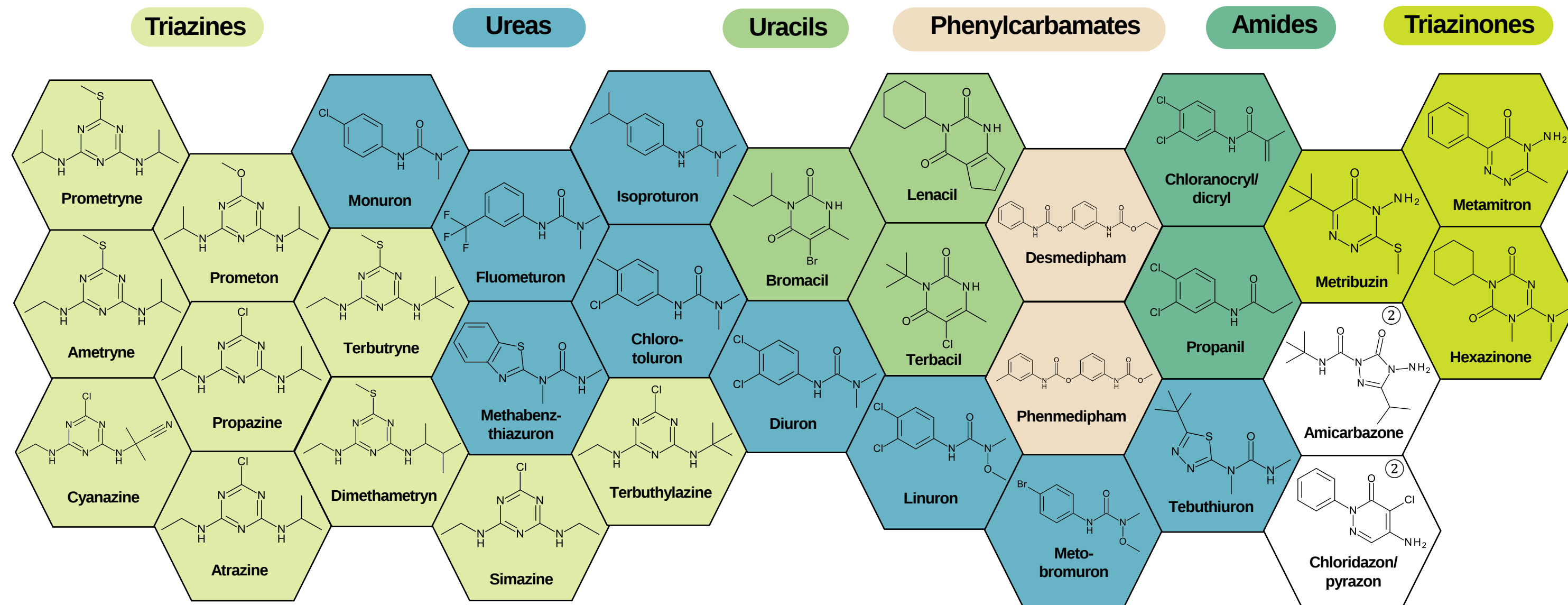




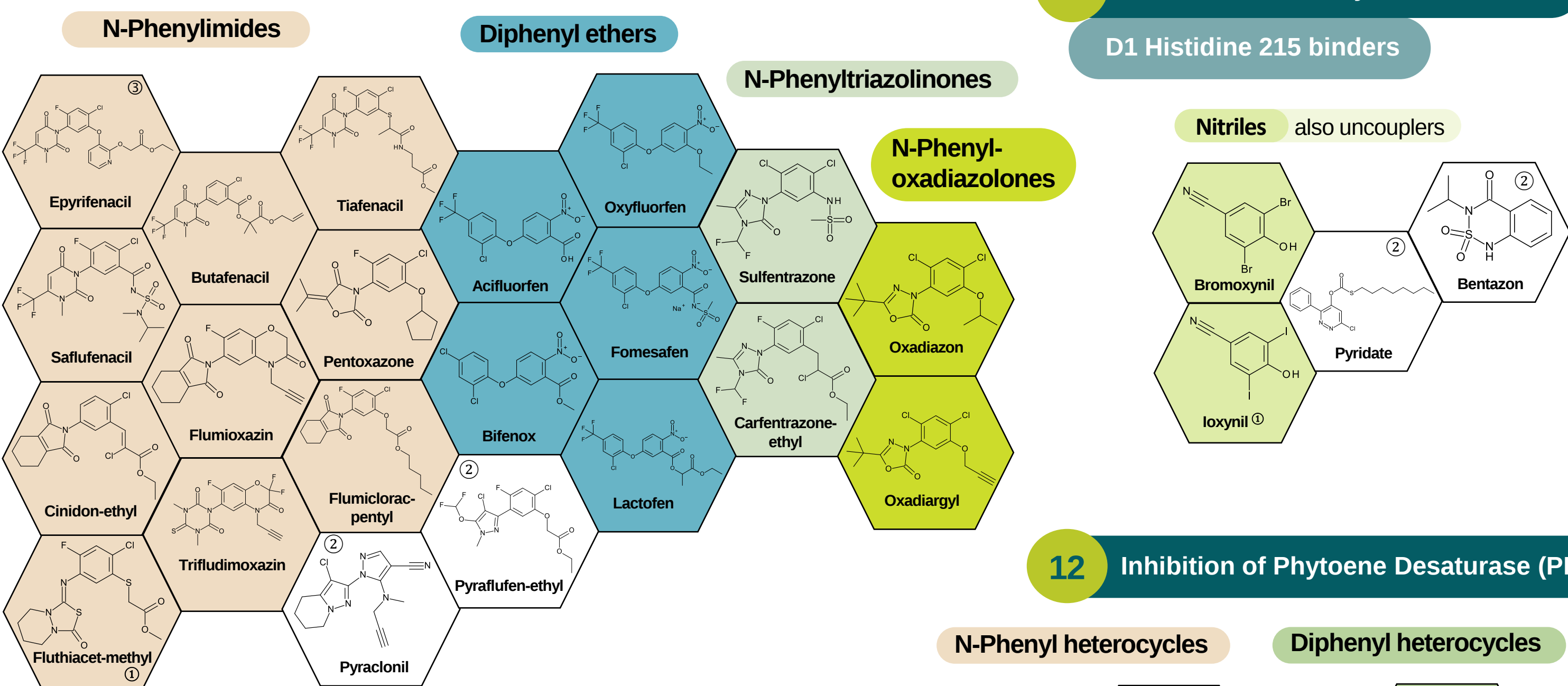
Light Activation of ROS^a

5 Inhibition of Photosynthesis at PS II:

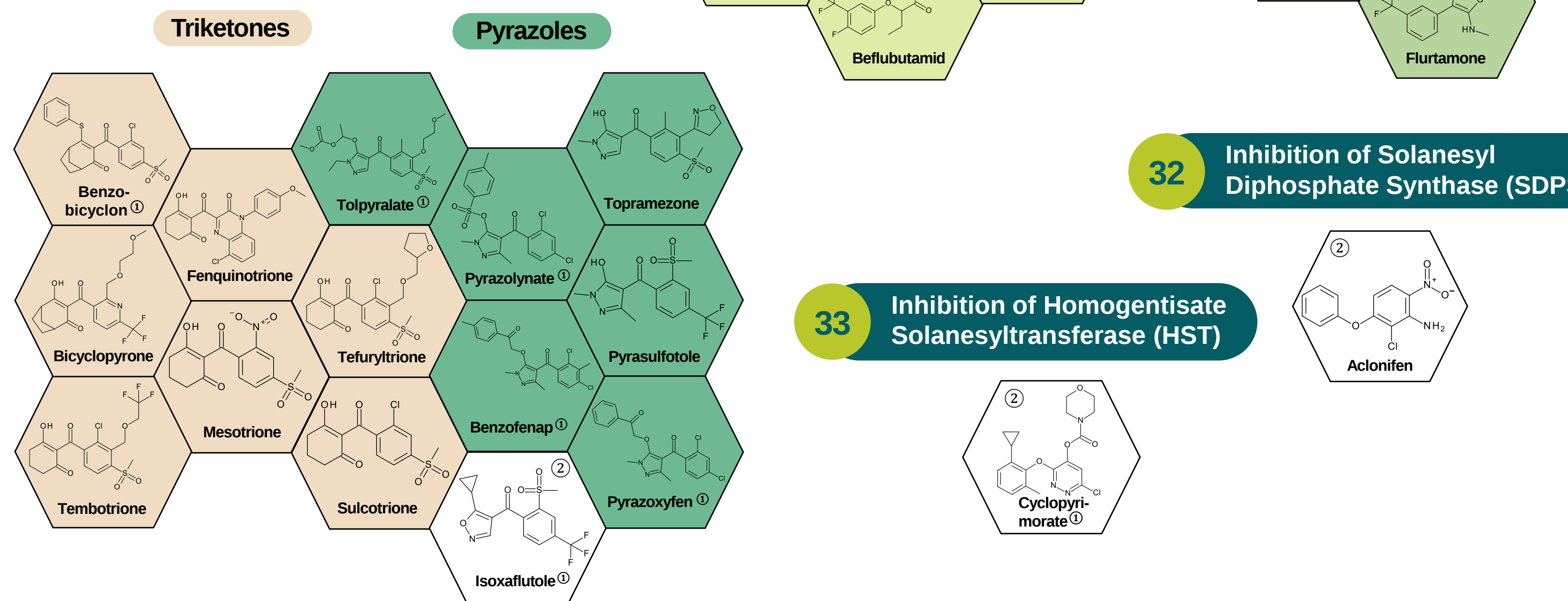
D1 Serine 264 binders (and other non-histidine 215 binders)



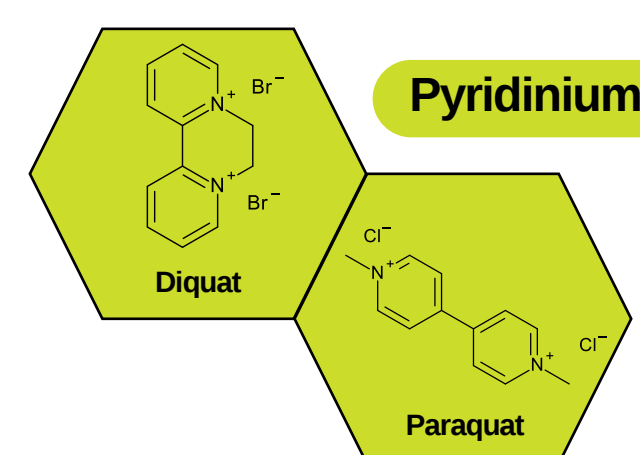
14 Inhibition of Protoporphyrinogen Oxidase (PPO)



