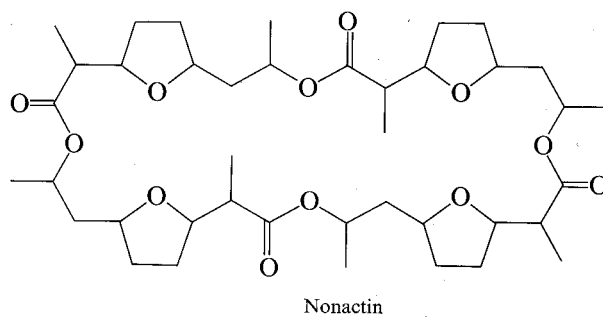
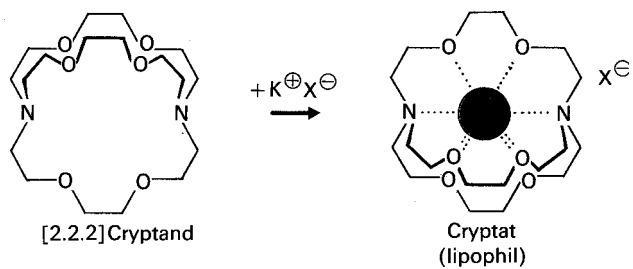
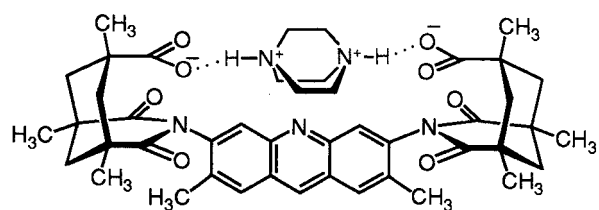
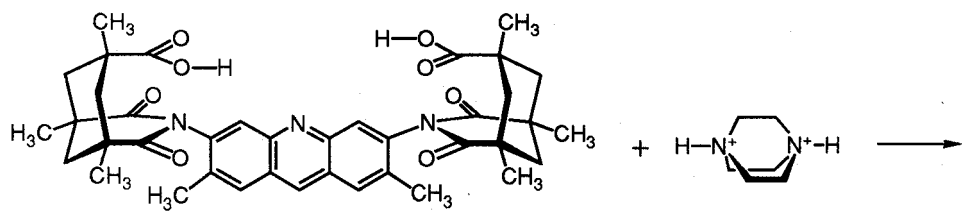
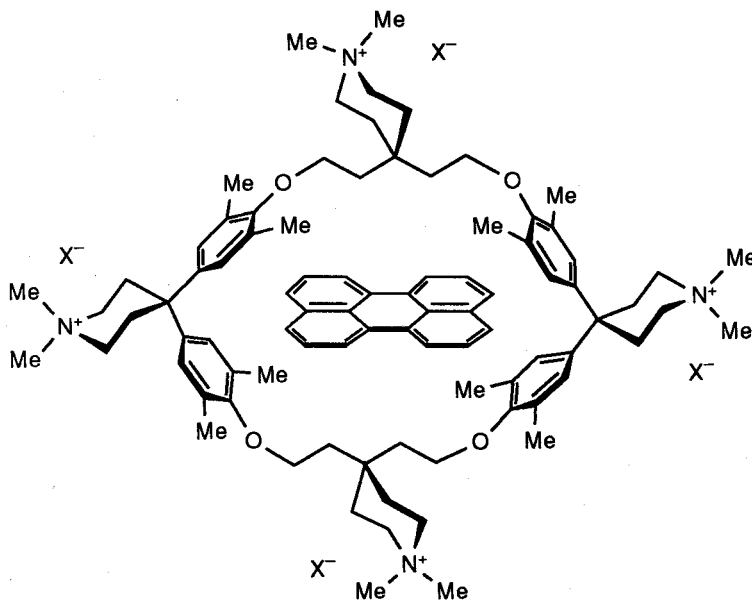
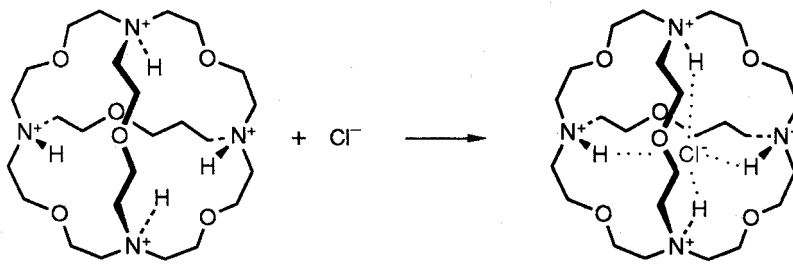


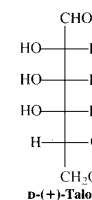
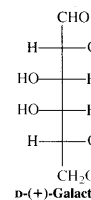
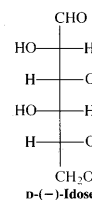
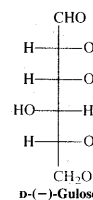
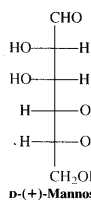
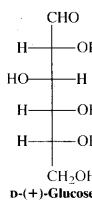
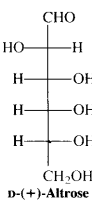
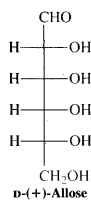
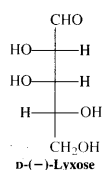
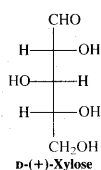
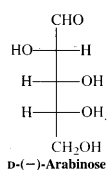
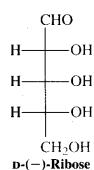
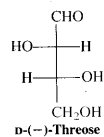
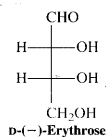
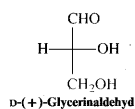
Molekulare Erkennung I



