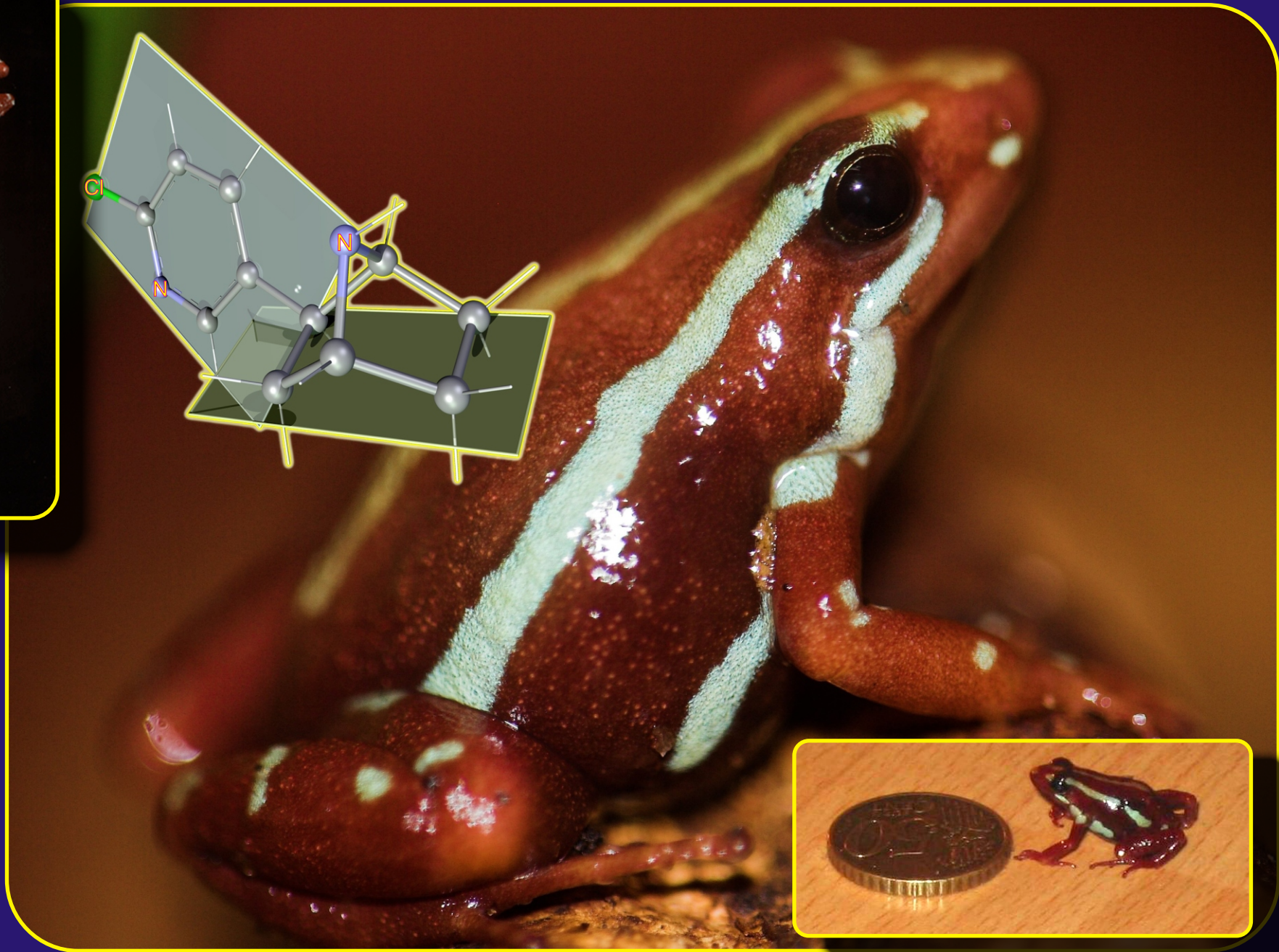
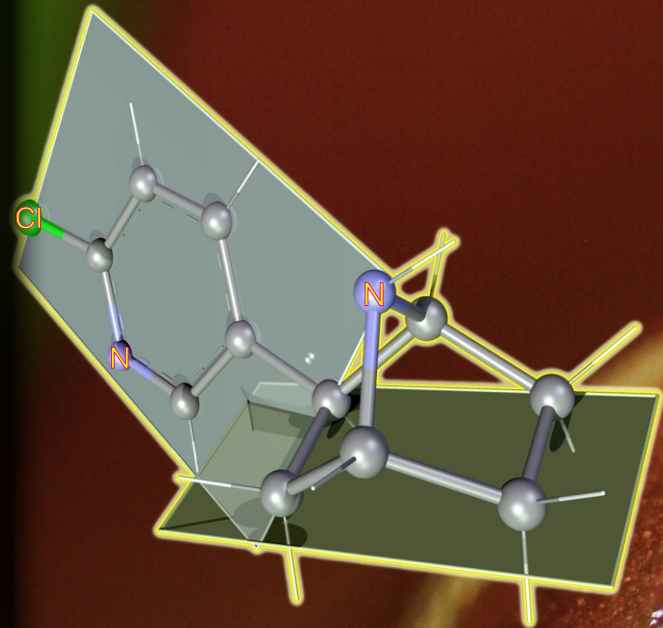