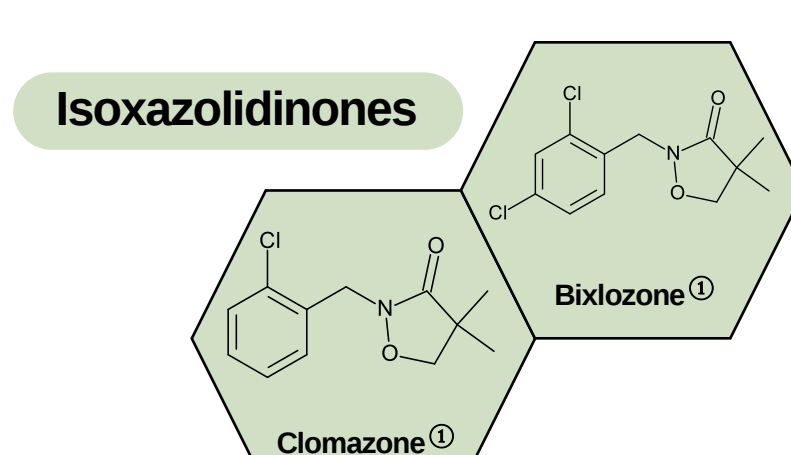
27 Inhibition of Hydroxyphenyl Pyruvate Dioxygenase (HPPD)



