

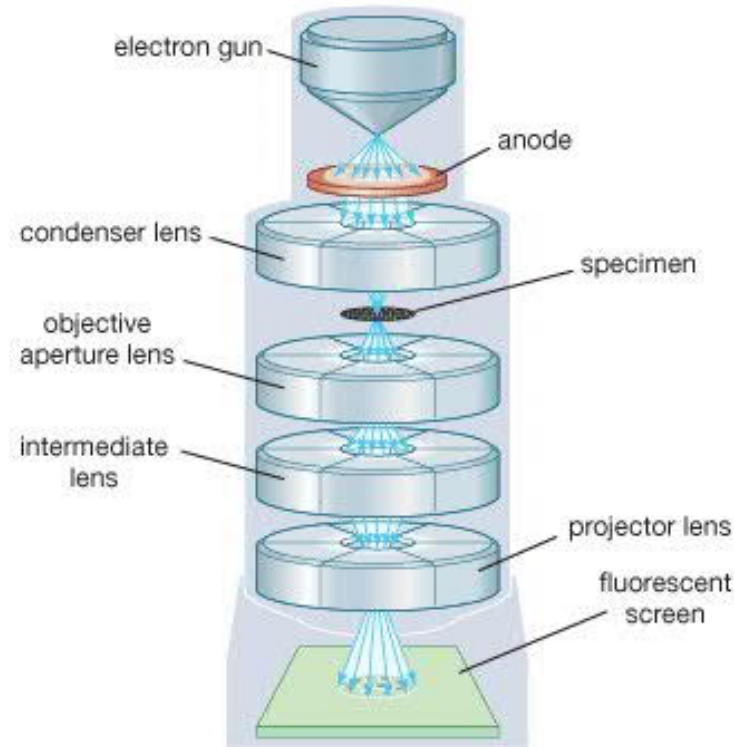
SEM

Emmalotta Kittilä

What it is a microscope?

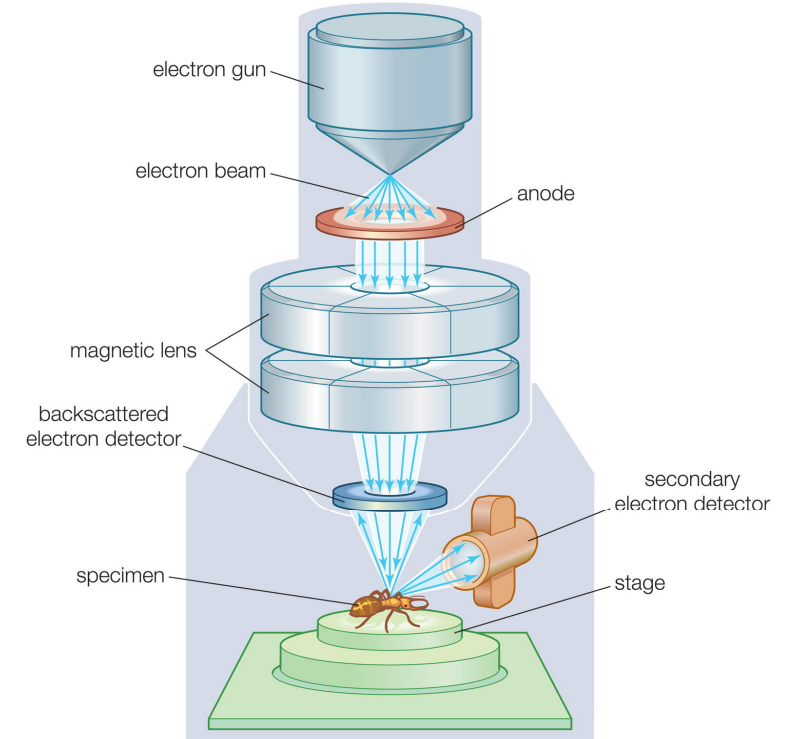


Optical microscope [3]



