Some Observations

Concerning the Organs of Generation, made by Dr. Edmund King. a Fellow of the R. Society, and by DrR eguerus de Grieff, Physitian in Holland; which later occasioned the publishing of the former.

The Observations of the former we shall here declare, as be presented them in writing to the R. Soc. the 17th of December 1668, which was as follows;

Ou may remember, that about 3. weeks fince I brought the Testiculos Cuniculorum marium dissected in several shapes; which app ar'd to several or this illustrious Company, as well as to my felf, to be indeed made up of Vessels; and I then had particularly show'd them to M. Hook and some others, and the manner how they lay; who seem'd to be fully satisfied by the help of a good Glass, they then made use of And being defired, to give in the Account in writing, I cannot but affirm here, that I find the Vesse's in the Testes of this kind of Animals to lye in round folds, in the manner of the little intestins, but both ends of each roll meeting at their infertion, which seems to be made into the Ductus Nervosus: And every one of these little rolls are very curiously embroidered with other vessels, which I Judge to be Veins and Arteries by reason of their reddish colour; appearing in them even to the bare Eye.

These little rolls ly in ranges, having a kind of uniformity not unpleasant to behold by a good light. But I do not mean, that every one of these rolls is one entire tube. but on fifts of many tubes, besides the said Embroidery of Veines and Arteries: For, when I cutt one of the said rolls transvesse, there seem'd to me (and so, I suppose, will the do to any, that think it worth examining,) 5.6, or more distinct tubes in one roll, contain'd as 'twere, in one common membranula; but the fine texture and tenderness of them is such, that they will not admit of expansion in such a manner, as some other Testes will, and especially as that of a Ratt is said to doe by Dr de F if ff 2

they are really made up of vessels, though of never so many sorts, I humbly conceive you will not think the Experiment lost, because I suppose the chief thing intended by these trials to be, that it may be well known, what indeed the Body of the Testes is made of; Whether indeed it be a Congeries of Vessels and Liquors without any intermediate substance, as was afferted by me to many of this Honorable Company, several years agoe, concerning most if not all parenchymous parts, which was inserted in Numb. 18 of the Ph. Transactions, since which time I have made several Experiments of the same kind, about the Testes, the Pancreas, and other so esteem'd Glands; and as sur as I have examined them, I find them to be only a Texture of since Tubes or ducts, with more or less liquor, without any other substance.

But perceiving, the Testes of several Animals to be variously composed and intertext; I proceeded ad Testiculos Tauri, which I have diffected and ordered several wayes; some boyled, others broiled, others insused in Spirit of wine, hot and cold; &c. and upon the best examination, I can make, I cannot see any of this intermediate substance, or indeed any thing else,

that is not Vessel or Liquor.

Now in obedience to your comands, I have added another Experi nent, and that is Telticuli humani, (the exact knowledge of whose stability as suppose to be chiefly aimed at in this kind of Inquiry,) hoping to prove it clearly, and perhaps to put it out of dispute. That it is nothing elst tuta Congeries of Vessels of various sorts, and their several Liquors; and that there is no such thing as an intermediate substance (by what name soever it be called;) And to de nonstrate this, I think, it will evi-

* See Fig. 1. which reprefents only the 4th or 5th part of what was exhibited of the same testis after the same manner with this on Glass. dently appeare to the bare Eye, by what I have here expanded, * which is the true genuine substance Testiculi humani, I mean, the Body of it, after the Tunica albuginea is removed, without any addition or diminution, excepting only

what Liquors are dryed up during the time of the Expansion, which colud not be prevented in making such a Scheme of it,

is this is. And this is continued from one end to the other of the Glass, on which you see it exhibited, in several places, without bre kind; which breaking yet does not at all prejudice the truth of the Experiment. And although I had not time to open every part, which you see to be like that substance, I denv; yet I can o der it so, as to show you with ease, that that also i nothing but Congeries of Vessels, as aforesaid, not yet o-

pened; fix on what part you please.

And if it should be objected, that this may be drawn out into seeming Vessels, which yet may not be really such; I answer, that these Vessels have the same appearance in the Body of the Tesses, as to denote them such, before they are drawn out; and in the extension it does sometimes so happen, that one of them will extend easily near halfe a yard long, before it breaks, though so exceeding delicate and tender, as you may imagine: And when it is thus extended, it hath a kind of resemblance of the corrugations of the Epididymis, and keeps the same sigure and magnitude in the whole extent of them, as to the sight, unless they begin to dry, and then you may see them loose their girations upon stretching: as you may see of both sorts on the Glass above mentioned.

And if the greatest part of these Vessels are Arteries, or other Vessels, that immediately receive liquors from them; I may prove, I think, from another Experiment, made by Injection into a part of the Arteria praparans, before I began to expand the Body of the Tesses, whereupon opening the part, which I saw discoloured, I found, that many of these Tubes had received some of the sine particles of that matter, which I tinged my injected Spirit with.

And to prevent another Objection, that might arise, viz. That these particles might possibly change their colour only cutwardly; I used other endeavours to assure my self, that the said particles were indeed included within the Cavities of these tubes. In the doing of which, I did moissen those two Tubes with Spirit of wine, to see whether that would remove or alter those particles; but finding no such thing, I prickt an open'd with a fine needle part of the containing tube; we ereupon I saw issue forth several of those liquid particles afore-mentioned

tioned: Which affures me farther that this is a mere Scheme or

Congeries of vessels.