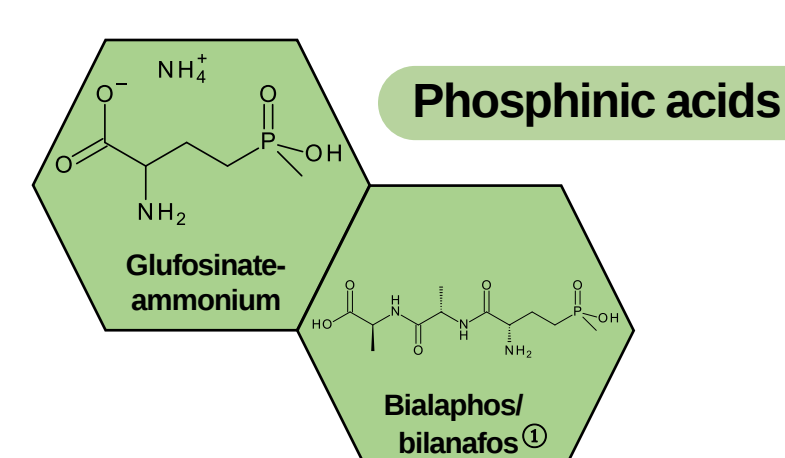
22 PS I Electron Diversion



13 Inhibition of Deoxy-D-Xylulose Phosphate Synthase (DXPS)

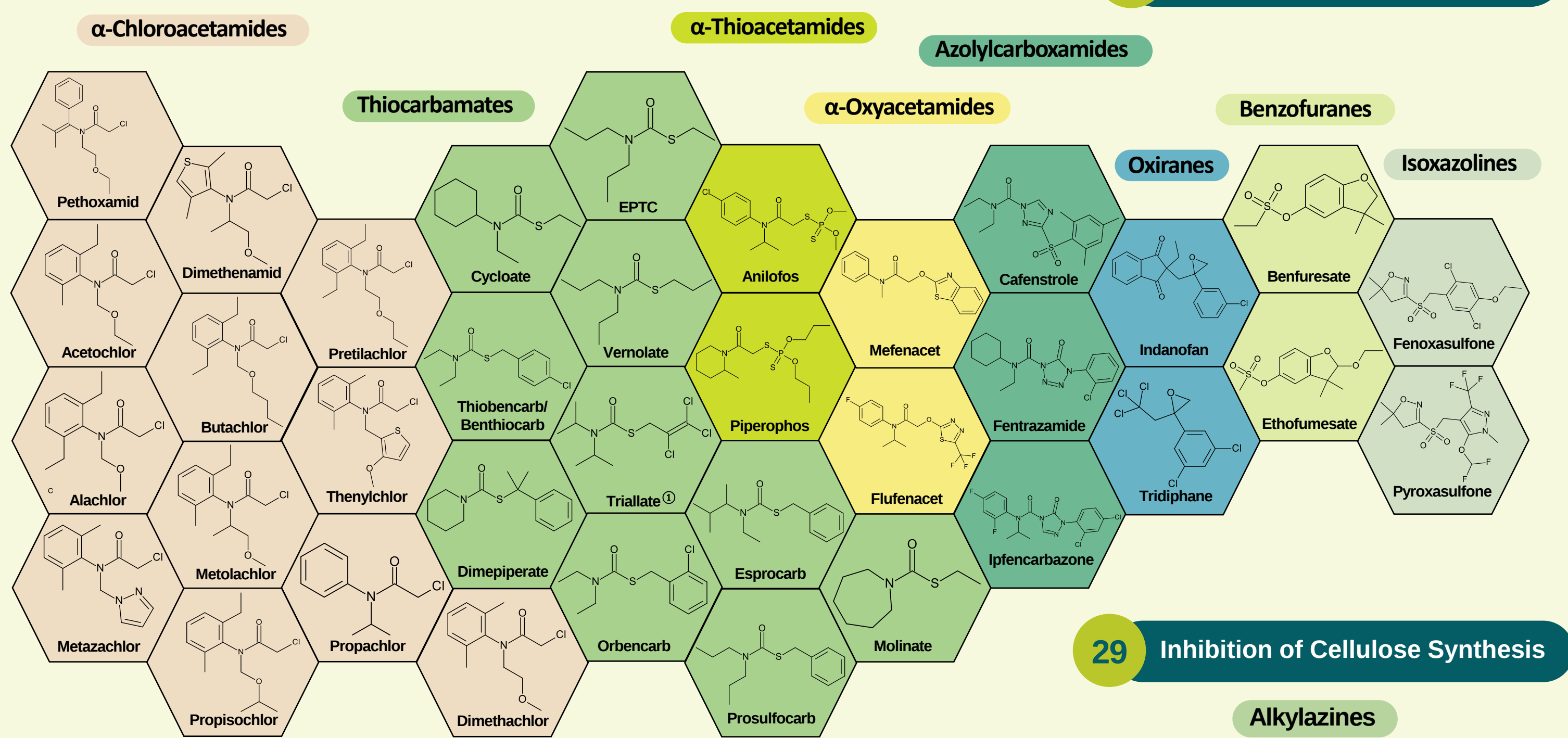
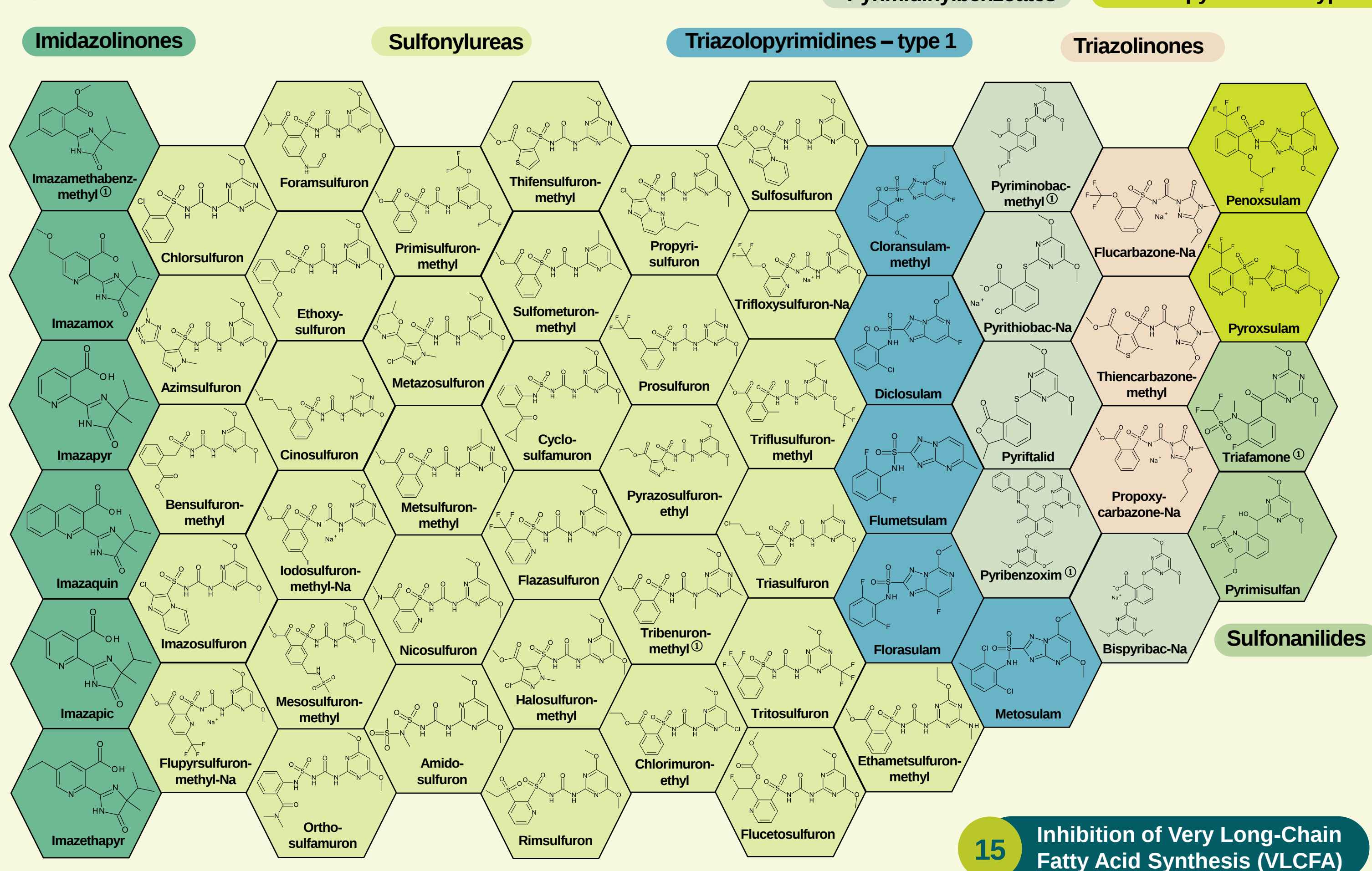


