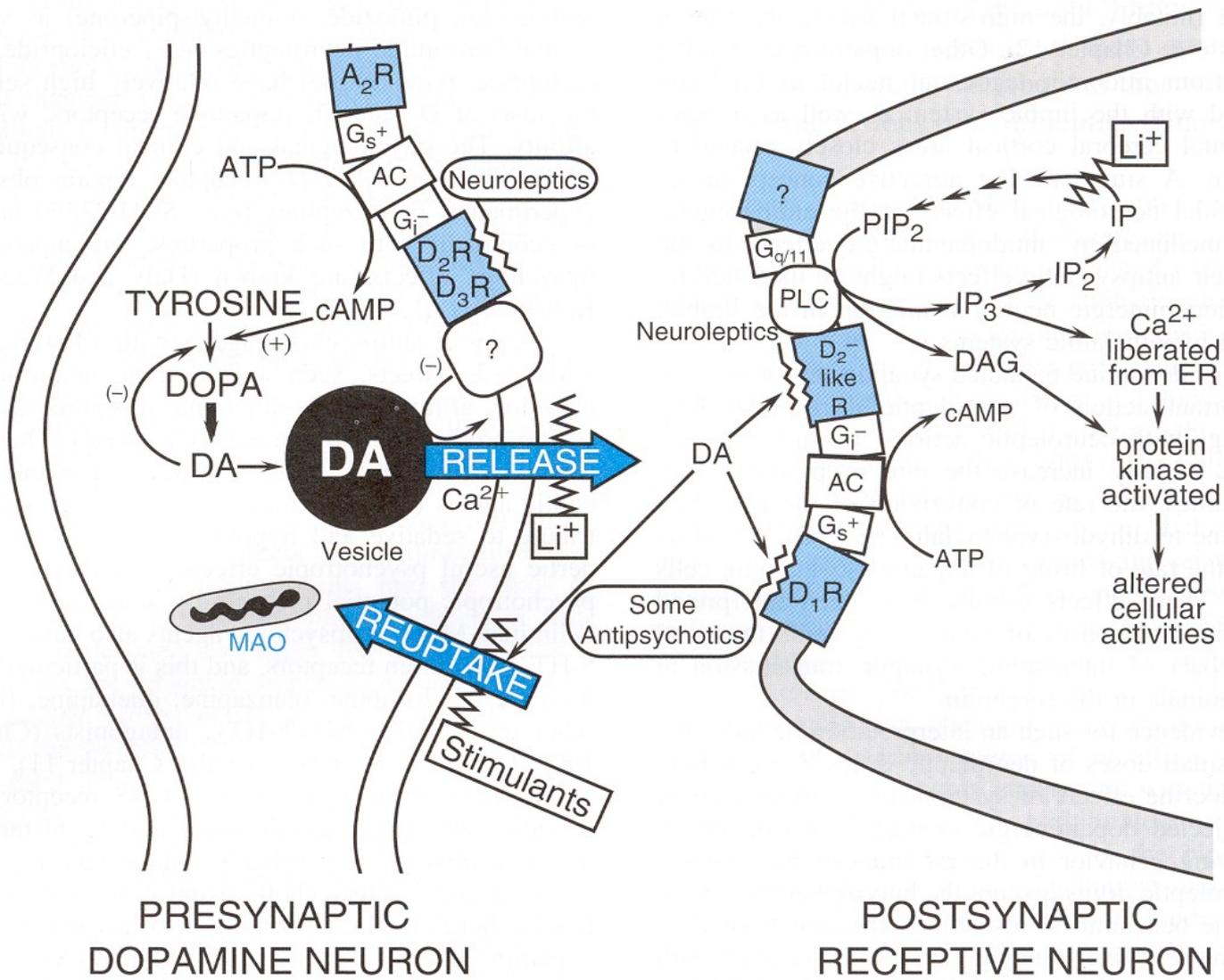
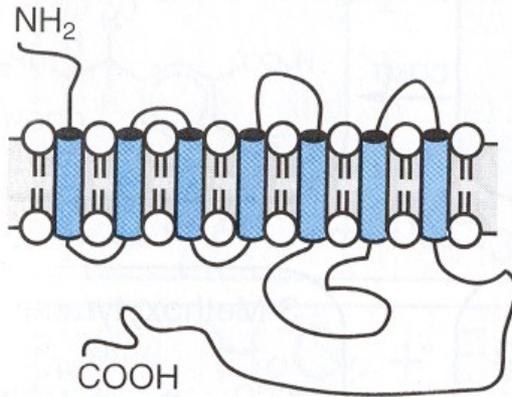