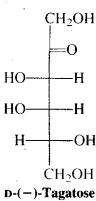
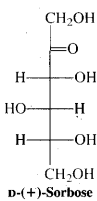
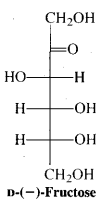
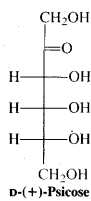
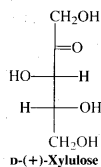
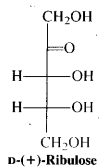
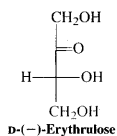
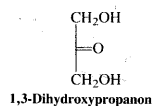
Molekulare Erkennung II



Monosaccharide I

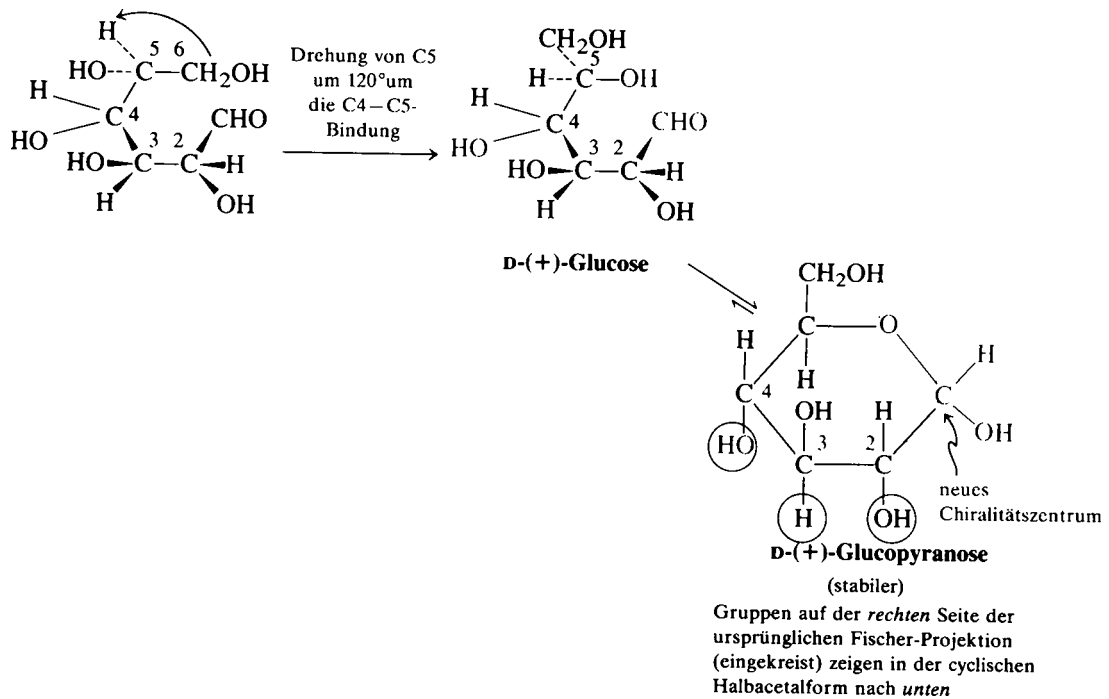
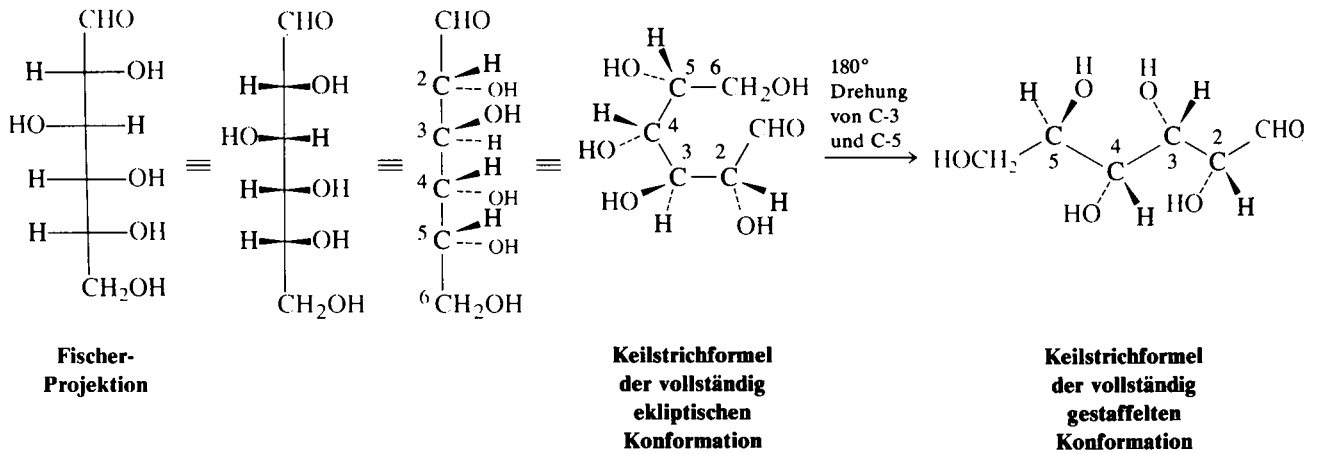


Die D-Aldosen (bis zu den Aldoheptosen), das Vorzeichen ihres optischen Drehwerts und ihre Trivialnamen.

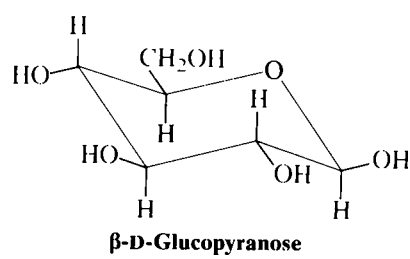
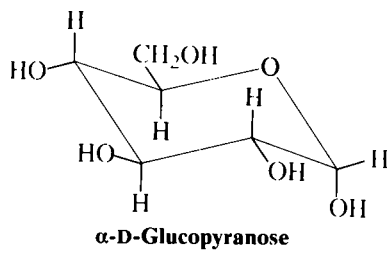
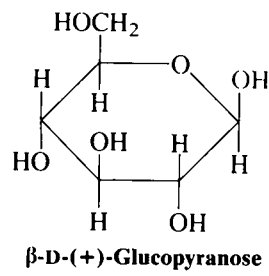
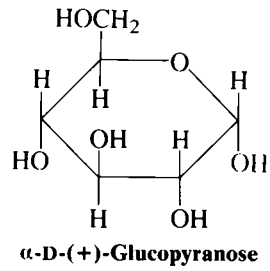


Die D-Ketosen (bis zu den Ketoheptosen), das Vorzeichen ihres optischen Drehwerts und ihre Trivialnamen.