10 Inhibition of Glutamine Synthetase (GS)

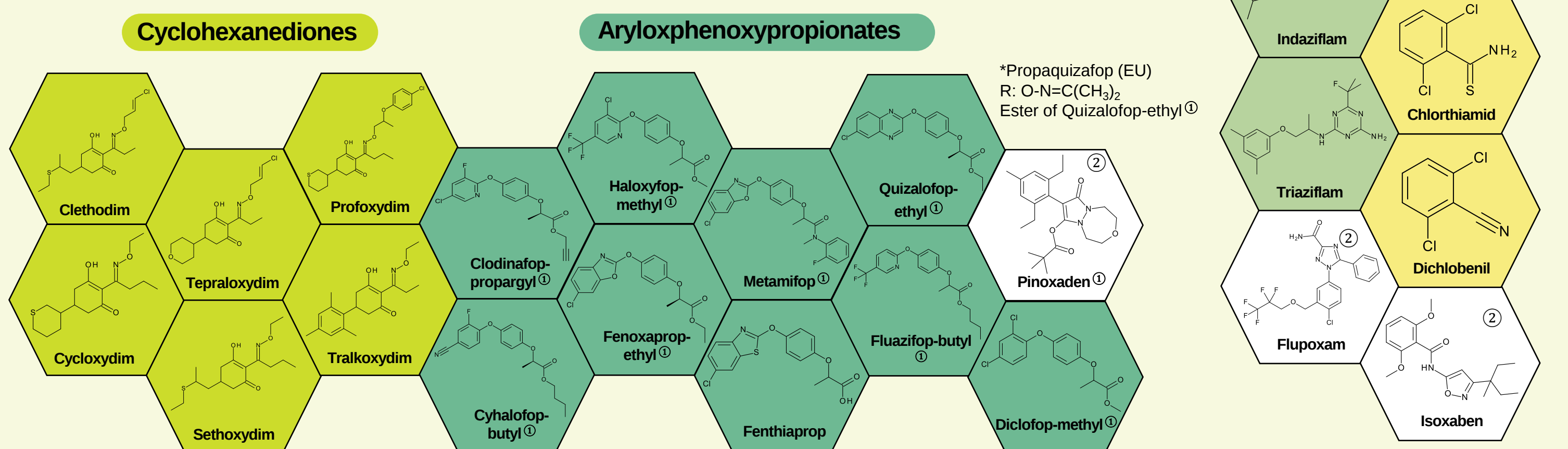


Cellular Metabolism

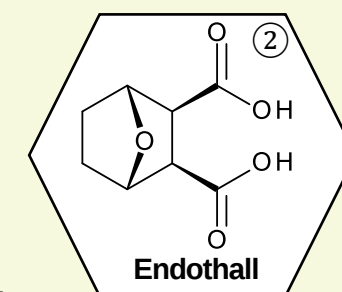
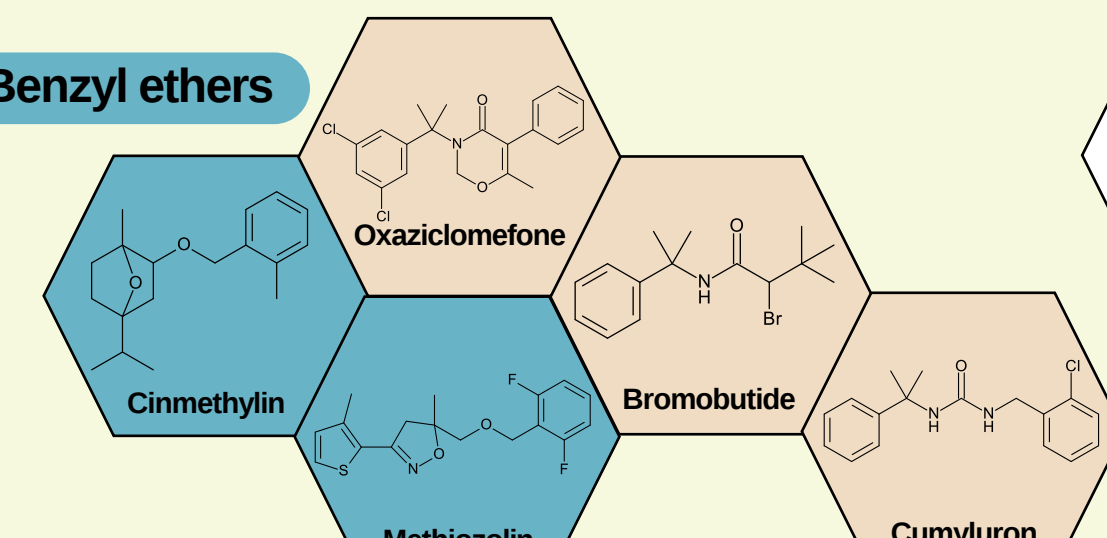
2 Inhibition of Acetolactate Synthase (ALS)



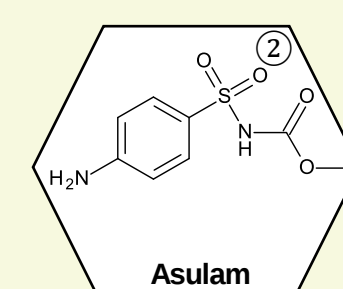
1 Inhibition of Acetyl CoA Carboxylase (ACCase)



