

Mi Universidad

Mapa conceptual de carbohidratos

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Nombre del tema: Carbohidratos

Nombre de la Materia: Bioquímica

Nombre del profesor: Abel Estrada Dichi

Cuatrimestre: 1°

Lugar y fecha: Ocosingo Chiapas, Sábado 4 de noviembre del año 2023

LOS CARBOHIDRATOS

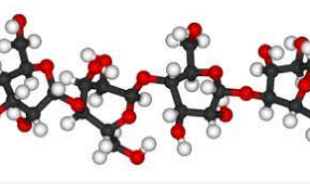
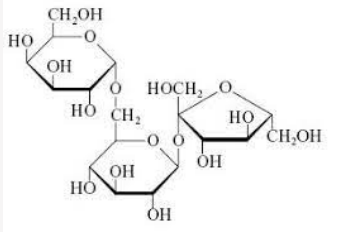
Carbohidratos

Monosacáridos

Oligosacáridos

Polisacáridos

MONOSACARIDOS
ESTRUCTURA Y CLASIFICACION

$$\begin{array}{c}
 \text{C}_1-\text{H} \\
 | \\
 \text{H}-\text{C}_2-\text{OH} \\
 | \\
 \text{H}-\text{C}_3-\text{OH} \\
 | \\
 \text{H}-\text{C}_4-\text{OH} \\
 | \\
 \text{H}-\text{C}_5-\text{OH} \\
 | \\
 \text{CH}_2\text{OH}
 \end{array}$$


Aldosas

Cetosas

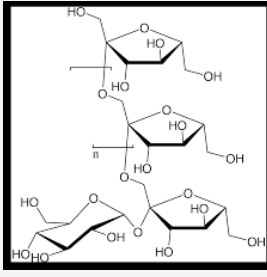
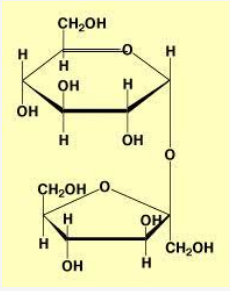
Disacáridos

De trisacáridos a Oligosacáridos

Triosas

TRIOSAS

$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{OH}-\text{C}_2-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{C}=\text{O} \\ \\ \text{CH}_2\text{OH} \end{array} $
D - Gliceraldehido	L - Gliceraldehido	Dihidroxiacetona



Tetrosas

TETROSAS

$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{H}-\text{C}_3-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{OH}-\text{C}_3-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{OH}-\text{C}_2-\text{H} \\ \\ \text{H}-\text{C}_3-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{OH}-\text{C}_2-\text{H} \\ \\ \text{OH}-\text{C}_3-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{H}-\text{C}_3-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $
D - Eritrosa	L - Eritrosa	D - Treosa	L - Treosa	D - Entrulosa

Pentosas

PENTOSAS

$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{H}-\text{C}_3-\text{OH} \\ \\ \text{H}-\text{C}_4-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{H}-\text{C}_3-\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{CH}_2\text{OH} \end{array} $
D - Ribosa	D - Desoxirribosa

Hexosas

HEXOSAS

$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{OH}-\text{C}_3-\text{H} \\ \\ \text{H}-\text{C}_4-\text{OH} \\ \\ \text{H}-\text{C}_5-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{C}_1-\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{OH}-\text{C}_3-\text{H} \\ \\ \text{H}-\text{C}_4-\text{OH} \\ \\ \text{H}-\text{C}_5-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $	$ \begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}_2-\text{OH} \\ \\ \text{H}-\text{C}_3-\text{OH} \\ \\ \text{H}-\text{C}_4-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array} $
D - Glucosa	D - Galactosa	D - Fructosa

<p>Aldosa</p> $ \begin{array}{c} \text{H} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array} $ <p>Gliceraldehido</p>	<p>Cetosa</p> $ \begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array} $ <p>Dihidroxiacetona</p>
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