

# Principles of Synthesis of Aromatic Heterocycles

## *Intramolecular Cyclization*

*Classic Synthetic Methods*

*The Paal-Knorr Synthesis*

*Synthesis of Pyrazines*

*Formation of Pyrimidines*

*Electrophilic Attack of Carbonyl Groups*

*Nucleophilic Attack on Acid Derivatives*

*Closing Rings with Aldol Condensation*

