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28 y.o. ♂ HIV<sup>+</sup> Complaint: hacking cough - night sweats.  
Fever - 3 weeks  
weight loss  
hemoptysis

Sputum analysis  
→ Auramine-Rhodamine.

The causative agent ⊖ leukocyte migration and ⊖ ETC  
thanks to which of the following?

CORD FACTOR

Characteristic products

- A. Trehalose dimycolate
- B. Sulfatide ⊖ phagosome / lysosome fusion
- C. Niacin
- D. Catalase (  $H_2O_2 \rightarrow H_2O + \frac{1}{2}O_2$  )
- E. Tuberculin (PPD - CMI → granulomas)

⊕ at 37°C heat sensitive  
⊖ at 68°C (lab)

Poorly GRAM<sup>+</sup> Rod Screen auramine rhodamine (sensitivity)

ACID FAST (Nocardia partial  
Cyst Isospora, Cryptosporidium)

Aerobe.

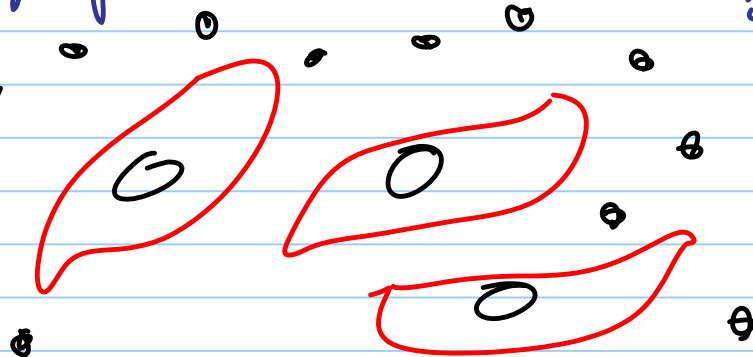
Respiratory droplets

Waxy wall ⊖ desiccation

Macrophages → CM1 (Th<sub>1</sub> / γ IFN)

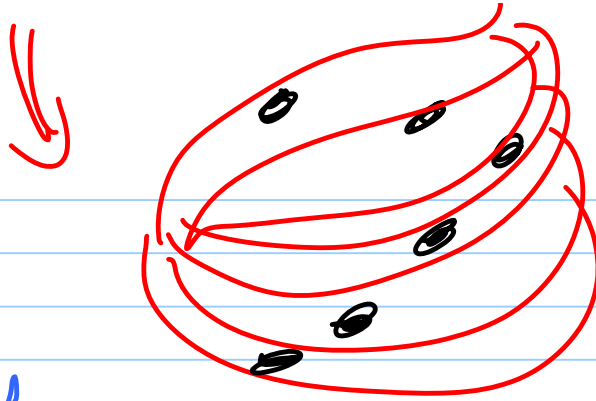
Th<sub>1</sub> ↓  
Lymph

γ IFN



activate macrophages  
= EPITHELIOD cells

granulomas  
are CASEATING  
liquef. necrosis



Giant Cells  
=> Langhans cell