EPIBATIDINE - ALAKLOID IZOLOVAN IZ KOŽE JUŽNO-AMERIČKE ŽABE *Epipedobates tricolor*

-IZUZETNO EFIKASAN ANALGETIK, ALI PREVIŠE TOKSIČAN ZA MEDICINSKU PRIMENU.

-POTENCIJALNI PROTOTIP ZA NOVE, SINTETIČKE ANALGETIKE





**PRIRODNO  
STANIŠTE ŽABE**  
*Epipedobates tricolor*

**B.**



**A.**

*Epipedobates tricolor*

**D.**



**Monograph Number: 3641 Title: Epibatidine CAS Registry Number: 140111-52-0**

**CAS Name: (1R,2R,4S)-2-(6-Chloro-3-pyridinyl)-7-azabicyclo[2.2.1]heptane**

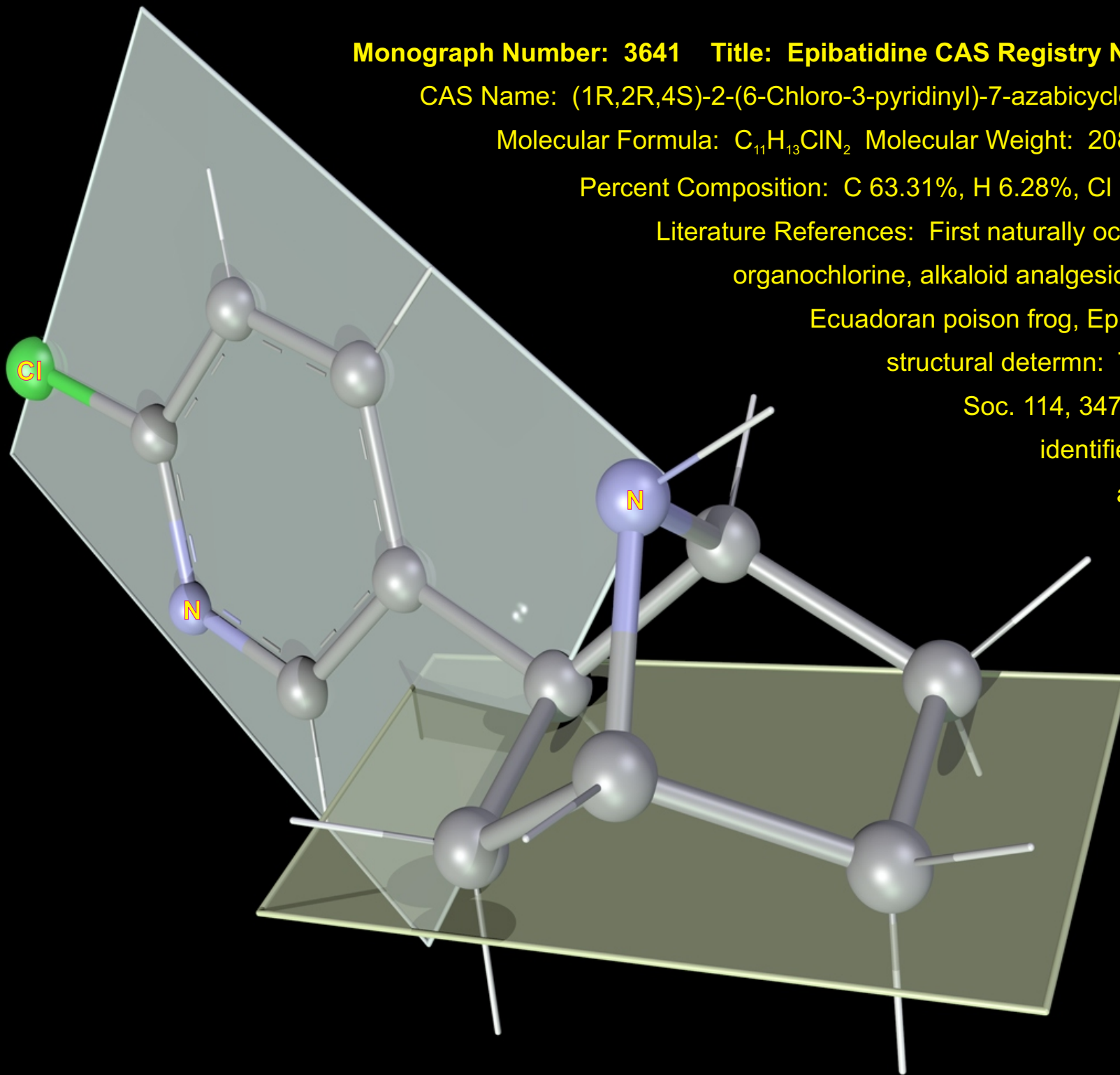
**Molecular Formula: C<sub>11</sub>H<sub>13</sub>ClN<sub>2</sub> Molecular Weight: 208.69.**

