ARKIVOC Volume 2003

Part (ix): Commemorative Issue in Honor of Prof. Asima Chatterjee on the occasion of her 85th anniversary

Facilitator: P. Majumder Scientific Editor: Ramaiah Muthyala

1. A Tribute to Prof. Asima Chatterjee (AC-475KT)

Shibnath Ghosal

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accepted Jan 27 2003; published Apr 8 2003;

2. Synthesis of 2,3,4,5-tetrahydro-1*H*-pyrrolo[1,2-*a*][1,4]diazepines and 11-methyl-2,3,4,5-tetrahydro-1*H*-[1,4]diazepino[1,2-*a*]indoles (AC-729KP)

Alan R. Katritzky, Ritu Jain, Rena Akhmedova and Yong-Jiang Xu

Full Text: PDF (291K)

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received Feb 18 2003; accepted Jun 4 2003; published Jun 10 2003;

3. A simple and green procedure for the synthesis of N,N'-disubstituted thioureas on the surface of alumina under microwave irradiation (AC-971KP)

Brindaban C. Ranu, Suvendu S. Dey and Santanu Bag

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$$RNH_2 + CS_2 \xrightarrow{AI_2O_3} MW \xrightarrow{RN} C=S$$

received Nov 4 2003; accepted Dec 3 2003; published Dec 19 2003;

4. Ring-closing metathesis (RCM) reaction: Application in the synthesis of cyclopropyl-lactone segment of solandelactones (AC-875KP)

Debendra K. Mohapatra and Gorakhnath S. Yellol

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received Aug 25 2003; accepted Dec 11 2003; published Dec 30 2003;

5. Ceric ammonium nitrate catalyzed mild and efficient α -chlorination of ketones by acetyl chloride

(AC-990KP)

Subhas Chandra Roy, Kalyan Kumar Rana, Chandrani Guin and Biplab Banerjee

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received Nov 25 2003; accepted Jan 15 2004; published Jan 20 2004;

6. Effect of stereochemistry of the B/C ring juncture on the acid-catalyzed reactions of 9α , 11α -epoxyfernane and 9α , 11α -epoxyfernane and 9α , 11α -epoxyfernane acetate with BF₃. Et₂O in benzene (AC-992KP)

Priyalal Majumder and Suman Majumder

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7. Studies in sigmatropic rearrangement: synthesis of 3,11a-dimethyl-6a,11a-dihydro-1*H*,6*H*-pyrano[3',4':5,6]thiopyrano[4,3-*b*][1]benzofuran-1-one (AC-970KP)

K. C. Majumdar, U. K. Kundu, P. P. Mukhopadhyay and S. Ghosh

Full Text: PDF (156K)

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received Nov 3 2003; accepted Jan 20 2004; published Jan 23 2004;

8. Studies on enamides. Part-7: a novel photochemical reaction pathway of *N*-aroyl-*N*-1-cyclohexenylanilines (AC-987KP)

Somnath Ghosh and Susmita Baul

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a: R 1=R 2=R 3=H; b: R 1=R 2=H, R 3=OCH3; c: R 1=H, R 2=R 3=OCH3; d: R 2=R 3=H, R 1=NO2; e: R 2=R 3=H, R 1=C1; f: R 1=R 2=R 3=H; g: R 1=R 2=H, R 3=OCH3

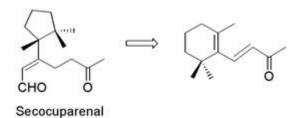
received Nov 18 2003; accepted Feb 20 2004; published Feb 27 2004;

9. The first synthesis of $(\hat{A}\pm)$ -secocuparenal, a sesquiterpene isolated from the liverwort *Jungermannia infusca* (AC-991KP)

A. Srikrishna, L. Shaktikumar and G. Satyanarayana

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received Nov 25 2003; accepted Feb 10 2004; published Feb 28 2004;

10. A synthetic approach to chiral carbocyclic nucleosides of varied ring-sizes using carbon framework of D-glucose (AC-994KP)

