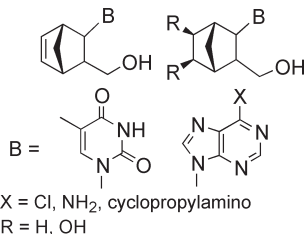*Collect. Czech. Chem. Commun.*
2010, *75*, 1–20

Synthesis of Novel Racemic Carbocyclic Nucleosides Derived from 5,6-Disubstituted Norbornene

Michal Šála, Hubert Hřebabecký, Martin Dračínský, Milena Masojídková, Armando M. De Palma, Johan Neyts and Antonín Holý

B =

X = Cl, NH$_2$, cyclopropylamino
R = H, OH

Collect. Czech. Chem. Commun.
2010, *75*, 21–31

**Verification of Accuracy of Standard Thermodynamic Data of Inorganic Electrolytes**

Jan Balej

$$\Delta G^\circ_{f,cr}(C_cA_a \cdot n H_2O) = \Delta G^\circ_{f,aq}(C_cA_a) +$$

$$n\Delta G^\circ_f(H_2O,l) + RT \ln(m^c_{C,sat} m^a_{A,sat} \gamma^v_{sat} a^n_{w,sat})$$

Collect. Czech. Chem. Commun.
2010, *75*, 33–57

A Convenient Protection for 4-Oxopyrimidine Moieties in Nucleosides by the Pivaloyl Group
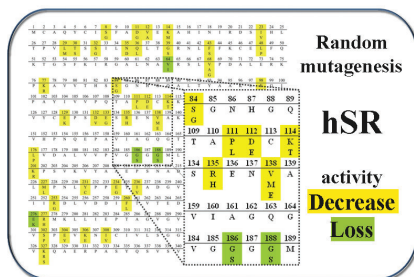
Michal Sobkowski

pyridine

2.2 equiv. PvCl   thymidine   1.1 equiv. PvCl

pyridine / TEA

$Pv = $
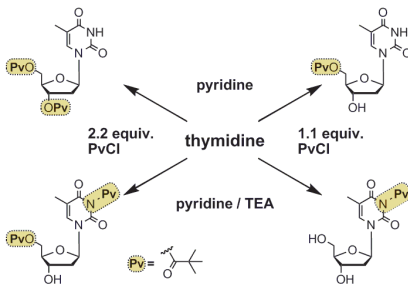
Collect. Czech. Chem. Commun.
2010, *75*, 59–79

**Random Mutagenesis of Human Serine Racemase Reveals Residues Important for the Enzymatic Activity**

Hillary E. Hoffman, Jana Jirásková, Marketa Zvelebil and Jan Konvalinka

Random mutagenesis

hSR

activity
Decrease
Loss

**Therapeutic Targets for
Influenza – Perspectives
in Drug Development**

Taťána Majerová, Hillary Hoffman and
Filip Majer

Hemagglutinin
RNA polymerase complex
M2 ion channel
Neuraminidase
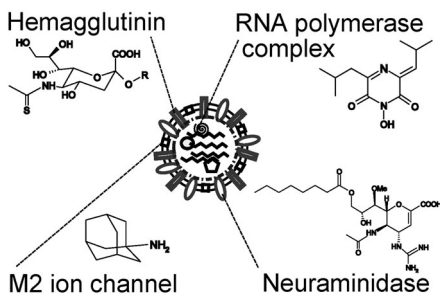
**Synthesis of Zirconocene Silsesquioxane
Complexes and Their Ethene Polymerization
Activity in Systems with Methylaluminoxane**

Vojtech Varga, Jiří Pinkas, Róbert Gyepes,
Petr Štěpnička, Michal Horáček, Zdeněk Bastl and
Karel Mach
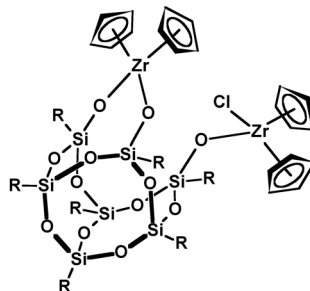
**Structure, Properties and Comparison
of C,N-Chelated and Amido-Stabilized
Plumbylenes**

Josef Bareš, Vítězslav Šourek, Zdeňka Padělková,
Philippe Meunier, Nadine Pirio,
Ivana Císařová, Aleš Růžička and
Jaroslav Holeček
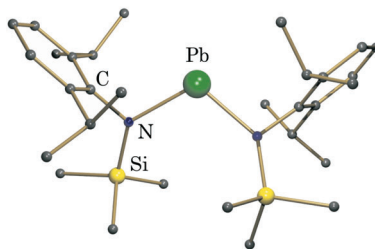
**An Efficient Esterification of Pullulan
Using Carboxylic Acid Anhydrides
Activated with Iodine**

Muhammad A. Hussain, Dure Shahwar,
Muhammad N. Hassan, Muhammad N. Tahir,
Mohammad S. Iqbal and Muhammad Sher