**Percent Composition: C 63.31%, H 6.28%, Cl 16.99%, N 13.42%**

**Literature References: First naturally occurring non-opioid, organochlorine, alkaloid analgesic; isolated from skin of the Ecuadoran poison frog, *Epipedobates tricolor*. Isolation and structural determination: T. F. Spande et al., *J. Am. Chem. Soc.* 114, 3475 (1992). First natural product identified which contains the 7-**

**azabicyclo[2.2.1]heptane ring system. Synthesis of (±)-form: C. A. Broka, *Tetrahedron Letters* 1993, 3251.**

**Properties: Basic, relatively polar, colorless oil. uv max (methanol): 217 nm, shoulder 250-280 nm. Absorption maximum: uv max (methanol): 217 nm, shoulder 250-280 nm**



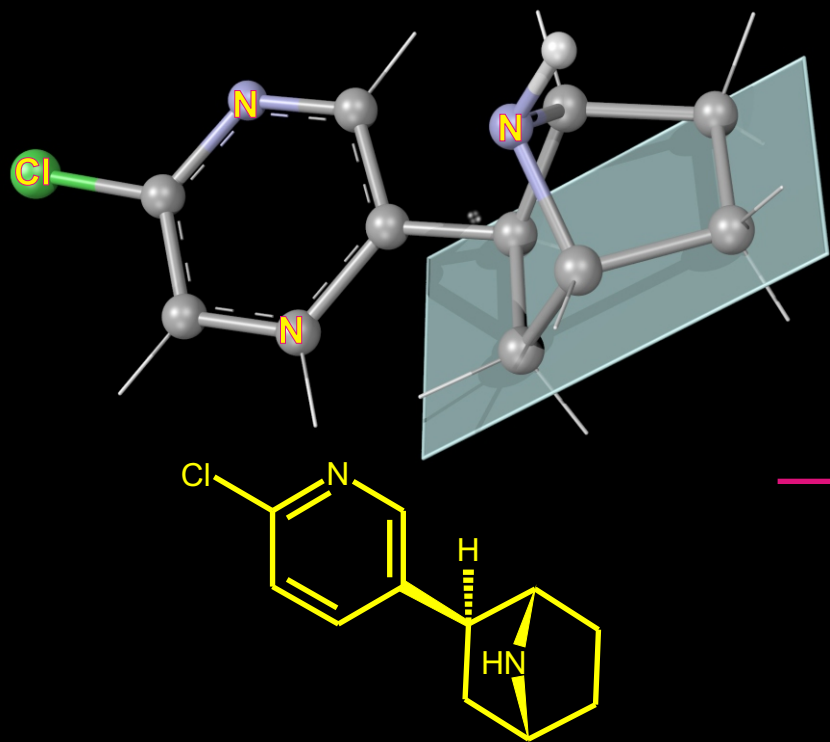
TEBANICLINE - SINTETIČKO JEDINJENJE KOJE DONEKLE IMA ANALOGNU STRUKTURU EPIBATIDINE-u. SINTETIZOVANO JE POLAZEĆI OD EPIBATIDINA KAO "IDEJNOG" UZORA (PHARMACOLOGICAL LEAD). IMA DOBRO ANALGETIČKO DEJSTVO I MANJE JE TOKSIČAN OD EPIBATIDINE-a, ALI IPAK VIŠE NEGO ŠTO JE PRIHVATLJIVO ZA NOVI LEK.