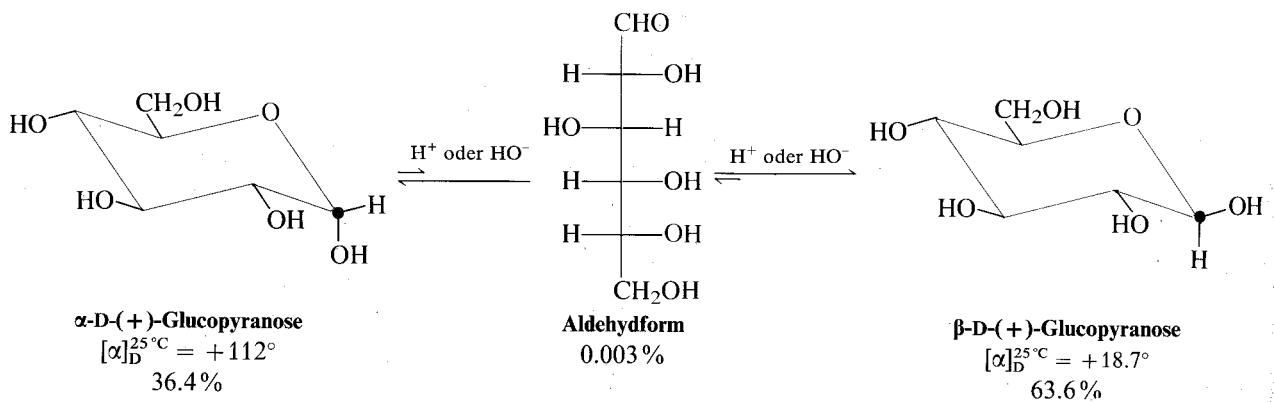
Monosaccharide II



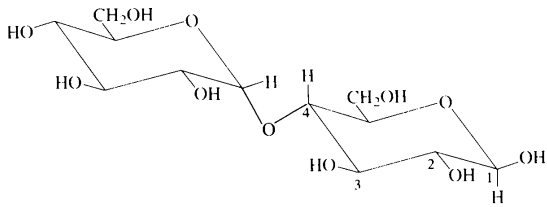
Monosaccharide III



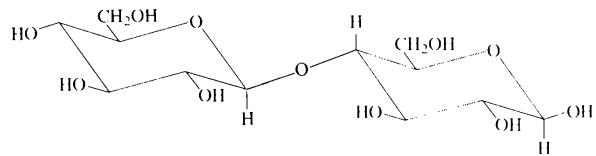
Mutarotation der Glucose:



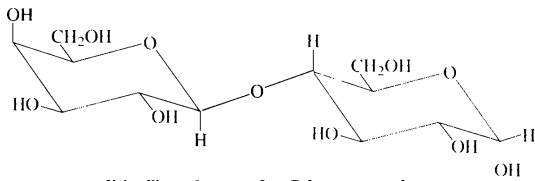
Einige Disaccharide und Aminosucker-Derivate



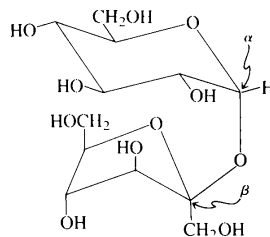
β -Maltose (α -D-Glucopyranosyl- β -D-glucopyranose)



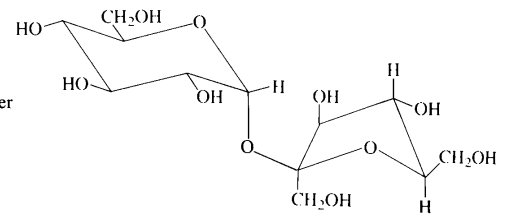
β -Cellobiose, β -D-Glucopyranosyl- β -D-glucopyranose



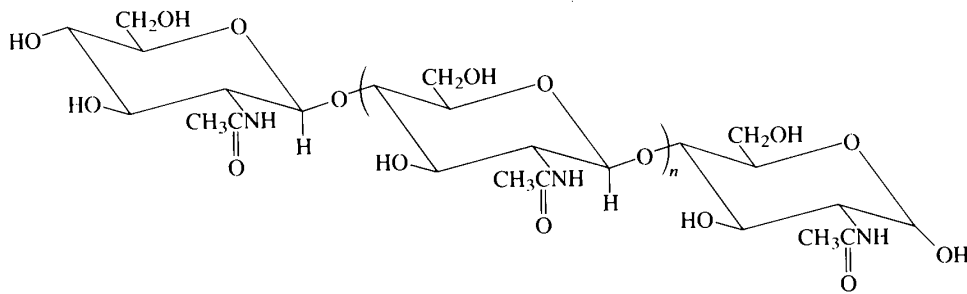
Kristalline α -Lactose, β -D-Galactopyranosyl- α -D-glucopyranose



