

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