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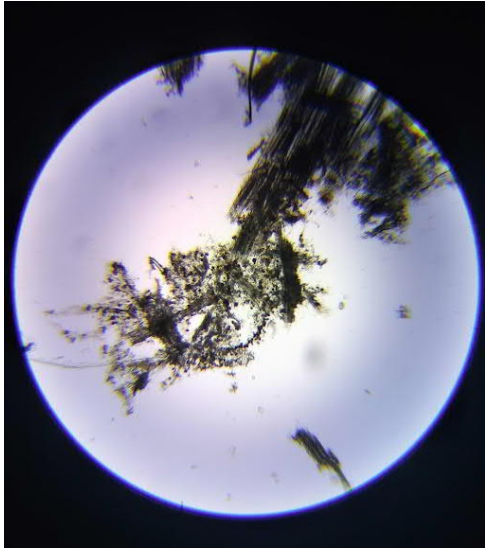
TEM [2]



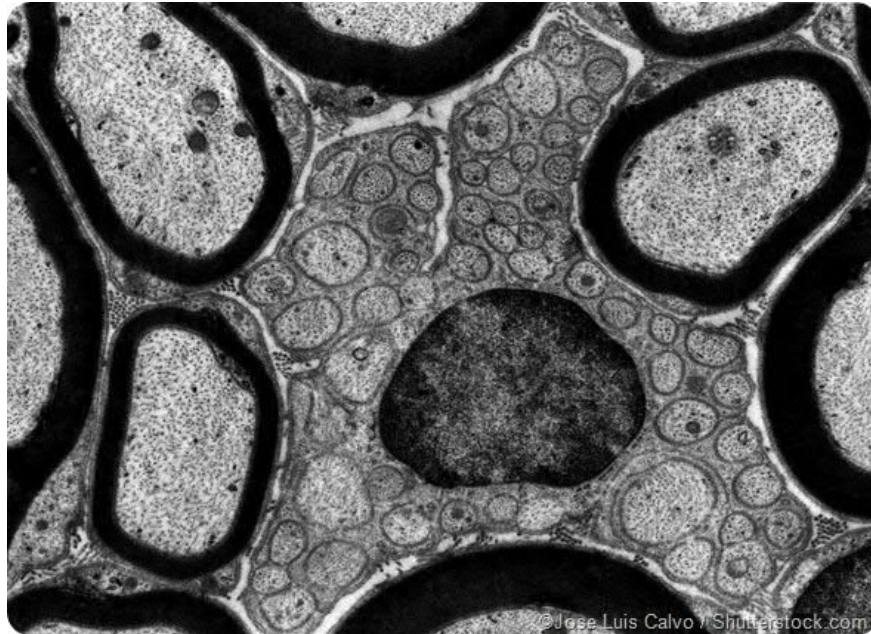
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SEM [4]

