



ორგანული ქიმიის
მიმართულება
ფაფადაა დასაქმებული

**ზოგიერთი 5-ჩანაცვლებული 2-ეთოქსიკარბონილ-3-ფორმილინდოლის
არილჰიდრაზონების სინთეზი და შიგამოლეკულური ციკლოკონდესაცია**

ნათია ქარჩავა

ხელმძღვანელები:

აკადემიკოსი, ქიმიის
მეცნიერებათა
დოქტორი
სრული პროფ.

შოთა სამსონია

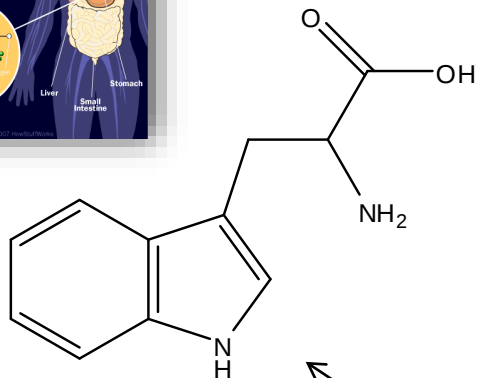
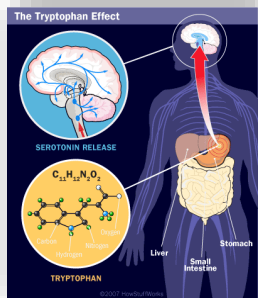


ქიმის მეცნიერებათა
დოქტორი
ასოც. პროფ.

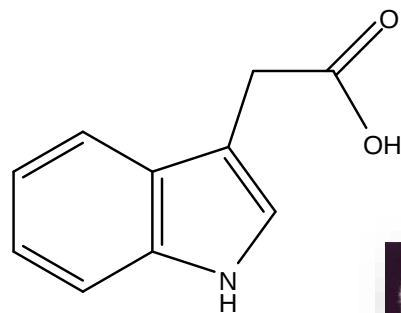
ოღსებ ჩიკვადზე



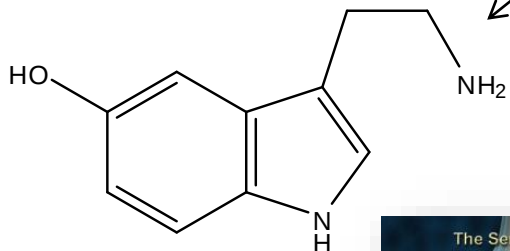
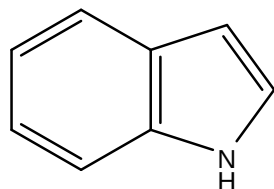
თბილისი 2013



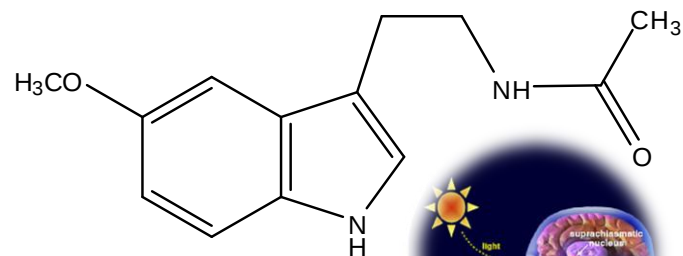
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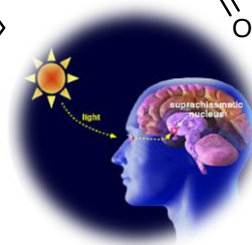
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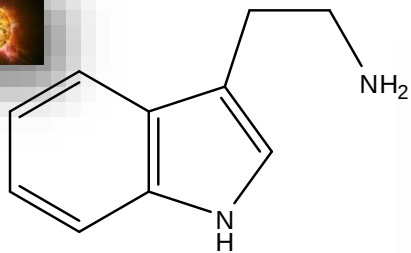


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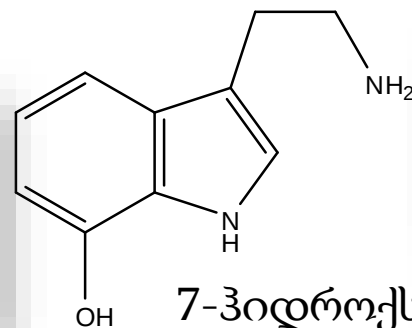


