

HRAC Mode of Action Classification 2020



HERBICIDE
RESISTANCE
ACTION
COMMITTEE

光激化激活態氧^a

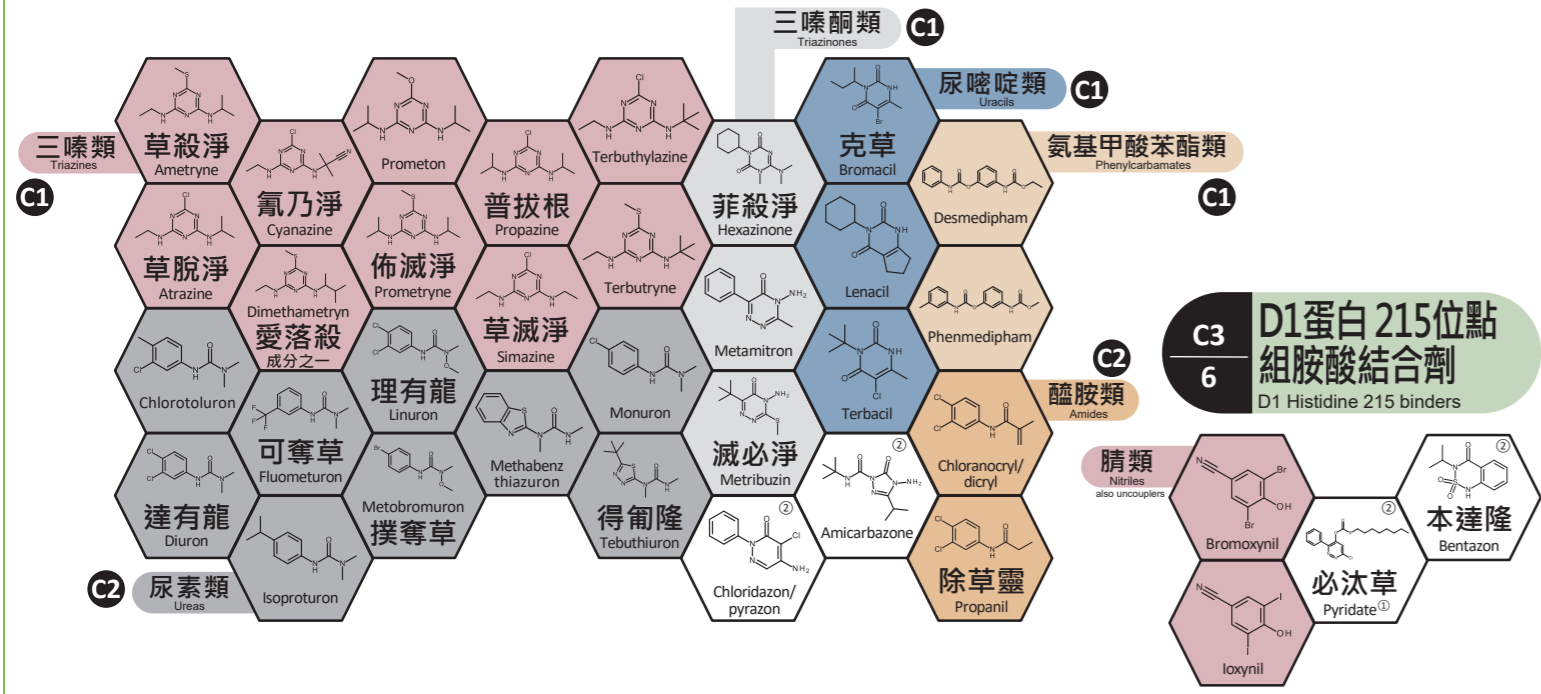
Light Activation of ROS^a

抑制光合作用反應系統II

Inhibition of Photosynthesis at PS II

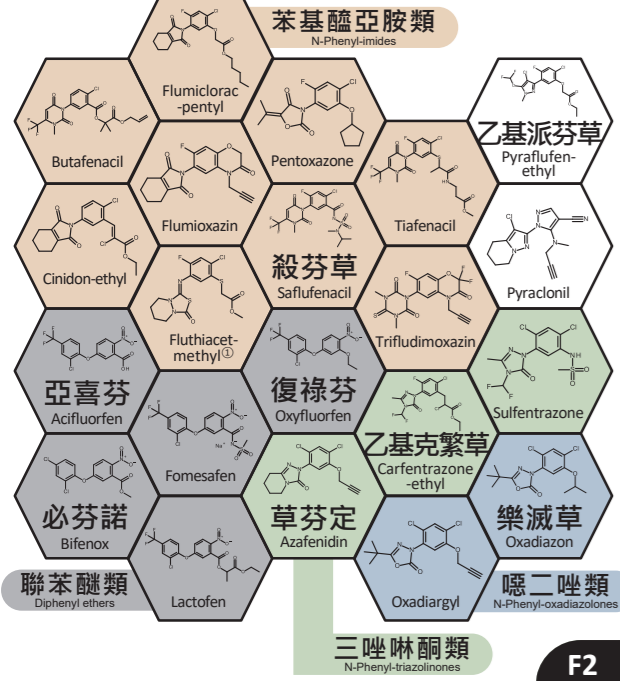
C1,2 D1蛋白264位點絲胺酸(及其他非215位點組胺酸)結合劑