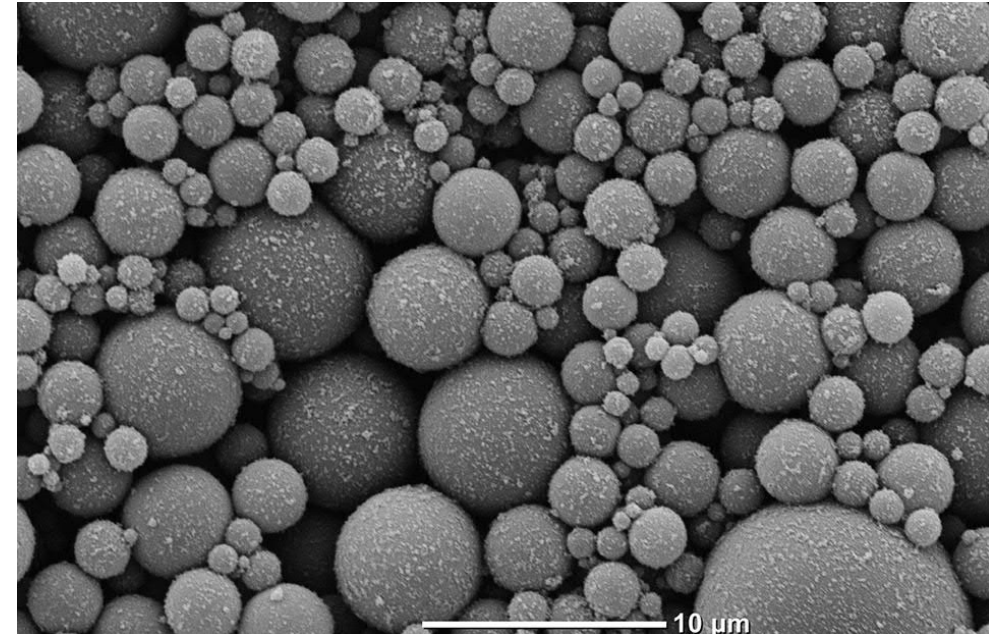
What is an electron microscope?



Optical microscope [5]

