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SOME

PAPERS

PROPER to be Read before the

R-L SOCIETY,

Concerning the

Terrestrial CHRYSIPUS,

GOLDEN-FOOT or GUINEA;

AN

INSECT, or VEGETABLE, refembling the Polypus, which hath this furprifing Property, That being cut into feveral Pieces, each Piece becomes a perfect Animal, or Vegetable, as complete as that of which it was originally only a Part.

COLLECTED

By PETRUS GUALTERUS,

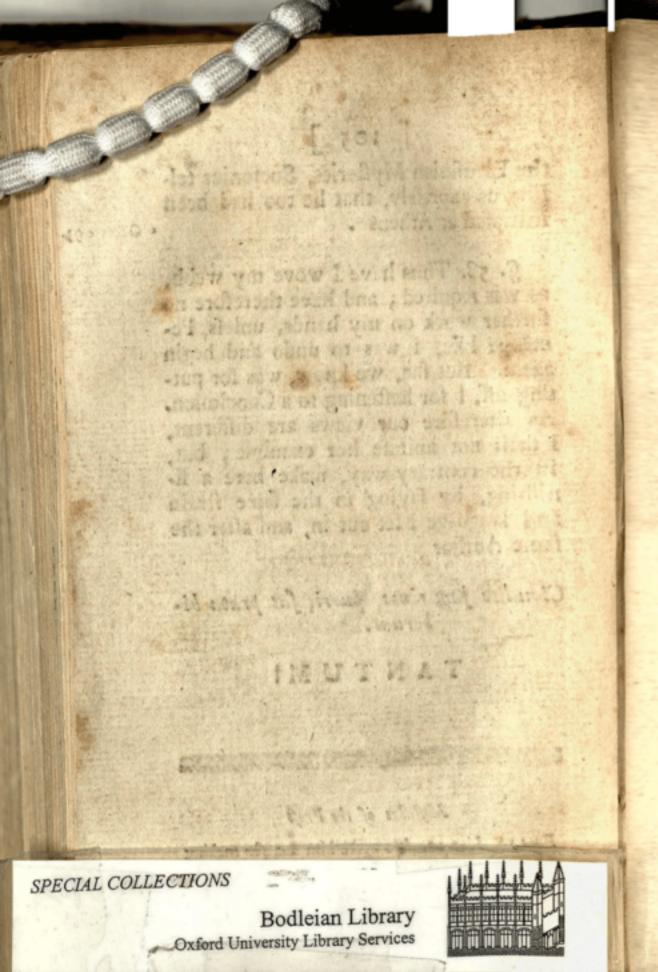
But not Published till after His Death.

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For the YEAR 1742-3.

The CONTENTS.

Several Papers relating to the Terrestrial Chrysipus, Golden-Foot, or Guinea, an Insect, or Vegetable, which has this surprising Property, that being cut into several Pieces, each Piece lives, and in a short time becomes as perfect an Insect, or Vegetable, as that of which it was originally only a Part.



The CONTENTS.

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Abstract of Part of a Letter from the Heer Rottenscrach in Germany, communicating Observations on the Chrysipus.

mentioned Petrus, after bis Dualby:

So I R, word ad room blues ed ret

Some time since died here of Old-Age, one Petrus Gualterus, a Man well known in the Learned World, and famous for nothing so much as for an extraordinary Collection which he had made of the Chrysipi, an Animal or Vegetable; of which I doubt not but there are still some to be found in England: However, if that should be difficult, it may be easy to send some over to you; as they are at present very plentiful in these Parts. I can answer for the

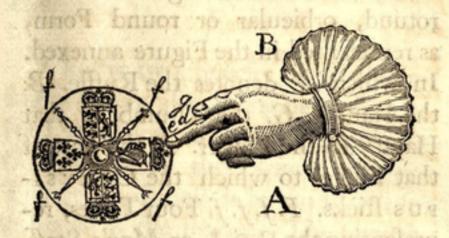
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Truth of the Facts contained in the Paper I fend you, as there is not one of them but what I have feen repeated above twenty times, and I wish others may be encouraged to try the Experiments over again, and satisfy themselves of the Truth by their own Eyes. The Accounts of the Chrysipi, as well as the Collection itself, were found in the Cabinet of the abovementioned Petrus, after his Death: for he could never be prevailed on to communicate a Sight of either while alive. I am, Sir, &c.