SCIFINDER: Registry Number: 198283-73-7, Formula:  $C_9H_{11}ClN_2O$

CA Index Name: Pyridine, 5-[(2R)-2-azetidinylmethoxy]-2-chloro-

Other Names: Pyridine, 5-(2-azetidinylmethoxy)-2-chloro-, (R)-;  
(R)-5-(Azetidin-2-ylmethoxy)-2-chloropyridine; 5-[(2R)-Azetidin-2-yl]methoxy]-2-chloropyridine; ABT 594; Tebanicline

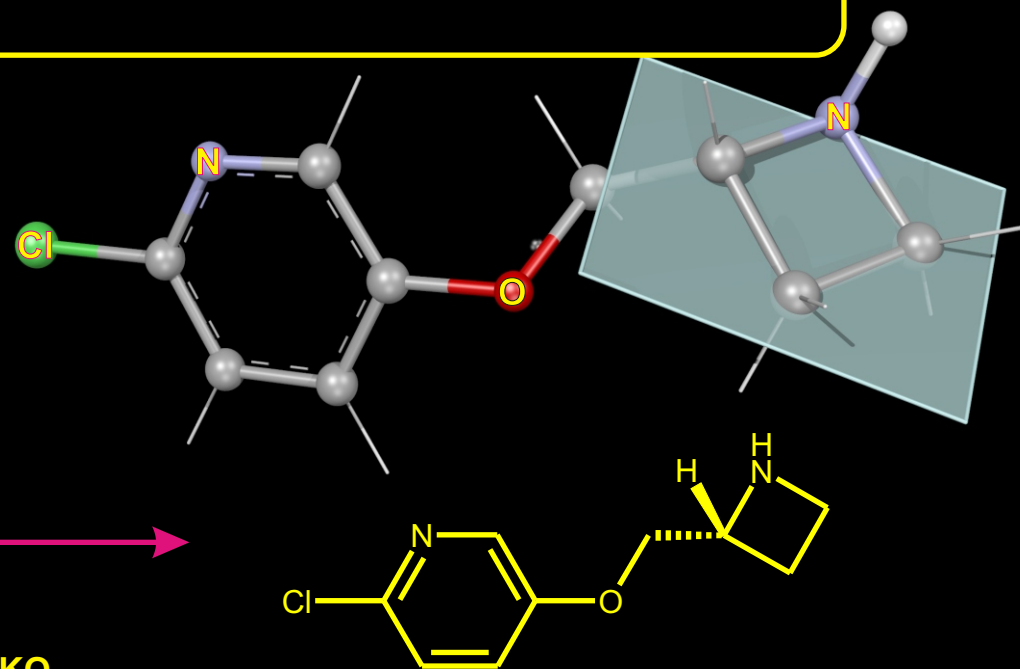
-- Properties --  
Experimental.....