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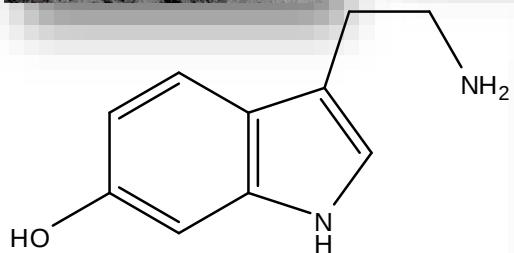
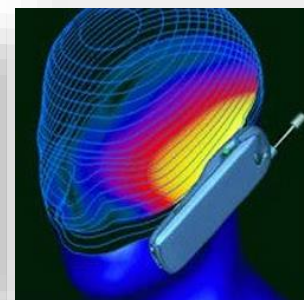
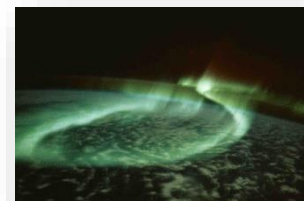




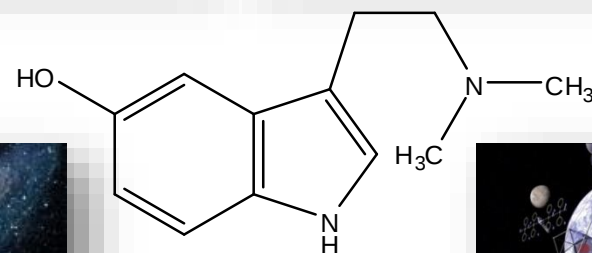
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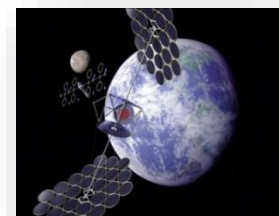
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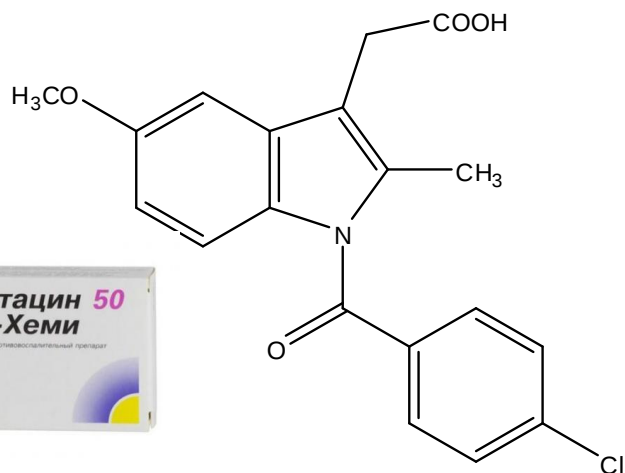


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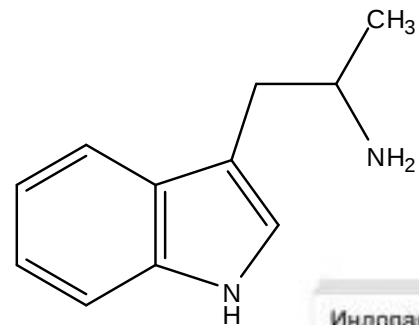


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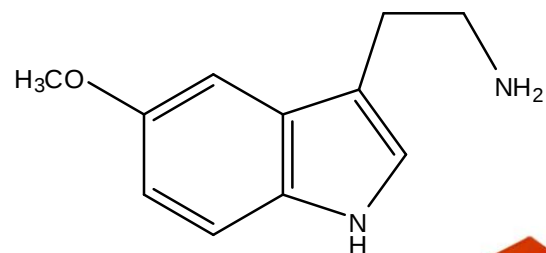
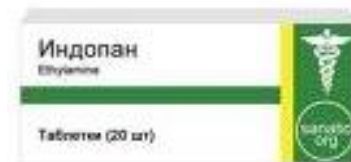