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



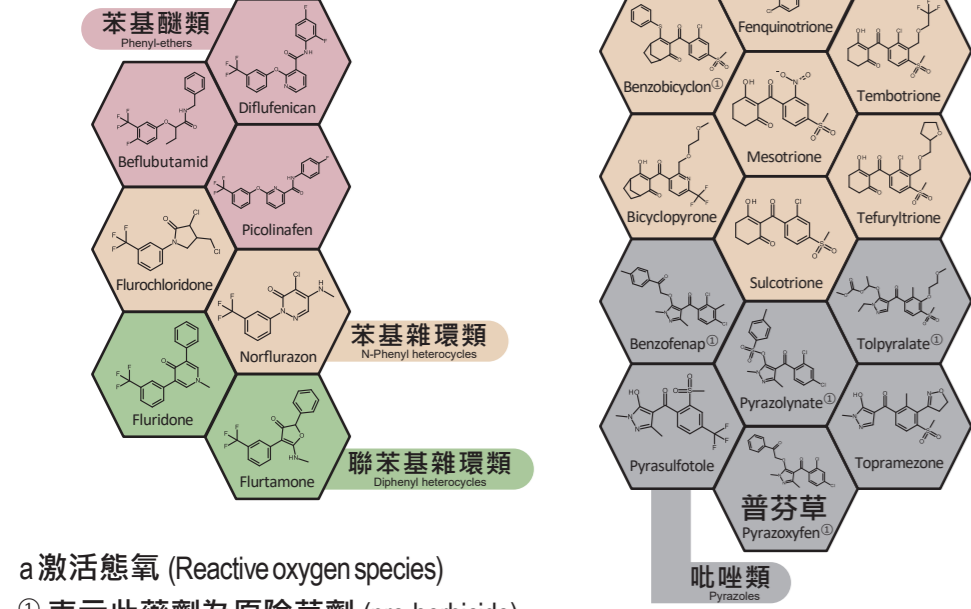
E 14 抑制原質原氧化酶

Inhibition of Protoporphyrin Oxidase (PPO)



F1 12 抑制八氫番茄紅素去飽和脫氫酶

Inhibition of Phytylene Desaturase (PDS)



^a 激化態氧 (Reactive oxygen species)

① 表示此藥劑為原除草劑 (pro-herbicide)