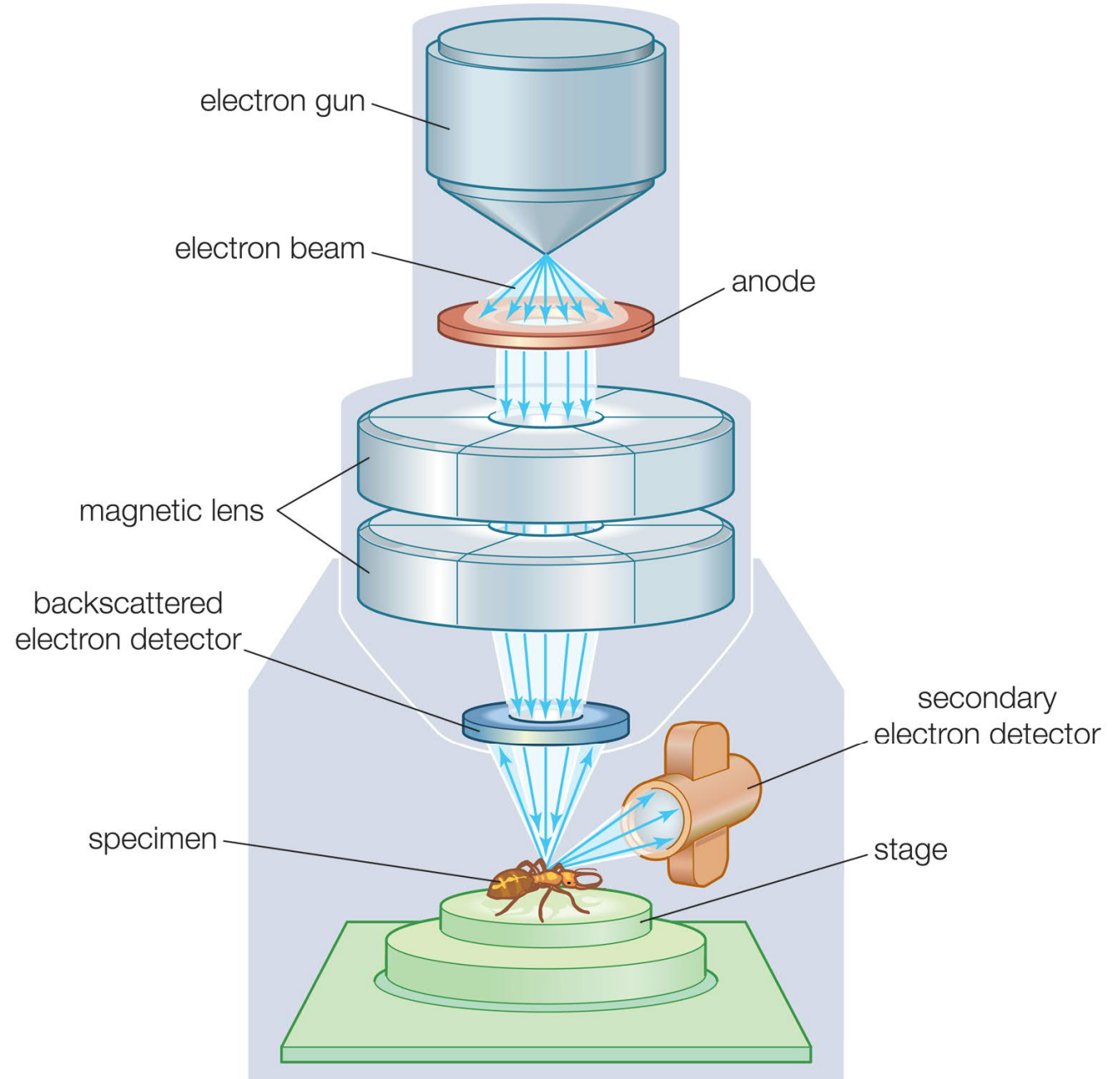


TEM [6]



SEM [7]

How SEM works?



[1,4]

Pros and cons

- Resolution
- Accurate [8]
- Technology

- Vacuum
