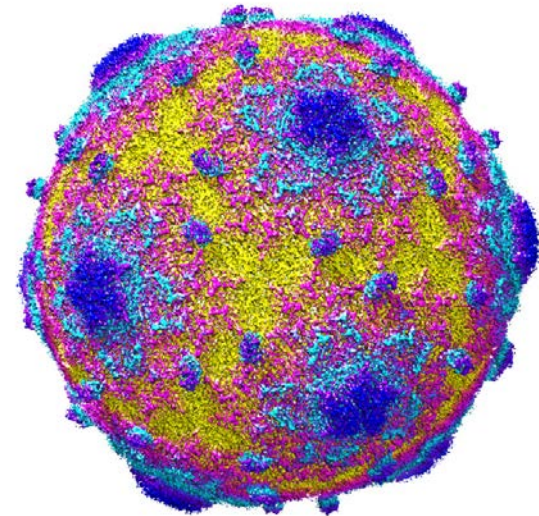
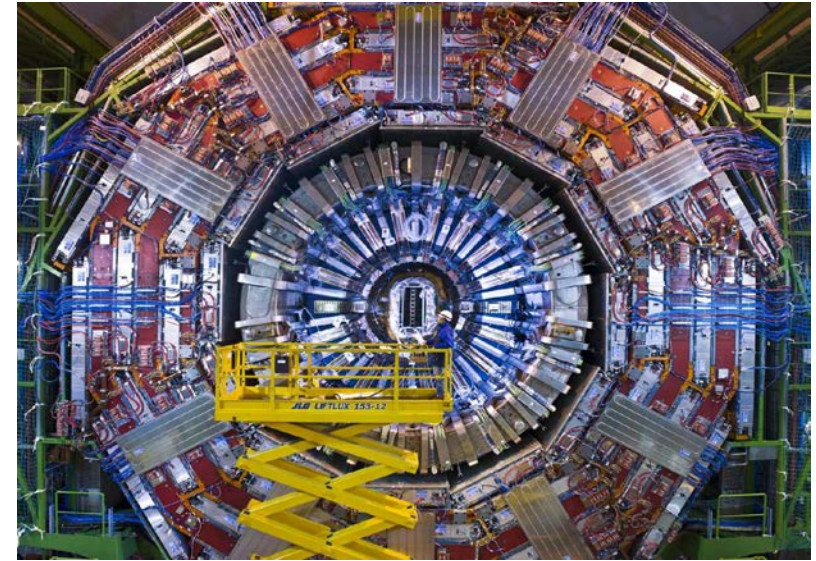


ÅBNINGEN AF DEN USYNLIGE VERDEN

KUNSTIGT SYN OG KUNSTIGE
BILLEDER I DET 17. ÅRHUNDREDE

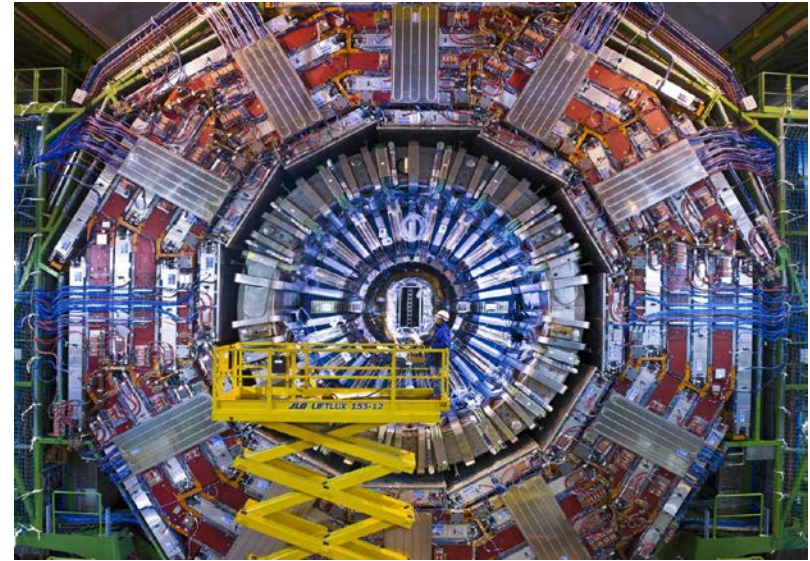




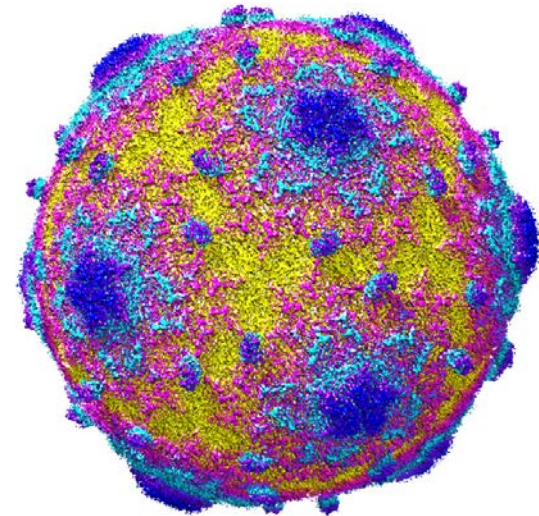




Mikrofotografi: Synlige objekter



Large Hadron Collider, CERN: Mindstedele (partikler)



**Kryo-elektron-
mikroskopi:
Mikrobiologiske
entiteter**

TRE VISUELLE RUM

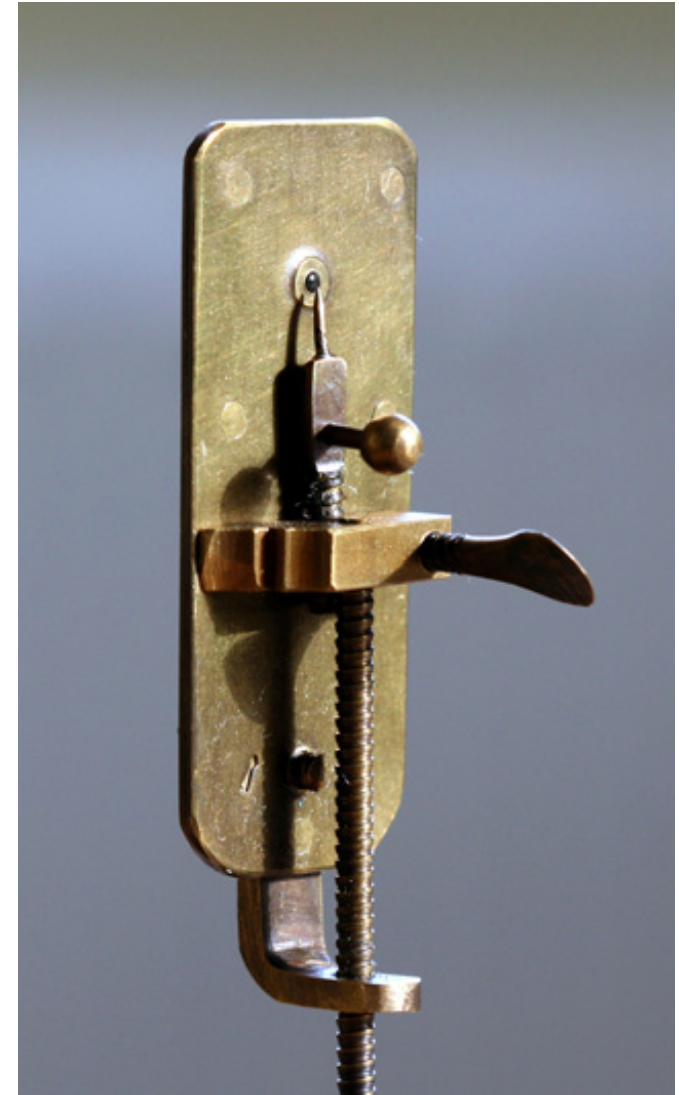
- Det synlige - naturhistorie
- Det mikrobiologiske
- Det usynlige - naturfilosofi