② 表示當表中一化學分類群僅有一般草劑有效成分時，則不標示其化學分類群名稱。殺草劑有效成分無化學分類群者以白底背景表示。

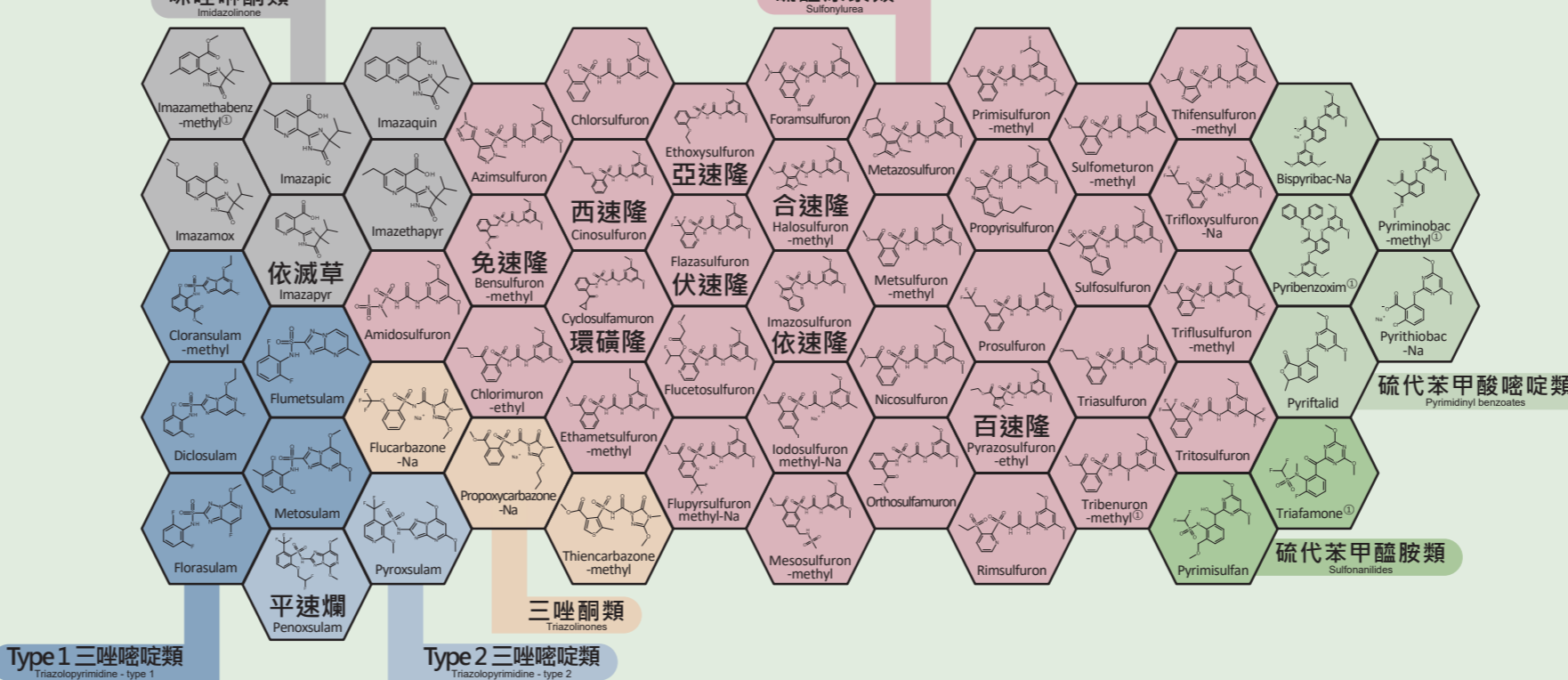
HRAC's recommendation is not to include a chemical family name when there is one active in the family. Actives without chemical family names are indicated with a white background.

