

Tools of the Biologist

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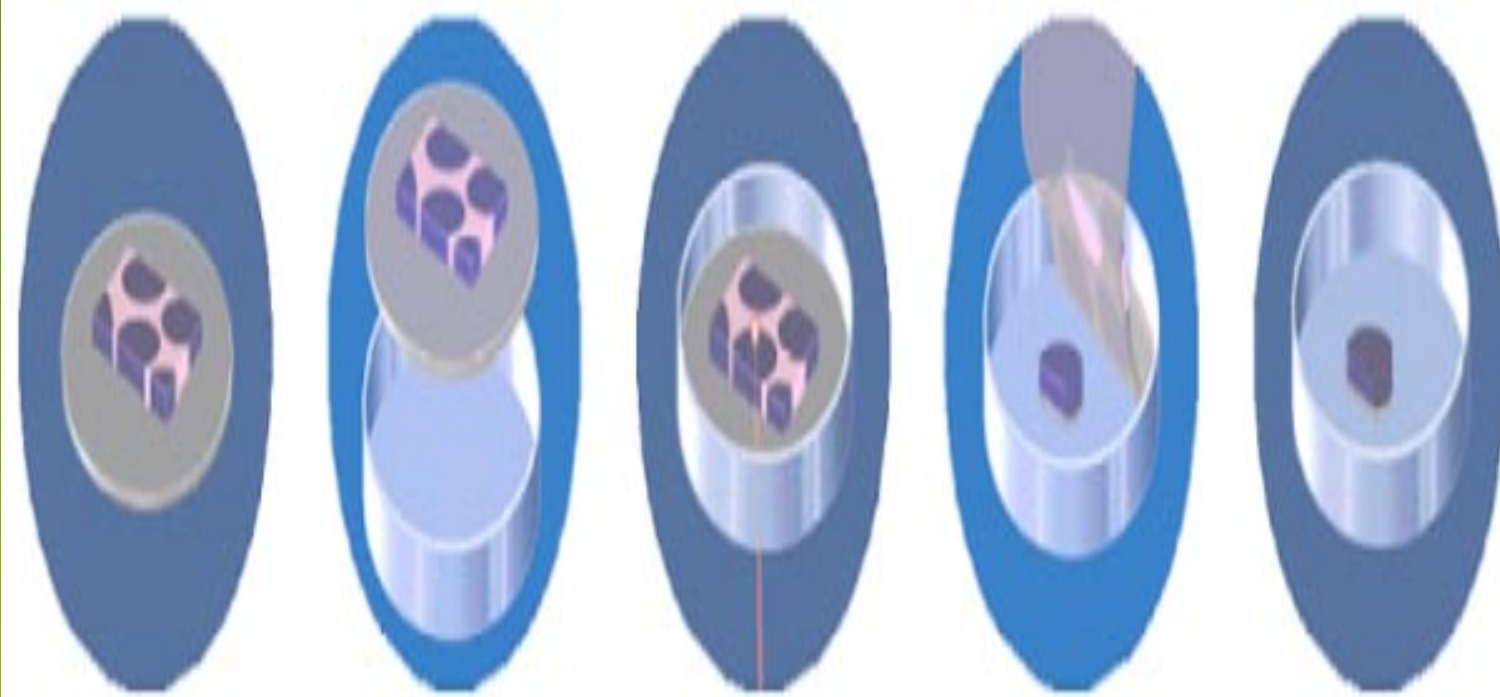