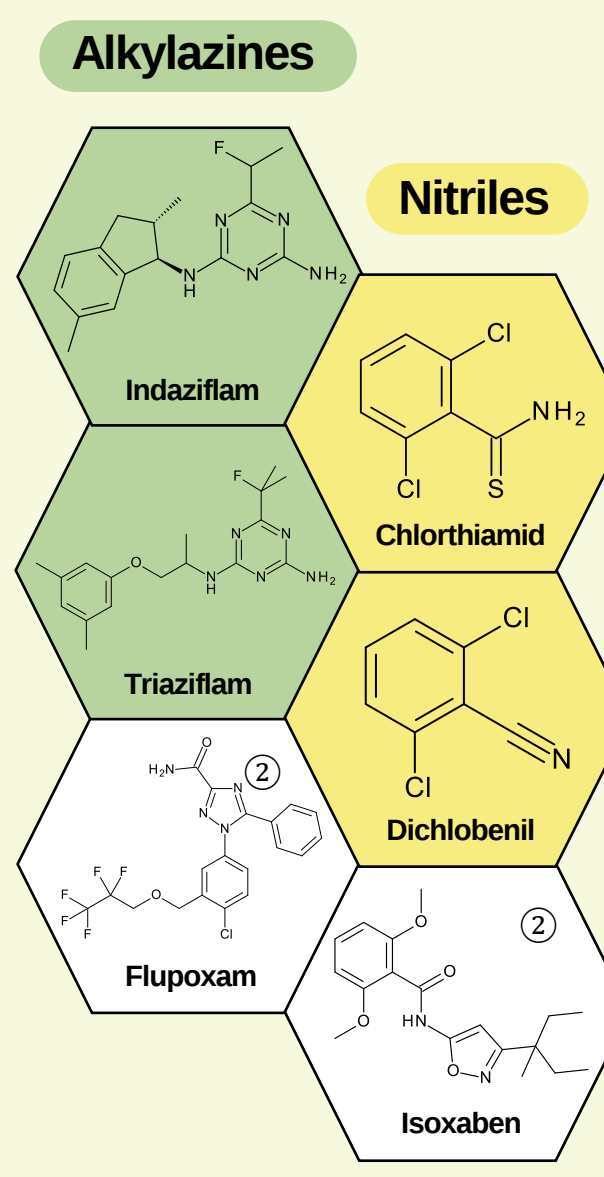
30 Inhibition of Fatty Acid Thioesterase (FAT)



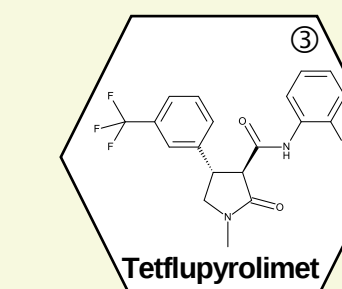
18 Inhibition of Dihydropterote Synthase (DHPS)