細胞代謝

Cellular Metabolism

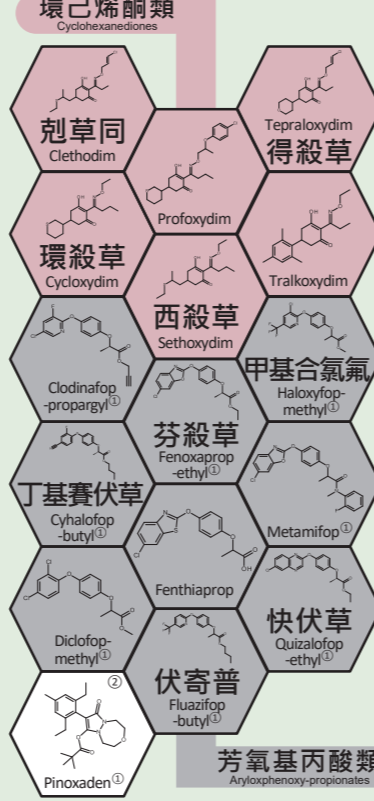
B 2 抑制乙醯乳酸合成酶

Inhibition of Acetolactate Synthase



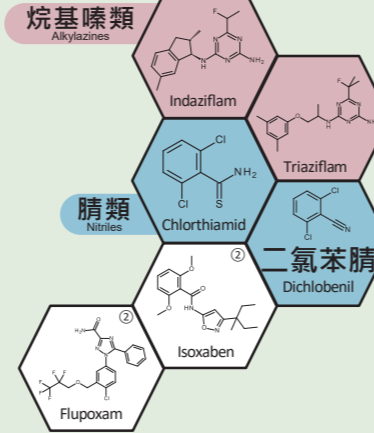
A 1 抑制乙醯輔酶A羧化酶

Inhibition of Acetyl CoA Carboxylase



