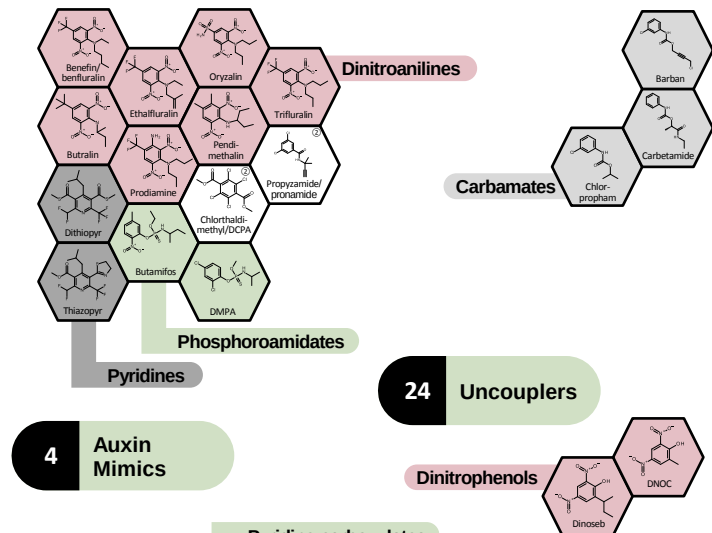


**HERBICIDE
RESISTANCE**
ACTION
COMMITTEE

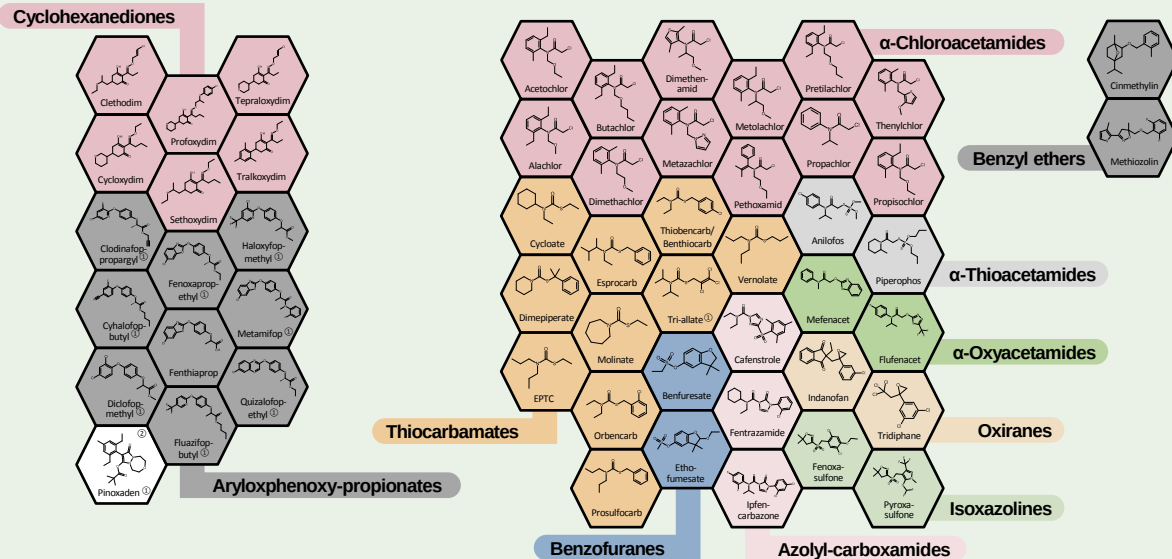
Cell Division and Growth

23 Inhibition of Microtubule Organization

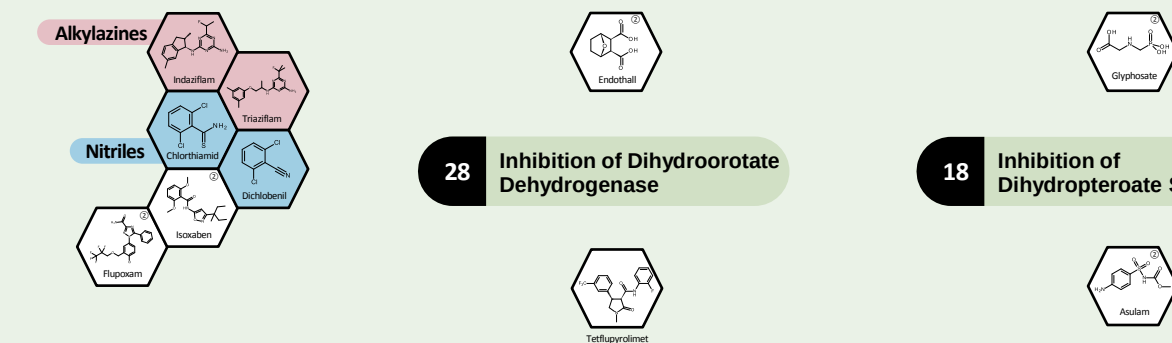
6 **D₁ Histidine
215 binders**



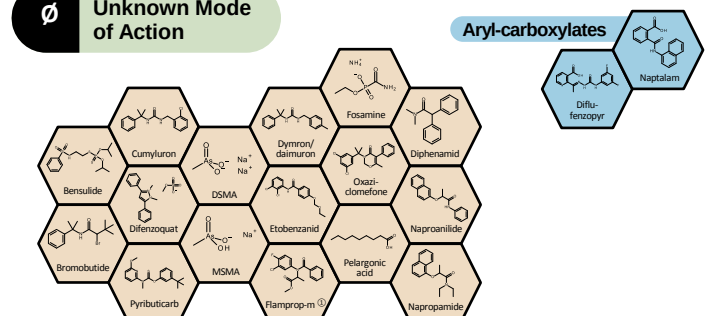
30 Inhibition of Fatty Acid Thioesterase



9 Inhibition of Enolpyruvyl Shikimate Phosphate Synthase



19 Auxin Transport Inhibitors



HRAC	Legacy HRAC		HRAC	Legacy HRAC	
1	A	Inhibition of ACCase	19	P	Auxin transport inhibitors
2	B	Inhibition of ALS	22	D	PS I electron diversion
3	K1	Inhibition of microtubule assembly	23	K2	Inhibition of microtubule organization
4	O	Auxin mimics	24	M	Uncouplers
5	C1,2	Inhibition of photosynthesis PS II – Serine 264	27	F2	Inhibition of HPD
6	C3	Inhibition of photosynthesis PS II – Histidine 215	28	none	Inhibition of dihydroorotate dehydrogenase
9	G	Inhibition of EPSP synthase	29	L	Inhibition of cellulose synthesis
10	H	Inhibition of glutamine synthetase	30	Q	Inhibition of fatty acid thioesterase
12	F1	Inhibition of PDS	31	R	Inhibition of serine threonine protein phosphatase
13	F4	Inhibition of DOXP synthase	32	S	Inhibition of solanesyl diphosphate synthase
14	E	Inhibition of PPO	33	T	Inhibition of homogentisate solanesyltransferase
15	K3	Inhibition of VLCFAs	34	F3	Inhibition of lycopene cyclase
18	I	DHP inhibition	Ø	Z	Unknown mode of action

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* Reactive oxygen species

① Indicates pro-herbicide

② IRAC'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.