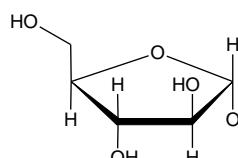
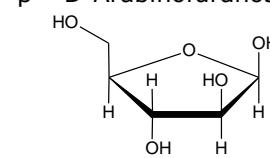
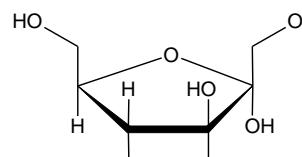
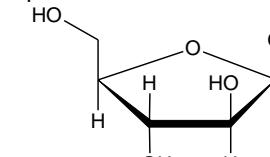
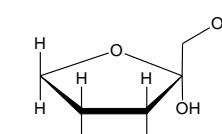
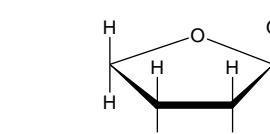
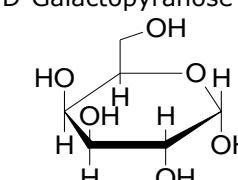
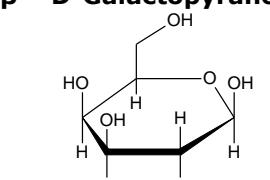
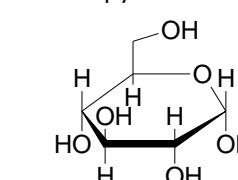
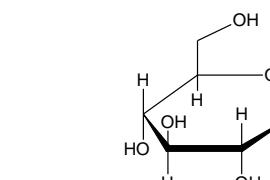
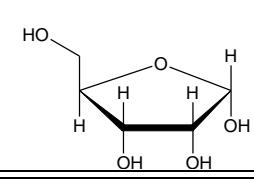
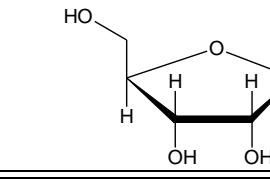
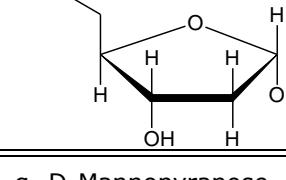
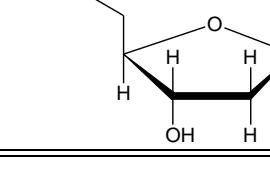
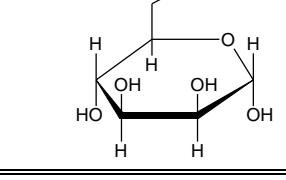


Lösungshinweise zur webbasierten Molekülbetrachtung

„Monosaccharide in FISCHER- und HAWORTH-Projektion - eine Übung zu FISCHER in HAWORTH-Projektionen“

	Name	offenkettige Form	Ringform	
			α	β
A	D-Arabinose	$\begin{array}{c} \text{H} & \text{C}=\text{O} \\ & \\ \text{HO}-\text{C}-\text{H} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Arabinofuranose 	β - D-Arabinofuranose 
B	D-Fructose	$\begin{array}{c} \text{CH}_2\text{OH} & \\ & \text{C}=\text{O} \\ & \\ \text{HO}-\text{C}-\text{H} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Fructofuranose 	β - D-Fructofuranose 
C	D-Ribulose	$\begin{array}{c} \text{CH}_2\text{OH} & \\ & \text{C}=\text{O} \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Ribulofuranose 	β - D-Ribulofuranose 
D	D-Galactose	$\begin{array}{c} \text{H} & \text{C}=\text{O} \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{HO}-\text{C}-\text{H} & \\ & \\ \text{HO}-\text{C}-\text{H} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Galactopyranose 	β - D-Galactopyranose 
E	D-Glucose	$\begin{array}{c} \text{H} & \text{C}=\text{O} \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{HO}-\text{C}-\text{H} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Glucopyranose 	β - D-Glucopyranose 
F	D-Ribose	$\begin{array}{c} \text{H} & \text{C}=\text{O} \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Ribofuranose 	β - D-Ribofuranose 
G	Desoxyribose	$\begin{array}{c} \text{H} & \text{C}=\text{O} \\ & \\ \text{H}-\text{C}-\text{H} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Desoxyribofuranose 	β - D-Desoxyribofuranose 
H	D-Mannose	$\begin{array}{c} \text{H} & \text{C}=\text{O} \\ & \\ \text{HO}-\text{C}-\text{H} & \\ & \\ \text{HO}-\text{C}-\text{H} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ & \\ \text{H}-\text{C}-\text{OH} & \\ \\ \text{CH}_2\text{OH} & \end{array}$	α - D-Mannopyranose 	β - D-Mannopyranose 