Neurolettici:  
Tranquillanti maggiori e farmaci  
alfa adrenergici



## D<sub>1</sub> Receptor Family

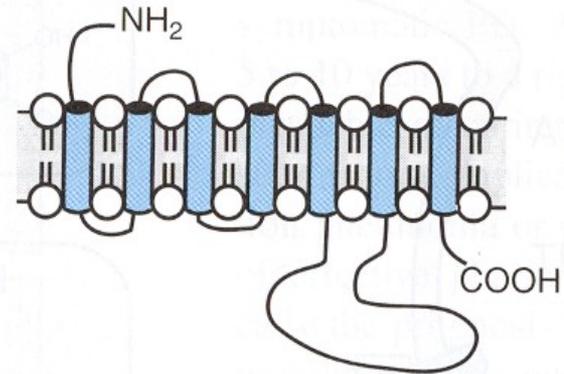


↑ cAMP

↑ PIP<sub>2</sub> hydrolysis

- Ca<sup>2+</sup> mobilization
- PKC activation

## D<sub>2</sub> Receptor Family



↓ cAMP

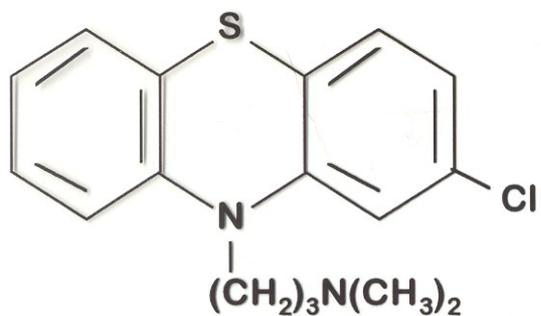
↑ K<sup>+</sup> currents

↓ ψ-gated Ca<sup>2+</sup> currents

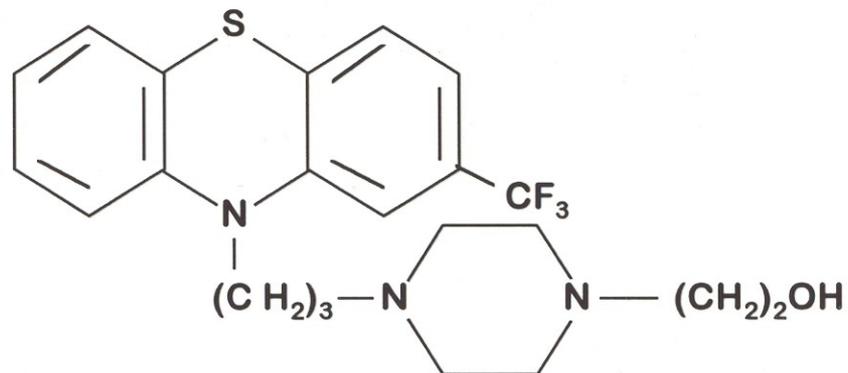
	D <sub>1</sub>	D <sub>5</sub>
Distribution	• striatum • neocortex	• hippocampus • hypothalamus

	D <sub>2</sub>	D <sub>3</sub>	D <sub>4</sub>
Distribution	• striatum • SNpc • pituitary	• olf. tubercle • n. accumbens • hypothalamus	• frontal cortex • medulla • midbrain

