to have found it a much other thing, than they imagined, though related to them viva voce by those who had formerly been there.

I shall add, that the whole country from the very Walls of Catania to 20. miles on this side is sull of those old Sciarri, which former Eruptions have cast forth, though the people remenber none so bigg as this last, or that burst out so low. This Country is notwithstanding well cultivated and inhabited; for length of time buth either mollisted much of those old Sciarri, or new mould or ashes have overgrown them; though there still remains much Country, which, it may be, will never be made serviceable.

What is the perpendicular hight of this Mountain, I cannot learn. It cannot perhaps be rightly taken, being so subject to alter its height and shape. But it is a very goodly Mountain to look upon, as one passes by Sea to the East-ward, standing alone by it self, rising from the very shore; and at shortest passage is reckoned 20, miles up to the top, though from Catania it hath 30, miles, as before.

An account of two Books

I. DISCOURS de M. STENON sur L'ANATG-MIE du CERVEAU. A Paris 16²9, in 12.

IN the beginning of this Discourse the Author represents, that I those, who search after solid knowledge, will find nothing fatisfictory in all that hath been hitherto written concerning the Brain: that all, which Anatomists agreein, is only, that it confifts of two Substances, a White and a Grayish, and that the former is continued with the Nerves, that are distributed through the whole Body; and the latter serves in some places for a kind of Cortex to the White, and in others, severs the white filaments from one another. But that they are yet ignorant, what those substances are; in what manner the Nerves are Joynedia the White; and how farr their extreamities advance in it; from which disposition yet depends all the diverfity and variety of our fensations and motions. And as for the Ventricles or Cavities of the Brain, he affirmes them to be no leis unknown, than its Substance; some Anatomists lodging ing in them the Spirits, others making them the receptacles of the Excrements of the Brain, and both perplext in afficing the fource and Issue of the Excrements, and the Spirits, and the

manner of the production of the latter.

Besides this, he finds a great desect in the way of dissecting the B ain, and having shewed the impertection in the common ways, he proposes and recommends that (though dissicult one) of continuing the filaments or threds of the Nerves through the Substance of the B.ain, to see, where they pass, and where

they terminate.

N xt, he entertains the Reader with an Enumeration of the chief Errors of Anatomista conclung the brain. And here he examins particularly the Systemes of Dr. Willis and Monsieur Des-Cartes. In the former be takes special notice, that the Author the cotlodges the Common sense in the corpus Striatum; et e Imagination in the Corpus Callo (um; and the Memory in the Grayish Substance which encompasses the White. But then he declares, that these affertions are very obnoxious; for whereas Dr. Willis describ's that Corpus striatum, as if there mere two so ts of streaks or Rays, some ascending, some descending, he finds, that a separation being made of the Gray body from the White, those Rays will be found to be all of the fimenature, that is, they make part of the White substance of the Corpus Callosum which passes towards the Mirrow of the Bick, separated in divers Layers by the intervening of the Grayish Substance. Which being so, laith be, with what certainty can we be made to believe, that those thee Operations are performed in those three Bodies: And who can tell us, whether the nervous Fibres have their beginning in the Streaked Sody, or whether they rather pass through the Callous Body into the Gray Substance:

In the latter of M. Des Cartes, he finds, that that Philofopher hath rather devised, in his Treatise of Man, such an Engine, that performs all the actions, Men are capable of, than described Man, as really he is; which he undertaketh to prove by div rs instances, taken from the Cartesian subrick of the parts of the Brain: in the doing of which our Author showes great degrerity, skill, and accuratenes. And from hence he

proceeds,

To observe the want of exactness in the Cutts or Figures, hitherto given of the Brain: and although he acknowledgeth, that the best Figures, hitherto made of that part, are those of Dr. Willin, yet he finds several faults committed here and there, and conceives, there are many things to be added for making them perfect: which certainly this able Anatomist will consider surther, and according to his Ingenuity, as he shall see cause, rectify, if the Author of the Book, restected on, prevent him not.