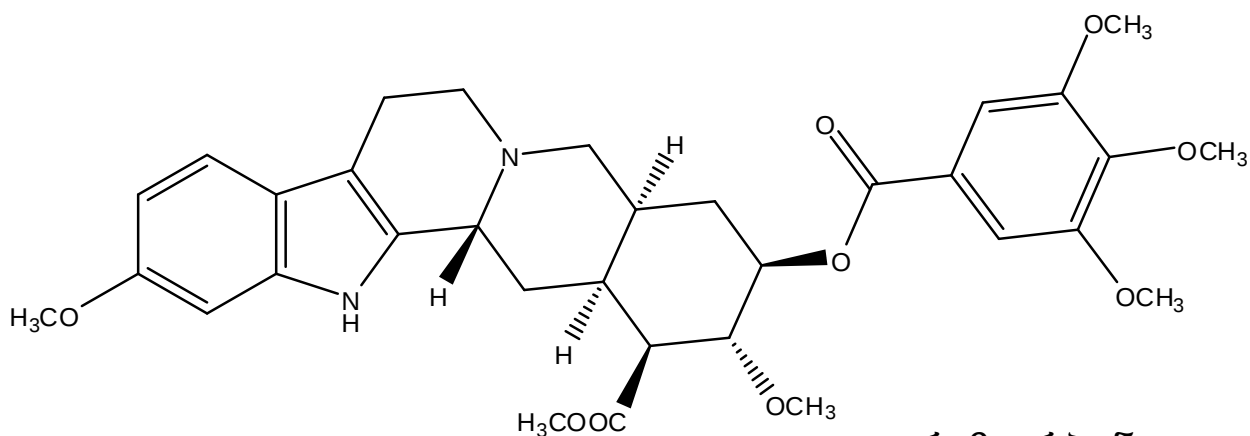
ინდომეტაცინი



ინდოპანი

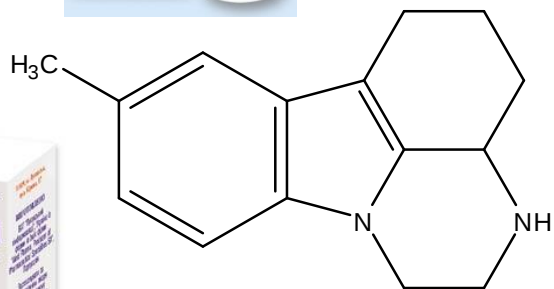


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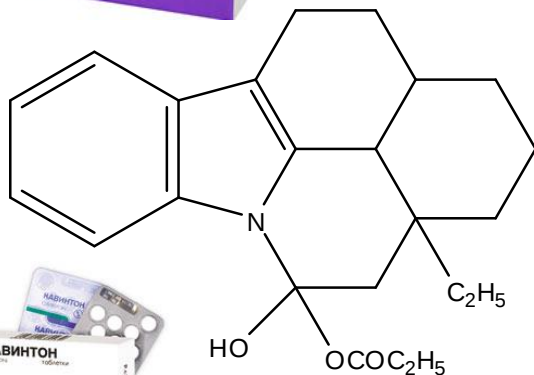


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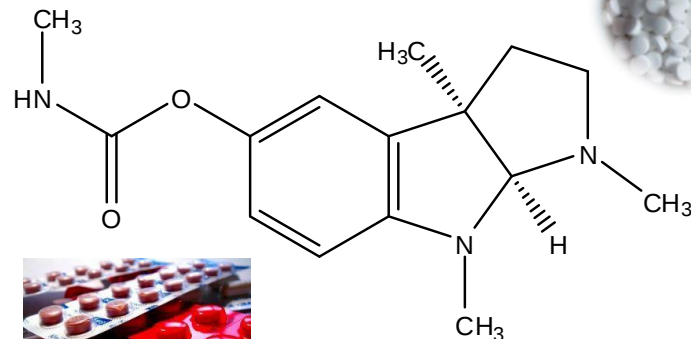




