

This way, as it is much simpler, so 'tis by the Author esteem'd much more expedient than the former, by reason of the Sulphury-saline quality of Iron, which by Grinding being open'd and highly subtilized, acts the more powerfully upon the most solid body of Gold, and attracts withall the Salt that is in the Air in greater plenty, than can be done in a Glais or Golden Mortar. And if it be objected, that by that long continued Grinding the steely particles are worn off and commixt with those of the Gold; The Author would have it consider'd, how great a Cognation there is between those Sulphurs, and also, how great is the Use of Digestion, separating the pure from the impure, and withal exciting that occult fire of *Mars*, well known to the true Searchers of Nature; which, being assisted by the *Alcool* of Wine, is able to concoct the little immature portion to a due maturity.

*An Extract of a Letter of Mr. Lister to the Publisher, both enlarging and correcting his former Notes about Kermes; and withal insinuating his conjecture of Cochineil's being a sort of Kermes.*

Sir,

WE must correct as well as enlarge our Notes concerning *Kermes*\*; and yet there will be much difficulty in resolving the question concerning the Original and Efficient of *Kermes*. These things are certain:

\* Compare herewith, what was publish'd in No. 71. p. 2165. No. 72. p. 2177. especially No. 73. p. 2196.

1. That we have this year seen the very Gumm of the *Apricock* and *Cherry-lawrel-Trees* transudated, at least, standing in a Crystal-drop upon some (though very rarely) of the tops of these *Kermes*.

2. That they change colour from a yellow to a dark-brown: that they seem to be distended and to wax greater, and from soft, to become brittle.

3. That they are fill'd with a sort of *Mites*; that small powder (which I said to be Excrement,) being *Mites* as well as that *Liquamen* or softer pulp (which I took to be Bees-meat;) concerning both which particulars I am pretty well assur'd by my own, and also by my ingenious friend, Dr. *Johnson of Pomfret's* more accurat Microscopical Observations.

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4. That

4. That the *Bee-grubbs* actually feed on *Mites*, there being no other food for them.

5. That there are other *species* of *Bees* or *Wasps* besides those by me described; which are sometimes found to make these *Mites* their food: *Dr. Johnson* having open'd one *Husk*, with one only large *Maggot* in it.

6. That there are probably different sorts of *Mites* in these *Husks*, making possibly different *species* of *Kermes*: For, some I have found to hold *Carnation* colour'd *Mites*, enclosed in a fine white *Cotton*, the whole *Husk* starting from the *Twigg*, shrivelling up, and serving only for a *Cap* or *Cover* to that company of *Mites*. Other *Mites* I have seen white, and (which is most usual) the *Husks* continuing intire and not coming away from the *Twigg* they adhere to, and but little *Cotton* at the bottom. Those of the first sort are the white *Cob-webbs* on the *Vine*, described by *Mr. Hook Micrograph. Obs. 56.*

7. That the shrivell'd *Cap* to be found upon the *Mites* enclosed in *Cotton*, as also the whole *Husk* itself, if taken early in *April*, while soft, will, dried in the *Sun*, shrink into the very figure of *Cochineil*: Whence we guess, that *Cochineil* may be a sort of *Kermes*, taken thus early and sun-dried.

Hitherto this *Summers Notes* concerning *Kermes*. This advantage at least we may have by them; that the account, taken from *M. Verney* by *Dr. Creon*, and publish't in one of the *Transactions*,\* is made more intelligible: the small *scarlet powder*, there mention'd, being to be understood of those *Mites*; and they to be distinguish't from the *Bee-grubbs*, which are chang'd into the *Skippping Fly*, that is, the *Bee*, (for kind at least) by us described formerly, I am, &c. *York Octob. 9. 1671.*

An Extract of a Letter Written to the Publisher by *Mr. Thomas Platt*, from *Florence*, August 6. 1672. concerning some Experiments, there made upon *Vipers*, since *Monf. Charas* his Reply to the Letter written by *Signor Francesco Redi* to *Monfieur Bourdelet* and *Monfieur Morus*.

Sir,

I shall begin with telling you, that in a *Conversation* last *Winter*, where I had the good fortune to make one of the number, the discourse was of an *Opinion* of *M. Dela Chambre*, who,

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