Figure 2 - tissue microdissection

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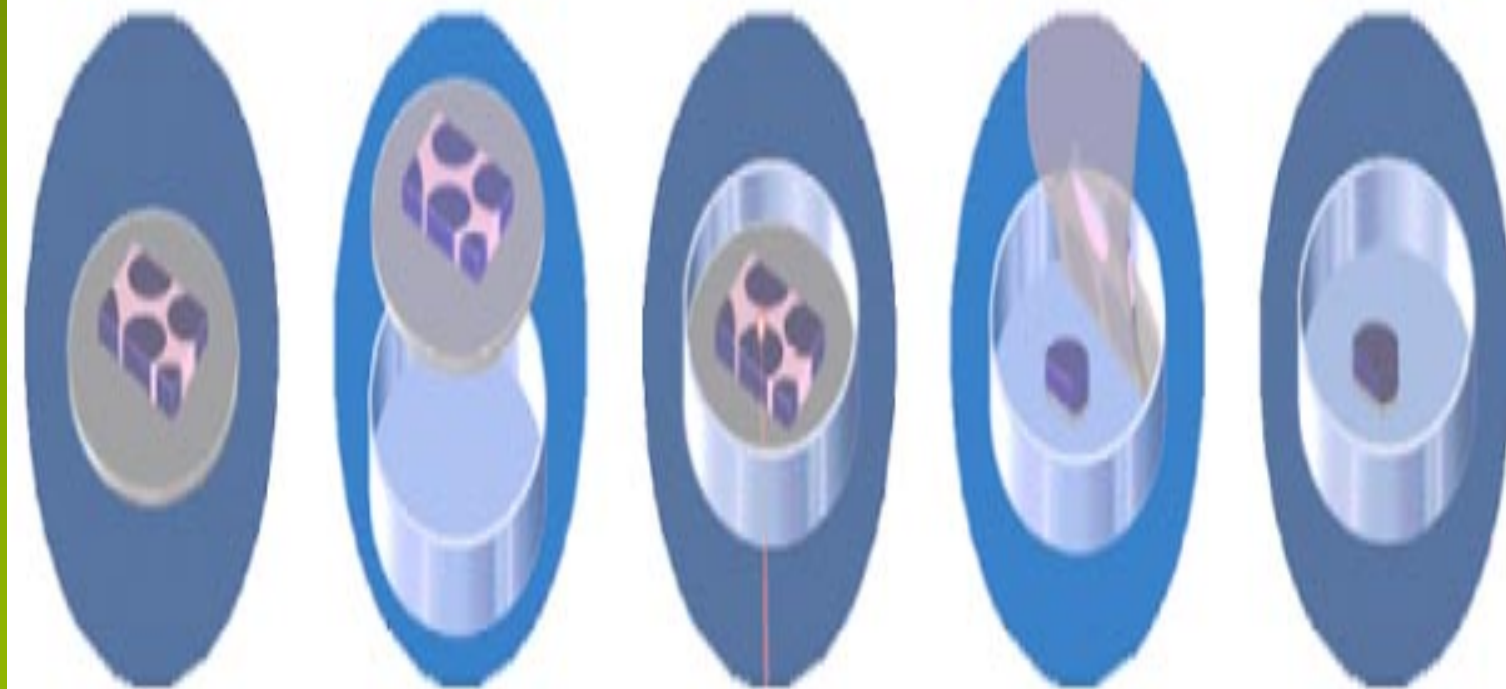
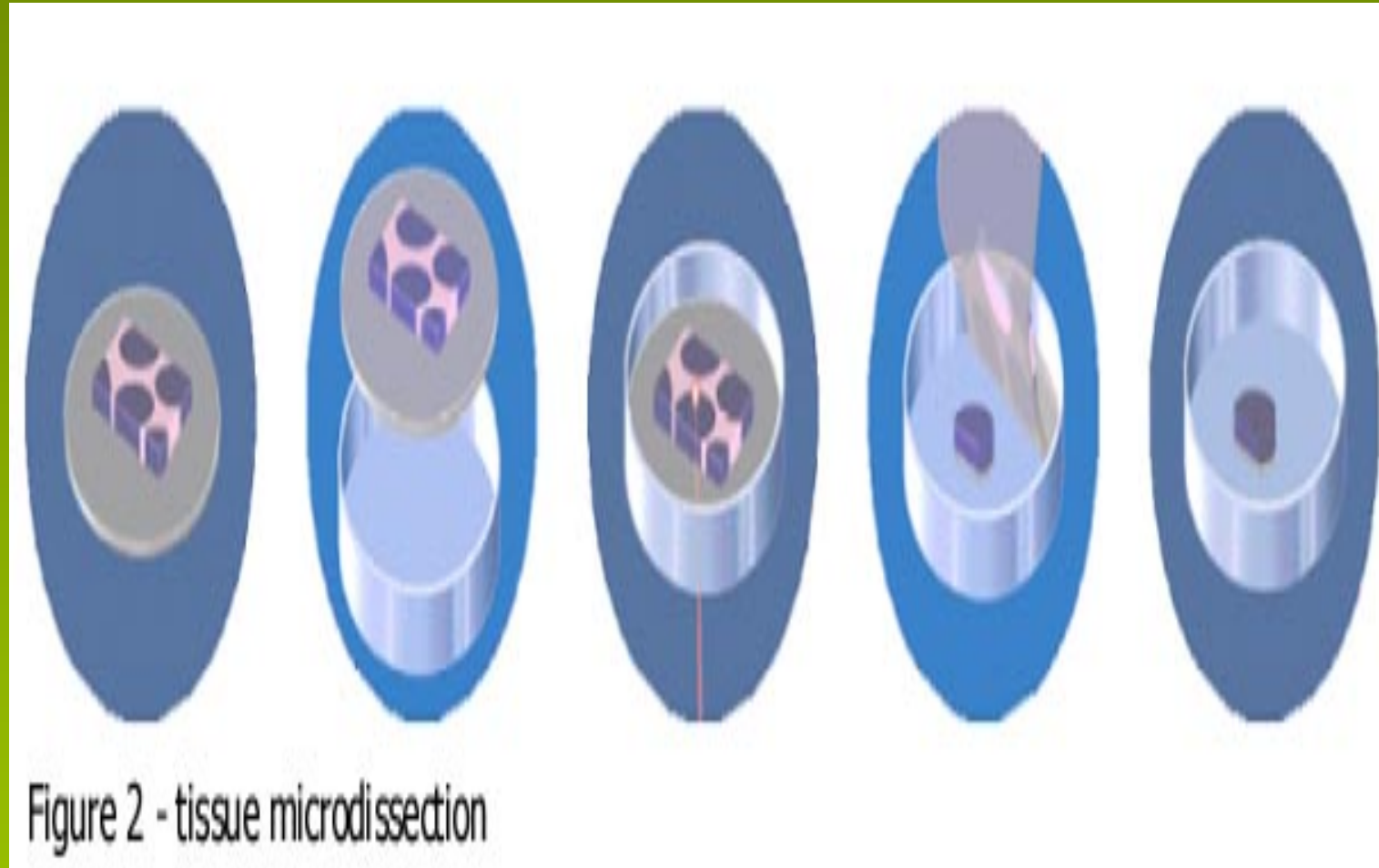


