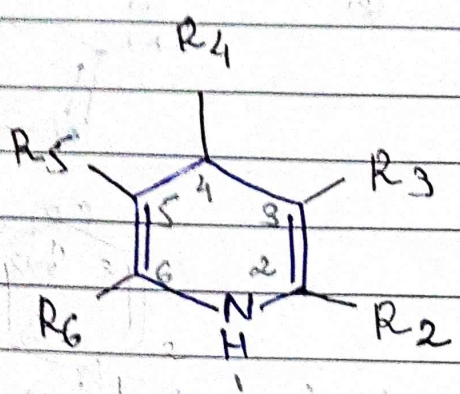
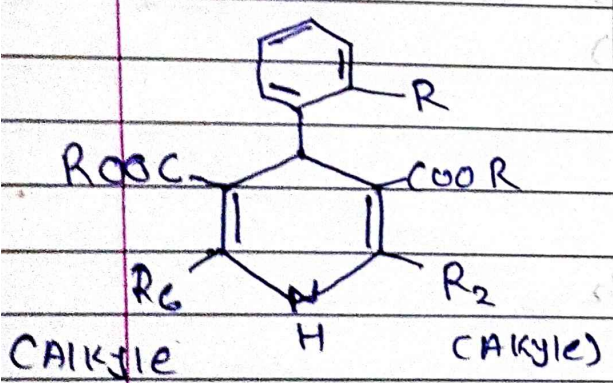
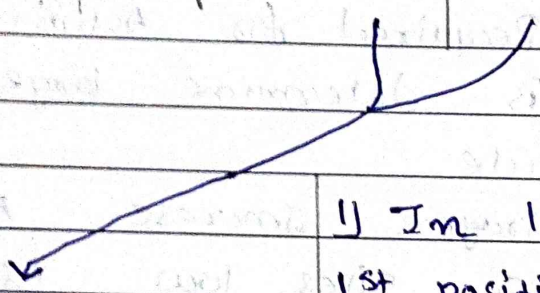


★ ECB ★ C Dihydropyridine → only)

• General Structure:



R_{2,6} → Small Alkyl group
 R_{3,5} → Ester group
 R₄ → phenyl or derivative of phenyl



1) In 1,4 Dihydropyridine 1st position should not be substituted

2) 2,6 position contains small Alkyl group
 maybe they are same & may not

3. 3,4 position contains Ester, same & maybe not

4. 4th position contains phenyl group or sometimes it's derivatives

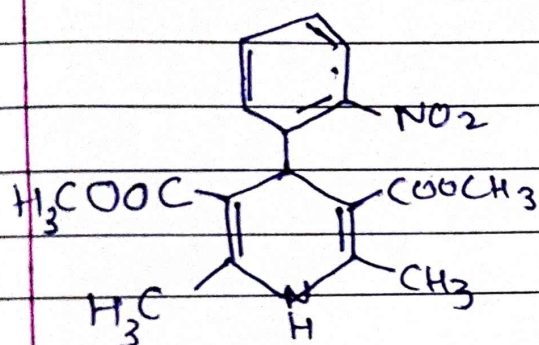
5. phenyl group/derivatives are essential for Activity

6. 3,5 position Ester determines Distribution of drug

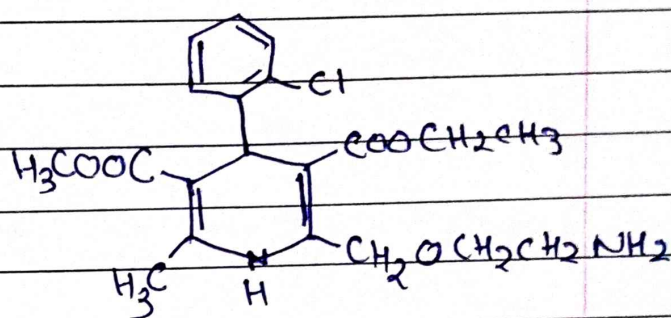
7. Phenyl Ring may have Substitution At O, m position

8. O, position of phenyle group is more prefer than m position.
9. R is Electrone withdrawing group (NO_2, Cl)
10. Electrone withdrawing group is ALSO essential for Activity

Examples:-

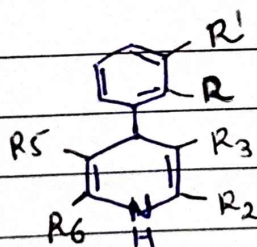


Nifedipine.



Amlodipine *

* Summer Table.



No	Name	R	R ₂	R ₄	R ₃	R ₅
1.	Nifedipine	NO_2	CH_3	CH_3	COOCH_3	COOCH_3
2.	Amlodipine	Cl	$\text{CH}_2-\text{O}-\text{CH}_2-\text{NH}_2$	CH_3	COOC_2H_5	COOCH_3
3.	Felodipine	O.P. Cl	CH_3	CH_3	COOCH_3	COOC_2H_5
4.	Nimodipine	m NO_2	CH_3	CH_3	$\text{COOCH}_2\text{CH}_2\text{OCH}_3$	$\text{COOCH}(\text{CH}_3)_2$