EPIBATIDINE

STRUKTURNA  
ANALOGIJA I

SLIČNO  
FARMAKOLOŠKO  
DEJSTVO



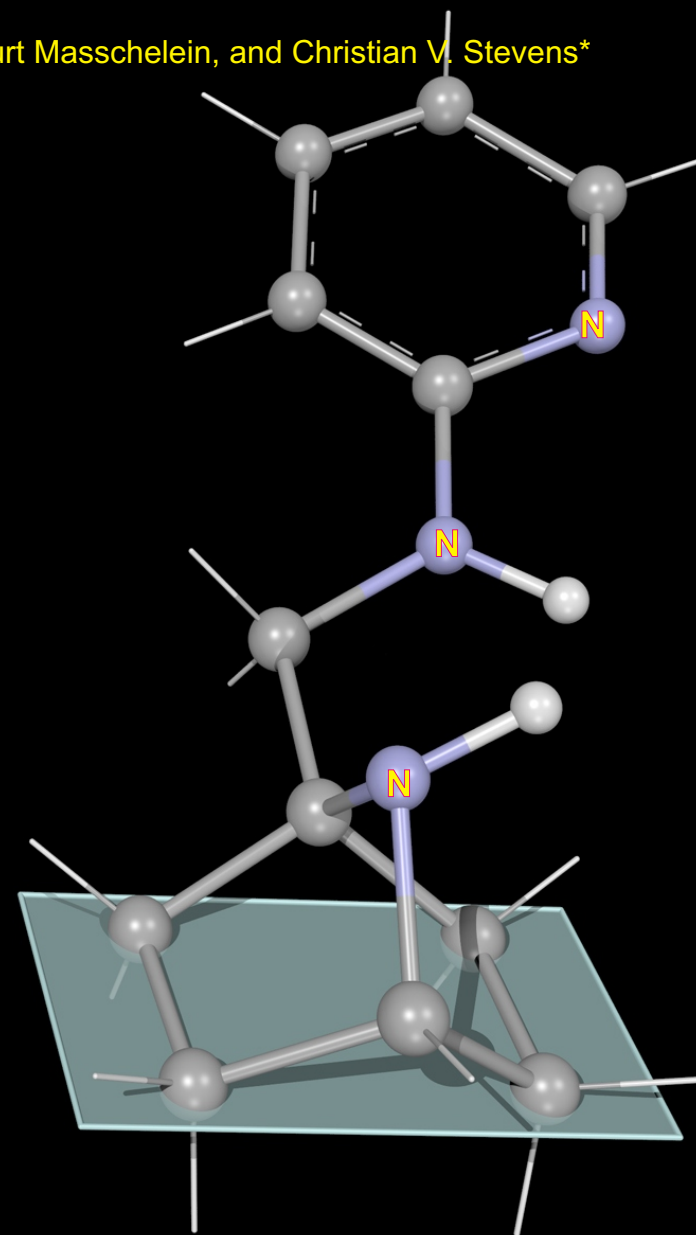
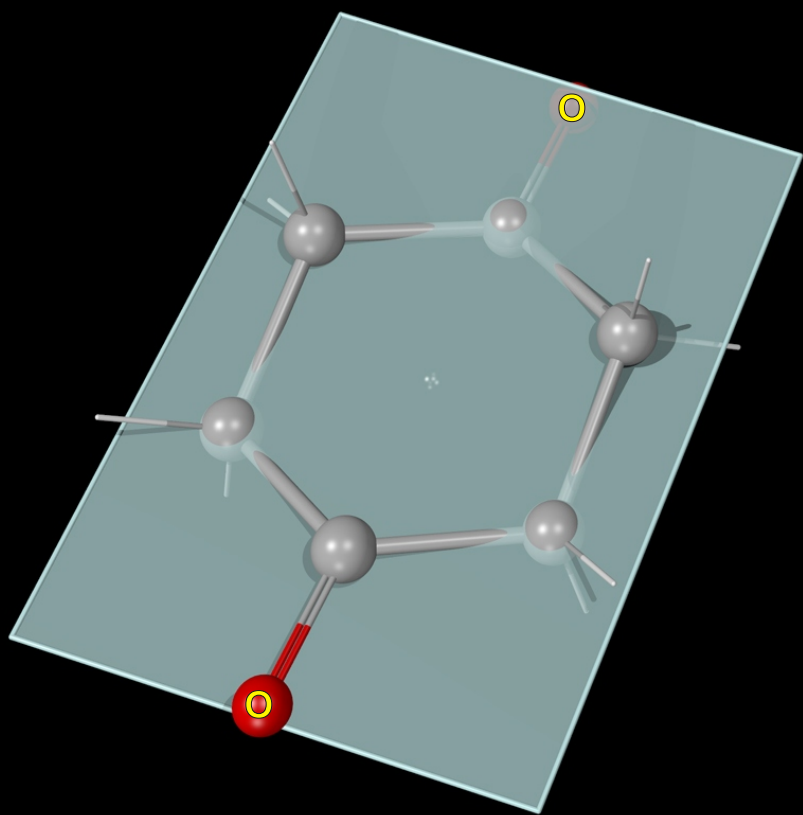
TEBANICLINE

U POTRAZI ZA NOVIM USPEŠNIM LEKOM - SINTEZE NOVIH ANALOGA EPIBATIDINE-a.

