

How does molecular biology change identification and susceptibility testing of bacteria

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Objectives

1. To compare classical and molecular methods used in identification and susceptibility testing of bacteria
2. To present the indications for using molecular methods with special highlights on uncultivable bacteria
3. Short review of other organisms

Content

1. Bacterial uncultivability- practical and theoretical implications
2. General presentation of molecular methods used in identification and susceptibility testing of bacteria: nucleic acid amplification techniques- hybrid capture system, PCR bDNA based signal amplification
3. Application of molecular techniques in antimicrobial sensitivity testing

Conclusion

Molecular biology techniques have opened a new door in diagnosis, epidemiology and microbiology of organisms. The students must take home the message that this lecture is a starting point for future directions of their personal research in their careers as microbiologists or ID physicians.

Recommended reading

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