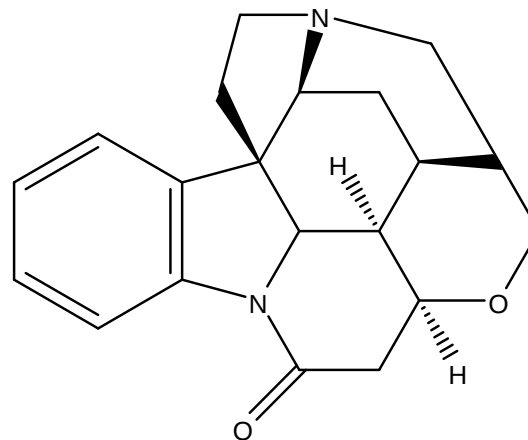
პირაზიდოლი



კავინტონი



ვიგოსტიგმინი

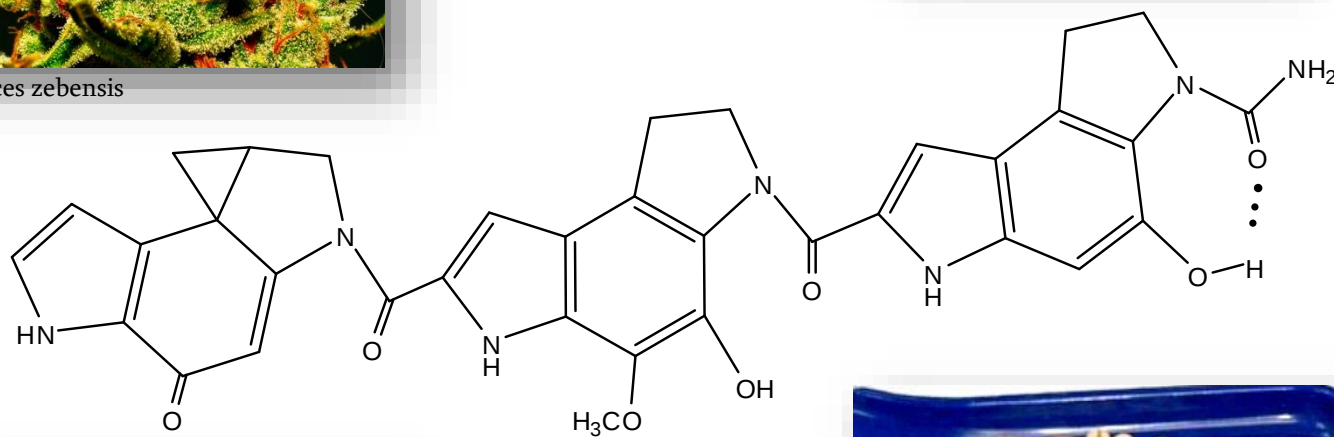


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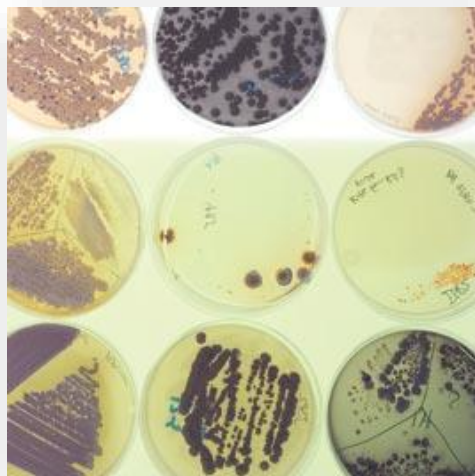


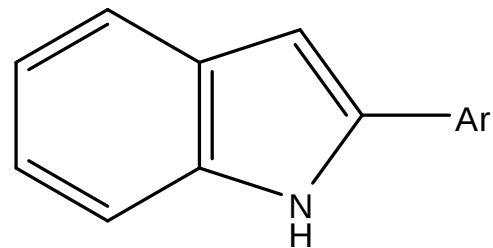


Streptomyces zebensis

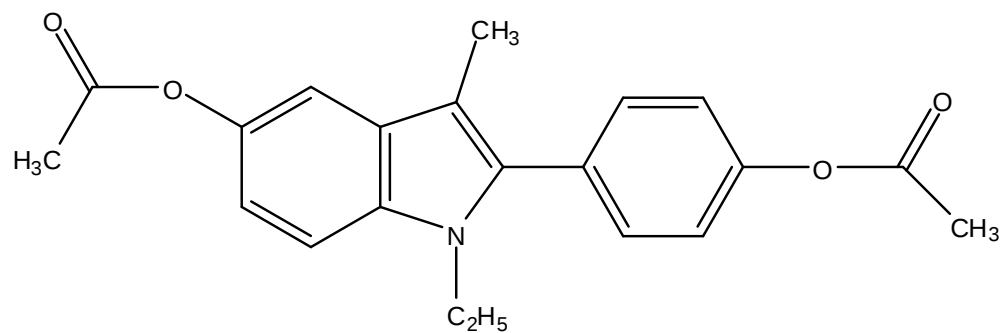
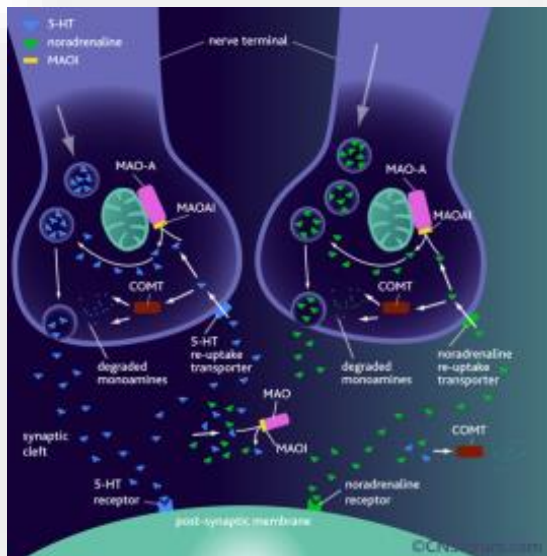