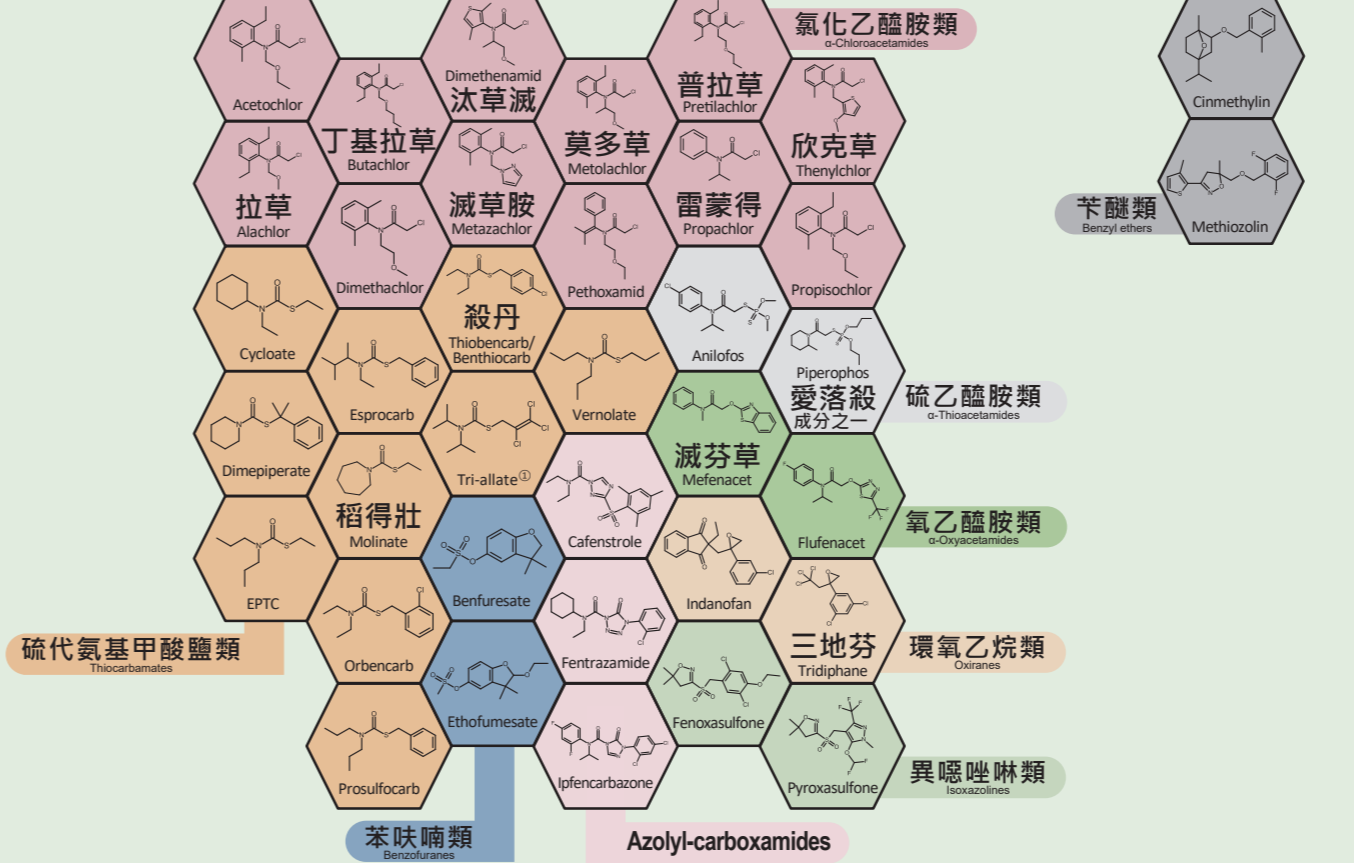
L 29 抑制纖維素合成

Inhibition of Cellulose Synthesis



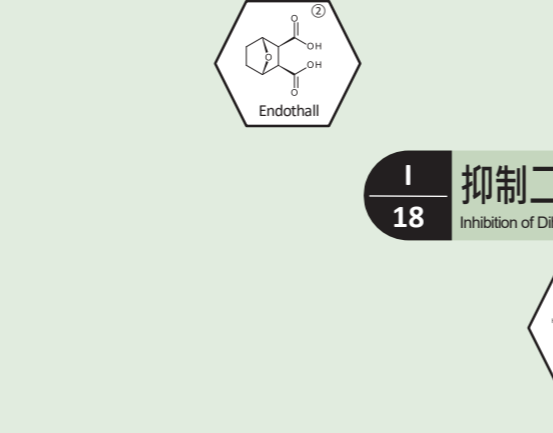
K3 15 抑制長鏈脂肪酸合成

Inhibition of Very Long-Chain Fatty Acid Synthesis (VLCFAs)