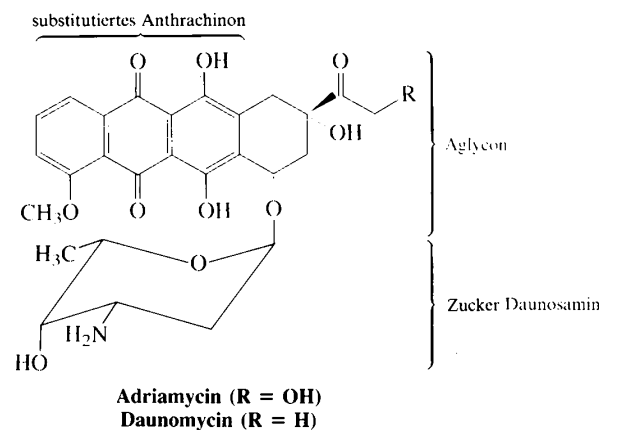
oder



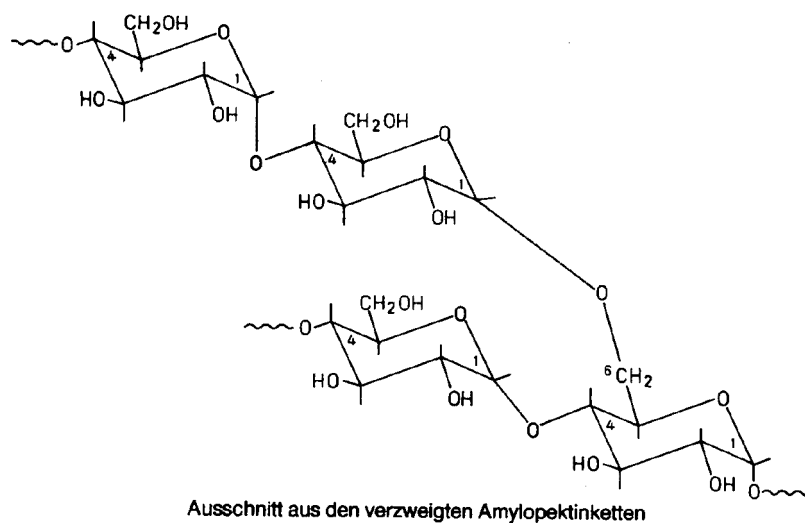
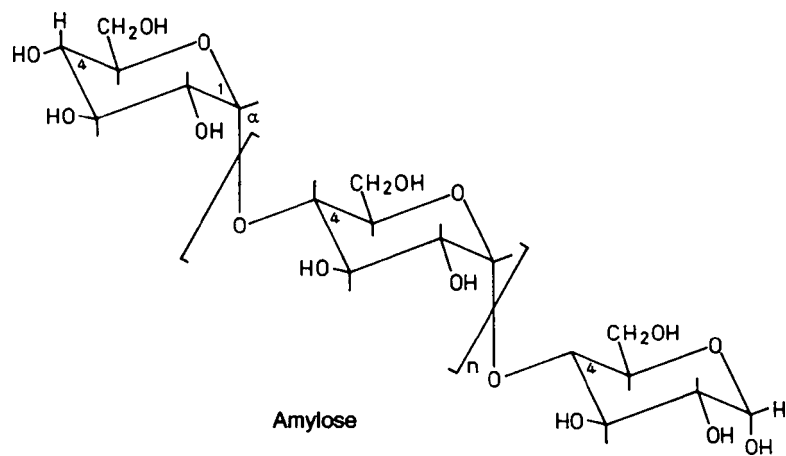
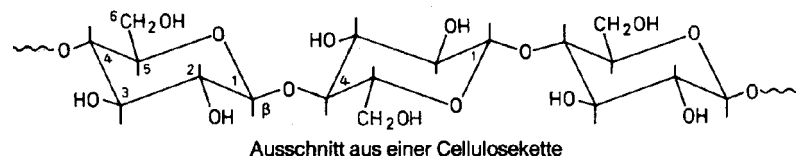
Saccharose (α -D-Glucopyranosyl- β -D-fructofuranosid)



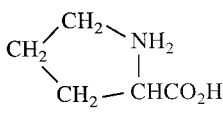
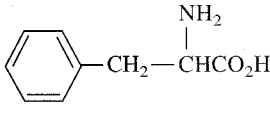
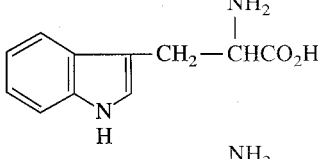
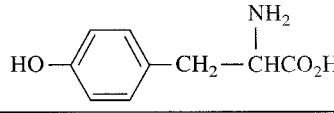
Chitin



Einige Polysaccharide



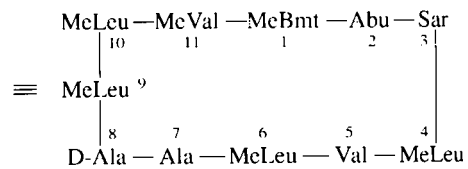
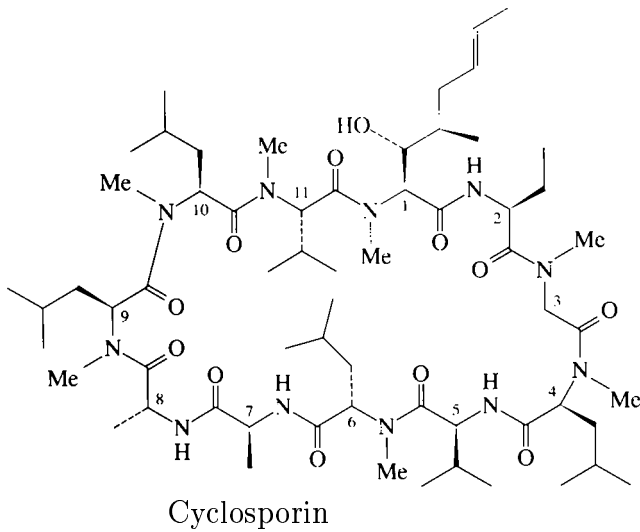
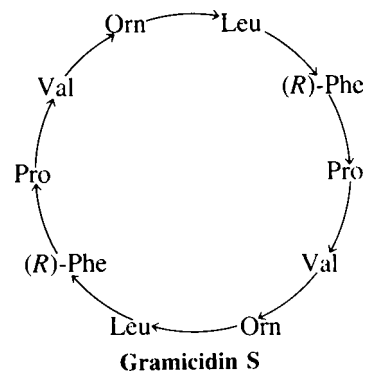
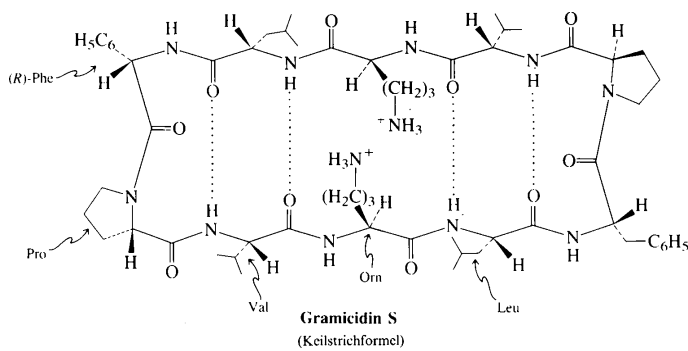
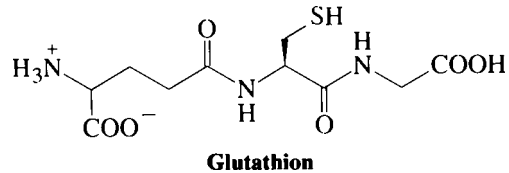
Häufige Aminosäuren I

