Mycoplasmas   
\*smallest bacteria >>small size and small genome

\*cell free media =synthetic media

\*M.pneumonia >>urease negative ,U.urealyticum >>urease positive

\*peroxidase >>free radical (oxidizing agent )>>>damage the respiratory tract

\*the species of mycoplasma differ from each other by : 1-their antigen 2-virulane factors 3-position (site of infection )

\*mycoplasma may cause hemolytic anemia in severe cases

\*mild pneumonia =atypical pneumonia =walking pneumonia

\*اكتر بكتيريا بتعمل pneumonia هي streptococcus pnemonia و neisseria meningitis (الklibsella بتعمل pneumonia لكن بنسب قليلة )

\*the infectious dose in respiratory tract is less than in gi tract >>because of acidity in gi \*remember that bordetella affects cilia in RS tract and mycoplasma affects cilia too \*

Legionella

\*living in humidified places;air condition

\*the colony of it is grayish in color

\*it is fastidious

\*to distinguish between species ;part of them are oxidase positive and another are oxidase negative

\*Legionella isn't normal flora

\*it uses iron as growth factor and takes it from hemoglobin and transferrin

\*it affects liver by its toxin ,so the liver enzymes may increase in blood

\*doctor said that we can used PCR as a diagnostic test for legionella in RS infection