R 31 抑制絲胺酸/蘇胺酸蛋白磷酸酶

Inhibition of Serine Threonine Protein Phosphatase



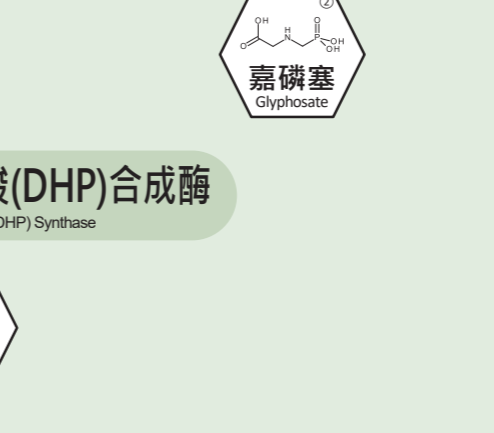
Q 30 抑制脂肪酸硫酯酶

Inhibition of Fatty Acid Thioesterase



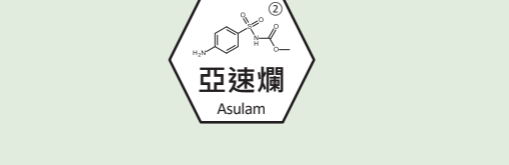
G 9 抑制丙烯醇丙酮基莽草素磷酸(EPSP)合成酶

Inhibition of Enolpyruvyl Shikimate Phosphate (EPSP) Synthase



I 18 抑制二氫蝶酸(DHP)合成酶

Inhibition of Dihydropterolate (DHP) Synthase

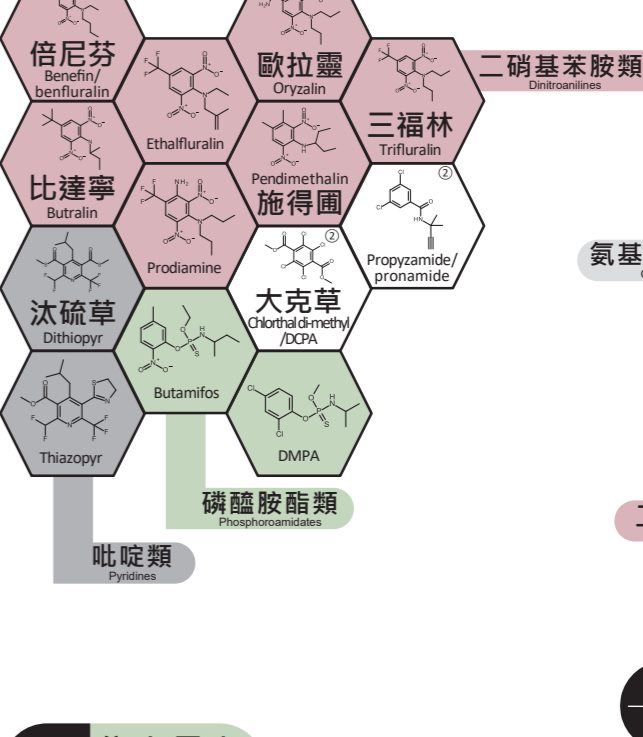


細胞生長與分裂

Cell Division and Growth

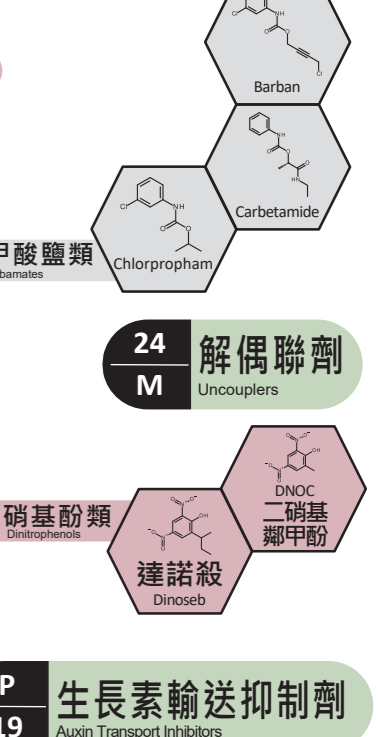
K1 3 抑制微管組合

Inhibition of Microtubule Assembly



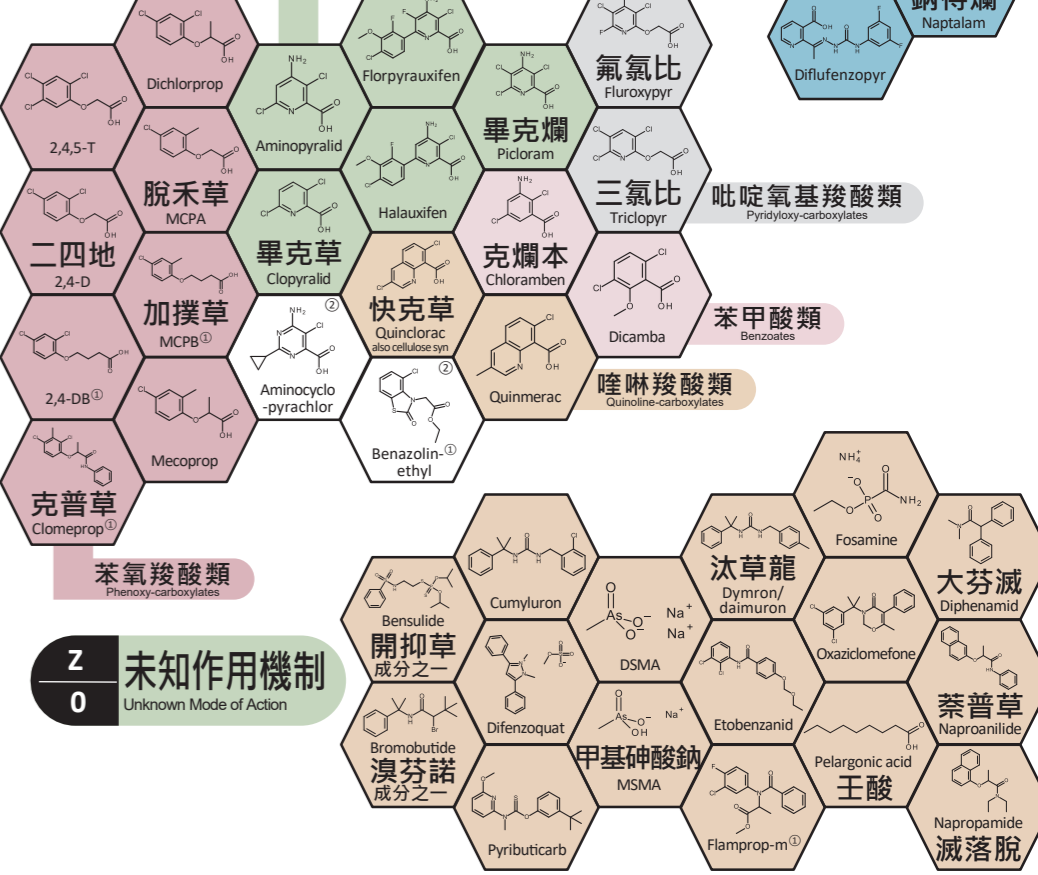
K2 23 抑制微管組織化