The Figure of the TERRESTRIAL CHRYSIPUS sticking to a Finger.



Observations and Experiments
upon the Terrestrial
Chrysipus, or Guinea,
by Mynheer Petrus Gualterus.

Translated from the FRENCH by P. H. I. Z. C. G. S.

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HE Animal in question is a terrestrial Vegetable or Insect, of which mention is made in the Philosophical Transactions for several Years, as may be seen in No. 000.

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Art. 0000. and No. 00. Art. 002. and No. --- Art. 18.

This Animal or Vegetable is of a rotund, orbicular or round Form, as represented in the Figure annexed. In which A. denotes the Ruffle. B. the Hand. G. the Thumb of that Hand. D. the Finger. E. the Part of that Finger to which the CHRYSI-PUS sticks. F. f. f. f. Four Tubes, representing the Ties, *, or Man's Staff, mentioned by Galen in his Treatife de Usu Partium; and by Aristotle, in that little Book called his 'ApxiBi-Brior, or Master-Piece. The To Snauwor, or Woman's Pipe, an oblong perforated Substance, to which the faid new directly tend, is represented by the Letter C. The Mouth of the Chrysipus is in this anteriour Middle, it opens into the Stomach, which takes up the whole Length of the Body. The whole Body forms but one Pipe, a fort of Gut which can be opened but at one end, i. e. at Letter C.

THE Size of the Body of a Chrysipus varies according to its different Species.

I know two Species only, differing in Extent almost one half; which, for Distinction sake, I call the Whole Chrysipus, and the Hemi-Chrysipus. The latter of these is by no means so valuable as the former. The Length of the new differ likewise in proportion to the different Size or Extension of these two.

Growth are so imperfect and invisible to the naked Eye, that it is much to be feared the Species will soon be entirely lost among us: And indeed in England, they are observed of late to be much rarer than formerly, especially in the Country, where at present there are very few of them to be found: but at the same time it is remarked, that in some Places of

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^{*} See Philof. Transact. concerning the Arbor Vita, anno 1732.

the Continent, particularly in a certain Part of Germany, they are much plentier; being to be found in great Numbers, where formerly there were fcarce any to be met with.

I have not, after the minutest Obfervation, been able to fettle with any degree of certainty, whether this be really an Animal or a Vegetable, or whether it be not strictly neither, or rather both. For as I have by the Help of my Microscope discovered fome of its Parts to refemble those of a Lion; I have at other times taken notice of fomething not unlike the Flower de Luce. Not to repeat those Parts above-mentioned, which bear great Analogy to the ALSola of the Human Body. On their Extremities (if they are not very old) may be feen certain Letters forming the Names of feveral of our Kings; whence I have been almost inclined to conclude, that these are the Flowers mentioned by Virgil, and which

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which appear to have been fo extremely scarce in his Time.

Dic quibus in terris inscripti nomina Regum

Nascuntur flores.

Particularly as he adds,

-Et Phyllida solus habeto.

Of which we shall take notice hereafter, when we come to speak of its Properties. What hath principally disfluaded me from an Opinion of its being an Animal, is, that I could never observe any Symptoms of voluntary Motion: But indeed the same may be said of an Oyster, which I think is not yet settled by the Learned to be absolutely a Vegetable.

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Bur though it hath not, or feems not to have any progressive Motion of its own, yet is it very easy to com
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municate a Motion to it. Indeed fome Persons have made them fly all over the Town with great Velocity.

What is faid of the Polypus, in a late excellent Paper communicated to the Royal Society, is likewise applicable to the Chrysipus.

'THEY make use of their progressive Motion, when communicated to them, to place themselves conveniently, so as to catch their Prey. They are voracious Animals; their new are so many Snares which they set for Numbers of small Insects.

As foon as any of them touches one

of the new, it is caught.'