Having thus discussed the hitherto practifed way of dissecting the Brain, and the litle light to be derived thence, together with the defectiveness of the Figures belonging thereto, he lexveth it to the Consideration of Judicious men, what faith is to be given to the Explications made upon such unsolid foundatiens; and that done, he declares, which are the two only ways for attaining the true knowledge of an Engine; viz. one, by having the contrivance of it discovered by the Author himselt; the other, by taking it in pieces to the very least parts, and examining them all both feverally and joyntly. not being to be expected, he excites the Lovers of real knowledge to the careful performance of the latter; excusing in the mean time those two sorts of persons, that hitherto have addicted themselves to Anatomical researches, viz. Physitians and Chirurgions, for not having made satisfactory discoveries by their labors, and alleadging on their behalf their want of rime requisite for this purpose; the ill consequence of which he represents to be, that they often undertake to cure a Body, of which they know not the Structure, which is no better, (saith he) then if a man would repair or wind up an Engin, the parts of which he is ignorant of. And as for Professors of Universities or other Schools, he Judges them not so proper for that particular application, and the variety of methods of dissecting; both which is necessary for examining every the smallest part, and the observeables thereof; there being sometimes required whole years for finding out one onely thing, that perhaps may afterwards be demonstrated to others in one hour; which he exemplifyes by divers instances of Discoveries, made by some of the modern Anatomists.

He concludes his Discourse by recommending the method which seems best and most convincing to him, for making true Discoveries in Anatomy; where he adviseth, that for obtaining the true history of the parts, we should examine and accordingly draw them in that State, in which they are sound naturally, without at all forcing them; thereby to find, whether the parts are indeed joyned together or separated, and what situation is assigned them by Nature it self. Where he desires, that the Anatomist would not only be intent upon the part, on which he is for the present employed, but also resect upon all the Operations, he hath made before he came to that part, which may have caused some change or other in the same, as to its scituation, connexion &c. Of which he also alledges divers Examples, especially as to the Brain.

Besides this exact attention on all the Operations, he surther counsels the Change of the ways of Dissecting, and deduceth the ill consequences of binding ourselves to certain fixt Laws of dissecting each part; this benefit resulting from that Change, that if it doth not always discover something new, it lets us know at least, whether we have been deceived in what we have seen formerly, especially in things dubious and contested. Of the necessity of this Change he brings manifest proofs; and having done so, he alledges the reason why he says nothing of the Use of the parts of the Brain, nor of the actions called Animal; it being impossible to explain the motions, that are made by an Engin, if the artistice of the parts be not known, and those Anatomists rendring themselves ridiculous, that discourse so magisterially of the Use of the parts, of which they know not the structure.

Last of all, he observes, that when all this, he hath discoursed of is done, that is but the least of what is to be done; in regard
that for the acquiring of some good Knowledge of the Brain,
there must be Dissections and Examinations made of as many
Heads, as there are different species's of Animals, and different
states and Conditions of each kind; since that in the fetus's of
Animals it will be seen, How the Brain is formed; and what could
not be seen in sound and entire Brains, may be seen in such, as
have been changed by sickness.

II. Instead of the other Book, of which we purposed to give here

au Accompt, we find our selves oblieged somewhat to enlarge that which was, for want of more leisure, too cursorily given in Numb. 49. of Dr, Witties Answer to Hydrologia Chymica, concerning the Scarbrow Spaw. To do therefore right to this Worthy person, we ought among other things to take notice of what he saith in his Presace; That when he first published his Book, he had found the Scarbrough Spaw, even in 20. years Experience, to be eminently successful in the Cure of very many diseases, which had resisted all rational Methods, that had been used either by himself, or others of his Faculty. That now his Practice had been near 30. years, and that now he can add some considerable Cures, which he hath not hitherto

expressed.

Now to follicit this Learned Doctor and others for their farther Discovery's of Sanative Waters, and to add weight to the Argument; we may observed, that A. 1634. Dr. Tholias Whitaker, a famous Physitian of Normich, Published in English a discourse the services or Of Drinking Mineral Waters; particularly reslecting upon a Mineral Water then discovered in Norfolk, and producing the Joynt-advice of all Antiquity (as he pretends,) at least of the best Writers, namely of Hippocrates, Galen, Avicenna & generally against all use of Mineral Waters either to be taken inwardly, or for any outward application. This Discourse is recommended by the express approbation and elogies of Dr William Clement, Fellow and Register of the Colledge of Physitians in London, and by Dr. Alex. Read Fellow of the seme Colledge.