I løbet af 1600-tallet: *Det mikrobiologiske rum bliver installeret og stabiliseret som sted for empiriske undersøgelser*





Robert Hookes sammensatte mikroskop. Designet af Hooke, fremstillet af Christopher Cock.

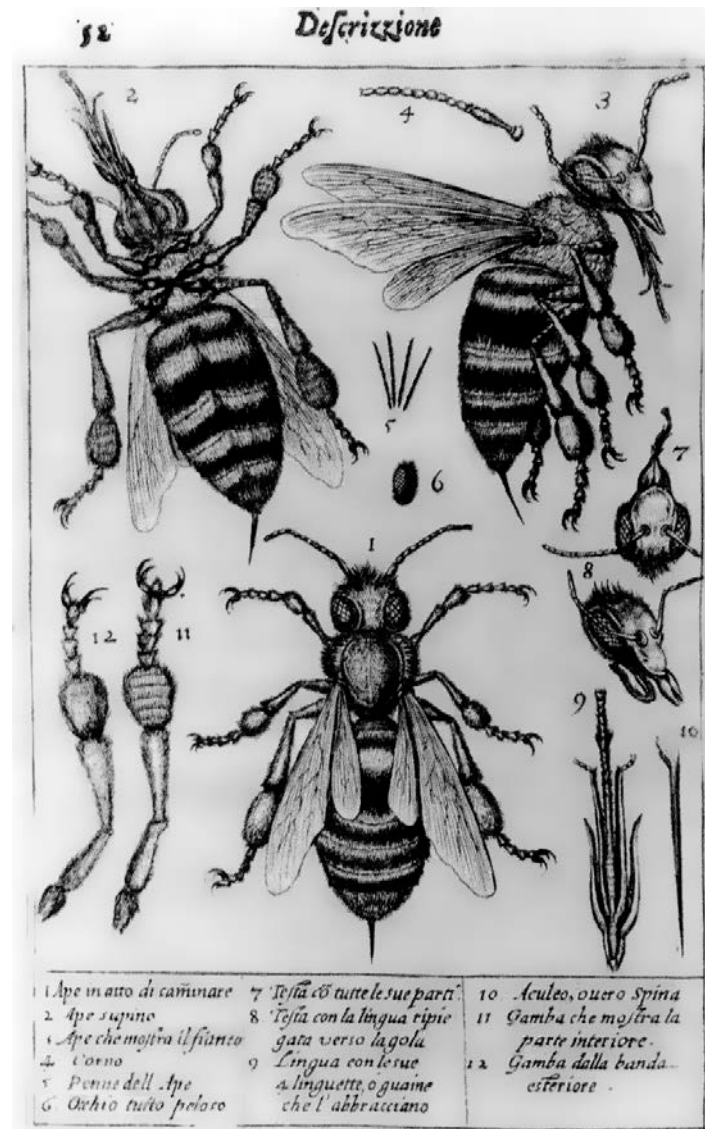


Antoni van Leeuwenhoeks simple mikroskop. Designet og fremstillet af Leeuwenhoek