- Size
- Slow prepare
- Requirements for sample



[16]

[15]



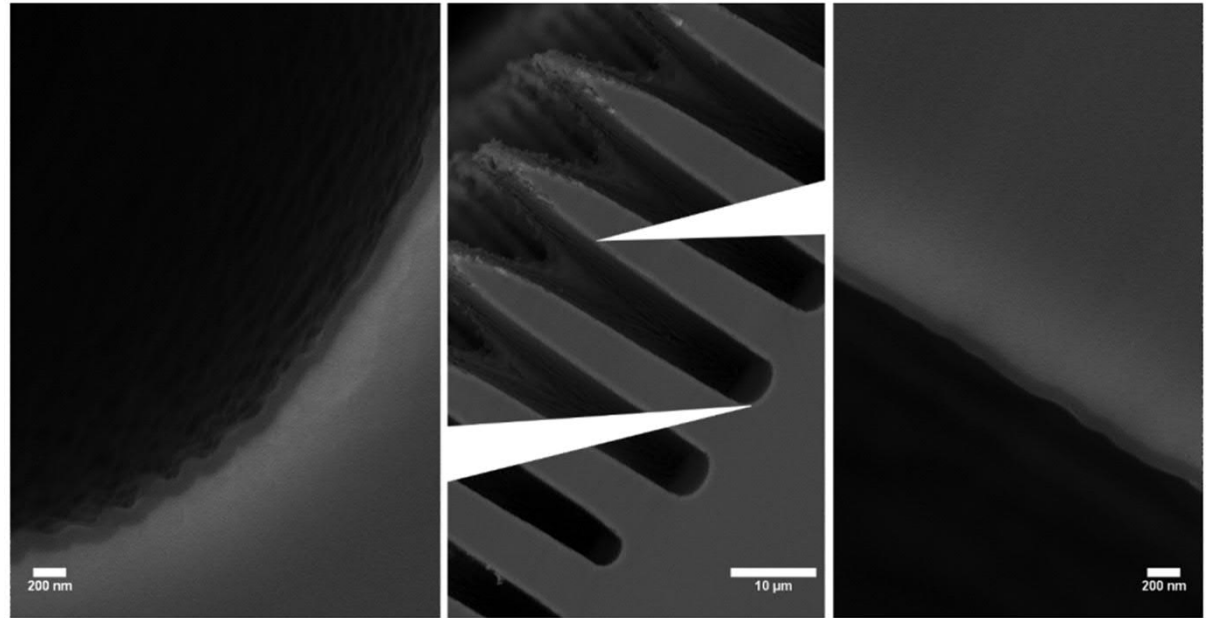
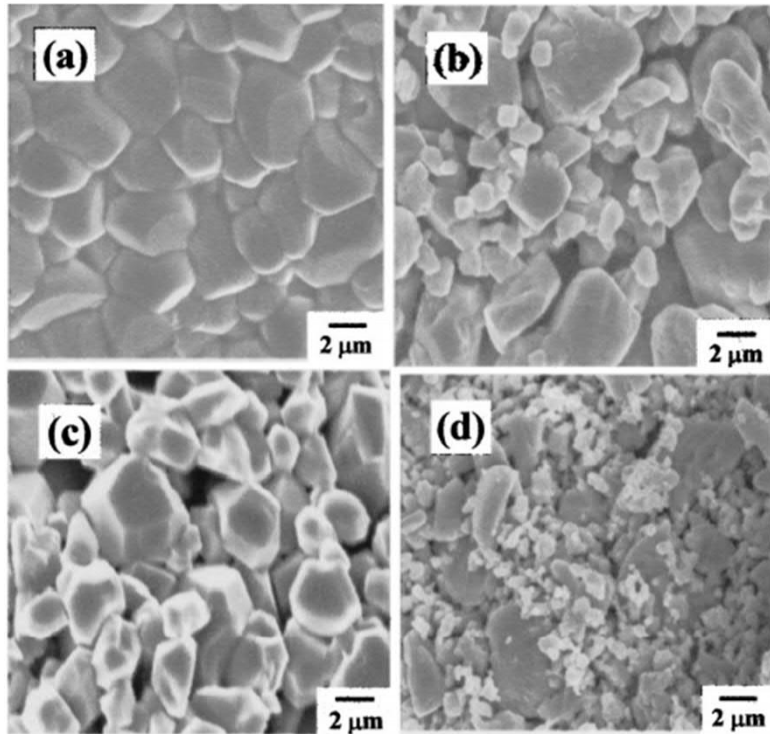
[14]