I have made several other Experiments of this kind, about other parts of the Body; not to mention the Muscles, Heart, and Kidneys, because I suppose, that sew men will now undertake for a parenchyma in them. And as I have opportunity, I shall shew, I hope, that all sorts of Glands (so called) are nothing else but Vessels (and their Liquors) variously wrought, and receptacles of several Liquors for diversuses; the difference of which alters their Colour, Confistence &c. My meaning is, that there is in no reputed Gland any other thing, than in the Body of the Testis, viz. That it hath not this or that intermediate substance, but that the Liquors, regularly come and goe to and through them in fine tubes (in such and such heaps and figures, as may make them appeare so and so form'd in several parts of the Body, where they are scituated;) As also, that the more conspicuous Vessels of the Body have other vessels, that help to make up their Coats, and serve for the nourishment of the same, besides such, as import or export those liquors, for the conveyance of which they were defigned for commonuse. But of this hereafter, as occasion shall serve.

So farr Dr King: As to Dr. de Graeff, we shall deliver what he lately imparted to us upon this subject, in his own words, extracted out of his Letter dated Fuly 25. 1669. at Delft: accompanied sum Testiculo Gliris dissoluto, & transmisso

in Spiritu vini; represented in Fig. II.

Quod Clar. D. Clarck ait, Se parenchyma (quod succum quendom denotare dicit affusum vel effusum & aliquomodo concretum in vasculorum & fibrillarum interstitiis,) in Testiculis vi orum & aliorum etiam animalium, testimonio sensum ostendere posse; hoc Ego, pace tanti viri dixero, nonnisi Autopsià edoctus admittere possum. Quandoquidem sapissime Hominum aliorumque Animalium testiculos, exceptis tenuissimis quibusdam membranulis, ita dissolverim, ut ne umbra quidem talis parenchymatis remaneret; imò, quod magis est, quorundam Animalium testiculos ita disolvist visus acie ne quidem membranula illa conspicerentur. Et ut verba mea factis comprobem, mitto ad Te Ghris testiculum meo modo dissolutum, ut videas, an Glandula tales in Testibus (qua-

les proponts Clar. Dn. Clark in Epist. sua, 18. Maji. 1668. Transactionibus Philosophicis inserta) vel etiam Parenchymatale, quale in Epist. sua 10. Maji, 1669. describit, reperiatur. In hunc fere modum reliquorum Animalium Testiculos disolvere possum, câ tamen diversitate, ut in nonnullorum Testibus aliqua membranula tenuissima, & in quorundam, radix praterea Epidi-

dymidis Highmori remaneat.

So farr these two industrious Physicians; which though it looks very fair to evince, that the Testes of Animals are made up of nothing but Vessels and their liquors, yet doth our Learned and Inquisitive Dr. Timethy Clarck, and divers other Ingenious and expert Anttomists and Physicians still doubt, whether that be so indeed, considering that not only it cannot be denved, that this curious heap of Strings or suppos'd Vessels was at first cov'red all over with a Mucous matter (which in fo fine and tender a part may well be thought to serve for a parenchyma,) but also that Monsieur de Graeff must himself grant, that in the said part there are found certain smal M mbrans besides those Vessels, he is afferting; such another substance being conceived to be highly necessary to serve for a medium, whereby that compounded liquor, which from the greater Vessel pasfeth into the minute arteries, nerves and lympheducts of the testes, may be secreted, and according to the different nature and figure of their several particles conveyed into those several small and subtil v sfels.

An Extract of a Letter

Written by the Learned Dr. William Durston, Physitian at Plimouth. to the Right Honorable the Lord Vice-Count Br uncker as President of the R. Society; concerning a very sudden and excessive Swelling of a Womans Breasts.

My Lord

Lord Ambassed to the commonds of the Right Honorable the Lord Ambassed dour for Barbary, I present your Lordship with a Phamonenon and matter of test in Nature, which, for its rarity and prodigiousness, may, with a lesser check to me from your Lordship for the presumption, and a lesser regret for the avocation.

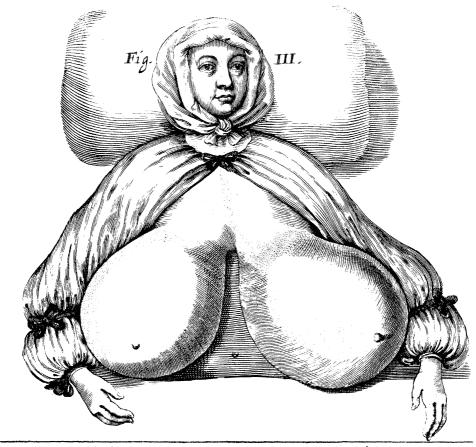
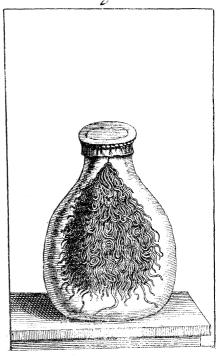


Fig. I. Fig. II.







Philosophical Transactions

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