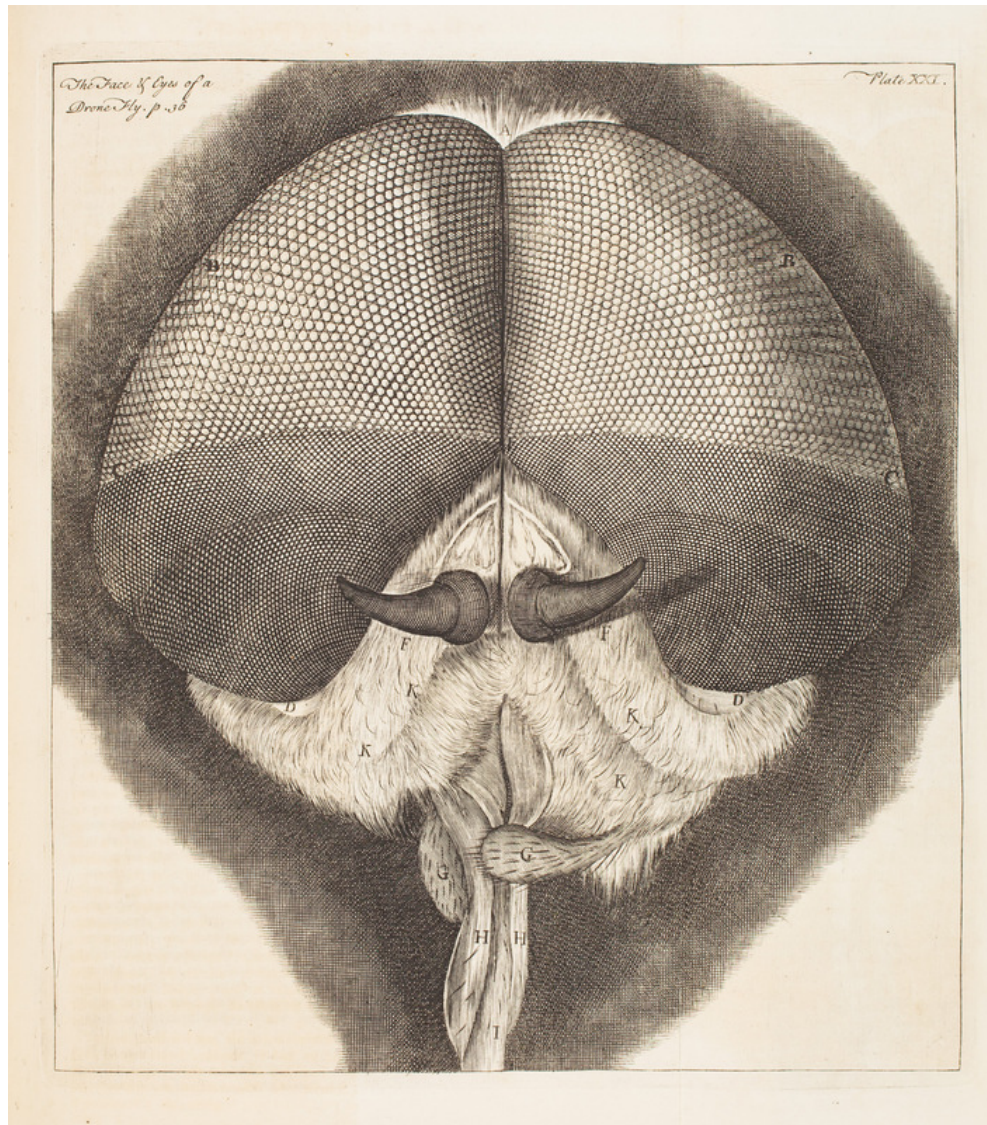




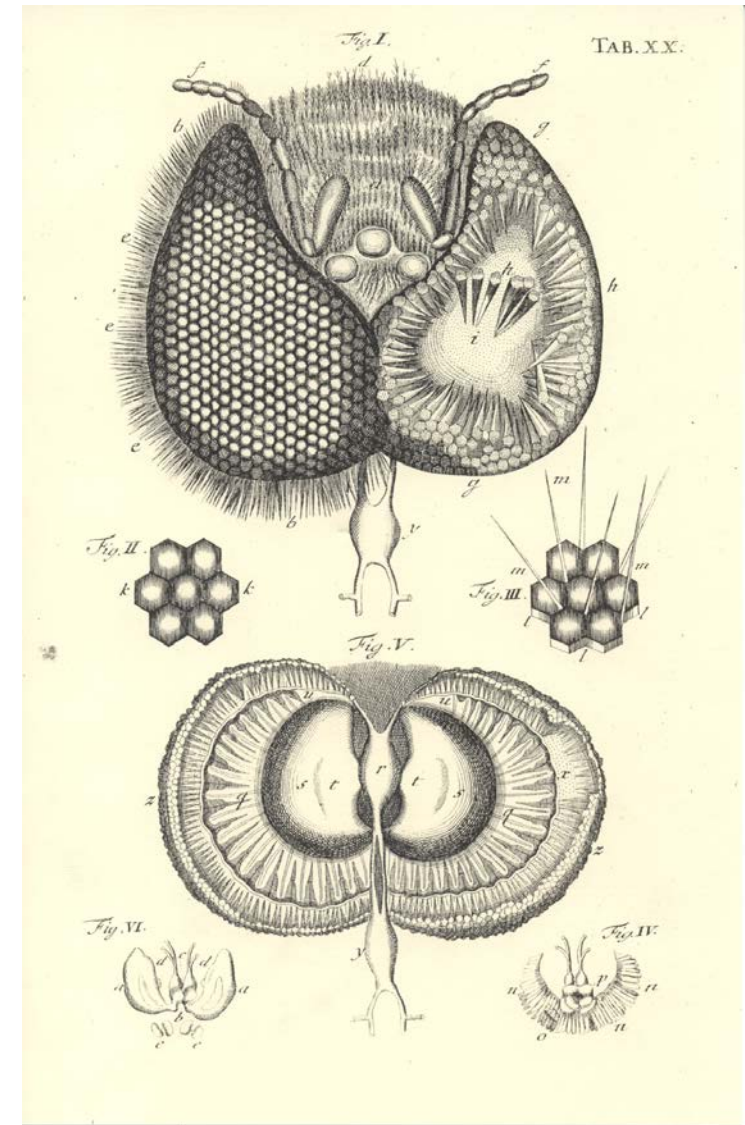
Accademia dei Lincei, *Mellisographia* (1625)



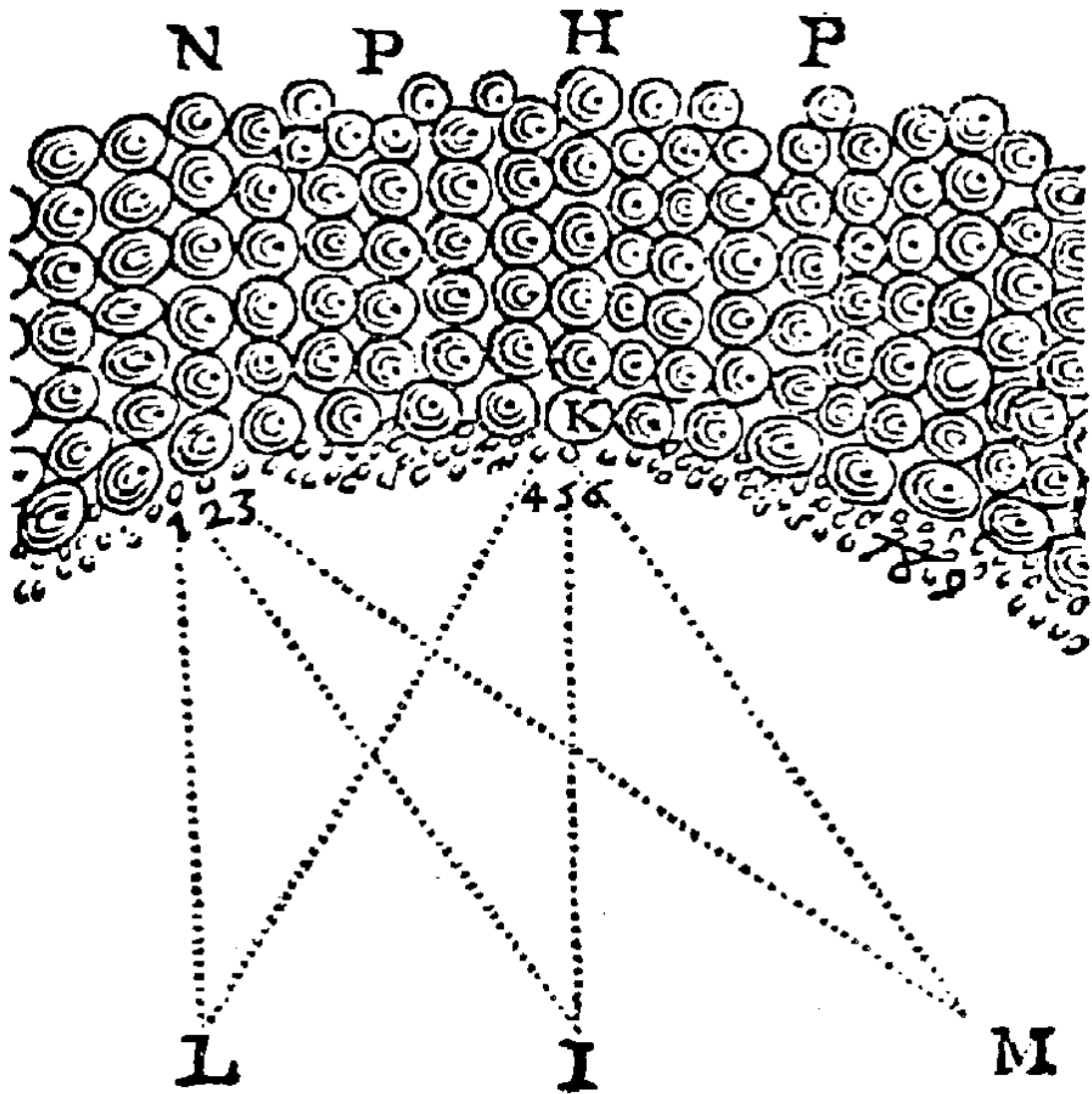
Francesco Stelluti, *Persio tradotto in verso sciolto* (Rom: Giacomo Mascardi, 1630)