$\begin{array}{c} \text{NH}_2 \\ \\ \text{R}-\text{CHCO}_2\text{H} \end{array}$	Name	Abkürzung	Ein-Buchstaben-Code
$\begin{array}{c} \text{NH}_2 \\ \\ \text{H}-\text{CHCO}_2\text{H} \end{array}$	Glycin	Gly	G
$\begin{array}{c} \text{NH}_2 \\ \\ \text{CH}_3-\text{CHCO}_2\text{H} \end{array}$	Alanin	Ala	A
$\begin{array}{c} \text{CH}_3 \quad \text{NH}_2 \\ \quad \\ \text{CH}_3\text{CH}-\text{CHCO}_2\text{H} \end{array}$	Valin	Val	V
$\begin{array}{c} \text{CH}_3 \quad \text{NH}_2 \\ \quad \\ \text{CH}_3\text{CHCH}_2-\text{CHCO}_2\text{H} \end{array}$	Leucin	Leu	L
$\begin{array}{c} \text{CH}_3 \quad \text{NH}_2 \\ \quad \\ \text{CH}_3\text{CH}_2\text{CH}-\text{CHCO}_2\text{H} \end{array}$	Isoleucin	Ile	I
$\begin{array}{c} \text{NH}_2 \\ \\ \text{CH}_3\text{SCH}_2\text{CH}_2-\text{CHCO}_2\text{H} \end{array}$	Methionin	Met	M
	Prolin	Pro	P
	Phenylalanin	Phe	F
	Tryptophan	Trp	W
$\begin{array}{c} \text{NH}_2 \\ \\ \text{HOCH}_2-\text{CHCO}_2\text{H} \end{array}$	Serin	Ser	S
$\begin{array}{c} \text{OH} \quad \text{NH}_2 \\ \quad \\ \text{CH}_3\text{CH}-\text{CHCO}_2\text{H} \end{array}$	Threonin	Thr	T
$\begin{array}{c} \text{NH}_2 \\ \\ \text{HSCH}_2-\text{CHCO}_2\text{H} \end{array}$	Cystein	Cys	C
	Tyrosin	Tyr	Y

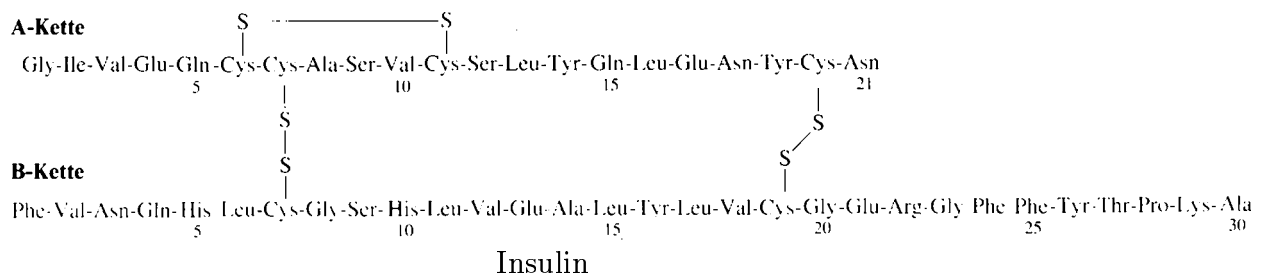
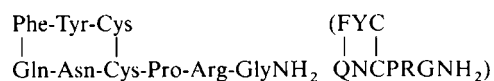
Häufige Aminosäuren II

$\begin{array}{c} \text{NH}_2 \\ \\ \text{R}-\text{CHCO}_2\text{H} \end{array}$	Name	Abkürzung	Ein-Buchstaben-Code
$\begin{array}{c} \text{O} \quad \text{NH}_2 \\ \quad \\ \text{H}_2\text{NCCH}_2-\text{CHCO}_2\text{H} \end{array}$	Asparagin	Asn	N
$\begin{array}{c} \text{O} \quad \text{NH}_2 \\ \quad \\ \text{H}_2\text{NCCH}_2\text{CH}_2-\text{CHCO}_2\text{H} \end{array}$	Glutamin	Gln	Q
$\begin{array}{c} \text{O} \quad \text{NH}_2 \\ \quad \\ \text{HOCCH}_2-\text{CHCO}_2\text{H} \end{array}$	Asparaginsäure	Asp	D
$\begin{array}{c} \text{O} \quad \text{NH}_2 \\ \quad \\ \text{HOCCH}_2\text{CH}_2-\text{CHCO}_2\text{H} \end{array}$	Glutaminsäure	Glu	E
$\begin{array}{c} \text{NH}_2 \\ \\ \text{H}_2\text{NCH}_2\text{CH}_2\text{CH}_2\text{CH}_2-\text{CHCO}_2\text{H} \end{array}$	Lysin	Lys	K
$\begin{array}{c} \text{NH} \quad \text{NH}_2 \\ \quad \\ \text{H}_2\text{NCNHCH}_2\text{CH}_2\text{CH}_2-\text{CHCO}_2\text{H} \end{array}$	Arginin	Arg	R
$\begin{array}{c} \text{NH}_2 \\ \\ \text{CH}_2-\text{CHCO}_2\text{H} \\ \\ \text{N} \\ / \quad \backslash \\ \text{N} \quad \text{H} \end{array}$	Histidin	His	H