But then it differs from the Polypus in the Consequence: for instead
of making the Insect its Prey, it becomes itself a Prey to it; and instead of conveying an Insect twice as
large as its own Mouth into it, in
imitation

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Chrysipus is itself conveyed into the Loculus or Pouch of an Insect a thousand times as large as itself. Notwithstanding which, this wretched Animal (for so I think we may be allowed to call it) is so eager after its Prey, that if the Insect (which seldom happens) makes any Resistance, it summons other Chrysipi to its Aid, which in the end hardly ever fail of subduing it, and getting into its Pouch.

THE Learned Gualterus goes on in these Words: 'A Chrysipus, by the simple Contact of my own Finger, has so closely attached itself to my Hand, that by the joint and indefatigable Labour of several of my Friends, it could by no means be sever'd, or made to quit its Hold.'

As to the Generation of the Chryfipus, it differs from all other Animals or Vegetables whatever: for though The second of th

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though it feems the best supplied for this natural Function, Nature having provided each Female Part with sour Male ones, which one would think sufficient; yet it may be said, as of the *Polypus*, they have no distinguished Place by which they bring forth their Young.

marks *: 'I have (fays he) fome of them, that have greatly multiplied under my Eyes, and of which I might almost fay, that they have produced Young-ones from all the exterior Parts of their Body.

Attention to the two Species of them, that all the Individuals of these Species produce Young-ones.

'I have for Sixty Years had under my Eye Thousands of them; and though I have OBSERVED THEM CON-STANTLY, AND WITH ATTENTION, (15)

fo as to watch them Night and Day,
I never observed any thing like the

common Animal-Copulation.

'I tried at first two of them; but ' these I found would not produce a 'compleat Chrysipus; at least I had reason to think the Operation would be fo flow, that I must have waited ' fome Years for its Completion. 'Upon this, I tried a Hundred of them together; by whose marvel-' lous Union (whether it be, that they mix Total, like those Heavenly Spirits mentioned by Milton, or by any other Process not yet revealed ' to human Wit) they were found in the Year's End to produce three, four, and fometimes five complete · Chrysipi. I have indeed often ' made them in that Space produce 'Ten or Twenty; but this hath been by fome held a dangerous Ex-' periment, not only to the Parent 'Chrysipi themselves, which have by these means been utterly lost and · de-

Vid. Remarks on the Polypus, pag. 6.

destroyed, but even to the Philo-

fopher who hath attempted it : For

as fome curious Persons have, by

' Hermetic Experiments, endangered

the Loss of their Teeth, so we, by

a too intense Application to this

Chrysipean Philosophy, have been

fometimes found to endanger our

Ears.' He then proceeds thus:

* ANOTHER Fact, which I have observed, has proved to me, that

they have the Faculty of multi-

' plying, before they are sever'd from

their Parent. I have seen a Chrysipus,

fill adhering, bring forth Young-

ones; and those Young-ones them-

felves have also brought forth others.

Upon Supposition, that perhaps

there was some Copulation between

the Parent and Young-ones, whilst

they were yet united; or between

the Young-ones coming from the

Body of the fame Parent: I made

divers Experiments, to be fure of

the Fact; but not one of those Ex-

'periments

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e periments ever led me to any thing

that could give the Idea of a Co-

pulation.

I now proceed to the Singularities resulting from the Operation I have tried upon them.

A Chrysipus of the larger kind may be divided into one and twenty Substances (whether Animal or Vegetable we determine not) every Substance being at least as large as the original Chrysipus. These may again be subdivided, each of them into twenty four; and what is very remarkable, every one of these Parts is heavier, and rather larger than the first Chrysipus. The only Difference in this Change, is that of the Colour; for the first Sort are yellow, the fecond white, and the third refemble the Complexion and Substance of many human Faces, and eats, ageers?

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* Remarks, Pag. 7.

THESE subdivided Parts are by some observed to lose in a great degree their adherescent Quality: Notwithstanding which, Gualterus writes, that, from the minutest Observations upon his own Experience, they all adhered with equal Tenacity to his own Fingers.