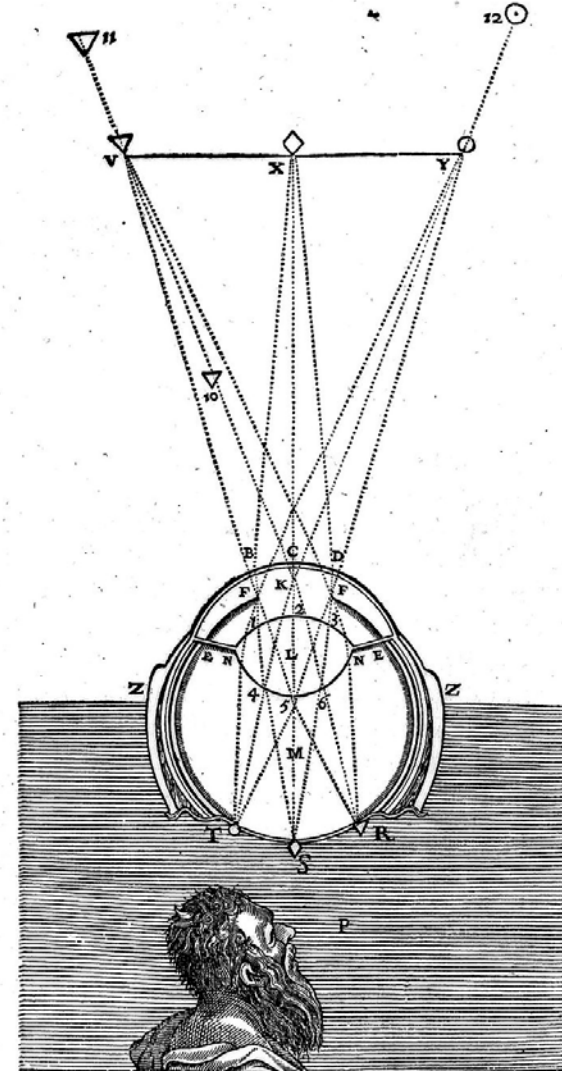
Robert Hooke, *Micrographia* (1665)



Jan Swammerdam, *Biblia Naturae* (1738 [1669])



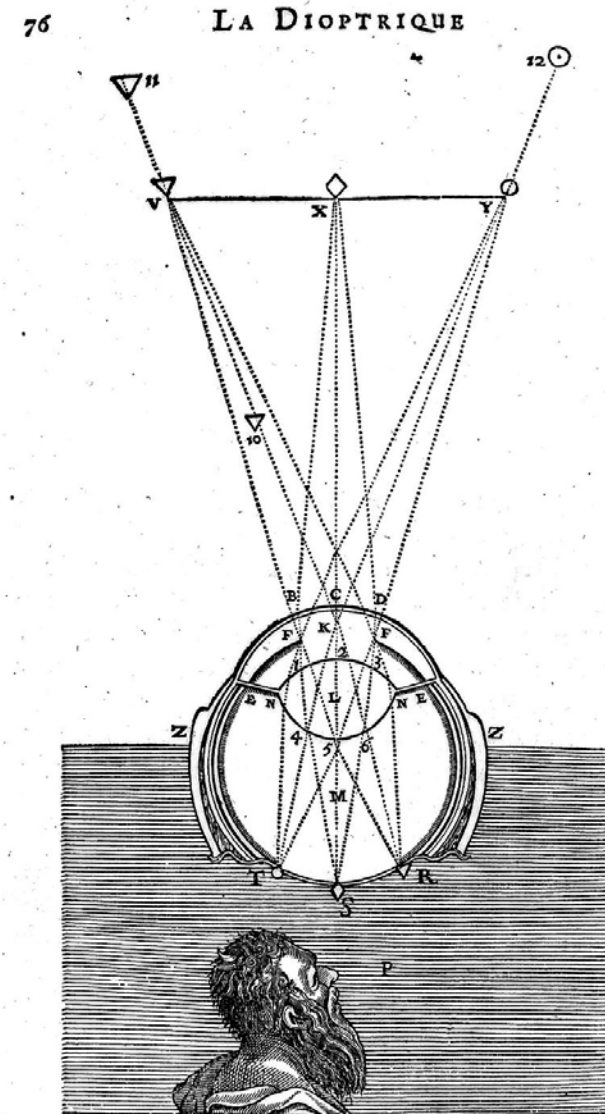
René Descartes, *Le Monde* (1664 [1633])



René Descartes, *La Dioptrique* (1637)

RENÉ DESCARTES: LA DIOPTRIQUE

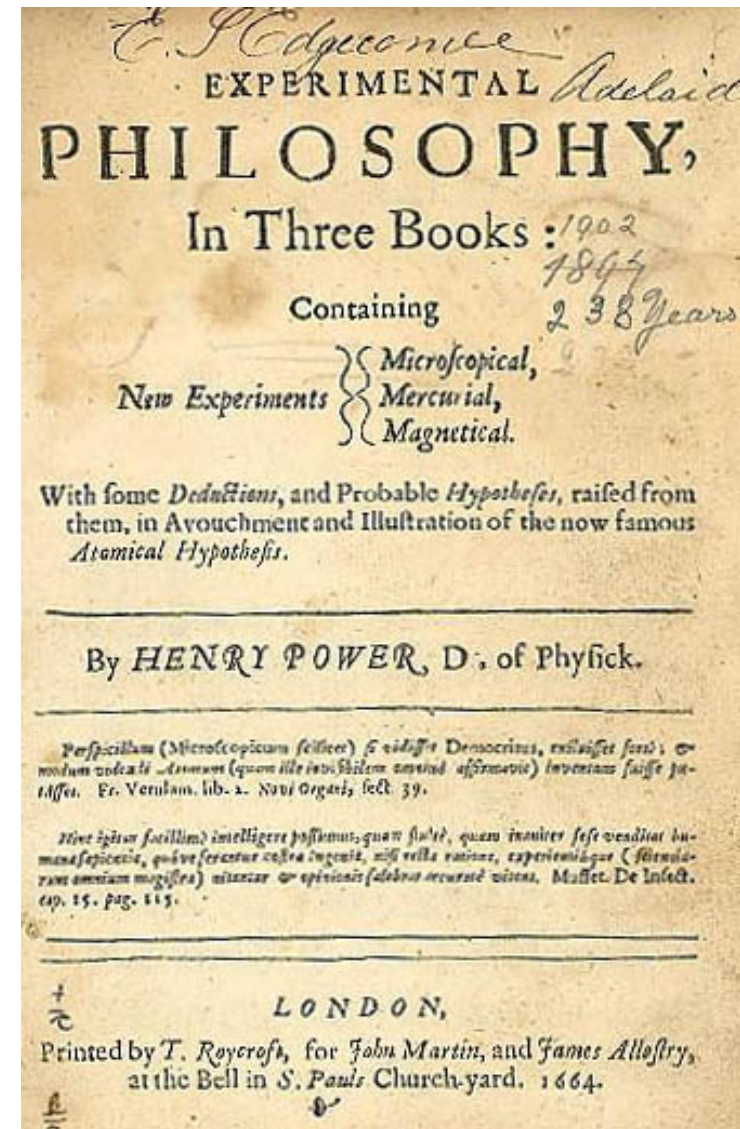
Selvom deres [mikroskopernes] anvendelse ved første øjekast ikke er lige så tillokkende som de andres [teleskopernes] (...), så bedømmer jeg dem alligevel som langt mere brugbare, idet vi med dem i hånden kan observere de forskellige blandinger og arrangeringer af de små partikler, som udgør dyrene og planterne, og måske også de andre legemer, som omgiver os, og derved opnå en stor fordel, når det kommer til at opnå viden om deres beskaffenhed.