Figure 2 - tissue microdissection

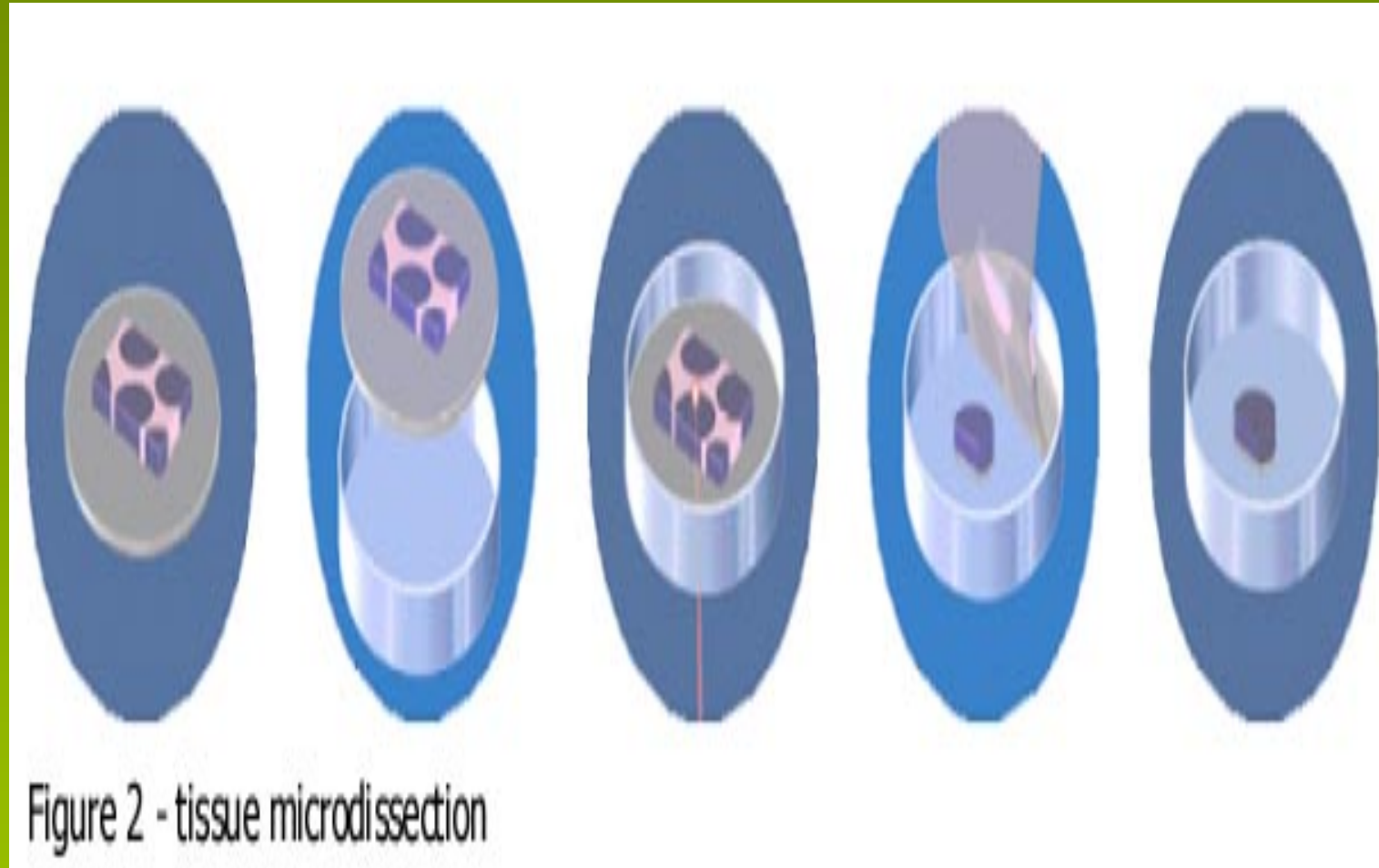
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2.) Microdissection



