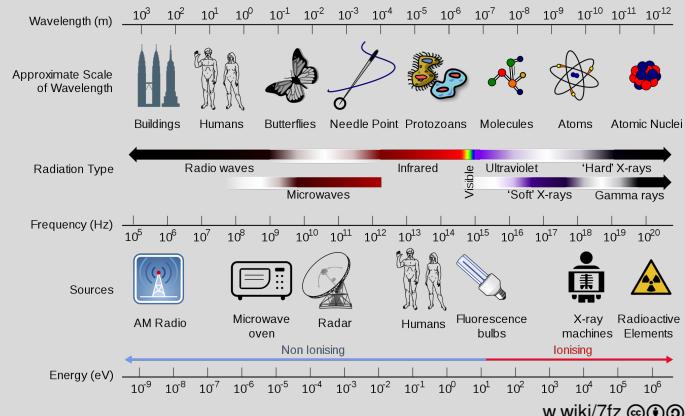
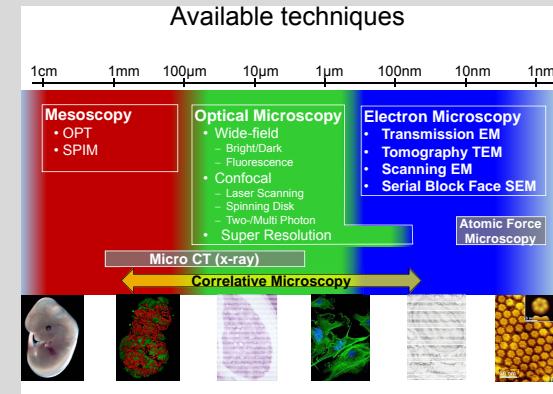


## Wavelength & Scale



## Wavelength & Scale



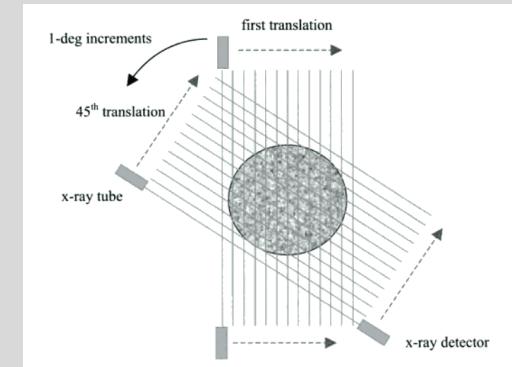
Yury Belyaev, MIC, slide from internal seminar presentation

## History

- Some history is found in [Cormack1963, Hsieh2003]
- First, second and third generation of scanners

## History

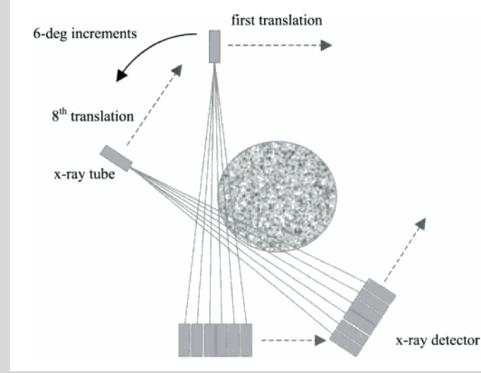
- Some history is found in [Cormack1963, Hsieh2003]
- First, second and third generation of scanners



From [Hsieh2003], Figure 1.12

## History

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## History

- Some history is found in [Cormack1963, Hsieh2003]
- First, second and third generation of scanners

From [Hsieh2003], Figure 1.14

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## Machinery II

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## How?

