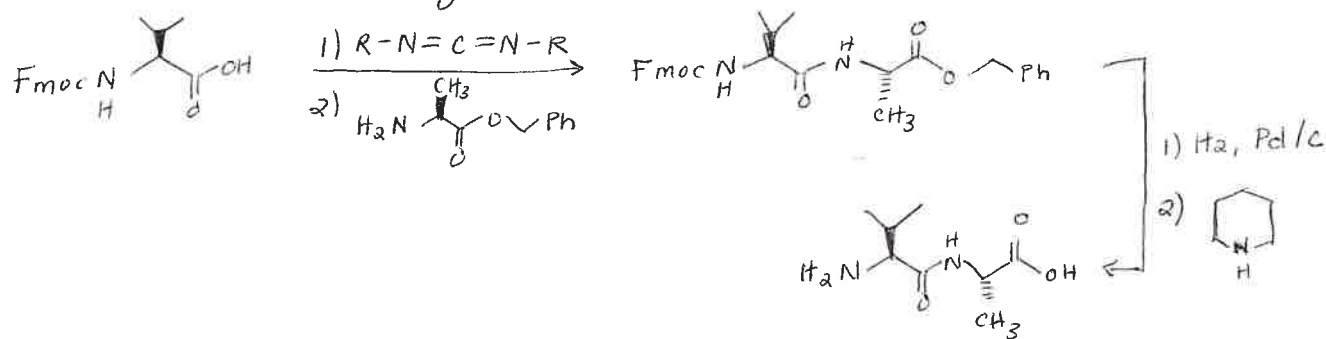


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Final Exam: Tues. May 12 BID Ingraham
 Office hours: Today, until 3:45
 Monday 1-2 PM

Recall: Peptide protein synthesis - must create amide bonds in proper sequence

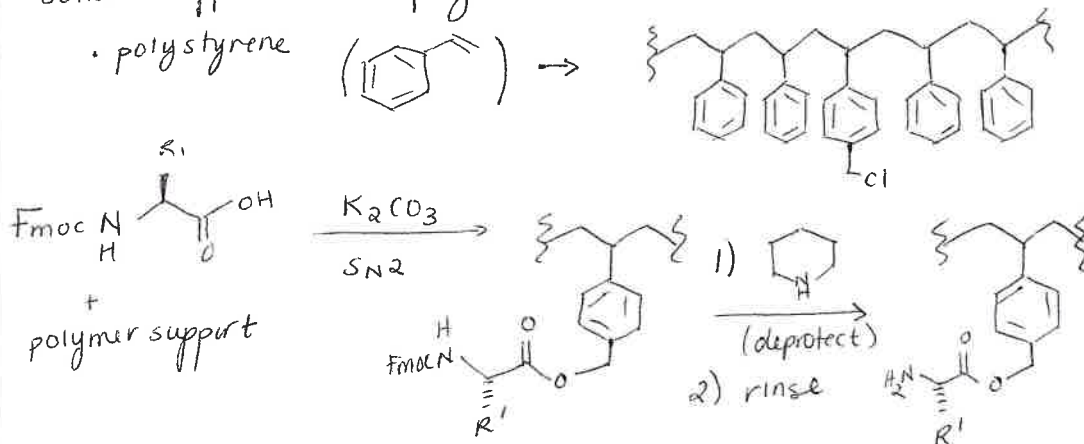


Consider: Most proteins have >100 residues

Yield Per Amide Bond	Total Yield 25 steps	Total Yield 50 steps
99%	~ 80%	~ 60%
96%	~ 40%	~ 15%

⇒ Solid-Phase Synthesis

"Solid support" - a polymer
 • polystyrene



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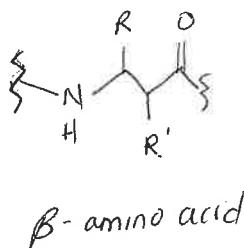
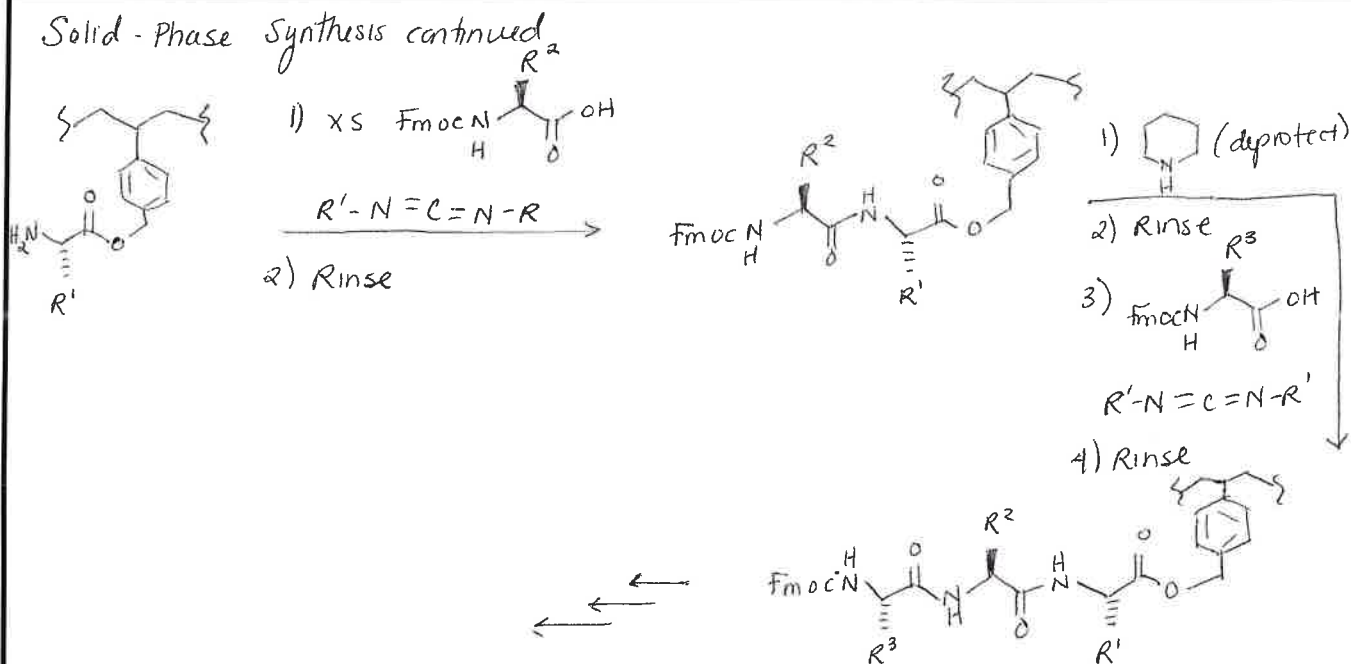
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Solid-Phase Synthesis continued



} cannot be incorporated naturally into growing protein chain
→ can be included chemically!
→ would like to make proteins of 200 or 500 amino acids chemically: maybe one of you will discover a way!

Chemistry Career Paths: Find information at course website.

Interest in chemistry

→ B.S. Chemistry

⇒ Research experience!

→ Ph.D program (5-6 years, mostly) research

↓ Masters
Job

→ next page

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