René Descartes, *La Dioptrique* (1637)

HENRY POWER: EXPERIMENTAL PHILOSOPHY

And indeed, if the Dioptricks further prevail, and that darling Art could but perform what the Theorists in Conical sections demonstrate, we might hope, ere long, to see the Magnetical Effluviiums of the Loadstone, the Solary Atoms of light (or *globuli ætherei* of the renowned *Descartes*) the springy particles of Air, the constant and tumultuary motion of the Atoms of all fluid Bodies, and those infinite, insensible Corpuscles (which daily produce those prodigious (though common) effects among us.



Henry Power: *Experimental Philosophy* (1664)

ANTONI VAN LEEUWENHOEK

BREV TIL HUYGENS

“I was asked whether I can see the particles of water; to which I often replied that (...) we must suppose the particles of the water to be so small as to be inconceivable for us. And I believe that no man will ever advance so far in science [konst] as to be able to see component parts of water”.

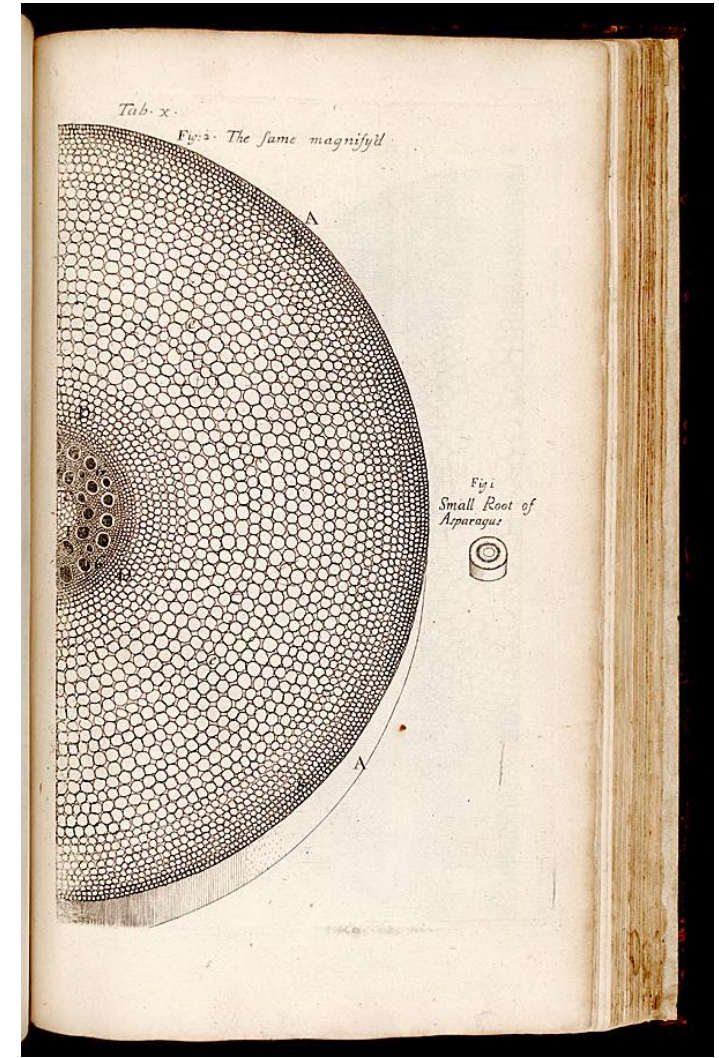
Brev til Constantijn Huygens, 20. maj 1679.



Antoni van Leeuwenhoek,
Arcana Naturae Detecta (1695)

DEN MIKROBIOLOGISKE VERDEN

- Genforhandling af forholdet mellem kunst og natur
- Disciplinering af observationer
- Fremkomst af skala-tænkning



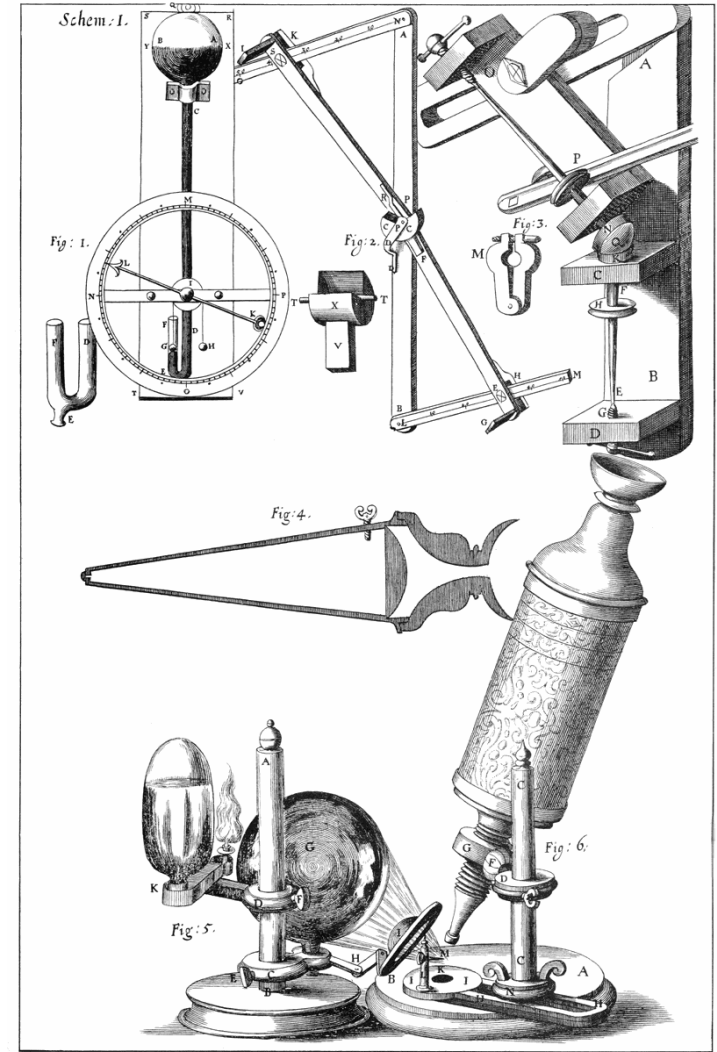
Nehemiah Grew, *The Anatomy of Plants* (1682)