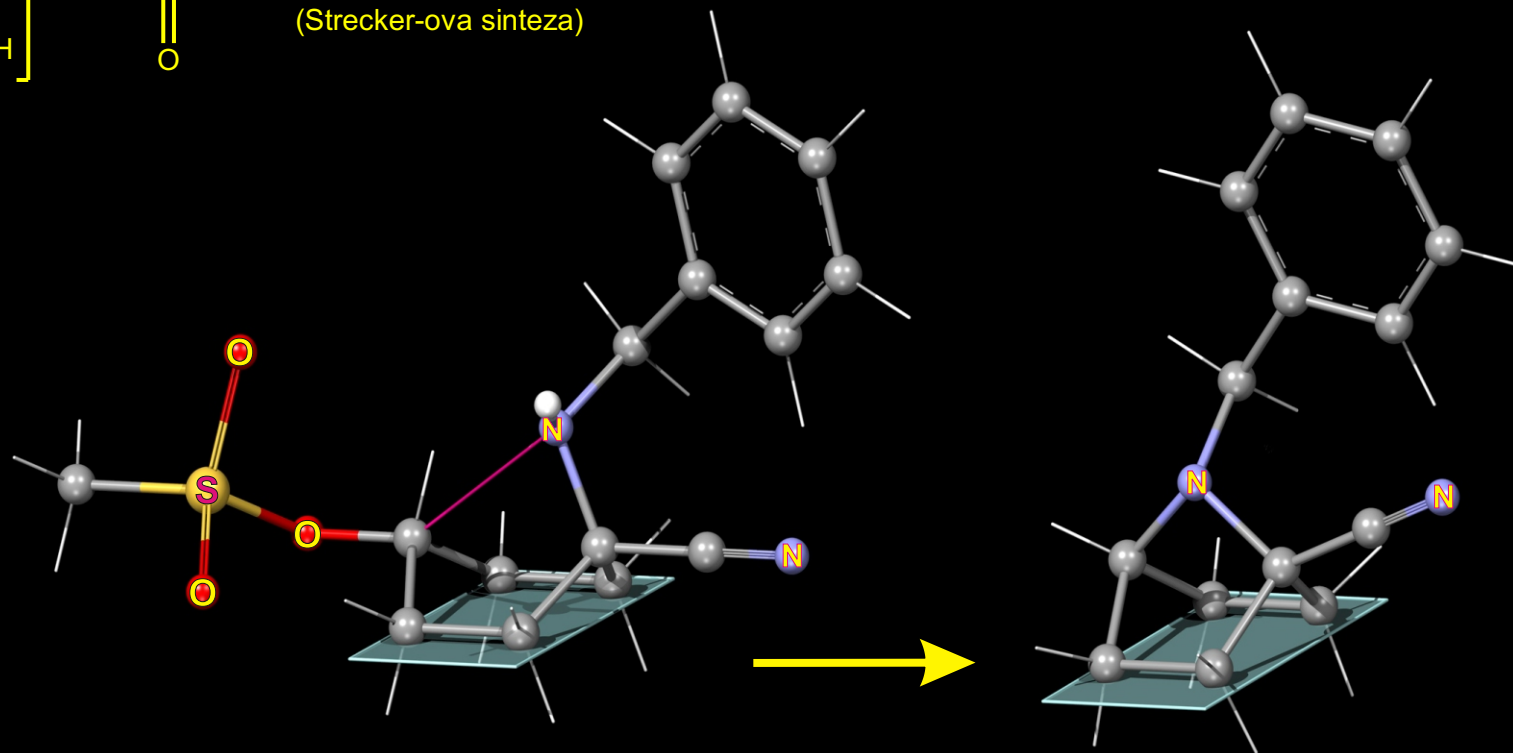
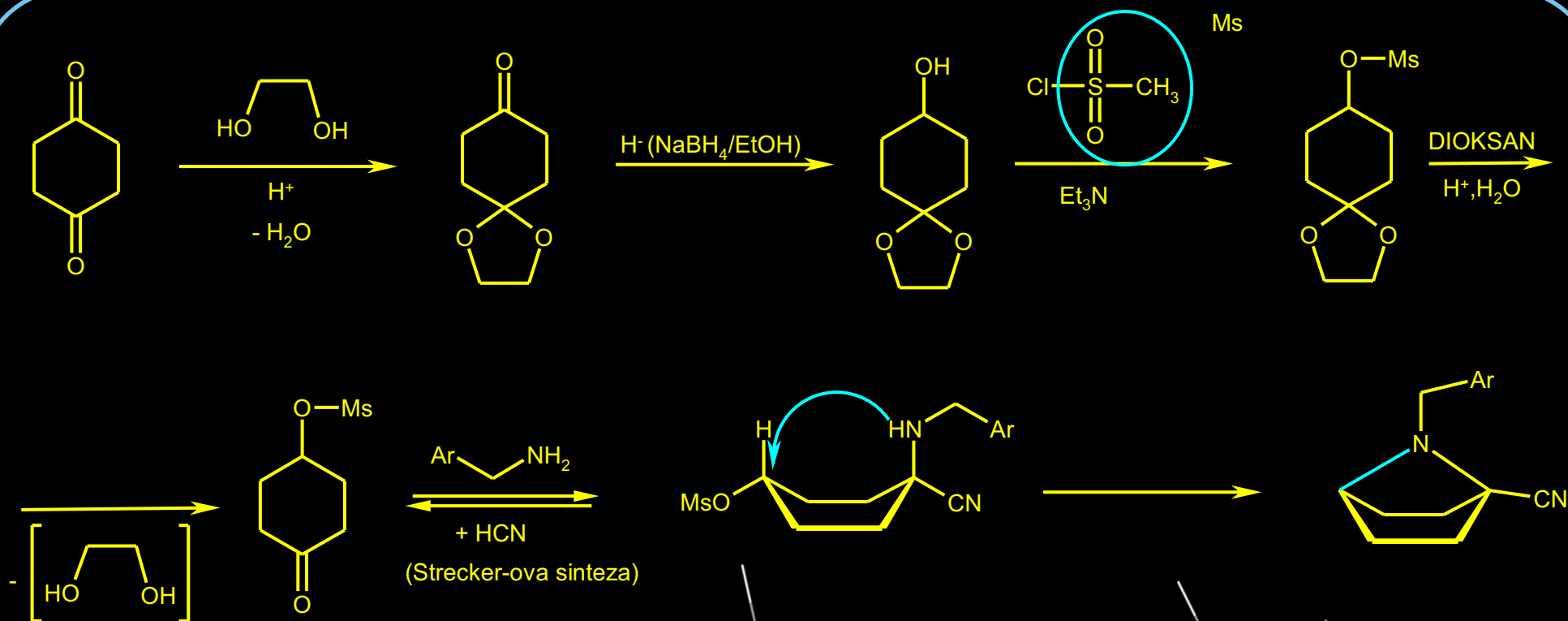
## A Straightforward Entry to 7-Azabicyclo[2.2.1]heptane-1-carbonitriles in the Synthesis of Novel Epibatidine Analogues

