



web: ecng.co.in

History in Nephrology

Legends whose contributions inspire us even today!

Streptomyces (Filamentous Bacteria)

Can a bacteria be a legend in history of an antibiotic

Yes – very much so. In microbiology, certain bacteria become “legends” because of their pivotal role in the discovery, development, or understanding of antibiotics.

A classic example is *Staphylococcus aureus*.

- It played a key role in the discovery of Penicillin by Alexander Fleming in 1928**

Fosfomycin was discovered in 1969 by researchers at the Spanish pharmaceutical company Compañía Española de Penicilina Y Antibióticos (CEPA)

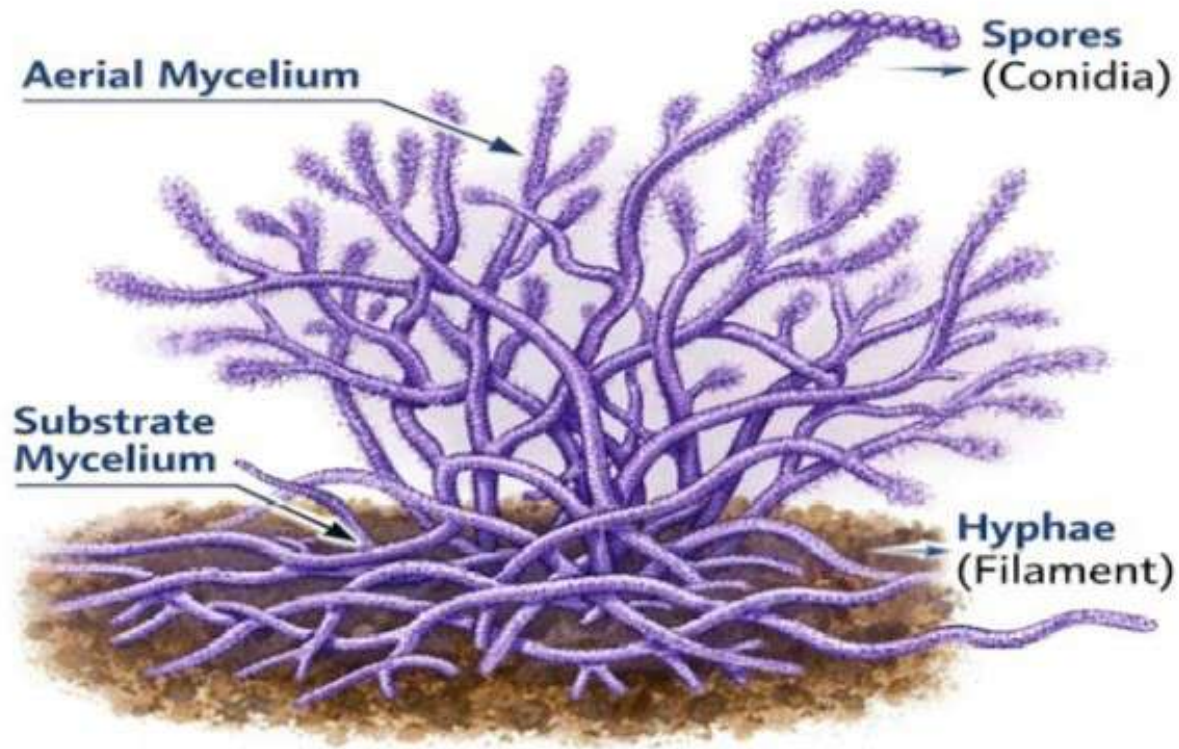
Key Scientists involved:

- **Antonio Rodriguez**
- **Santos Mata.**

They isolated fosfomycin from Streptomyces Species (soil Bacteria), initially named:

“ Phosphonomycin”

***Streptomyces* (Filamentous Bacteria)**



Historical Significance

- **One of the first antibiotics with a unique mechanism (MurA inhibition)**
- **Rediscovered importance today due to multidrug-resistant (MDR) infections**