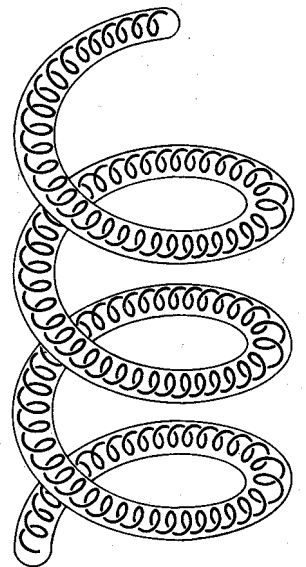
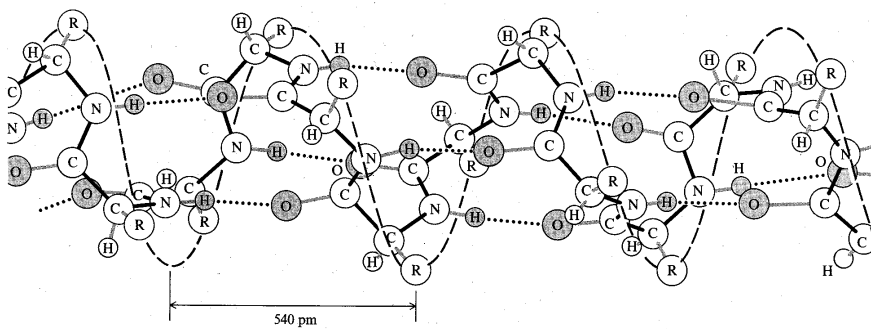
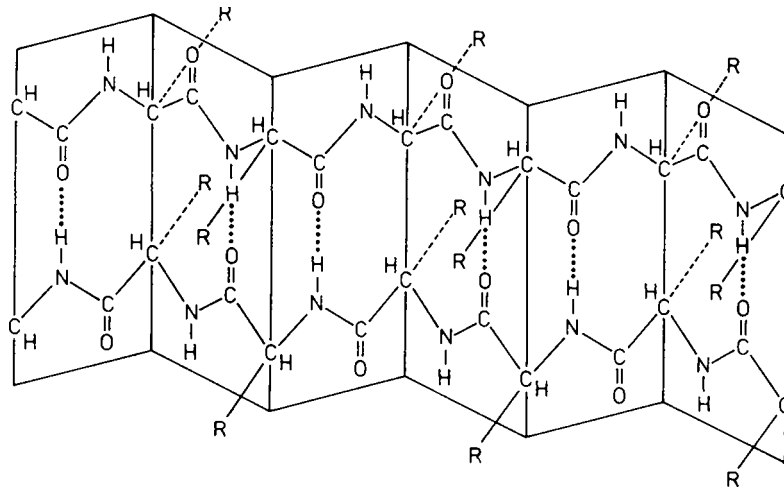
Einfache Peptide



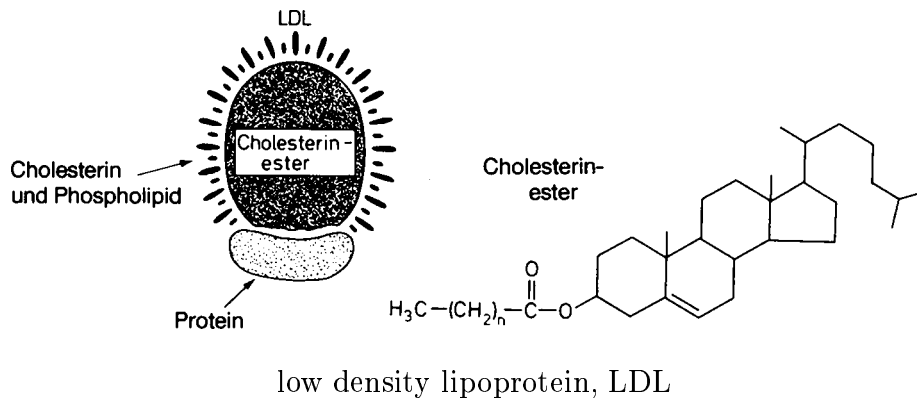
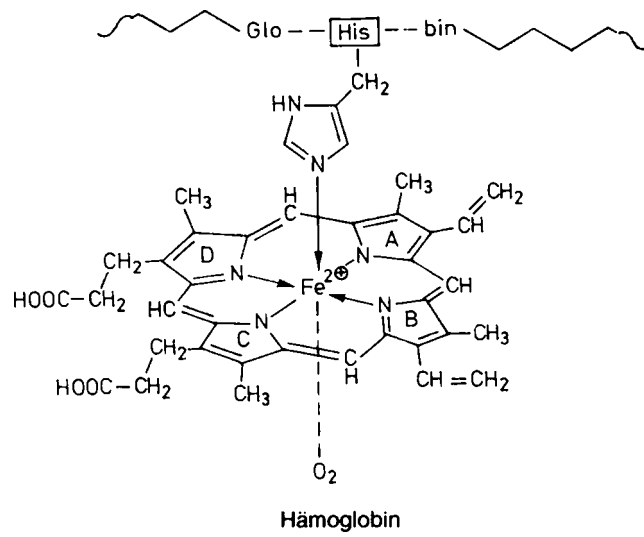
MeBmt = 2-Methylamino-3-hydroxy-4-methyloct-6-en-säure, Abu = (*S*)- α -Aminobuttersäure, Sar = *N*-Methylglycin, MeVal = *N*-Methylvalin, MeLeu = *N*-Methyleucin