FORHOLDET MELLEM KUNST OG NATUR

Robert Hooke om
mikroskopet:

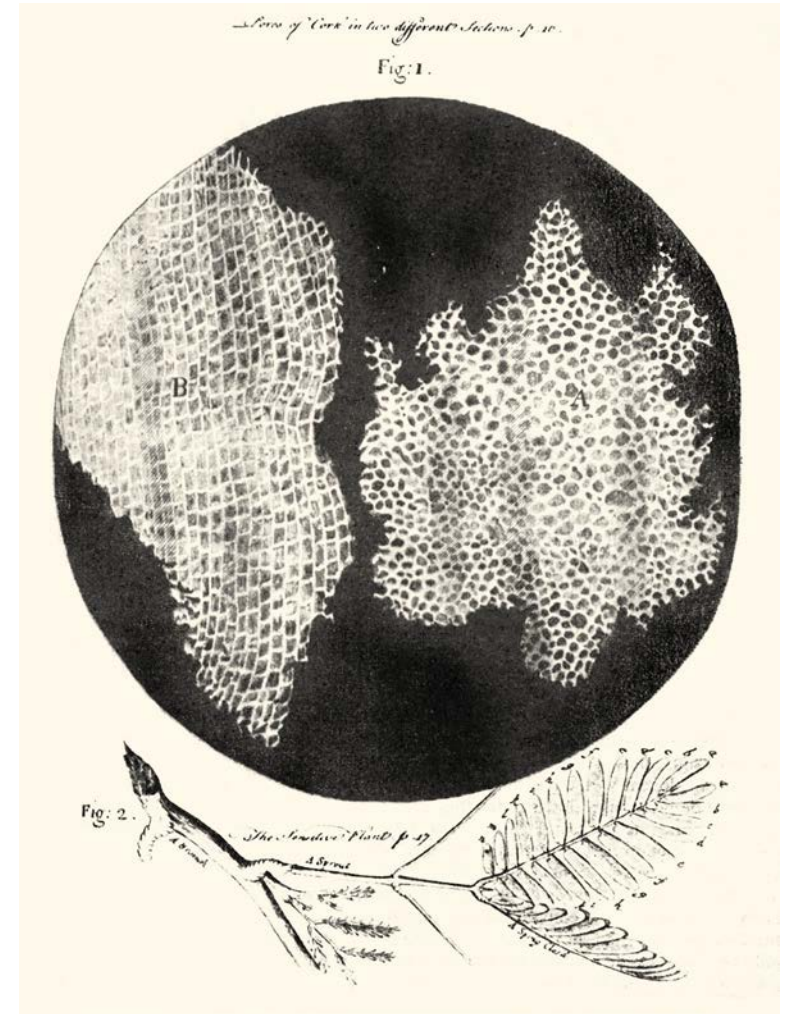
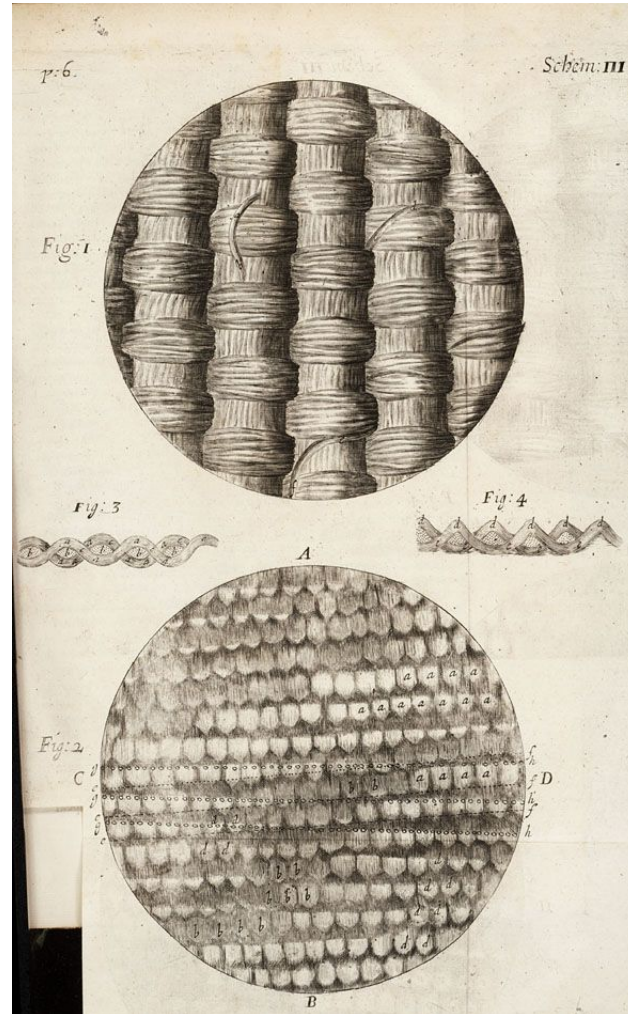
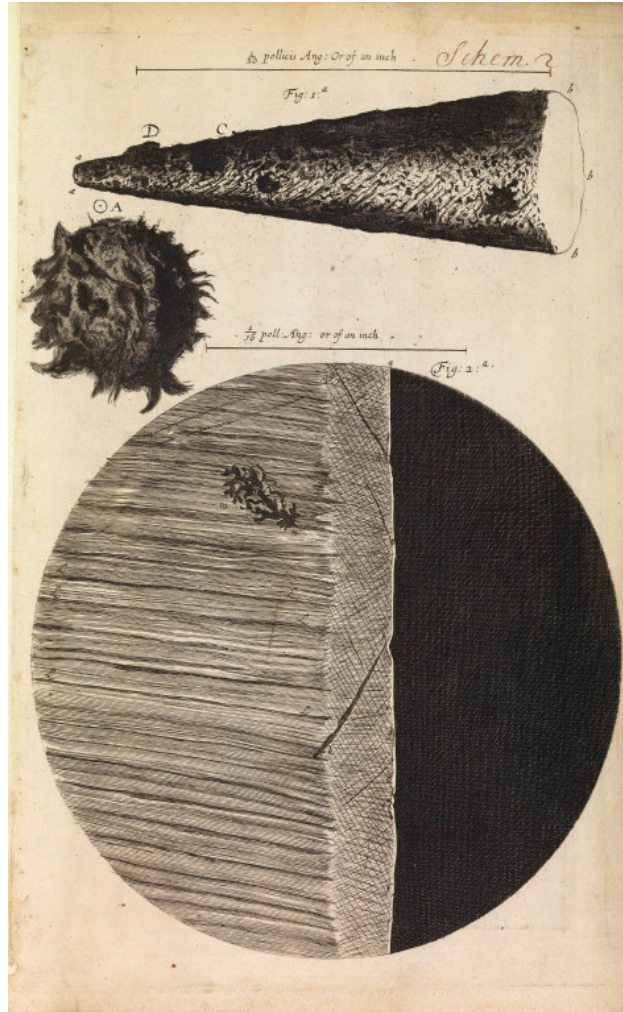
“the adding of artificial
Organs to the natural”

