



Familia Mycoplasmataceae

MYCOPLASMA

UREAPLASMA

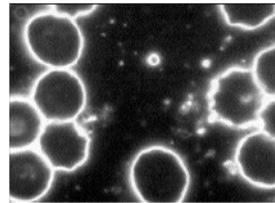
- sursa de energie utilizată
 - Mycoplasma – glucoza
 - Ureaplasma – ureea



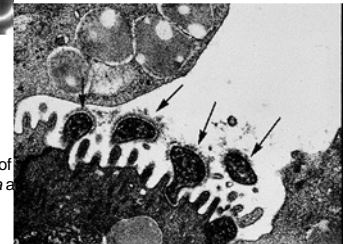
- habitat
 - microbiota orală:
 - Mycoplasma orale,
 - Mycoplasma salivarium
 - arbore respirator ca patogen
 - Mycoplasma pneumoniae
 - căile genitale
 - Ureaplasma urealyticum
 - Mycoplasma genitalium
 - Mycoplasma hominis
 - Mycoplasma fermentans

caractere morfotinctoriale

- foarte mici, 300 nm
- nu se văd la microscop optic
- nu au perete bacterian
 - mare plasticitate
 - polimorfism – forme filamentoase, bacilare, cocoide
- au
 - membrană citoplasmatică trilaminată
 - citoplasma
 - genom
 - ribozomi

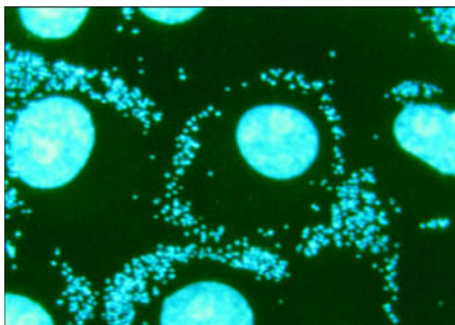


Mycoplasma seen using darkfield microscopy (1000x). Courtesy of Michael Coyle and Christine Baillie.



Photomicrograph of the nasal cavity of a desert tortoise. Multiple *Mycoplasma* are attached to the cell surface. From the [University of Florida](http://microbewiki.kenyon.edu/index.php/Mycoplasma).

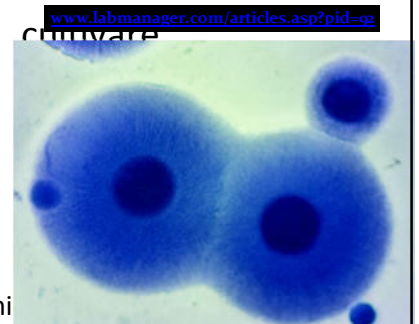
<http://microbewiki.kenyon.edu/index.php/Mycoplasma>



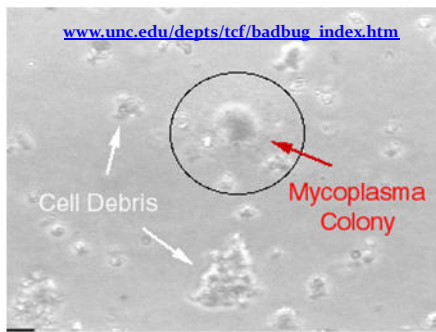
DNA Fluorochrome (Hoechst) staining assay binds to and reveals the large nuclei of cells in culture as well as the small mycoplasma surrounding the cells. Courtesy of Bionique Testing Laboratories.

www.labmanager.com/articles.asp?pid=92

- dificilă
- crește lent
- microaerofil
- medii bogate
- colonii foarte mici
 - “ou prăjit”



Direct culture method of mycoplasma colonies on agar. Courtesy of Bionique Testing Laboratories.



Mycoplasmas cannot be detected by the naked eye or even by typical light microscopy. Therefore, mycoplasma contamination must be detected by alternative [testing methods](#). The image provided here is of a mycoplasma "colony" after being propagated on special agar. The colony has a typical "fried egg" appearance.

caractere biochimice

- diferențiere Mycoplasma – Ureaplasma prin:
 - fermentarea glucozei
 - hidroliza ureei
 - hidroliza argininei



rezistența

- sensibili în mediul extern
 - variații de temperatură
 - variații de pH
 - variații de presiune osmotică
- rezistenți față de beta-lactamine



structura antigenică

- antigene specifice de grup
- antigene specifice de specie
- antigene comune cu structuri:
 - mușchi
 - creier
 - plămâni
 - limfocite
 - hematii



răspuns imun

- IgA secretorii
- tranzitorie
- reinfecții posibile



patogenitate

- virulență
 - proteina P1 – adezină
 - inhibitorul catalazei – acumulare de peroxid de hidrogen – distrugerea celulei



afecțiuni



- *Mycoplasma pneumoniae*
 - pneumonie atipică (Eaton)
 - copii, adult tână
- mycoplasme, ureaplasme genitale
 - adesea comensale
 - bărbat – uretrite, prostatite, epididimite
 - femei – vaginite, cervicite, salpingite, infecții urinare
 - nou-născut – infecție neonatală pulmonară cronică, meningită

