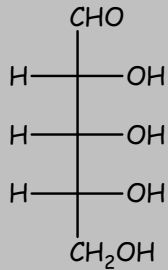
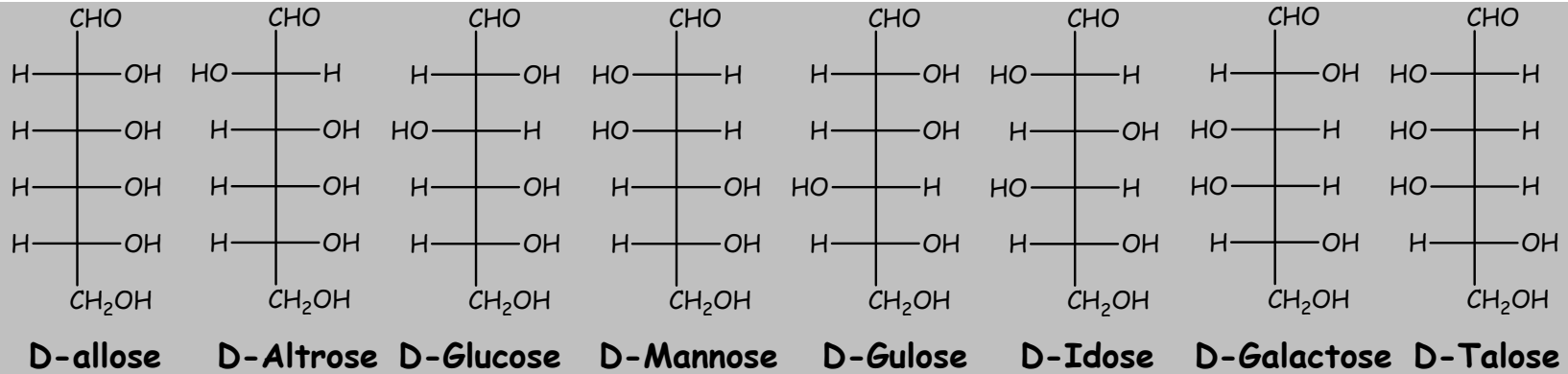
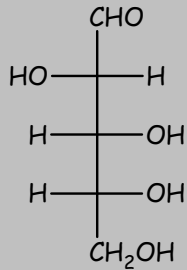


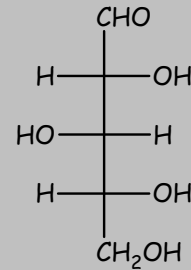
D- Aldose Family



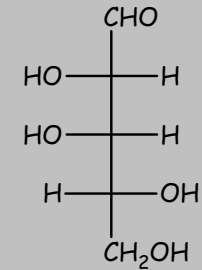
D-Ribose



D-Arabinose



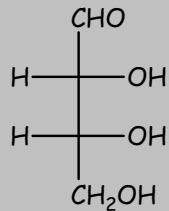
D-Xylose



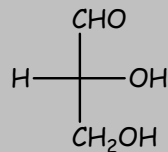
D-Lyxose



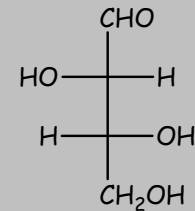
Chain-lengthening
Kiliani-Fischer
Synthesis



D-Erythrose



D-Glyceraldehyde



D-Threose

Chain-shortening
Ruff Degradation