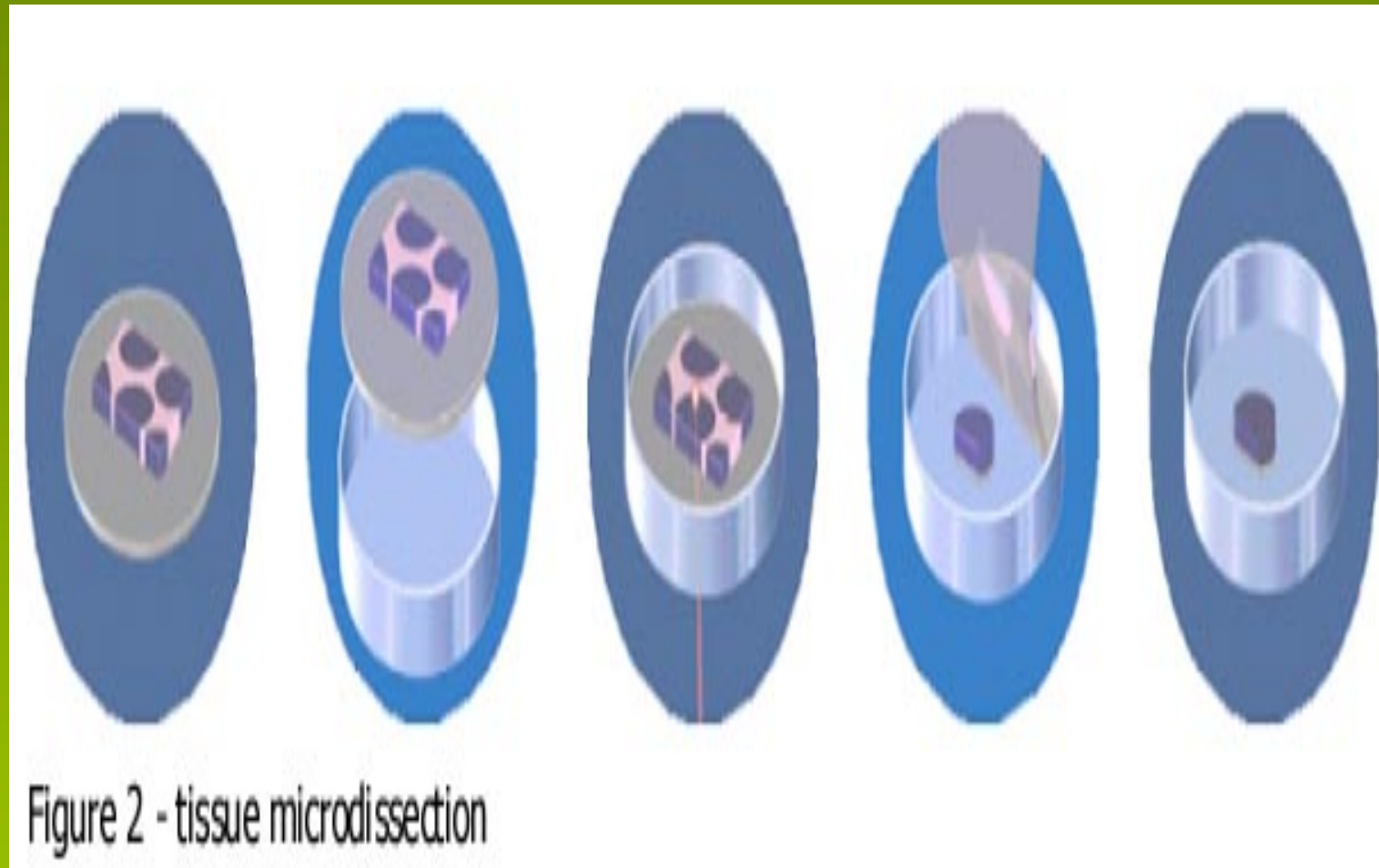
Tools of the Biologist

2.) Microdissection instrument



Tools of the Biologist

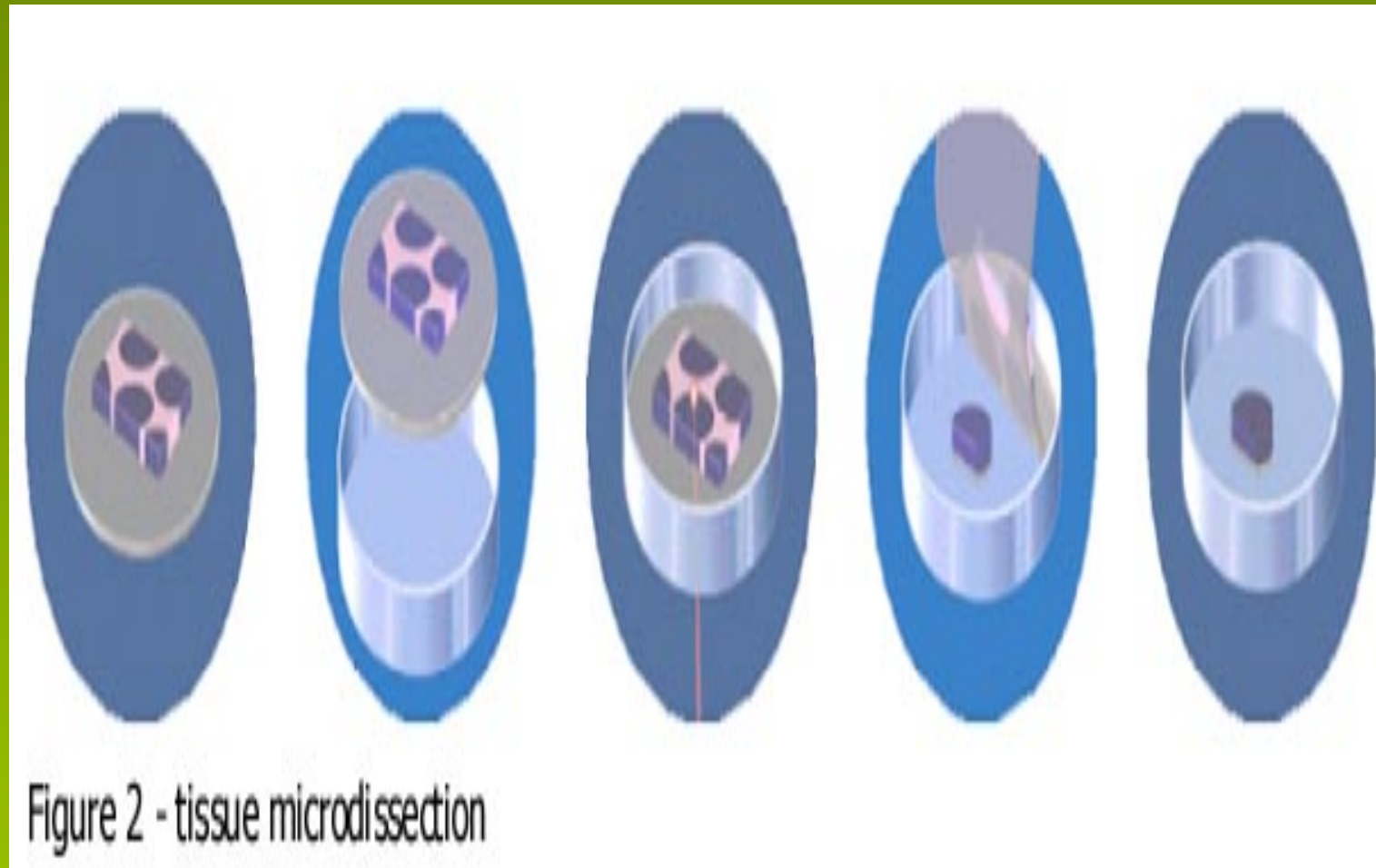
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- ✓ ***Used to separate microscopic components (cell parts, bacteria)***



