MOLECULAR MECHANISMS OF ANTIBIOTIC RESISTANCE

General Surgery RPAC Educational Day
10 February 2000

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I. Antibiotic Resistance: The Problem-The Dilemma
   Defined
   Origin
   Historical

II. Categories of Resistance
   Natural intrinsic
   Mutational
   Extrachromosomal

III. Genetic basis of Resistance
   Genes and mechanisms

IV. Current Problem Areas
   MRSA
   VRE
   MDR-TB
   Gram negatives

V. Factors that Contribute to Emergence and Spread
   Health Professionals
   Regulations (or lack)
   Agriculture

VI. Future Problems and Solutions
   VISA > VRSA ???
   New diagnostics
   New approaches in antimicrobial design