





Diological Significance of Alloss The rate of reaction in a cell	an change in response to			
the rate of reaction in a cell		Example diagram for	a negotive heter	otrapic effector:
ges in:		T- state	R-state	
1) Substate concernation		T- state	E	
· (e.g. Appartate, for ATC)	etshelitas	± 0 (K,<1)	
2) Concerded on of other M. (c.g. CTP & ATP, for	ATCase)			(allosteric inhibition)
Allostenic effectors may bine	1 preferatistly	88 4	(c) = =	
either the F-state or the 1	R state, and would			Δ'
needleatly shift the equilibrium	in that direction.	- Bhifts equilib	to R-5 to-	e (A for activator)
represently strell		Callosteric setti	A town	
CARBOHYDRATE	S		1 (5	636964
> Carbohydrotes have a gen	ent formula of (CCH20	1) n, for hydrated car	yous. Crov this	course &34n46)
Manacica bourdes and the	Simplest pour		onomer, of car	different carbohydistes:
-A. a. d.	uple monosaccharide, dyce	sidelyde: Strict	I I I I I I I I I I I I I I I I I I I	
(Glycers Webyte)	Stelle Spinter Inc	Dihy do xy	acetone	milecule is a dihydroxysating
Glycers (deligite)	This molecule is an ald Aldo- aldehyde	H-c-		
H-C-0H	Tri - 3 carbons	l c		cetotriose.
14=2-04	· Ose - sugar			
H		4-6.	-Exam	yh of lectore
C314603	- Example of an aldose	Czus		
(C(420))3		(CLH2C		71-32 7-33 38 22 12 3
tereochemistry of & Carboh	ydrates:			(((,))
CHO	CHO	D- Aldetetroses (For	carbons, CqH	8 04, er ((H20))q)
	CH204	H	H_C=0	- Note that these two
t - C - OH 1 40	5		H0-C-H	one disstereomers, and
EH2 OH	= CH,04	H-C-0H	H-C-0H	not ensulvanes.
D-glyces ldehydeensutigment	L-glyceslockyde	H-C-0H CH20H	-1- CH20H	different molecules with
set		D- Erythrose	D - Threese	
Gregoen to chyde		bidogizmy signific	art .	The second second
- In nature, D - enantione	ers one the most	- To determine Do	L, go to the	Porthest chiral carbon
commonly found form.		from the corbexyl	earbon. Since	the Old is on the right
		side (ss marked	by dotted aire	le), the molecule is
* Note: D-glycealdehydes a	ne usually drawn	in the D-oriental		
s a fischer projection:				
CHO				
H-C-014				
CHZOH				
C115 00d				
D-glyssoldelyde.				