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3.) Cell Cultures

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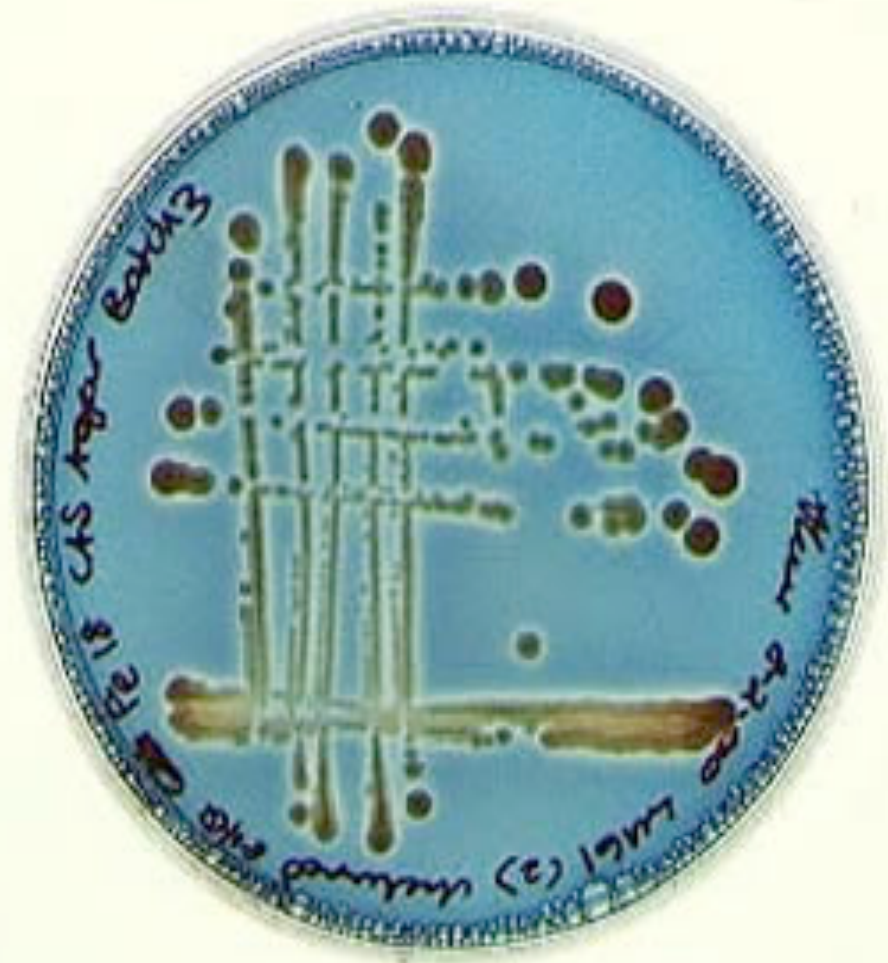
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5.) Stereo/dissecting Microscope

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- ✓ Produces 3-D images
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- ✓ Used with larger objects where light cannot pass through***

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- ✓ ***Produces 3-D images of living or dissected specimens.***
- ✓ ***Used with larger objects where light cannot pass through***



Tools of the Biologist

6.) Electron Microscope

- ✓ Focus beams of electrons on specimens
1000x smaller than can be viewed with
Light microscope**