Thomas Heugebaert, Joke Van Hevele, Wouter Couck, Vicky Bruggeman, Sarah Van der Jeught, Kurt Masschelein, and Christian V. Stevens\*

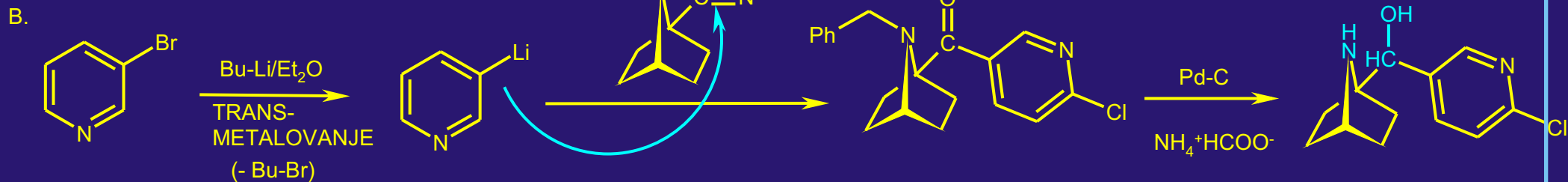
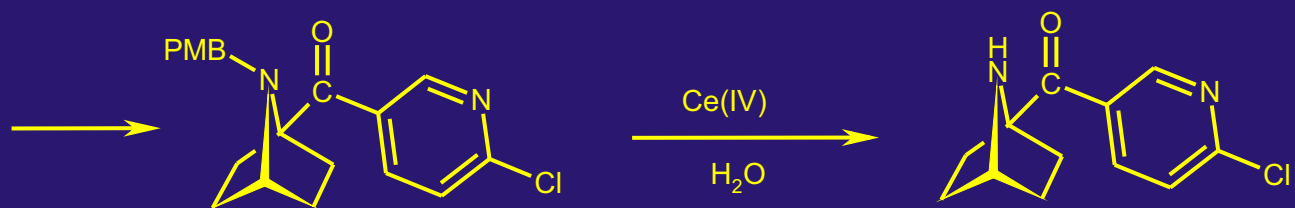
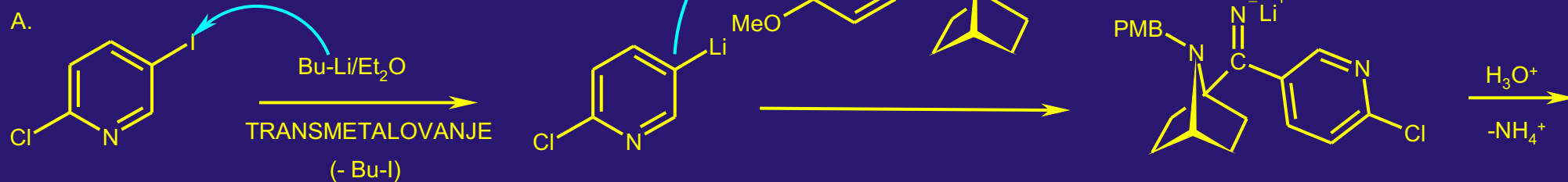
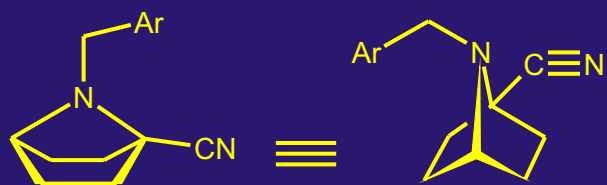
Eur. J. Org. Chem. 2010, 1017–1020