(*Micrographia*, Preface)



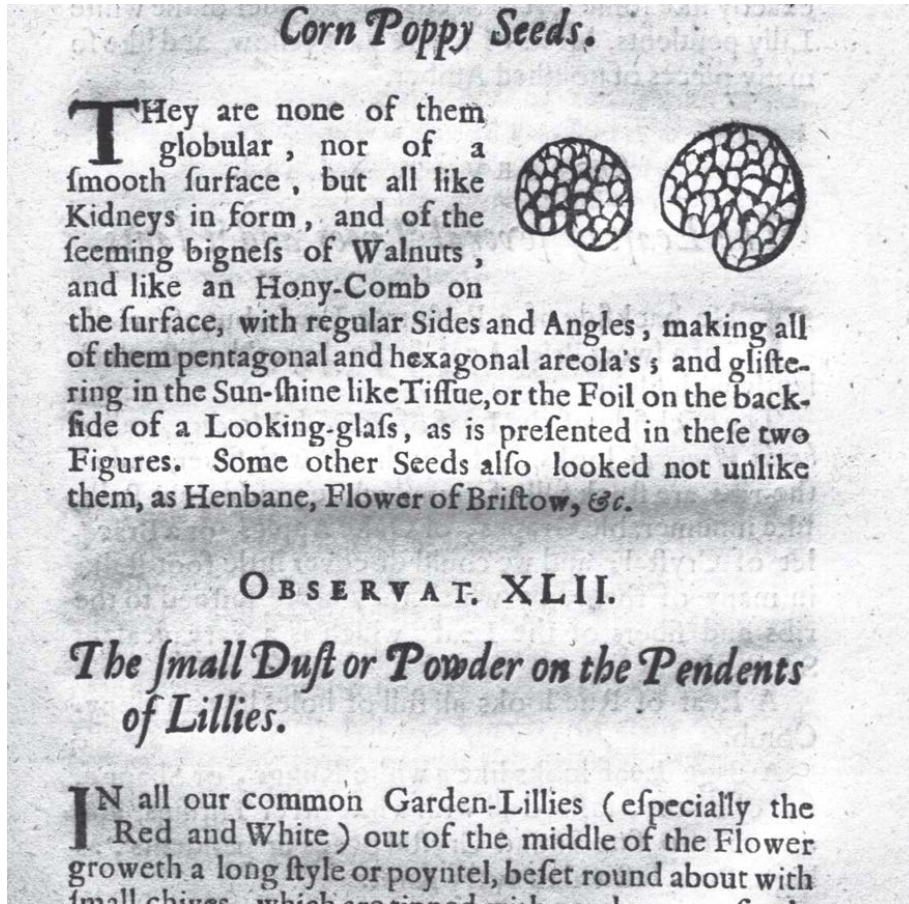
Robert Hooke, *Micrographia*
(1665)

FORHOLDET MELLEM KUNST OG NATUR

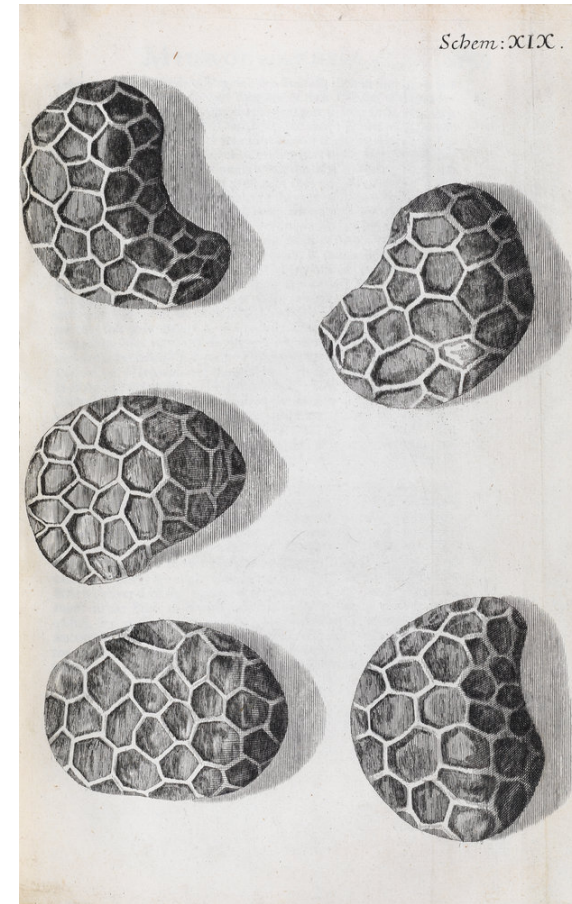


Robert Hooke, *Micrographia* (1665)

