

FACULTY OF ENGINEERING &TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

Antibiotics from microbes

- ❖Microbial are rich sources from which several broad spectrum as well as narrow spectrum antimicrobial compounds can be produced.
- ❖ Microbes are grown in suitable culture medium for suitable length of time favoring production of high value microbial metabolites.
- ❖These microbial metabolites are used to treat disease caused by bacteria by killing them.
- ❖These antimicrobial metabolites are called as antibiotics. Eg. Tetracycline, Chloramphenicol, Streptomycin, Penicillin, Cephalosporin etc.

Table 35.2 Microbial Sources of Some Antibiotics

Microorganism	Antibiotic
Bacteria	
Streptomyces spp.	Amphotericin B
	Chloramphenicol (also synthetic)
	Erythromycin
	Kanamycin
	Neomycin
	Nystatin
	Rifampin
	Streptomycin
	Tetracyclines
	Vancomycin
Micromonospora spp.	Gentamicin
Bacillus spp.	Bacitracin
	Polymyxins
Fungi	
Penicillium spp.	Griseofulvin
	Penicillin
Cephalosporium spp.	Cephalosporins