Where do we use it?

- Surfaces

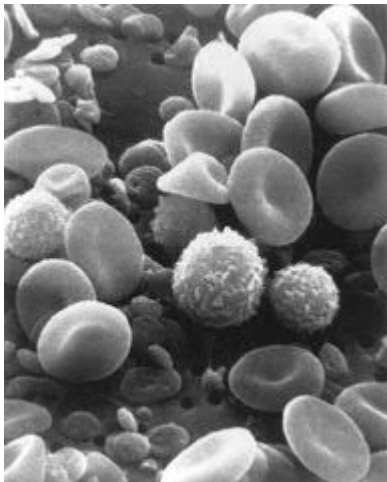
[8,10]



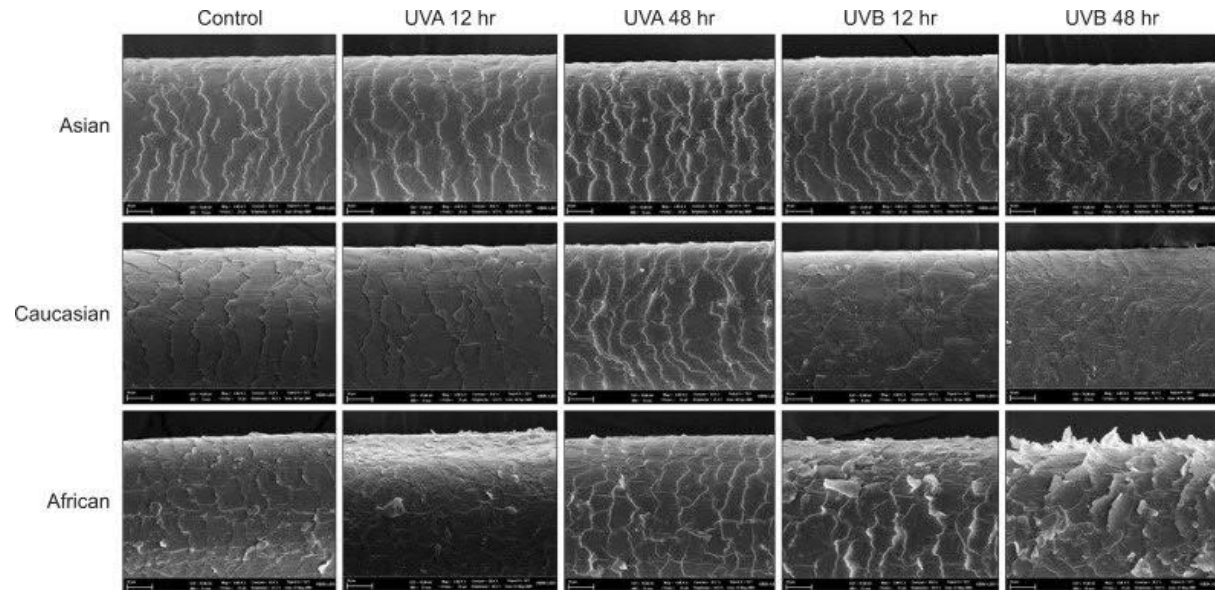
[9, Figure 5]

Applications?

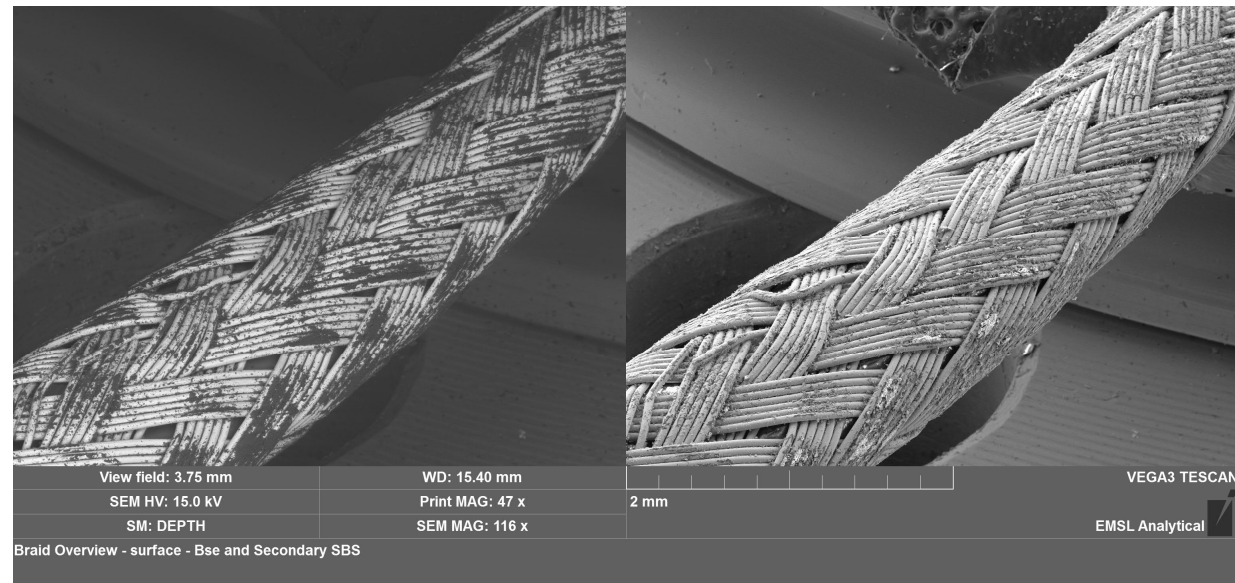
- Material science
- Forensic investigations
- Soil and rock analysis
- Biological sciences
- Medical science
- Art



[13]



[11]



[12]

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