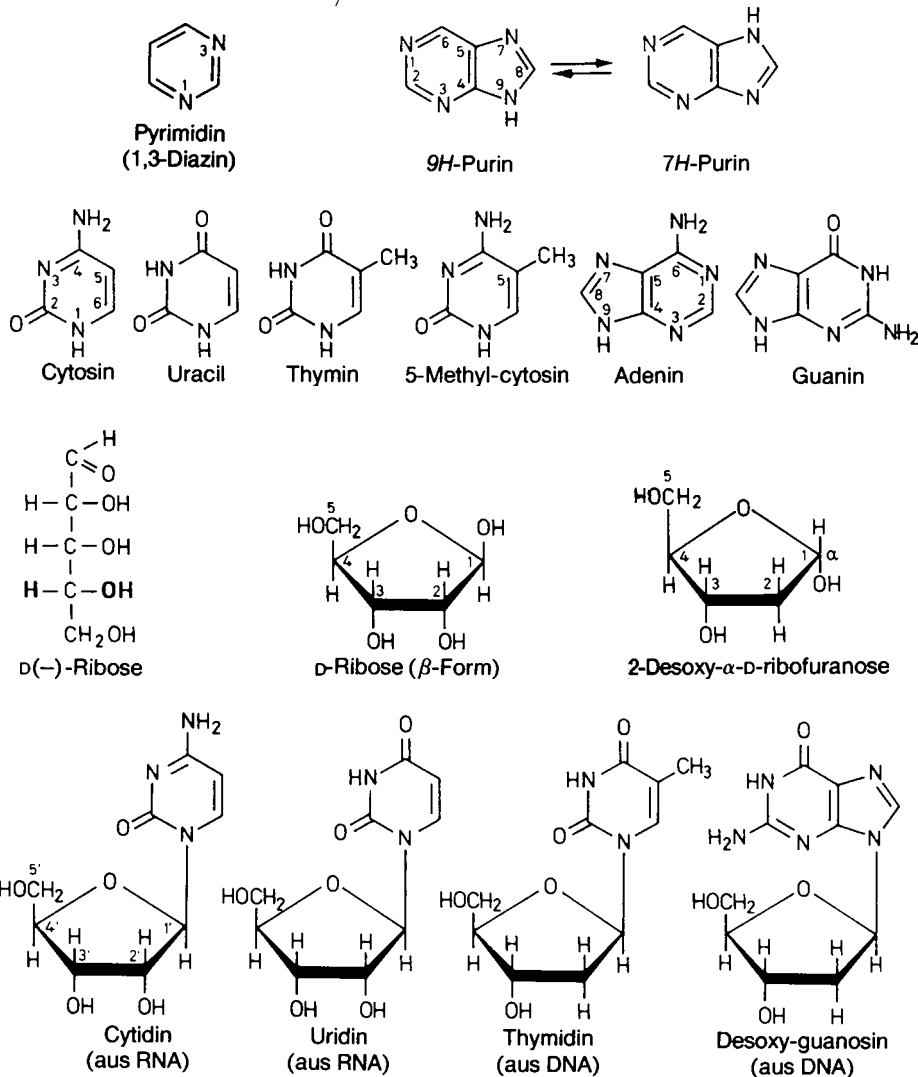
Sekundär- und Tertiärstruktur bei Peptiden



Einige Proteide

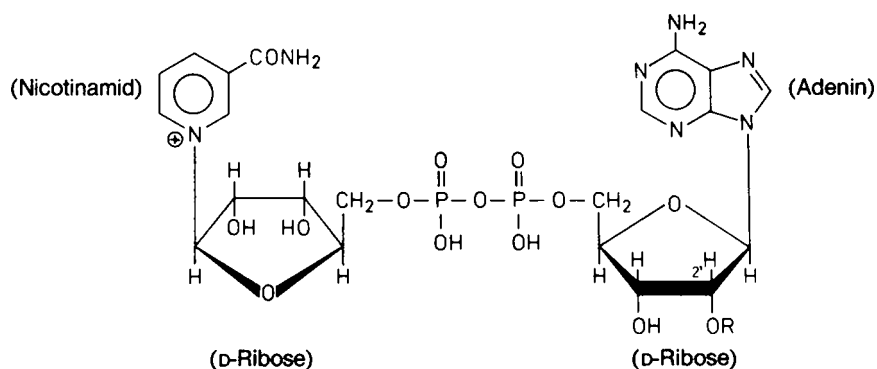


Nucleoside, Nucleotide und Nucleinsäuren I



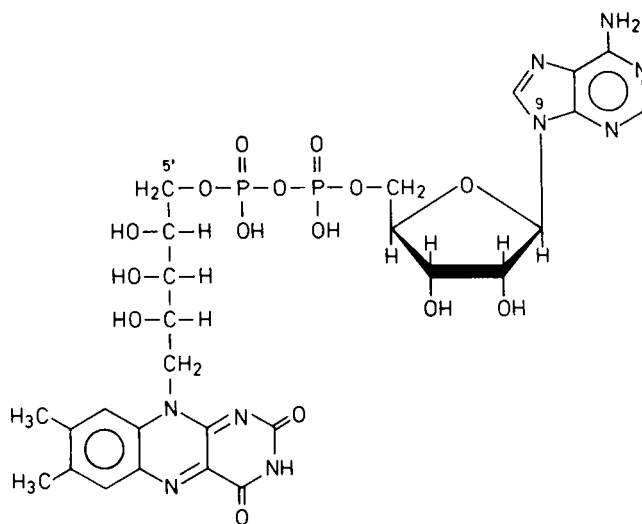
Base ¹	Nucleosid		Nucleotid: Nucleosid-5'-phosphat ²	
	Ribo-	Desoxyribo-	Ribo-	Desoxyribo-
Adenin (A)	Adenosin	Desoxyadenosin	Adenylsäure Adenosin-mono-phosphat (AMP)	Desoxyadenylsäure Desoxy-(dAMP)
Guanin (G)	Guanosin	Desoxyguanosin	Guanosin-mono-phosphat (GMP)	Desoxy-(dGMP)
Uracil (U)	Uridin	–	Uridin-mono-phosphat (UMP)	–
Cytosin (C)	Cytidin	Desoxycytidin	Cytidin-mono-phosphat (CMP)	Desoxy-(dCMP)
Thymin (T)	–	Desoxythymidin	–	Desoxythymidin-monophosphat (dTMP)