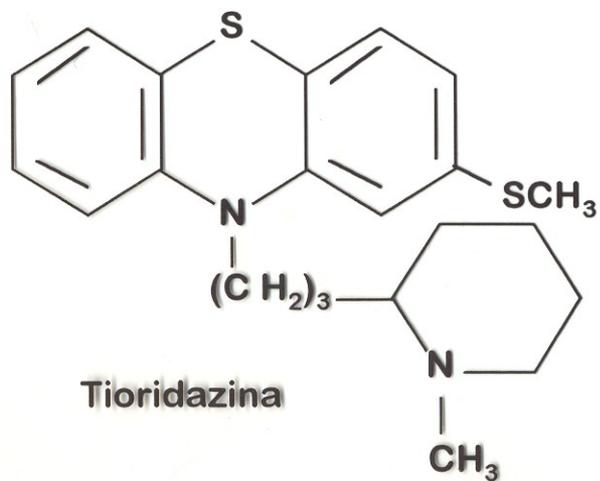
# DERIVATI FENOTIAZINICI



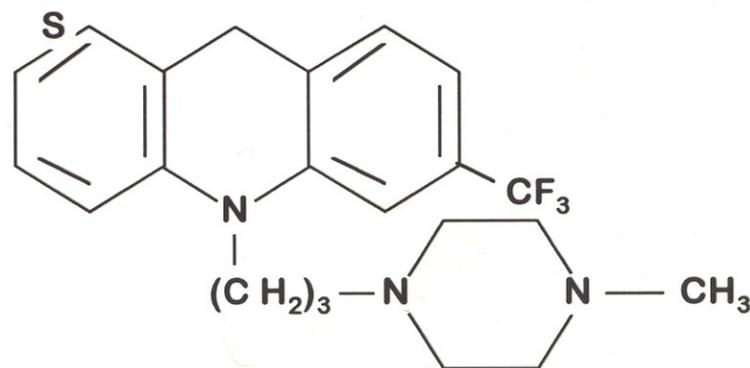
Clorpromazina



Flufenazina

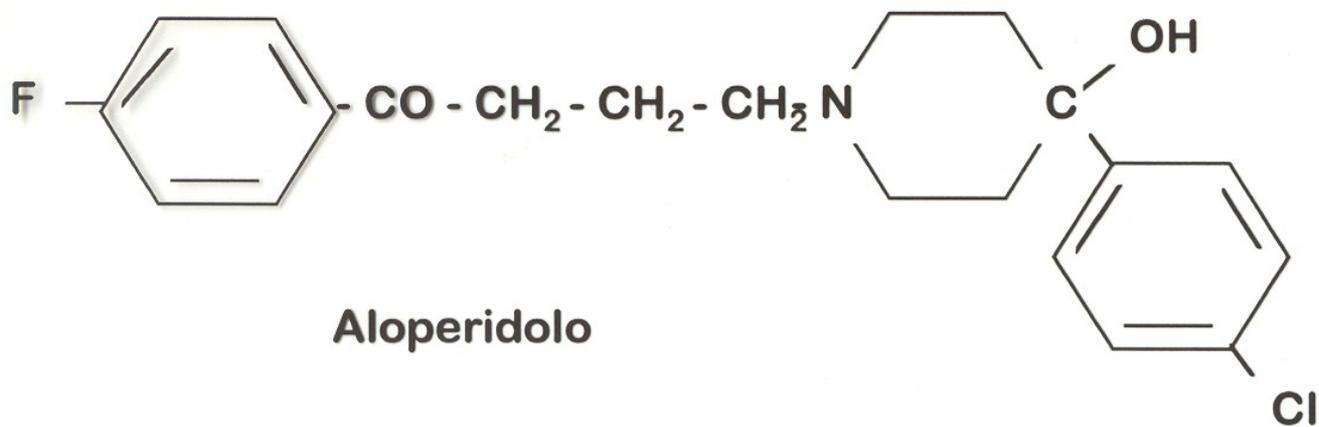


Tioridazina

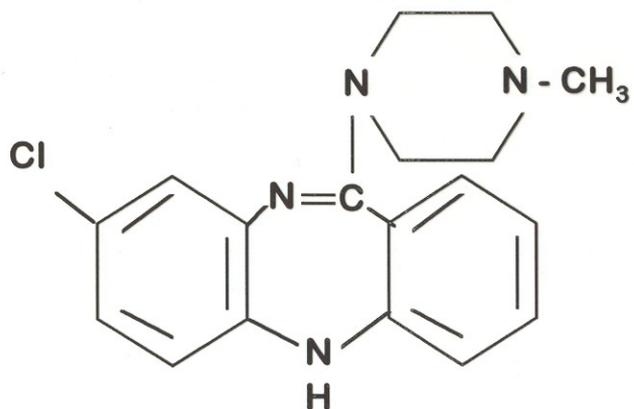


Trifluoperazina

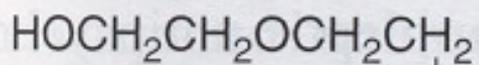
# BUTIRROFENONI



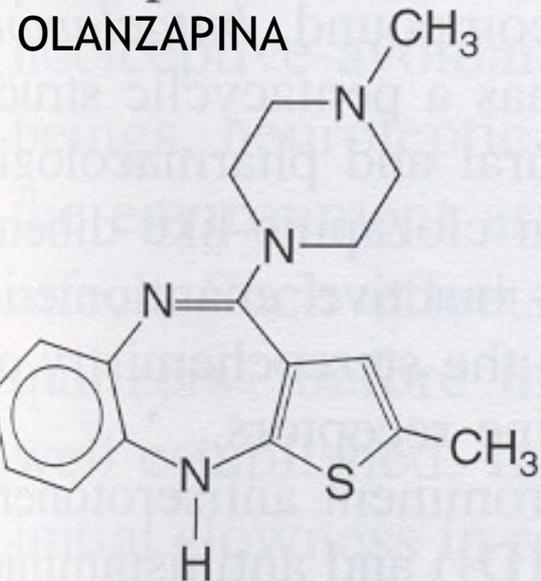
# NEUROLETTICI ATIPICI



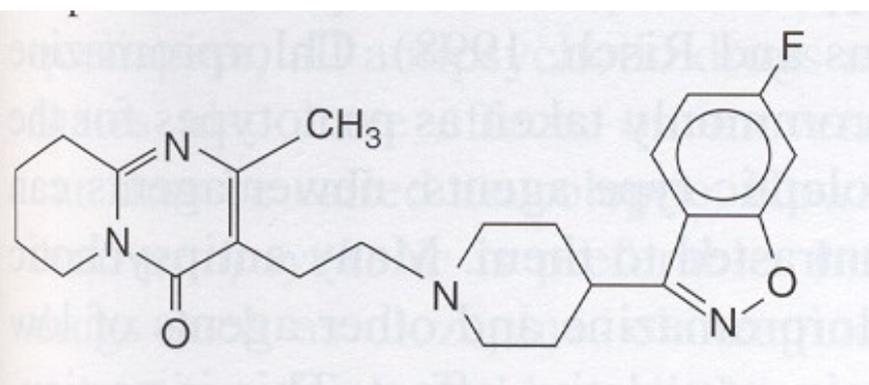
CLOZAPINA



QUETIAPINA

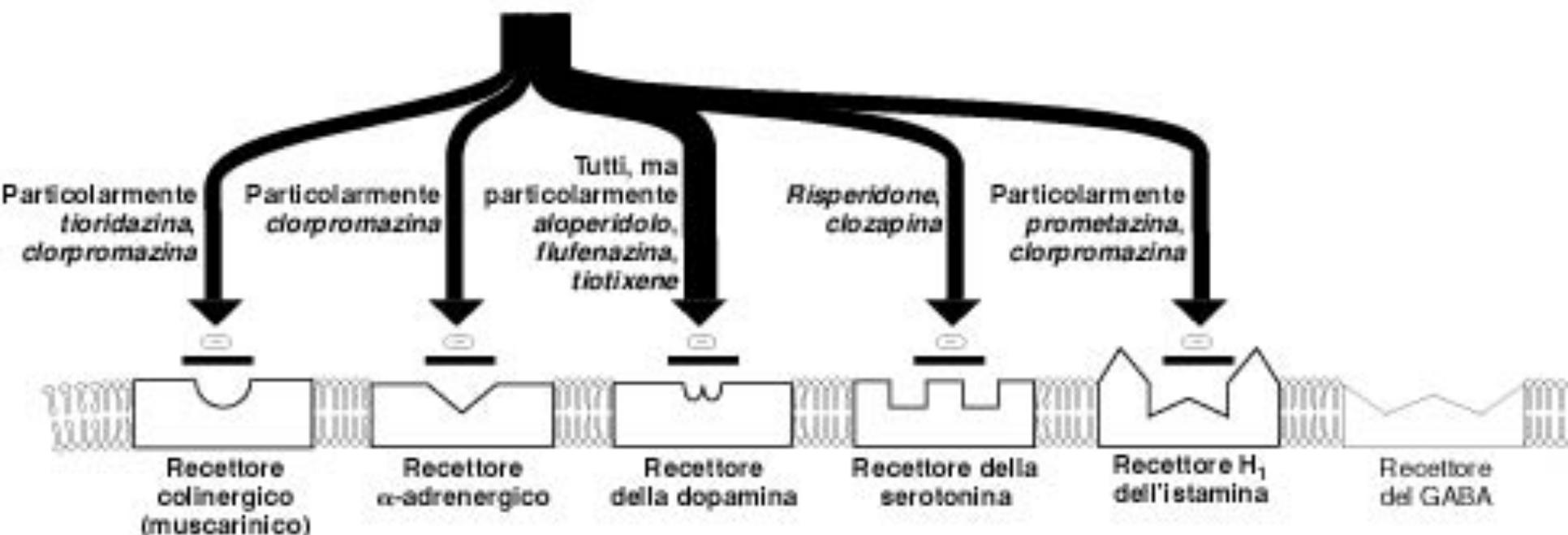


OLANZAPINA



RISPERIDONE

## FARMACI NEUROLETTICI



## PROPRIETÀ DEI FARMACI NEUROLETTICI

Tipo chimico	Esempi	Recettori bloccati					
		D <sub>1</sub>	D <sub>2</sub>	α	H <sub>1</sub>	M	5-HT <sub>2</sub>