CC-1065

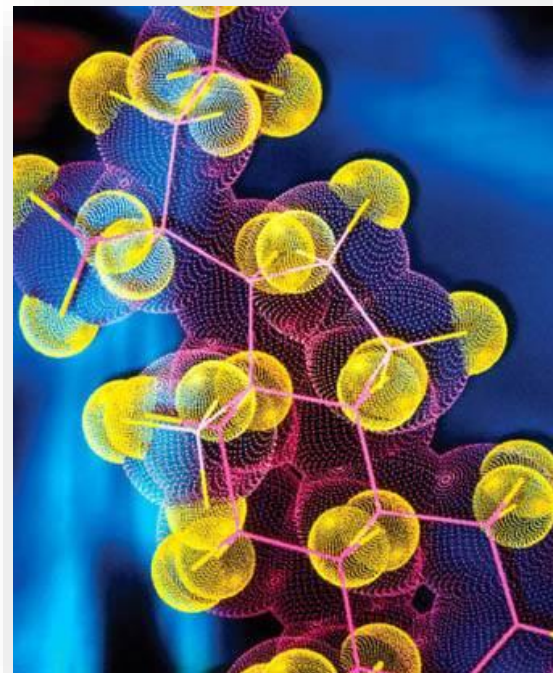


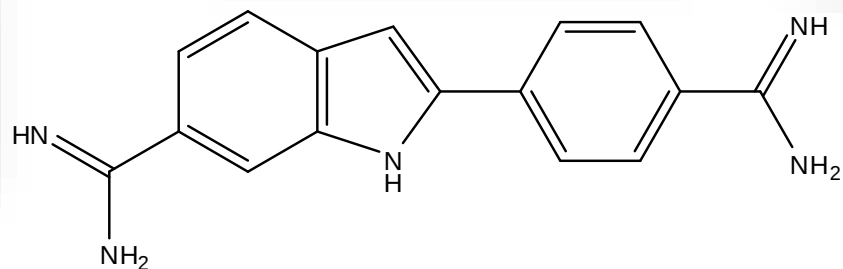
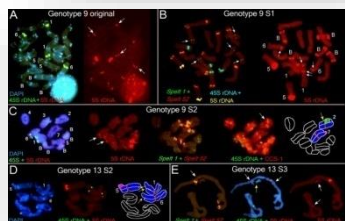
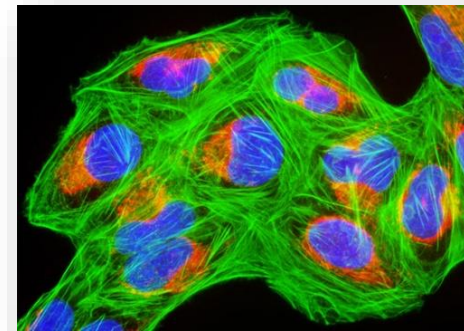
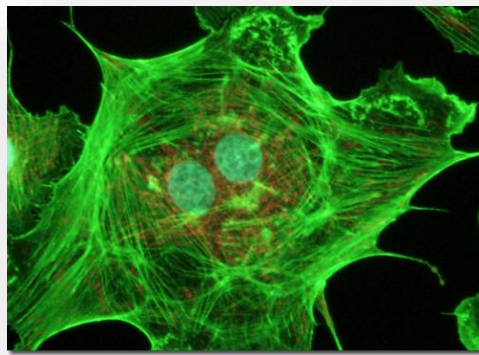
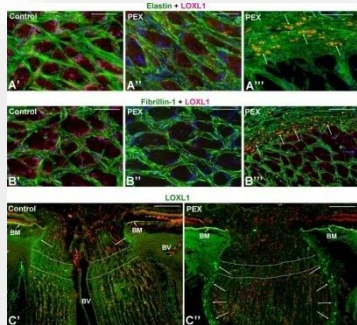
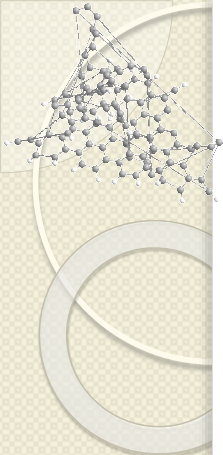


