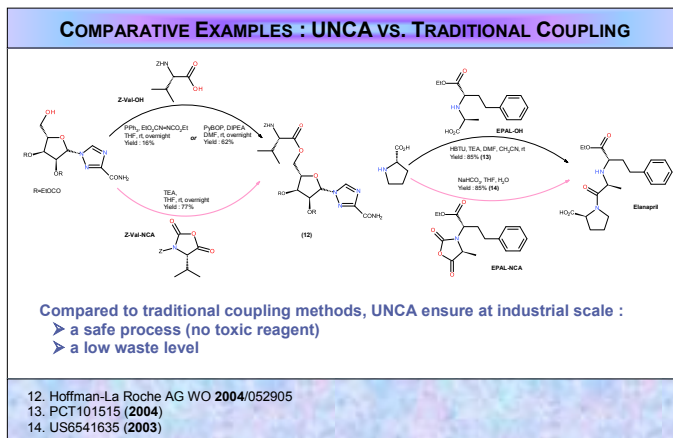
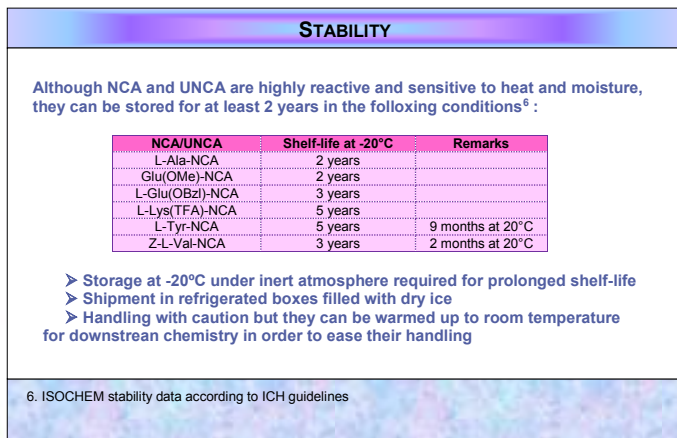
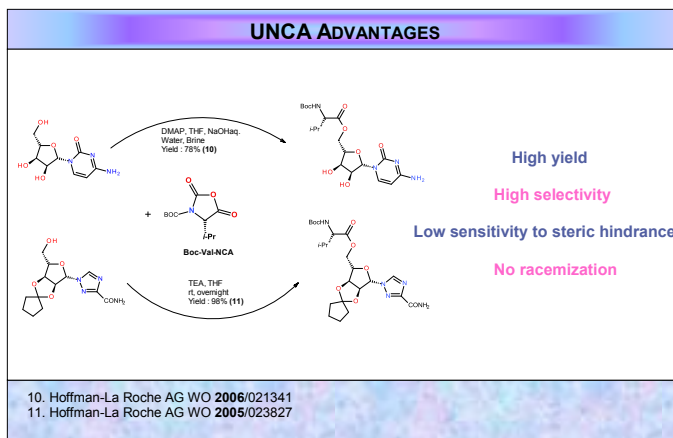
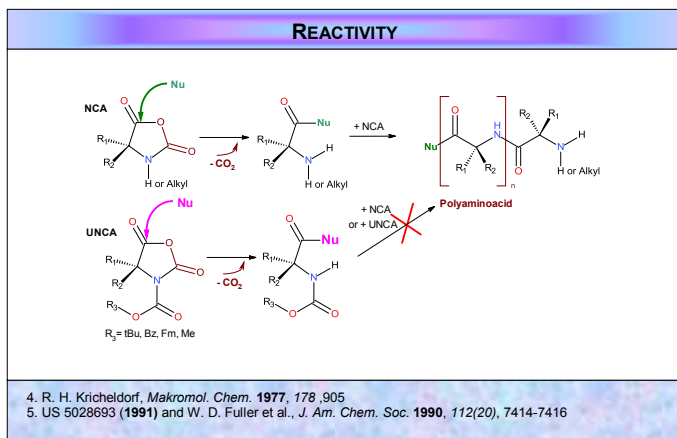
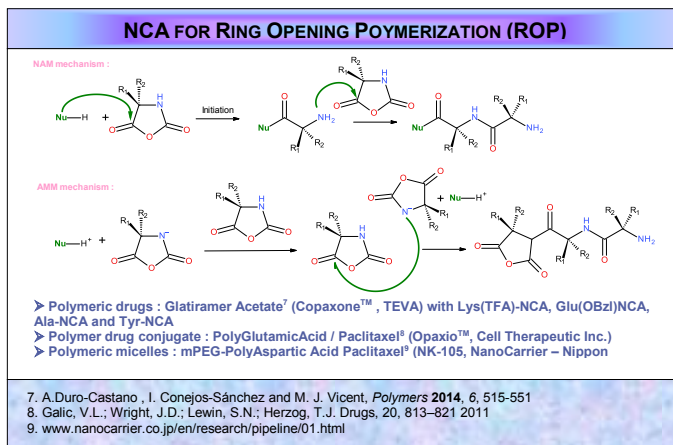
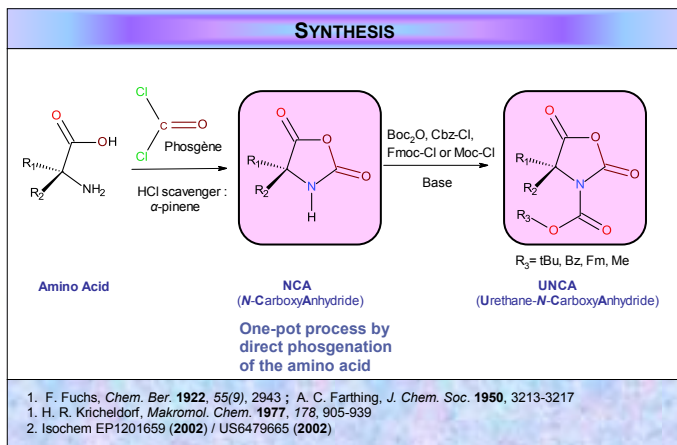


# NCA and UNCA for Activation of Amino Acids Synthesis of Peptide Bonds, Polymers, and Amino Acid Derivatives

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**Solution-phase manufacturing of peptide bonds, peptide-based copolymers and amino acid derivatives using activated amino acids such as  $\alpha$ -Amino Acid *N*-Carboxy Anhydrides (NCA) and their corresponding Urethane *N*-Carboxy Anhydride (UNCA) provide an industrial and greener alternative to traditional coupling methods : no hazardous or energetic coupling reagents required, only CO<sub>2</sub> as a by-product, reduced work-up with less waste, and no racemization.**



**NCA provide useful building blocks for the growing field of peptide copolymer synthesis. UNCA ensure industrially viable routes for peptide bonds synthesis without polymerization risk. Many NCA and UNCA are commercially available (>50) and can be produced at large scale.**

<http://isochem.eu/product>

