**NUCLEOTIDES. CHEMISTRY AND METABOLISM.**

Nucleoprotein metabolism: digestion and absorption in small intestine. Nucleotide turnover. De novo synthesis of purine and pyrimidine nucleotides: substrates, pathways, regulation. Deoxyribonucleotide formation. Salvage pathway for purine and pyrimidine bases. Conversion of the MNP to DNP and TNP. Degradation of purine and pyrimidine nucleotides. Diseases associated with defects of nucleotide metabolism (gout, orotic aciduria).