DISCIPLINERING AF OBSERVATIONER

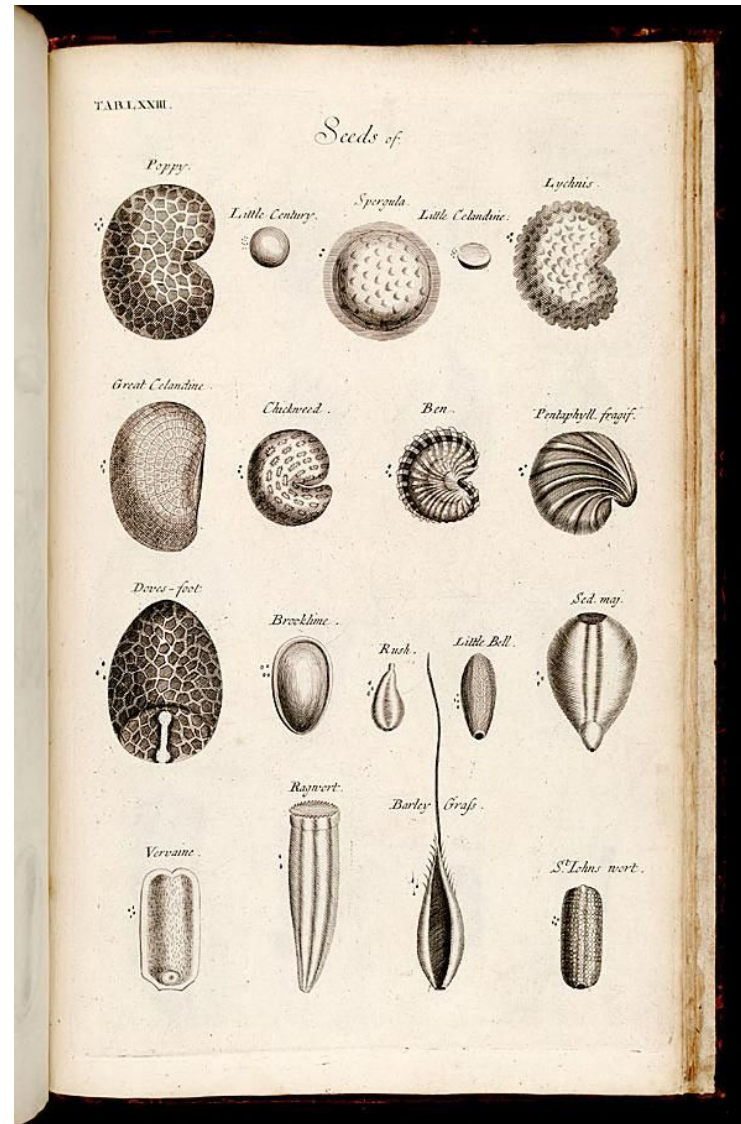


Henry Power: *Experimental Philosophy* (1664)



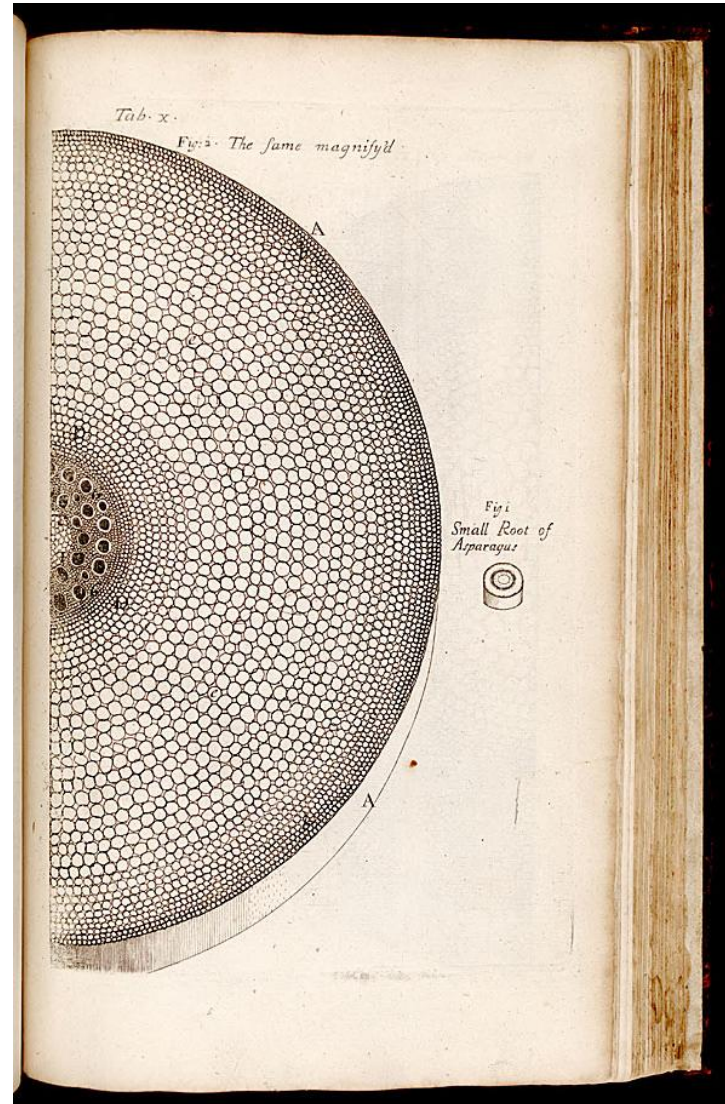
Robert Hooke, *Micrographia* (1665)

DISCIPLINERING AF OBSERVATIONER



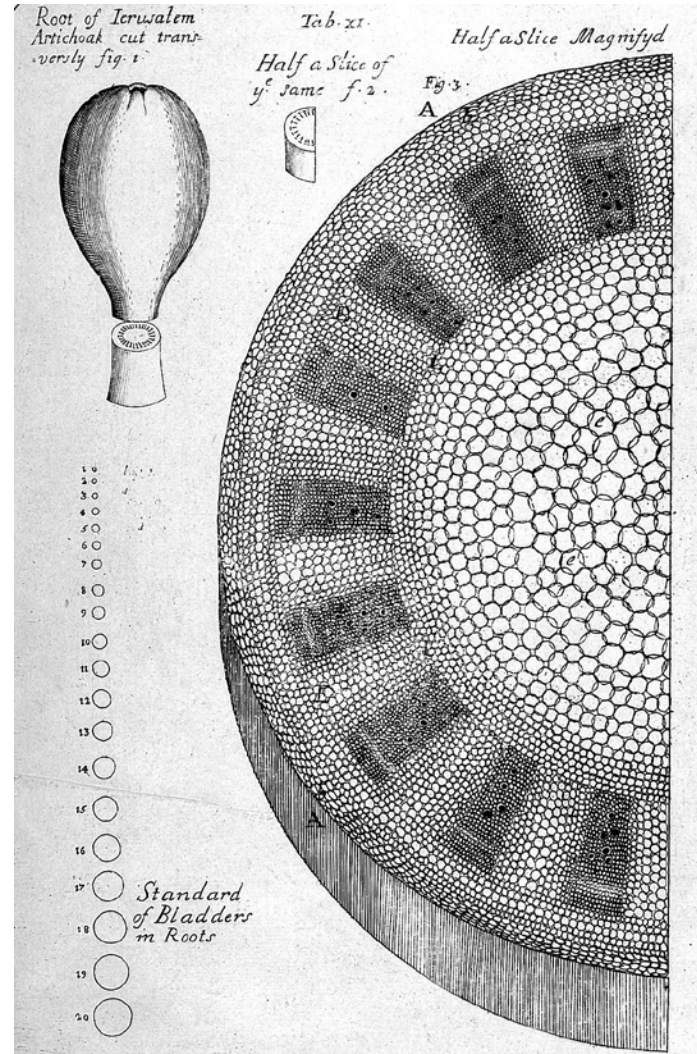
Nehemiah Grew, *The Anatomy of Plants* (1682)

FREMKOMST AF SKALA-TÆNKNING



Nehemiah Grew,
*The Anatomy of
Plants* (1682)

FREMKOMST AF SKALA-TÆNKNING



Nehemiah Grew,
*The Anatomy of
Plants* (1682)



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