Cheatography

Autacoids (new) Cheat Sheet by MJC3 via cheatography.com/212269/cs/46130/

Purines		Purines (cont)		Cannabinoids (Endocannabi-		Serotonin (5-HT) (cont)	
Adenosine	Formed from the breakdown of ATP. Acts via adenosine receptors (A1, A2A, A2B, A3). Functions: Vasodilation (especially coronary arteries) Sedative and sleep-promoting effects in the brain. Inhibits neurotransmitter release. Anti-infl-ammatory and immunosuppressive effects in the laggregation. Released during tissue injury → binds P2Y12 receptors on platelets → promotes clot formation.	ATP (Adenosine Tripho- sphate)	Beyond being the "energy curren- cy," extracellular ATP: Acts via P2 receptors (P2X and P2Y). Mediates pain, inflammation, and immune responses. Can trigger cell death pathways or survival signalling.	noids) Anandamic naturally of to CB1 (ce and CB2 (i receptors.	de and 2-AG are ccurring ligands. Bind ntral nervous system) mmune cells)	Roles	Mood regulation (CNS). GI motility. Platelet aggreg- ation and vasoco- nstriction. Sleep, appetite, thermo- regulation.
				Cannabino noids) Anandamic naturally of to CB1 (ce and CB2 (i receptors.	ids (Endocannabi- de and 2-AG are ccurring ligands. Bind ntral nervous system) mmune cells)	Receptors	Multiple (5-HT1 to 5-HT7) , all involved in diverse functions like anxiety, pain, nausea, and cardiovascular tone.
		noids)		Histamine		Eicosanoids	
ADP (Adenosine Diphos- phate)		Anandam naturally to CB1 (c and CB2 receptors	nide and 2-AG are occurring ligands. Bind central nervous system) (immune cells)	Histamine	Stored in mast cells, basophils, and enterochroma- ffin-like cells in the stomach. Released in response to allergens, injury, or inflam- mation Recentors:	These are derived from arachi-	Prostaglandins, Thromboxanes, Leukotrienes
		Roles: Mo app me imr	Modulate pain, appetite, mood, memory. Regulate immune responses.			donic acid and include:	
		Cannabir noids)	Provide neuroprot- ection noids (Endocannabi-	H1	Inflammation, allergy (vasodila- tion, bronchoconst- riction, itching)	Key Enzymes	genase) → Prosta- glandins & Thromb- oxanes. LOX (Lipox- ygenase) → Leukot- rienes.
		Anandam naturally to CB1 (c	nide and 2-AG are occurring ligands. Bind central nervous system)	H2	Gastric acid secretion in the stomach	Roles	Inflammation and immunity.Fever, pain.Bronchoconstr- iction (asthma).Pla- telet function (e.g., TXA2 promotes clotting, PGI2 inhibits).Gastric protection and renal
		and CB2 (in receptors.	(immune cells)	H3	Neurotransmission in the brain (auto inhibition)		
		Roles: Mo ap me im Pr ec	Modulate pain, appetite, mood, nemory. Regulate	H4	Chemotaxis in immune cells		
			Immune responses. Provide neuroprot- ection	Serotonin (Location:	5-HT) Derived from trypto- phan, found in the CNS, GI tract, and platelets.		tion.
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Bradykinin

A nonapeptide released during tissue injury or inflammation. Very potent vasodilator and pain mediator.Increases vascular permeability and causes edema. Also causes bronchoconstriction and stimulates prostaglandin and nitric oxide release.

Neuropeptides

These are small protein-like molecules used by neurons to communicate.

Substance P	Pain transm- ission, vasodi- lation
Neuropeptide Y (NPY)	Appetite stimulation, vasoconst- riction
Calcitonin gene-related peptide (CGRP)	Potent vasodi- lator, involved in migraines
Endorphins/E- nkephalins	Pain inhibition (natural

Interferons

A type of cytokine (usually classified separately but functionally similar to autacoids).

Produced in response to viral infections and other immune triggers

Туре І	Antiviral
(IFN-	
α, IFN- β)	
Type II	Activates macrop-
(IFN-	hages and promotes
γ)	antigen presentation

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Nitric Oxide (NO)

A gaseous signaling molecule, synthesized by nitric oxide synthases (NOS). NO diffuses across cell membranes and activates guanylyl cyclase, increasing cGMP.

Functions:	Vasodilation
	(endothelium-de-
	rived relaxing
	factor). Neurotrar
	smission (e.g., in
	memory and
	learning). Antimi-
	crobial and
	antitumor effects
	(in macrophages)

Cytokines

Small proteins involved in cell					
signaling, especially in the					
immune system. Produced by					
various cells (T-cells, macrop-					
hages, endothelial cells).					
Interleukins (IL-	Inflam-				
1, IL-6)	mation,				
	fever				
TNF-α (Tumor	Inflam-				
Necrosis Factor)	mation,				
	apoptosis				
IL-10	Anti-infl-				
	ammatory				
Cytokines can act locally (autoc-					
rine/paracrine) or systemically.					

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