THE Manner of dividing a Chryfipus differs, however, greatly from that of the Polypus; for whereas we are taught in that excellent Treatife abovementioned, that

* If the Body of a Polypus is cut into two Parts transversly, each of those Parts becomes a complete Polypus: On the very Day of the Operation, the first Part, or anterior End of the Polypus, that is, the Head, the Mouth, and the Arms; this Part, I say, lengthens itself, it creeps, and eats.'

'THE fecond Part, which has no Head, gets one; a Mouth forms itfelf, at the anterior End; and shoots forth Arms. This Reproduction comes about more or less quickly, according as the Weather is more or less warm. In Summer, I have feen Arms begin to sprout out 24 Hours after the Operation, and the new Head perfected in every respect in a few Days.

'EACH of those Parts, thus become a perfect Polypus, performs
absolutely all its Functions. It
creeps, it eats, it grows, and it multiplies; and all that, as much as
a Polypus which never had been
cut.

'In whatever Place the Body of a Polypus is cut, whether in the 'Middle, or more or less near the 'Head, or the posterior Part, the C 2 'Ex-

Experiment has always the same Success.

IF a Polypus is cut transversly, at the same Moment, into three or four Parts, they all equally become fo many complete ones.

Cut at the same time into a great
Number of Parts; I therefore did
it successively. I first cut a Polypus into sour Parts, and let them
grow; next, I cut those Quarters
again; and at this rate I proceeded,
till I had made 50 out of one single
one: And here I stopp'd, for there
would have been no End of the Experiment.

I HAVE now actually by me several Parts of the same Polypus, cut
into Pieces above a Year ago; since
which time, they have produced a
great Number of Young-ones.

es, produced from each of thefe · A Polypus may also be cut in two, lengthways. Beginning by the · Head, one first splits the said Head, ' and afterwards the Stomach: The · Polypus being in the Form of a · Pipe, each Half of what is thus cut ' lengthways forms a Half-pipe; the anterior Extremity of which is ter-' minated by the half of the Head, the half of the Mouth, and Part of the Arms. It is not long before the two Edges of those Half-pipes close, after the Operation: They generally begin at the posterior Part, and close up by degrees to the anterior Part. Then, each Half-pipe becomes a Whole-one, complete: A Stomach is formed, in which nothing is wanting; and out of each · Half-mouth a whole-one is formed

'I HAVE seen all this done in less
than an Hour; and that the Poly'pus

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Halves, at the End of that time did not differ from the Whole-ones, except that it had fewer Arms; but in a few Days more grew out.

Worm as long as itself.

beginning at the Head, and the Section is not carried quite through; the Result is, a Polypus with two Bodies, two Heads, and one Tail.

Some of those Bodies and Heads may again be cut, lengthways, foon after. In this manner I have produced a Polypus that had seven Bodies, as many Heads, and one Tail. I afterwards, at once, cut off the seven Heads of this new Hydra:

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Hydra: Seven others grew again; and the Heads, that were cut off, became each a complete Polypus.'

'I CUT a Polypus, transversly, into two Parts: I put these two Parts close to each other again, and they reunited where they had been cut. The Polypus, thus reunited, eat the Day after it had undergone this Operation: It is since grown, and has multiplied.

Polypus, and the anterior of another, and I have brought them to
reunite in the same manner as the
foregoing. Next Day, the Polypus
that refulted, eat: It has continued
well these two Months, since the
Operation: It is grown, and has
put forth Young-ones, from each
of the Parts of which it was formed.
The two foregoing Experiments do
not always succeed; it often happens,

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pens, that the two Parts will not join again.'

· In order to comprehend the Experiment I am now going to speak of, one should recollect, that the whole Body of a Polypus forms only one Pipe, a fort of Gut, or Pouch.

I have been able to turn that Pouch, that Body of the Polypus, INSIDE-OUTWARDS; AS ONE MAY LTURN A STOCKING.

I HAVE several by me, that have remained turned in this manner; THEIR INSIDE IS BECOME THEIR OUTSIDE, AND THEIR OUTSIDE THEIR INSIDE: They eat, they grow, and they multiply, as if they had never been turned.'

