#### **ARKIVOC Volume 2008**

# Part (ix): Commemorative Issue in Honor of Prof. Oleg Kulinkovich on the occasion of his 60th anniversary

Facilitators: Vladimir Tyvorskii and Oleg Epstein Scientific Editor: Mikael Begtrup

#### 1. A Tribute to Prof. Oleg Kulinkovich (OK-1433AT)

Prof. Vladimir Tyvorskii, Prof. Oleg Epstein

Full Text: PDF (137K)

pp. 1 - 5

accepted Apr 11 2007; published Jun 17 2007;

### 2. Coupling of 1-alkyl-2-(bromomethyl)aziridines with heteroatom-centered nucleophiles towards 2-[(heteroatom)methyl]aziridines (OK-2521AP)

Matthias DÂ'hooghe and Norbert De Kimpe

Full Text: PDF (199K)

pp. 6 - 19

Nur = R'Or, R'R"Nr, R'Sr

received May 16 2007; accepted Jul 18 2007; published Aug 3 2007;

#### 3. Synthesis and radical oxidation of steroidal 1-oxo-5α-alcohols (OK-2665AP)

Vladimir A. Khripach, Vladimir N. Zhabinskii, Galya P. Fando, Natalya B. Khripach and Bernd Schneider Full Text: PDF (237K)

pp. 20 - 28

received Jul 20 2007; accepted Oct 30 2007; published Feb 17 2008;

#### 4. A new approach to heterocycle-modified steroids via nitrile oxide intermediates (OK-2843AP)

Alexander V. Baranovsky, Dmitry A Bolibrukh, Vladimir A. Khripach and B. Schneider

Full Text: PDF (455K)

Supplementary Material: PDF (552K)

pp. 29 - 41

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# 5. Synthesis of functionalized benzyl amines by the reductive alkylation of heterocyclic and heteroaromatic amines with arylaldehydes and preparation of the intermediates for new synthetic biomolecules (OK-2848AP)

Janna Ignatovich, Klaudiya Gusak, Vitaliy Kovalyov, Nikolay Kozlov and Elena Koroleva Full Text: PDF (244K)

pp. 42 - 51

 $R_1R_2$  or  $R_4$ = $C_6H_4NO_2$ , H; 6-quinolyl; 3-methyl-4 (3-pyridil)pyrimidinylphenylamine;  $R_4$ = $NO_2$  COOMe,  $NR_1R_2$ =1-Me-piperazine, morpholine

received Oct 30 2007; accepted Jan 21 2008; published Mar 28 2008;

# **6. Liquid crystalline cyclohexene and cyclohexane derivatives and the compositions based upon them** (OK-2859AP)

V.S. Bezborodov, V.I. Lapanik and G.M. Sasnouski

Full Text: PDF (137K)

pp. 52 - 61

**a.** CH<sub>3</sub>COCl; 2AlCl<sub>3</sub>; methylene chloride; **b**. H<sub>2</sub>, 10% Pd/C; **c**. NaBH<sub>4</sub>; **d**.TsOH;  $R = C_3H_7 - C_5H_{11}$ ; R' = F, OCH<sub>3</sub>, Cl,  $C_3H_7$ ;  $R'' = C_3H_7$ ,  $C_5H_{11}$ , CH<sub>2</sub>CH<sub>2</sub>CN; X = H, F.

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### 7. 1,3,4-Oxadiazoles from functionalized N-acylbenzotriazoles and acyl hydrazides (OK-2896AP)

Alan R. Katritzky, Prabhu P. Mohapatra and Longchuan Huang

Full Text: PDF (144K)

pp. 62 - 68

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### 8. Synthesis of new polyconjugated molecules with biphenyl, dibenzothiophene, carbazole and phenanthrene units (OK-2856AP)

Vyacheslav K. Olkhovik, Dmitrii A. Vasilevskii, Andrei A. Pap, Galina V. Kalechyts, Yurii V. Matveienko, Andrei G. Baran, Nikolay A. Halinouski and Vitalii G. Petushok

Full Text: PDF (1,203K)

pp. 69 - 93

MeO
$$\downarrow$$
O HO $\downarrow$ O HO $\downarrow$ O  $\downarrow$ R  $\rightleftharpoons$  HO $\downarrow$ O  $\rightleftharpoons$  R= OH, OAlkyl, NH<sub>2</sub>. X= NH, SO<sub>2</sub>, (Ph)C=C(Ph)

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## 9. 1,3- vs. 1,5-cyclization of azomethine ylides derived from 1-azabuta-1,3-dienes and difluoro- and dichlorocarbenes. Experimental and quantum-chemical study (OK-2938AP)

Alexander F. Khlebnikov, Mikhail S. Novikov, Stanislav A. Dolgikh and Joerg Magull

Full Text: PDF (1,203K)

pp. 94 - 115

$$R^{1}$$

$$R^{2}$$

$$X = F, CI$$

$$R^{1}$$

$$X = F, CI$$

$$R^{1}$$

$$X = R^{1}$$

$$X = R^{1}$$

$$X = R^{2}$$

$$X = R^{3}$$

$$X = R^{2}$$

$$X = R^{2}$$

$$X = R^{3}$$

$$X = R^{3$$

received Dec 13 2007; accepted Feb 28 2008; published Apr 10 2008;

### 10. Synthesis of allyl hydrazine: a comparative study of different methods (OK-2857AP)

Kaija PÃμhako, Kristjan Saal, Ilmar Kink, Aleksei Bredihhin and Uno Mäeorg

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pp. 116 - 125

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### 11. Recyclization of 5-hydroxy-2-pyrazolines in the reaction with N-nucleophiles (OK-2850AP)

N.M. KuzÂ'menok, T.A. KovalÂ'chuk and A.M. Zvonok

Full Text: PDF (287K)

pp. 126 - 132

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# **12.** Enantioselective preparation of (+)- and $(\hat{A}-)$ -Z-2-hydroxyethyl-1-methylcyclopropan-1-ol (OK-2858AP)

Hyung Goo Lee, Ivan L. Lysenko and Jin Kun Cha

Full Text: PDF (154K)

pp. 133 - 139

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# **13.** Regiospecific synthesis of **1-(5-hydroxy-5-trichloromethyl-4,5-dihydroisoxazole-3-methylene)-5-phenyl-1***H***-1,2,3-triazoles (OK-3052AP)**

Marcos A. P. Martins, Daniel J. Emmerich, Adilson P. Sinhorin, Marcelo Rossatto, Clarissa P. Frizzo, Helio G. Bonacorso and Nilo Zanata

Full Text: PDF (186K)

pp. 140 - 148

Ph 
$$R = C(0)CCl_3$$
  $R = C(0)CCl_3$   $R = C(0)C$ 

 $R = C(O)CCI_3$ ,  $C(O)CHCI_2$ ,  $C(OH)_2CF_3$ ,  $CCI_3$ , 3-methylisoxazolo-5-carbonyl Z = NH, O

i: acetonitrile or toluene, 90 -110°C, 36 - 52h

ii: (Z = NH), MeNH<sub>2</sub>, acetonitrile, BF<sub>3</sub>,Et<sub>2</sub>O, reflux 24h ii: (Z = O), MeOH / MeONa, reflux, 24h

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