2-არილინდოლი

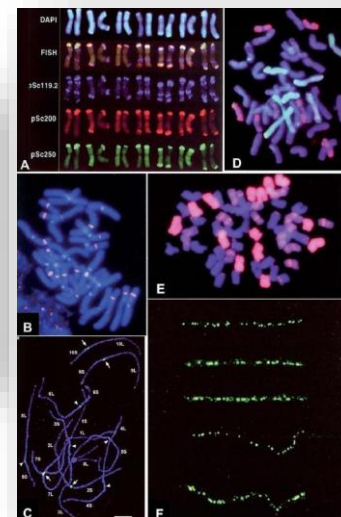
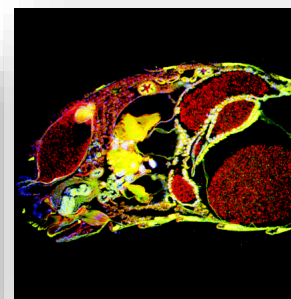
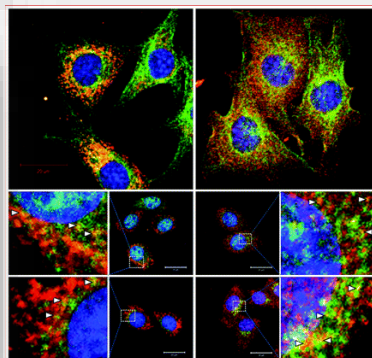
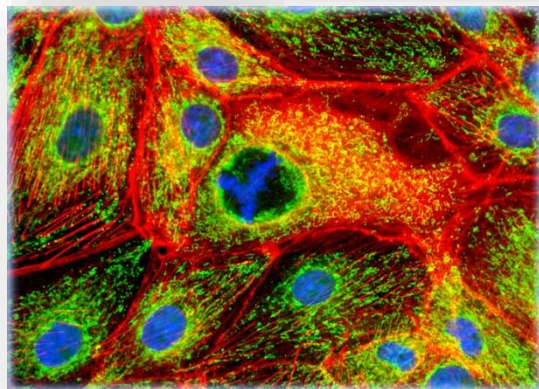
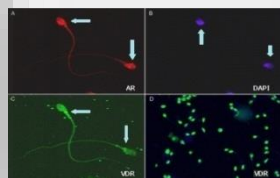
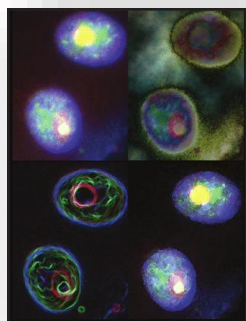
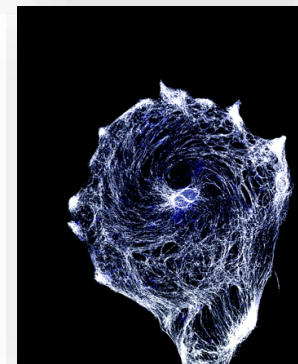


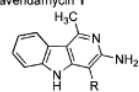
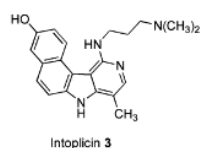
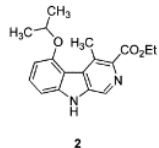
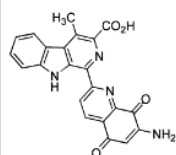
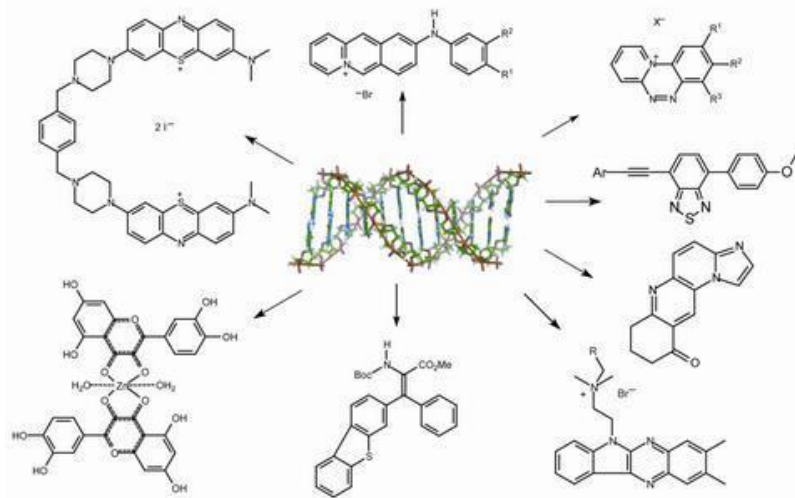
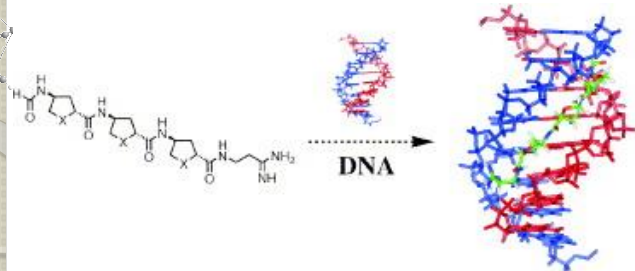
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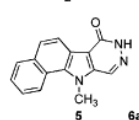