Inhibition of Microtubule Organization



O 4 仿生長素

Auxin Mimics



Z 0 未知作用機制

Unknown Mode of Action

HRAC & Legacy WSSA	HRAC	Mode of Action	HRAC & Legacy WSSA	HRAC	Mode of Action
1	A	抑制乙醯輔酶A羧化酶	19	P	生長素輸送抑制劑
2	B	抑制乙醯乳酸合成酶	22	D	抑制光反應系統I的電子轉移
3	K1	抑制微管組合	23	K2	抑制微管組織化
4	O	仿生長素	24	M	解偶聯劑
5	C1,2	抑制光反應系統II - 264位點絲胺酸	27	F2	抑制羧基莽草素磷酸雙加氧酶
6	C3	抑制光反應系統II - 215位點組胺酸	29	L	抑制纖維素合成
9	G	抑制丙烯醇丙酮基莽草素磷酸(EPSP)合成酶	30	Q	抑制脂肪酸硫酯酶
10	H	抑制麩胺酸合成酶	31	R	抑制絲胺酸/蘇胺酸蛋白磷酸酶
12	F1	抑制八氫番茄紅素去飽和脫氫酶	32	S	抑制茄基二磷酸合成酶
13	F4	抑制脫氧木酮糖-5-磷酸合成酶	33	T	抑制原質原氧化酶
14	E	抑制原質原氧化酶	34	F3	抑制番茄紅素環化酶
15	K3	抑制長鏈脂肪酸合成	0	Z	未知作用機制
18	I	抑制二氫蝶酸(DHP)合成酶			