Tools of the Biologist

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***A.) Transmission
electron microscope***

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Tools of the Biologist

A.) Transmission electron microscope

- ✓ Produces slices of
specimens***

Tools of the Biologist

A.) Transmission electron microscope

✓ Produces slices of specimens



Tools of the Biologist

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B.) Scanning Electron Microscope

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- ✓ ***Produces incredible 3-D images of entire specimen.***

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***TYPICAL
BUG
UNDER
THE
ELECTRON
MICROSCOPE***

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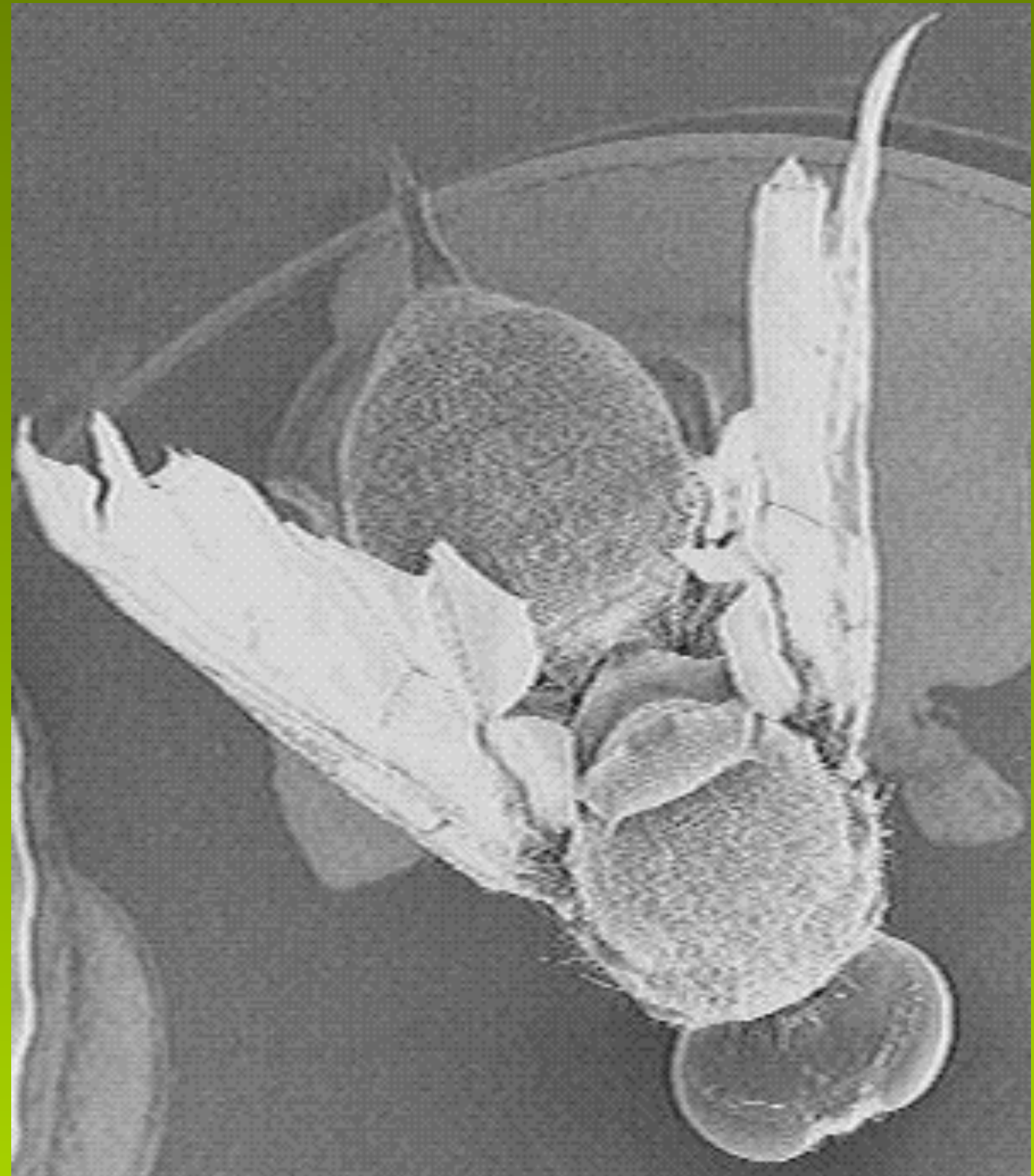
***FRUIT FLY
UNDER THE
ELECTRON***