This may give fit Caution against the rash Use of such Waters, when ordinary Medicins may be effectual; and to take the advice of skilful Physitians in the Use of them. And for the Poor, which are not able to retain Physitians, nor to pay Apothecaries, they must abide the adventure of repairing to those kind Fountains, which doe not unfrequently cure, when all other costly and tedious Methods doe saile. And bere they may find the Suffcage of many Curious and inquisitive Authors, and the evidence of much Experience: Here they may see the real and great performances of Cures, and what are the particular Cures, what the particular Ingredients, and what the mixtures, together with the several

ways of Analyling the Waters &c.

As to the Sanative Properties in general of many Minerall Fountains (besides the numerous Experiments of all sorts of people for many Ages in some places, and of late discovery in other places) Dr. withis recites the Judicious testimony of Dr. French and Dr. Dean concerning the Knarlborough Spam; Doctor fordan concerning the Baths in Somerset-shire; Dr. Heer's Spadocrene; Doctor Frambesarius and Dr. Ryetius of the Sauvenir in Germany, Dr. Fallepius de Therm. Aquis and the Sp. is in Germany and Rome, de Lalneo Appairano, and the water at Cool na: O such waters in general, Paraellas and Helmont: And this Letters with Entire time of St. Mingo's Well at Cockgrave. To which we

may now add Astrap-well in Northumpton, lately discovered, to zether with that at Stall-bridge in Somersetshire, which last begins also to be in high esteem for extraordinary Cures of the Scorbute, Asthma & which, besides common same, is (as we were freshly informed by a worthy friend) attested by Dr. Highmore, who affirmes also upon his own Tryal, that it hath a larger proportion of the Minerals, than Astrap-water; but that the force holds not, if removed from the Spring-head. And Dr. Wittie hath himself sufficiently afferted the Vertues of the Scarborough-Spaw; and particularly, that it cured the Asthma, Inveterate Catharrs, Hesticks, Consumptions, Seurvy, Dropsy, and other diseases, when they seemed incurable: That an Alderman of Hull (to whom himself, and the famous Dr. Primrose, were, 15, years agoe, joyntly Physicians for the Asthma) had in few days perfect cure by the Spaw, and is yet living to youch the testimony: So that all the neighbourhood are taught by frequent experience to sing the old Song of Claudian, which he made for his Aponus.

Publica morborum requies, commune medentum Auxilium, præsens Numen, inempta Salus.

And this old Record may put us in mind, that lofty Groves and head ling Fountains have been reputed. Holy in old times, and we can show the Hospitals, which have been long agoe built and endowed on purpose to entertain the poor piffengers in their travels to fuch waters. This I had not here mentioned, but to introduce our Authors weighty remark; That these Waters loole all their virtues, yea their quantity and bulk also, though in Glasses, and under the Hermetick Seale, if removed from the Fountainhead; that then they became fuddenly putrid, ill-colored, loofing the talk and f nt, and being very noxious, and begetting the J undife and worse disfeases The like is affirmed by Dr French, that the Knarsborough Water expires through Glass and the firmest Seales. And Dr. Heer affirmes of his Spadocrene, that by such removals, illas a communibus nihil discrepasse, ut quibus fingulis lagenis aqua vitrum (which is gueffed to be half a pint) decefferat. He adds; Decedit etiam quantitati-si fons hic alio transferaturquia (piritu turgentia plus loci quam eo privata, occupare amant. And Fran: befarius reports as much of the Sauvenir, that in bottles well healed up, there wanted to every lagena (flisk) one Glass of its measure (doubtless through the loffe of the volatile Spirits.) Here we want instruction. Whether the decrease was as well of Weight as of Bulk or Quantity.