9 Inhibition of Enolpyruvyl Shikimate Phosphate Synthase (EPSPS)

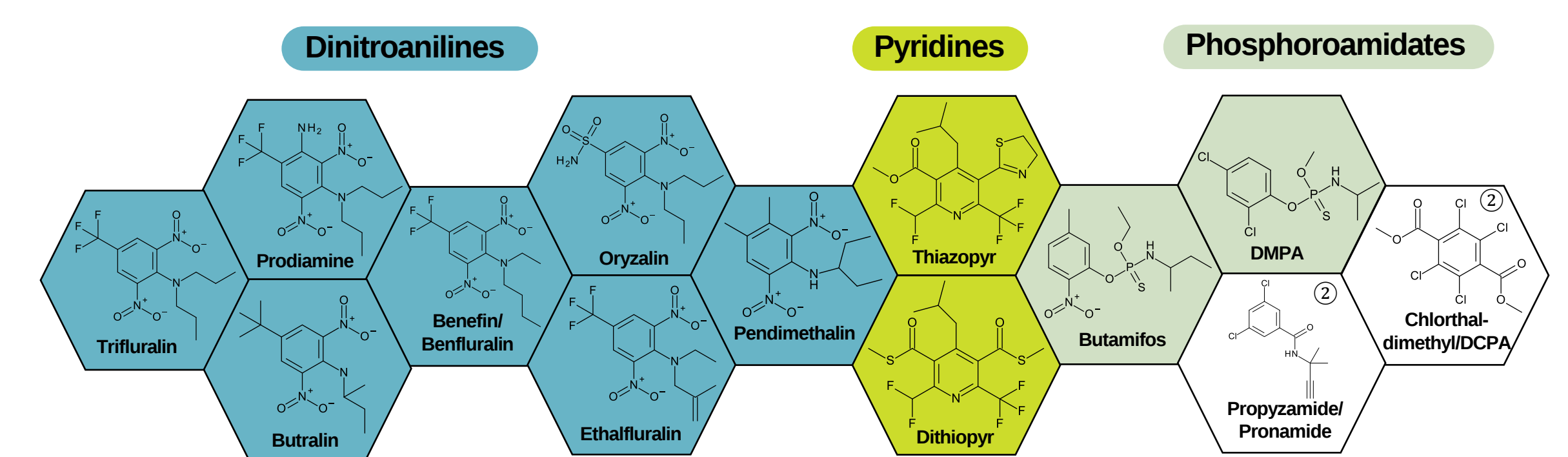


28 Inhibition of Dihydroorotate Dehydrogenase (DHODH)

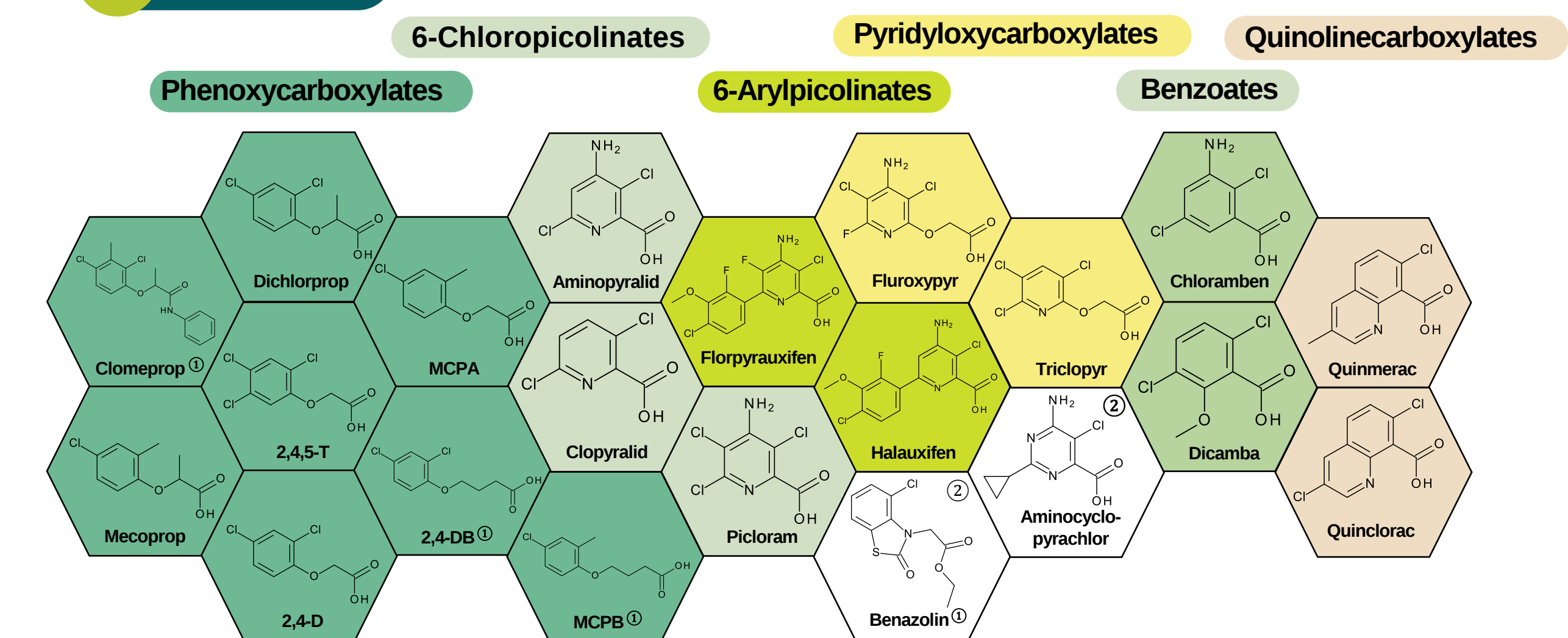


Cell Division and Growth

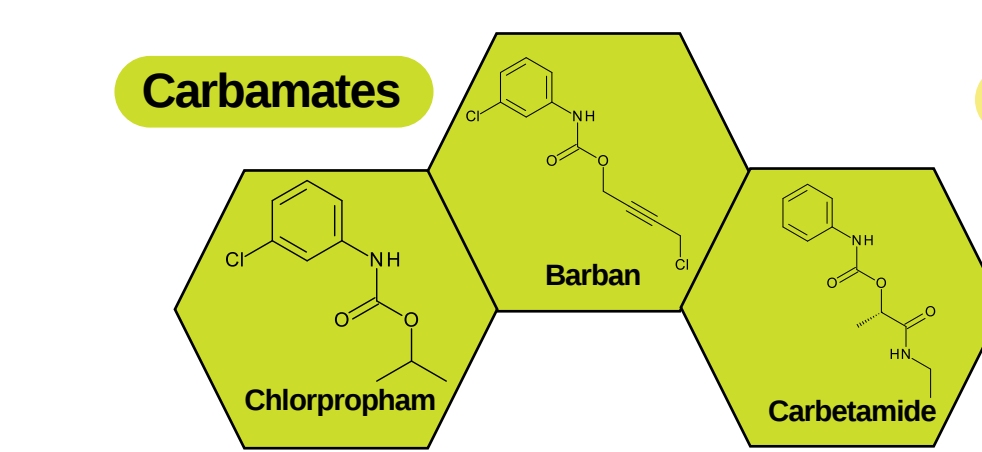
3 Inhibition of Microtubule Assembly



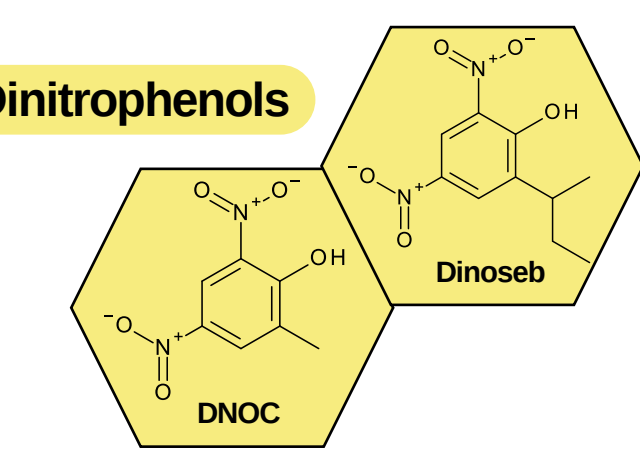
4 Auxin Mimics



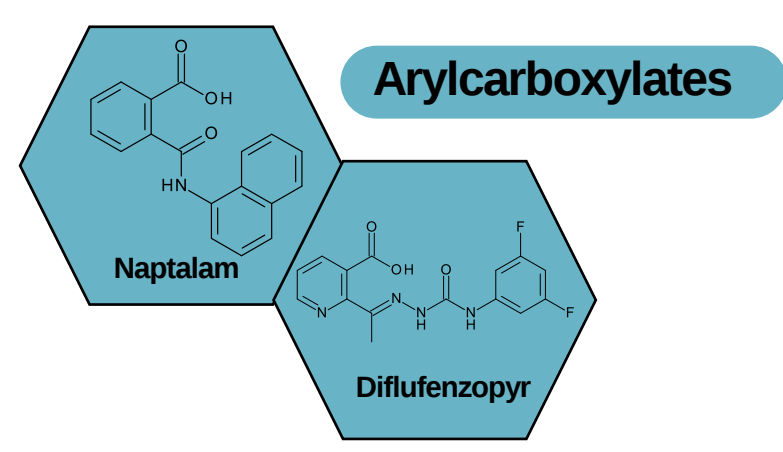
23 Inhibition of Microtubule Organization



24 Uncouplers

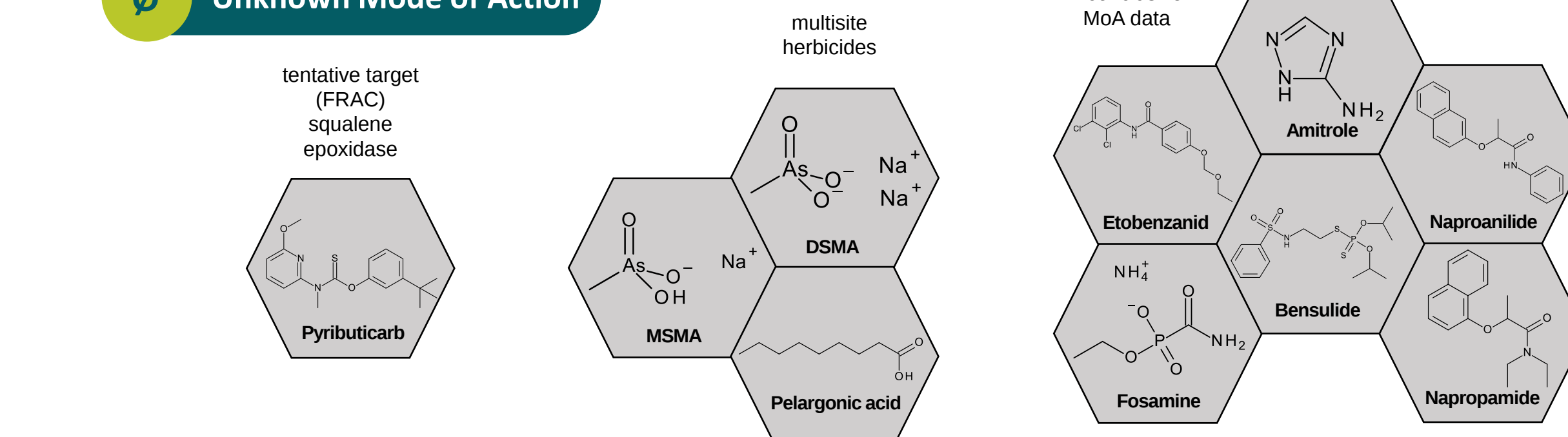


19 Auxin Transport Inhibitors



HRAC	Legacy HRAC	Mode of Action	HRAC	Legacy HRAC	Mode of Action
1	A	Inhibition of Acetyl CoA Carboxylase (ACCase)	18	I	Inhibition of Dihydropterote Synthase (DHPS)
2	B	Inhibition of Acetolactate Synthase (ALS)	19	P	Auxin transport inhibitors
3	K1	Inhibition of microtubule assembly	22	D	PS I Electron Diversion
4	O	Auxin mimics	23	K2	Inhibition of microtubule organization
5	C1,2	Inhibition of Photosynthesis at PS II - D1 Serine 264 binders (and other non-histidine 215 binders)	24	M	Uncouplers
6	C3	Inhibition of Photosynthesis at PS II - D1 Histidine 215 binders	27	F2	Inhibition of Hydroxyphenyl Pyruvate Dioxygenase (HPPD)
9	G	Inhibition of Enolpyruvyl Shikimate Phosphate Synthase (EPSPS)	28	none	Inhibition of Dihydroorotate Dehydrogenase (DHODH)
10	H	Inhibition of Glutamine Synthetase (GS)	29	L	Inhibition of cellulose synthesis
12	F1	Inhibition of Phytoene Desaturase (PDS)	30	Q	Inhibition of Fatty Acid Thioesterase (FAT)
13	F4	Inhibition of Deoxy-D-Xylulose Phosphate Synthase (DXPS)	31	R	Inhibition of Serine Threonine Protein Phosphatase (STPP)
14	E	Inhibition of Protoporphyrinogen Oxidase (PPO)	32	S	Inhibition of Solanesyl Diphosphate Synthase (SDPS)
15	K3	Inhibition of Very Long-Chain Fatty Acid Synthesis (VLCFA)	33	T	Inhibition of Homogentisate Solanesyltransferase (HST)
			Ø	Z	Unknown mode of action

Unknown Mode of Action



^a Reactive oxygen species
^① Indicates pro-herbicide

Ø HRAC's recommendation is not to include a chemical family name when there is one active in the family.
Actives without chemical family names are indicated with a white background
② New actives which are still in the process of registration at the time of release of the current poster version

