Atypical Mycobacteria

- More than a dozen species skin inoculation
- Holes heal
- Slow growers (2-3 weeks)
  - M. marinum, M. ulcerans
  - 2-3 weeks
- Fast growers (3-5 days)
  - M. immunogenum
- Presentation runs the gamut
  - Scaly plaques & nodules
  - Pustules
  - Soft, indurated nodules
  - Drainage sinuses
  - Oozing discharges

Draining sinuses
Scaly plaques & nodules
Atypical Mycobacteria

- **M. Immunogenenum**
  - Historically associated with metal workers
  - Resistant to chlorine, formaldehyde, other sanitation chemicals
  - Will grow in distilled water
  - Increasing cases
  - No standard, recommended oral therapy

Atypical Bacteria

- **Nocardia spp.**
  - Gram-positive, acid-fast, & slow-growing
  - Soil worldwide
  - Primary cutaneous nocardiosis
    - Puncture wound with purulent discharge
    - Superficial, mycetoma, lymphocutaneous presentations
  - Superficial
    - Enlarging painless nodule that suppurates sulfur granules
    - Foot
      - Possible deeper involvement

- **Lymphocutaneous**
  - Days to weeks post-trauma
  - Crusted pustule or abscess resistant to antibiotics
  - Treatment: sulfonamides, minocycline
  - Excise abscesses
  - For 6-12 weeks local treatment, immunocompetent