<b>Neurolettici tipici</b>							
<u>Fenotiazine</u>							
Alifatiche	Clorpromazina	++	+++	+++	++	++	+
Piperazine	Flufenazina	+	+++	++	++	++	+
Piperidine	Trifluoperazina	+	+++	++	++	++	+
	Tioridazina	+	++	+++	-	++	++
<u>Butirrofenoni</u>	Aloperidolo	+	+++	±	+	±	+
	Flupentixolo	++	+++	++	-	-	+++
<u>Tioxanteni</u>	Clopentixolo	+	+++	++	-	-	+++
<b>Neurolettici atipici</b>							
Benzamidi	Sulpiride	-	+++	-	-	-	-
	Remoxipiride	-	+++	-	-	-	-
Difenilbutilpiperazine	Pimozide	-	+++	-	-	-	-
Dibenzodiazepine	Clozapina	+	++	+++	++	+++	+++

# PROPRIETÀ FARMACOLOGICHE dei Neurolettici

## EFFETTI COMPORTAMENTALI

- ✓ Effetti sull'attività motoria
- ✓ Effetti sul sonno
- ✓ Effetti sulle risposte condizionate
- ✓ Effetti sui comportamenti complessi

	Attività antipsicotica	Effetti extrapiramidali	Ipotensione	Sedazione
Clorpromazina	++	++	++++	++++
Tioridazina	+	+	+++	++++
Flufenazina	+++	+++	+	+
Clorprotixene	+++	+++	+++	++++
Aloperidolo	++++	++++	+	+
Pimozide	+++	++++	+	+
Clozapina	++++	-	+++	++++
Sulpiride	+++	++	+	+

# EFFETTI ANTIEMETICI DEI NEUROLETTICI

*Meclizina  
Dimenidrinato*



Per la nausea  
dovuta a...

Vertigini

*Scopolamina  
Prometazina*



Per la nausea  
dovuta a...

Mal di  
moto

*Tietylperazina  
Domperidone*



Per la nausea  
dovuta a...

Terapia  
radiante

*Droperidolo  
Domperidone  
Aloperidolo  
Metoclopramide  
Proclorperazina  
(vedi p. 241)*



Chemioterapia  
antitumorale