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***FRUIT FLY
UNDER THE
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MICROSCOPE***

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FRUIT FLY UNDER THE ELECTRON MICROSCOPE



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POLLEN

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POLLEN

GRAIN UNDER

THE

ELECTRON

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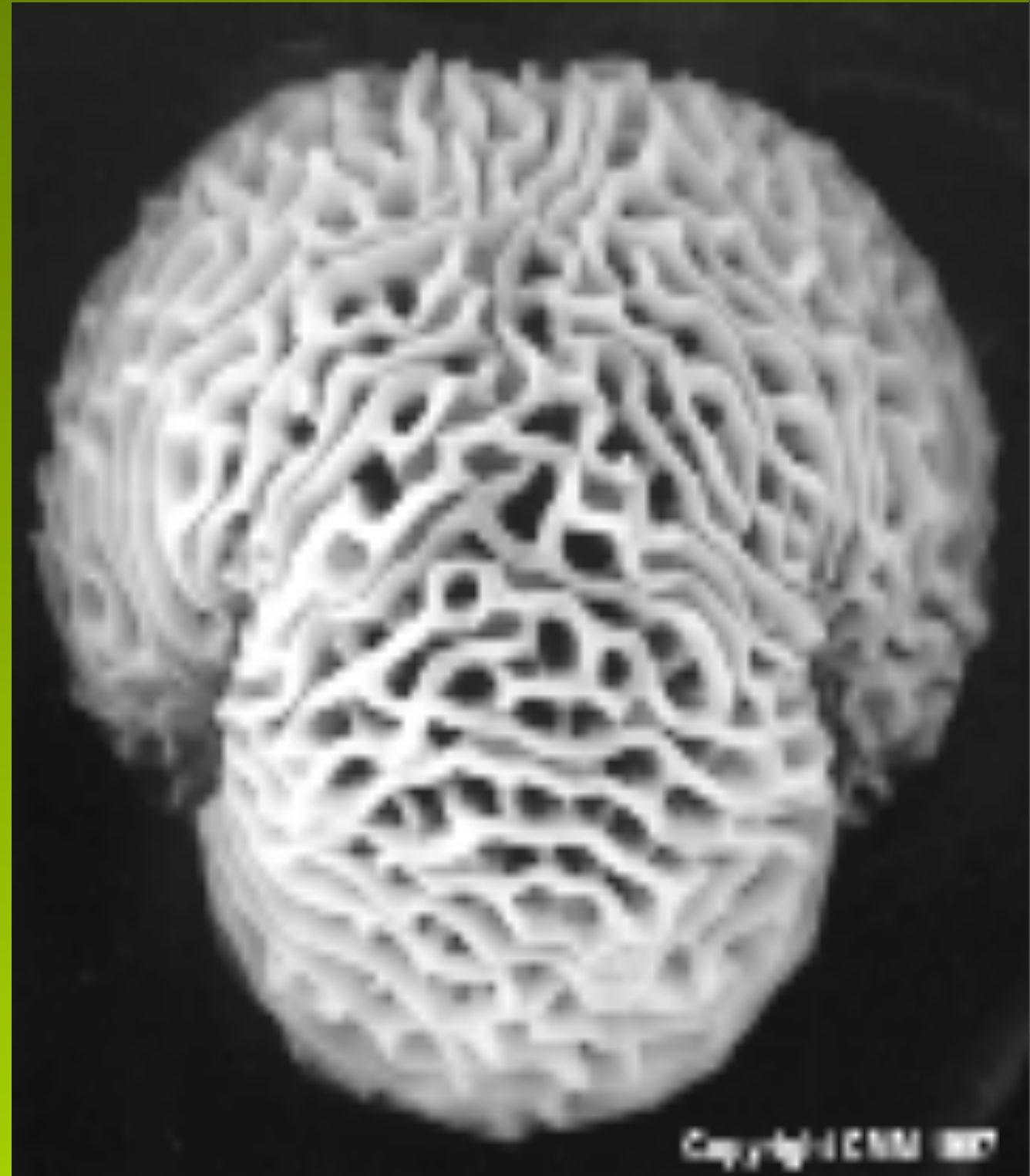
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***THE FOOT OF
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