Now in the Division and Subdivifion of our Chrysipus, we are forced

(25) to proceed in quite a different manner; namely, by the Metabolic or Mutative, not by the Schystic or Divifive. Some have indeed attempted this latter Method; but, like that great Philosopher the El-

der Pliny, they have perished in their Disquisitions, as he did, by

Suffocation. Indeed there is a Method called the Kleptistic, which

hath been preferred to the Metabolic: But this too is dangerous;

the Ingenious Gualterus never carried it farther than the Metabolic,

contenting himself sometimes to divide the original Chrysipus into

twenty two Parts, and again to

fubdivide these into twenty-five;

but this requires great Art.

IT can't be doubted but that Mr. Trembley will, in the Work he is pleased to promise us, give some Account of the Longevity of the Polypus. As to the Age of the Chry-

to

Chrysipus, it differs extremely; some being of equal Duration with the Life of Man, and some of scarce a Moment's Existence. The best Method of preserving them, is, I believe, in Bags or Chests, in large Numbers; for they seldom live long when they are alone. The Great Gualterus says, he thought he could never put enough of them together. If you carry them in your Pockets singly, or in Pairs, as some do, they will last a very little while, and in some Pockets not a Day.

*WE are told of the Polypus,
'That they are to be look'd for
'in such Ditches whose Water is
'stock'd with small Insects. Pieces
'of Wood, Leaves, aquatic Plants,
'in short, every thing is to be taken
'out of the Water, that is met with
'at the Bottom, or on the Surface of
'the Water, on the Edges, and in
'the

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the Middle of the Ditches. What is thus taken out, must be put into a Glass of clear Water, and these Insects, if there are any, will soon discover themselves; especially if the Glass is let stand a little, without moving it: for thus the Insects, which contract themselves when they are first taken out, will again extend themselves when they are at Rest, and become thereby so much the more remarkable.

The Chrysipus is to be look'd for in Scrutores, and behind Wainfeotes in old Houses. In searching for them, particular Regard is to be had to the Persons who inhabit, or have inhabited in the same Houses, by observing which Rule, you may often prevent throwing away your Labour. They love to be rather with old than young Persons, and detest Finery so much,

D 2 that

Polypus, pag. 1 2.

that they are feldom to be found in the Pockets of laced Clothes, and hardly ever in gilded Palaces. They are fometimes very difficult to be met with, even though you know where they are, by reason of Pieces of Wood, Iron, &c. which must be removed away before you can come at them. There are, however, several sure Methods of procuring them, which are all ascertained in a Treatise on that Subject, composed by Petrus Gualterus, which, now he is dead, will shortly see the Light.

I come now, in the last Place, to speak of the Virtues of the Chrysipus; In these it exceeds not only the Polypus, of which not one single Virtue is recorded, but all other Animals and Vegetables whatever. Indeed I intend here only to set down some of its chief Qualities; for to enumerate

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merate all, would require a large Volume.

First, then, A fingle Chrysipus stuck on to the Finger, will make a Man talk for a full Hour, nay will make him fay whatever the Person who flicks it on defires: And again, if you defire Silence, it will as effectually stop the most loquacious Tongue. Sometimes, indeed, one or two, or even twenty, are not fufficient; but if you apply the proper Number, they feldom or never fail of Success. It will likewife make Men blind or deaf, as you think proper; and all this without doing the least Injury to the feveral Organs.

Secondly, It hath a most miraculous Quality of turning Black into White, or White into Black. Indeed it hath the Powers of the Prismatic Glass, and can, from any Object, Service of the servic

Object, reflect what Colour it pleases.

Powder in the World, and hath fuch Efficacy on the Female Sex, that it hath often produced Love in the finest Women to the most worthless and ugly, old and decrepit of our Sex.

To give the strongest Idea in one Instance, of the salubrious Quality of the Chrysipus; It is a Medicine which the Physicians are so fond of taking themselves, that sew of them care to visit a Patient, without swallowing a Dose of it.

To conclude; Facts like these I have related, to be admitted, require the most convincing Proofs.

I venture to say, I am able to produce such Proofs. In the mean time,

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time, I refer my curious Reader to the Treatife I have above mentioned, which is not yet published, and perhaps never may.

DINIS.