4',6-დამიდინო-2-ფენილინდოლი

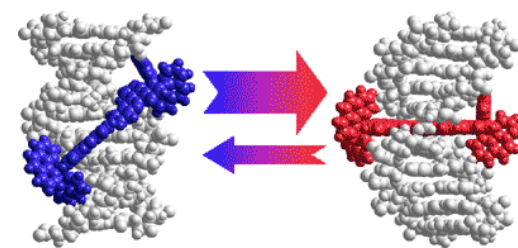
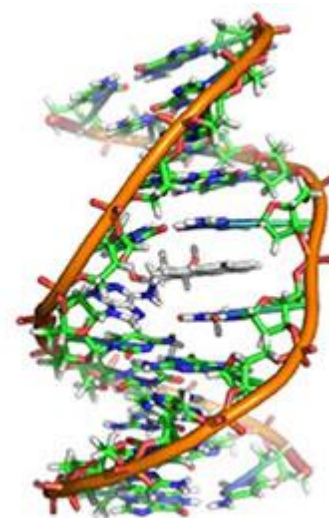
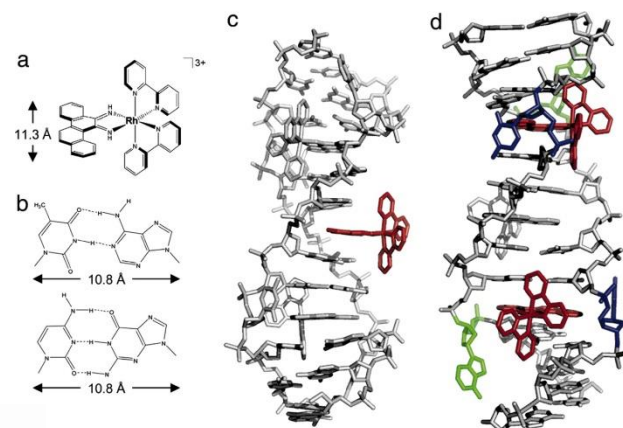
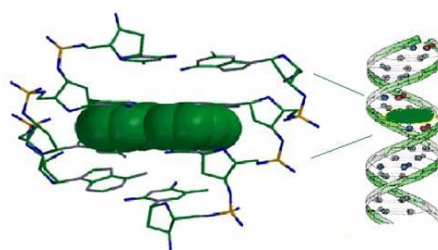




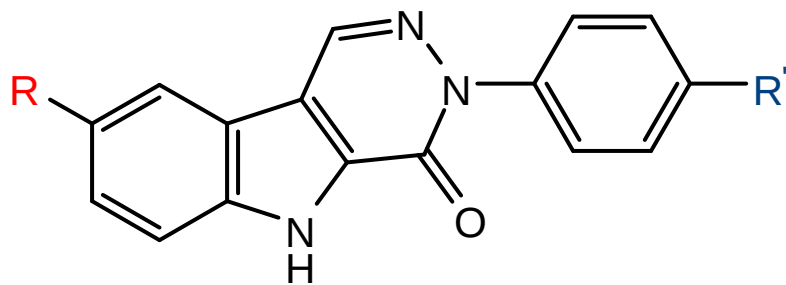
4a Trp-P-1 R = CH₃
4b Trp-P-2 R = H



6a X = N, R₁ = R₃ = H, R₂ = NHCH₂CH₂OH
6b Glu-P-1 X = CH, R₁ = NH₂, R₂ = H, R₃ = CH₃
6c Glu-P-2 X = CH, R₁ = NH₂, R₂ = R₃ = H

