

CITROBACTER



Species - *C. Diversus*

- *C. Freundii*

- *C. Amalonicus*

Characteristics – gram rod

- encapsulated

- motile

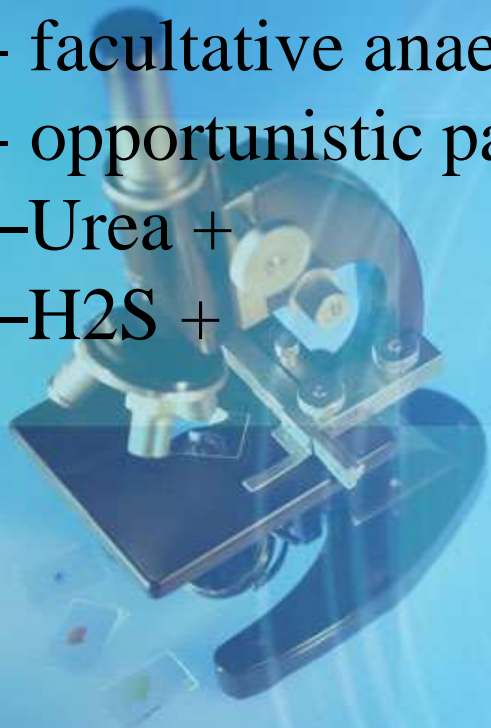
- non-spore forming

- facultative anaerobic

- opportunistic pathogen

–Urea +

–H₂S +



Antigenic sharing with Salmonella

Reservoirs - humans (normal flora of the GI tract) , animals and water

Transmission - fecal-oral , direct contact, perinatal
- contaminated food

Toxins - LPS

Diseases - neonatal meningitis and cerebral abscesses (caused primarily by *C.Diversus*)

- cystitis and renal abscesses (especially if urinary catheter, caused by all species of *Citrobacter*)
- septicemia (caused by all species of *Citrobacter*).
- Respiratory tract infections
- Occasionally wound infections, osteomyelitis, endocarditis, and meningitis.

Treatment – aminoglycosides and chloramphenicol