- Half the DNA of other prokaryotes •
 - Less than 500 proteins encoded

Archaea

- Cell wall other than peptidoglycan •
- Non-fatty acid membrane •
- No chlorophyll •
 - No photosynthesis
- Some generate methane •
 - o Gas
- Won't be killed by streptomycin •
- May contain introns •
- Many are **extremophiles** ٠
 - Live in extreme environments 0
 - Where they were first discovered
 - Hot, salty, or acidic environments
 - Some 0
 - Live in moderate environments
 - Resistance to UV radiation
 - Degrade nuclear waste
 - sale.co.uk Residential hot water heaters
 - e off of Break down oil restruction
 - 170+ degree anreaheit
- Extremely diverge
- a in geochemical ople n land and water Just beginning to province phylums.

Human Bacteria and Archaea

- Harmless prokaryotes in our bodies help crowd out pathogenic bacteria •
 - Antibiotics kill some of our harmless resident microbes 0
 - Can cause secondary infections
 - Diarrhea
 - Yeast infection
- Scalp
 - Moist oily skin 0
 - Many aerobic microbes 0
- Eyes
 - Sparse microbial population because: 0
 - Blinking, tears, enzymes 0
- Nose and throat
 - 0 Microbes colonize warm, moist, nutrient rich mucus membranes
- Mouth
 - 200 species of microbes 0
- Armpit
 - Warm, moist for abundant microbes