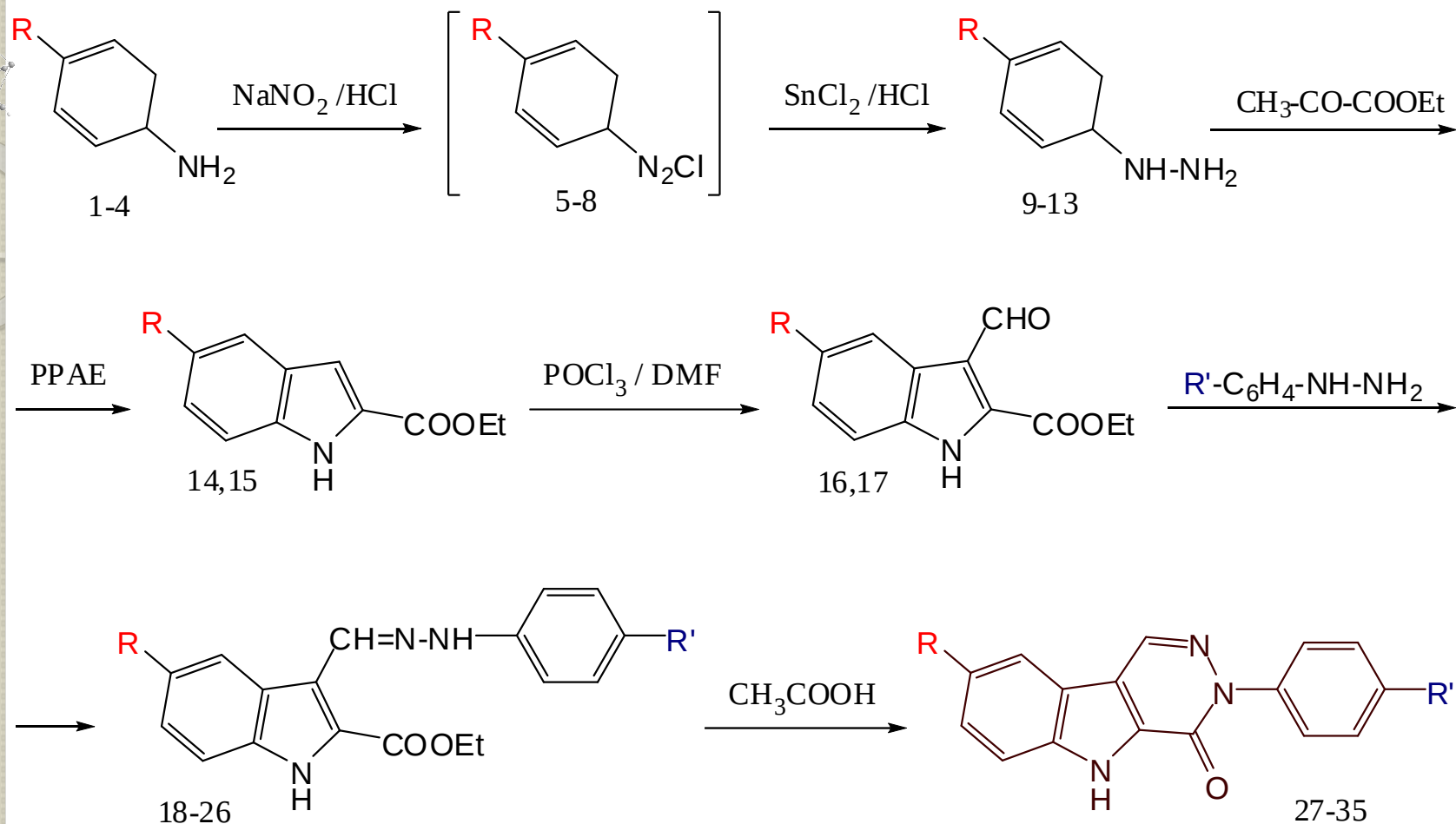


3-არილ-4-ოქსო-3H,5H-პირიდაზინო[4,5-b]ინდოლი



$R = -Cl, -CH_3$

$R' = -Cl; -Br; -NO_2; -CH_3; -C_6H_5$



1,5,9,14,16,18-22,27-31 $\text{R}=\text{Cl}$;
 4,7,12 $\text{R}=\text{Ph}$; 13 $\text{R}=\text{NO}_2$;
 20,25, 29,34 $\text{R}'=\text{NO}_2$;

2,6,10,15,17,23-26,32-35 $\text{R}=\text{CH}_3$; 3,6,11 $\text{R}=\text{Br}$;
 18,23,27,32 $\text{R}'=\text{Cl}$; 19,24,28,33 $\text{R}'=\text{Br}$;
 21,26,30,35 $\text{R}'=\text{CH}_3$; 22, 31 $\text{R}'=\text{Ph}$;





თბილისი 2013