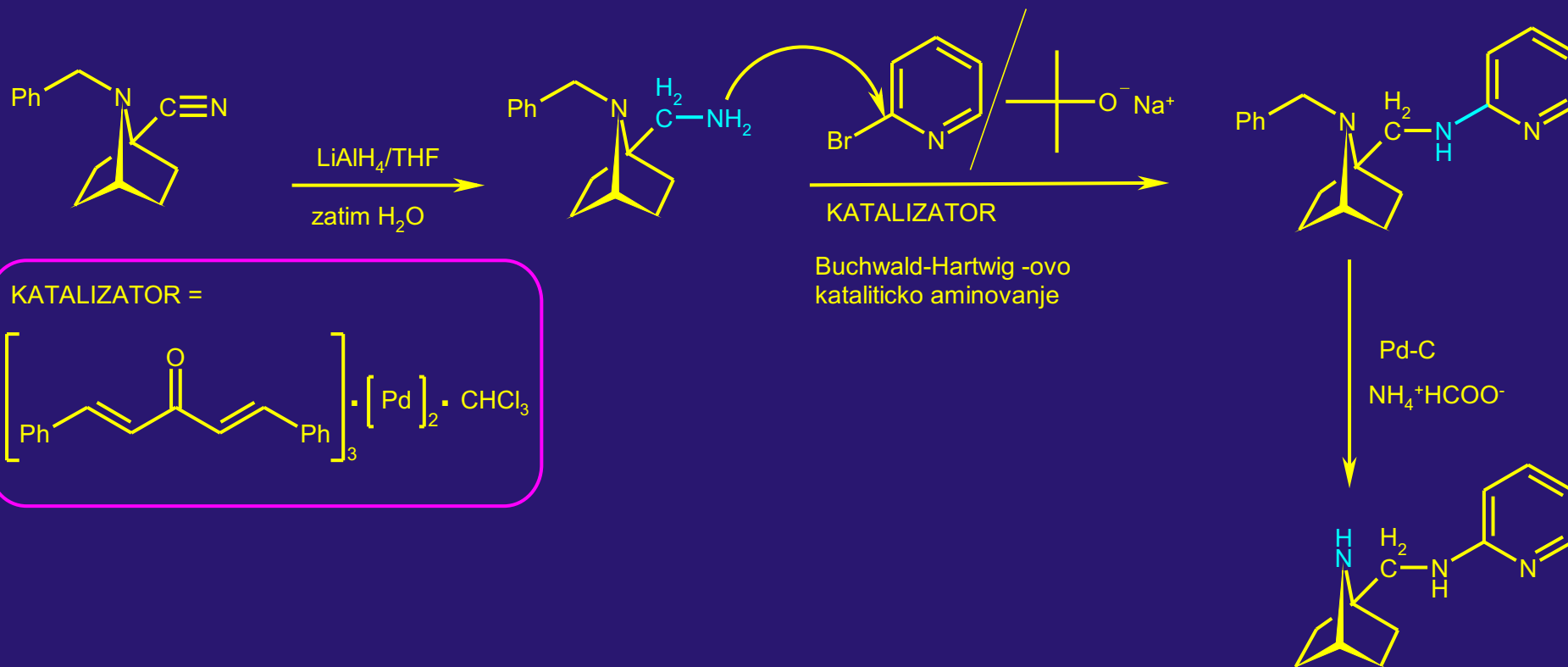
U POTRAZI ZA NOVIM USPEŠNIM LEKOM - SINTEZA NOVIH ANALOGA EPIBATIDINE-a.



U POTRAZI ZA NOVIM USPEŠNIM LEKOM - SINTEZE NOVIH ANALOGA EPIBATIDINE-a.



# U POTRAZI ZA NOVIM USPEŠNIM LEKOM - SINTEZE NOVIH ANALOGA EPIBATIDINE-a.



KATALIZATOR =