Whatever these Spirits be, which will neither endure to travel from the place, nor will be confined in any botle, not under any Seal; Dr White undertakes to evince by good Proofs, and manifold indications; that these Searborough waters have a mixture or tincture of Iron, Allum, Nitre, and probably of a small dose of Common Salt: Nay, he affirmes punctually (p. 175) as upon his own Experiment, that 5, quarts of this water contain at the least an Ounce of Minerals, and in dry years, 10, draws; And yet that the usual dose for women to remove the Green schools as a properties of the contains and some properties of the contains and the contains an

quarts of water, and sometimes more,

He further voucheth his own Trial (p. 179.) that Knarsborough water hath 2. Ounce of Salt in a Gallon, though it be 40. miles distant from the S.2: And that he hath found also by tryal the 16th part of the Nothern Sea water near scarborough to be a body of Salt (an Ounce of Salt for every pint;) and he conceives the Souther Seas to contain a greater proportion of Salt. Here we must distinguish, that the 2. Ounces of Salt above mentioned, to be found in every Gallon of Knarsborough water, belong to the Well there called the Sulphur-well: And for the healing properties of the Sweet well (as they call the other Well at Knarsborough) he refers to the Ingenious and illustrious Experiments of Dr. French and Dr. Dean.

All which being confidered, we cannot but add, that whoever discovers such healing waters, and publickly prescribes the safe and right use of them, does really distribute larger and nobler Almes, than is the built and endowed a Savey. For this prolongs life, and restores health, (which is sometimes better than life) both to rich and Poor, to Na-

tives and strangers, to Neighbors and Travellors.

We cannot take off our hands here, without annexing our Authors related Experiment of Carps (p. 25.) which were taken out of Pends newly drained, and being put with fresh watter into a Copper Brewing-vessel, to be preserved but for one night, were all found dead in the morning. This he imputes to the poisonous steams of the Copper communicated to the cold water.

Among the Caules of Hot-springs, he doth (p. 181.) alledge a confiderable remark on an Observation, made by the late Lord Fairfax, of some heaps of White powder, which he found sweat out of the Earth near Bath (in Some stetshire,) which being put into the water, makes it hot; as my self (faith the Dottor) did experience. or

6. years after his Lordihip had taken it up.

As to his last Experimental Demonstrations and Observations, How the fall of Rain and Snow may generally and most frequently be the cause of our purest, liveliest and most lasting Springs, they doe all agree most punctually in all circumstances, with the Experiences and Observations of an Antient and very Worthy Gentleman, who lives on the fide of Mendip hills, and hath had his Eyes always from his Youngest days upon the fairest and fullest Sources and Amnery's, I say not of Mendip but I think I may fay of this Island. This Gentleman hath given to a friend of his the Instances and Particulars under his own hand, both for the Springs about Mendip, and in other parts of England; and hath many other Antient Witnesses to joyn with him in the same Certificate. And yet Dr. Wittie attributes much (some will lay, more than enough) to the Conversion of Air into Water in the Subterraneous Channels: For the Idustration of which he himself knew a Sergeant, belonging to Hull, who in a Liabete did void above 6. quarts or 12. pounds of llrine every 24 hours, fr tome weeks together, till all his Musculous parts were dissolved into Urine; the measure whereof did farr exceed the weight of his whole Body, and of his Meat and Drink: In all this time he drank not 3. pints of drink in a day. I know not whether I date allea ig here Sir Kene'm Digby's relation, he recited of the Nun, which voided 200 pounds of Water, 35 from her bladder, every 24, hours, for some weeks together: or that Older record of a fick Maid in Italy, who did every day voyd 36. pints or pounds of Urine for the space of 60. days; during which time there were collected 1740. pounds of Urine more than the weight of all her Meat and Drink, that the had taken. Horum & similium sides penes Authores este-

ERRATA in Numb. 50. to be thus corrected

Ag. 1001. l. 14. read Hippocrates. p. 1005. l. 11 r. as farr as the Tropick. p. 1007. l. 25. r. (from the Lizard) p. 1 09. l. 14. r. are not many. ib. l. 20. r. hints, easily p. 1012. l. 14. r. not very rare.) p. 1013. l 16. r. this kind ib. l. 18. r. to breed. ib. l. 21. r. histine p. 1015. l. 22. r. their head. p. 1019. l. ib. r. Zwelfer. ib. r. Pharmacopæa.

LONDON,

1 i ted by T. N. for John Marryn P inter to the Royall Society, and are to be fold at the Bell a little willout To the Bar, 1669.