- Training for 5 w, 5 d/w, 6 h/d, at 66 % of critical speed [Palstra2010]
  - Endurance
- Morphology & Physiology
  - Body size & weight
  - O<sub>2</sub> consumption
- Scanning electron microscopy
  - Gill structure
- Critical point drying, µCT imaging, delineation in CTAn and analysis
  - Gill volume, structure and complexity



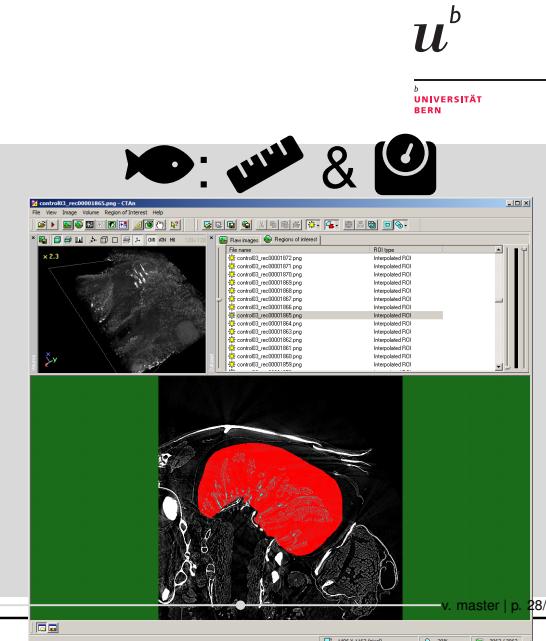
v. master | p. 28/35

## How?

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## How?

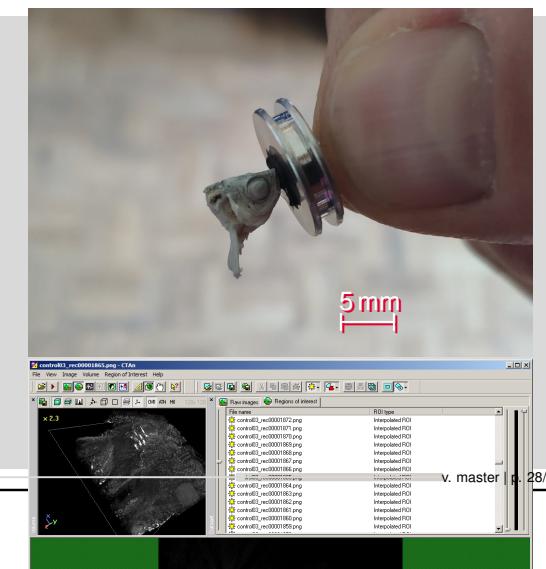
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## How?

[gph.is/2nqkple](http://gph.is/2nqkple)

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  - Endurance
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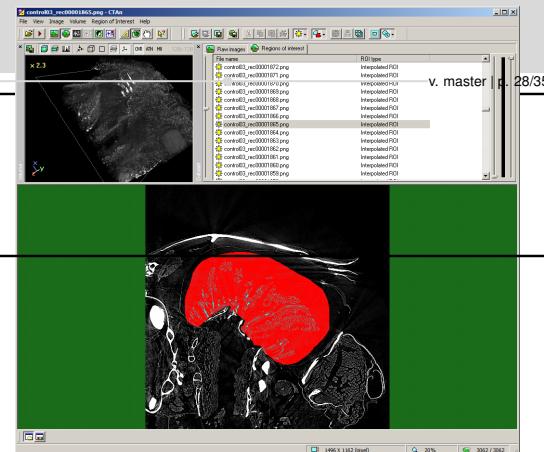


## How?

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```

Scanner=Skyscan1172
Instrument S/N=12001199
Hardware version=F
Software=Version 1. 5 (build 23)
Filename Prefix=Control05
Number of Files= 3979
Source Voltage (kV)= 49
Source Current (uA)= 167
Number of Rows= 2672
Number of Columns= 4000
Image Pixel Size (um)= 1.66
Object to Source (mm)=40.030
Camera to Source (mm)=212.399
Filter=No Filter
Exposure (ms)= 890
Rotation Step (deg)=0.050
Frame Averaging=ON (6)
Scan duration=08:55:28
Reconstruction Program=NRecon
Program Version=Version: 1.7.1.0
  
```



## Gill complexity