Nucleoside, Nucleotide und Nucleinsäuren II

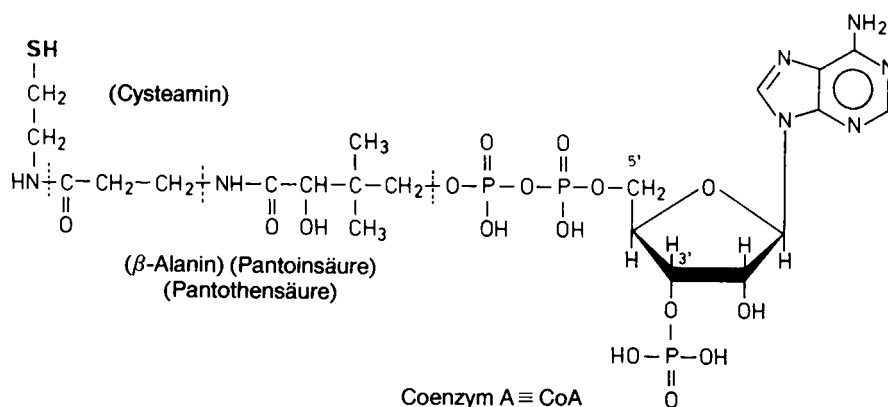
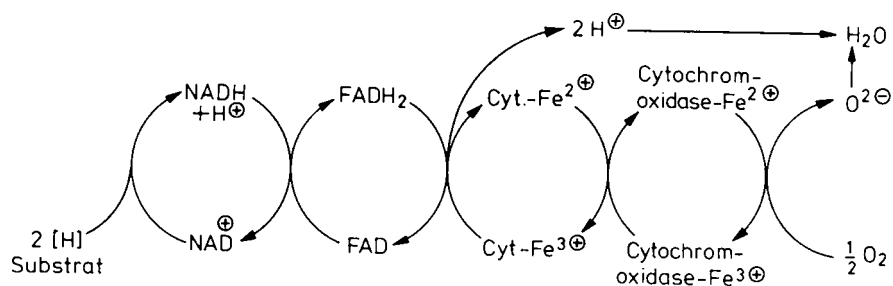


Nicotinamid-adenin-dinucleotid (NAD^+) $\text{R} = \text{H}$

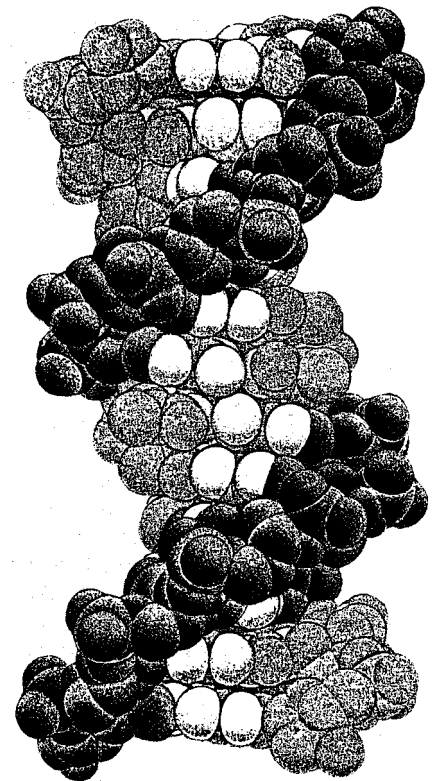
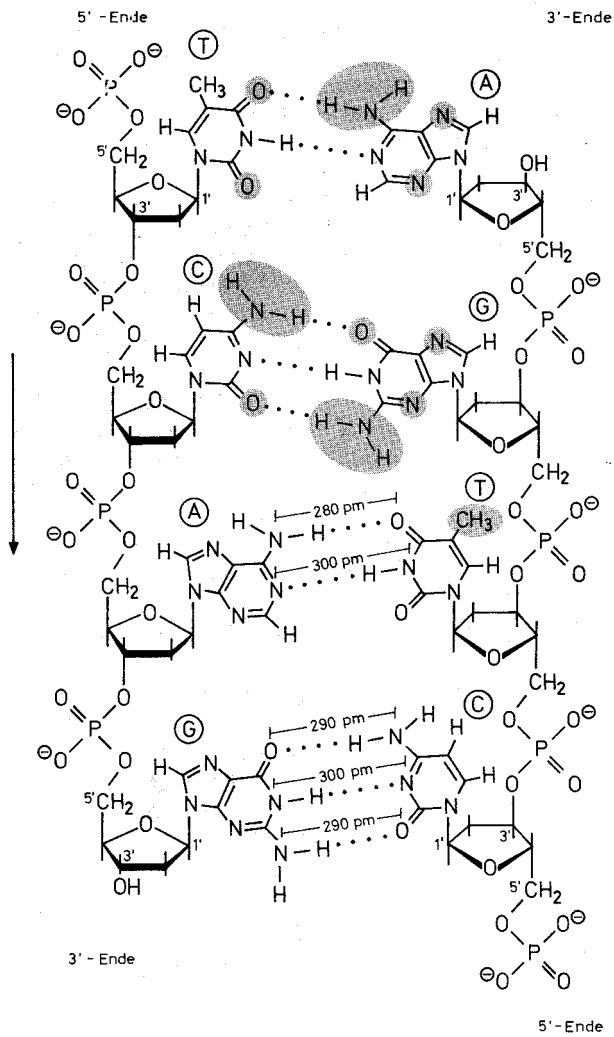
Nicotinamid-adenin-dinucleotid-phosphat (NADP^+) $\text{R} = \text{O}-\text{P}(\text{OH})_2$



Flavin-adenin-dinucleotid (FAD)



Nucleoside, Nucleotide und Nucleinsäuren III



abgekürzte Formulierung