Kaushik Singha, Basudeb Achari and Sukhendu B Mandal

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11. Pyrazole-based P,N-ligand for palladium catalyst: applications in Suzuki coupling and amination reactions (AC-1002KP)

Anuradha Mukherjee and Amitabha Sarkar

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$$R^{*} = \frac{[Cat]}{R^{*}R^{*}NH, Base} - X = \frac{[Cat]}{PhB(OH)_{2}, Base} - R$$

$$[Cat] = Pd_{2}(dba)_{3} + \frac{[Cat]}{PhB_{2}} = 1$$

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12. Unusual regioselectivity in nucleophilic addition to η^3 -p-allylpalladium complex in conventional heating and under microwave irradiation (AC-995KP)

Alok Kumar Mitra, Nilay Karchaudhuri, Aparna De, Jayati Mitra and Tanusri Mahapatra

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$$\begin{array}{c} \text{OH} \\ \text{Pd(acac)}_2, \text{PPh}_3 \\ \text{PHeat} / \text{MW} \end{array}$$
 When $R_1 = R_2 = H$, $R = OH$, R

received Nov 27 2003; accepted Feb 29 2004; published Mar 11 2004;

13. Stereocontrolled total synthesis of $(\hat{A}\pm)$ -tochuinyl acetate and facile total synthesis of $(\hat{A}\pm)$ -cuparenoe and $(\hat{A}\pm)$ -cuparene (AC-1050KP)

Tapas Paul, Ashutosh Pal and Debabrata Mukherjee

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received Dec 31 2003; accepted Mar 6 2004; published Mar 11 2004;

14. Bile acid-polyamine conjugates as synthetic ionophores (AC-985KR)

Deepak B. Salunke, Braja G. Hazra and Vandana S. Pore

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A review with 35 references

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15. Analogues of parthenin and their antibacterial activity (AC-953KP)

C. Ramesh, K. Harakishore, U.S.N. Murty and Biswanath Das

Full Text: PDF (167K)

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received Oct 1 2003; accepted Mar 6 2004; published Mar 12 2004;

16. Secondary metabolites of a soft coral (Nephthea sp.) of the Bay of Bengal (AC-1051KP)

Amarendra Patra and Anadi Majumdar

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received Jan 26 2004; accepted Mar 6 2004; published Mar 12 2004;

17. Racemic *trans*-1,2-diaminocyclohexane as a template in the synthesis of ligands for transition metal and actinide *in vivo* detoxification (AC-998KP)

 $Th ilde{A} @ odorine \ Bailly, \ Ramon \ Burgada, \ Marc \ Lecouvey, \ Alain \ Neuman \ and \ Thierry \ Prang ilde{A} @ odorine \ Bailly, \ Ramon \ Burgada, \ Marc \ Lecouvey, \ Alain \ Neuman \ and \ Thierry \ Prang ilde{A} @ odorine \ Bailly, \ Ramon \ Burgada, \ Marc \ Lecouvey, \ Alain \ Neuman \ and \ Thierry \ Prang ilde{A} @ odorine \ Bailly, \ Ramon \ Burgada, \ Marc \ Lecouvey, \ Alain \ Neuman \ and \ Thierry \ Prang ilde{A} @ odorine \ Bailly, \ Ramon \ Burgada, \ Marc \ Lecouvey, \ Alain \ Neuman \ and \ Thierry \ Prang ilde{A} @ odorine \ Bailly, \ Ramon \ Burgada, \ Marc \ Lecouvey, \ Alain \ Neuman \ and \ Thierry \ Prang ilde{A} @ odorine \ Bailly, \ Ramon \ Burgada, \ Marc \ Lecouvey, \ Alain \ Neuman \ and \ Thierry \ Prang ilde{A} @ odorine \ Bailly, \ Ramon \ Bailly, \ Ra$

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received Dec 1 2003; accepted Mar 16 2004; published Mar 19 2004;

18. Synthesis of antileishmanial (5R)-(-)-5-carbomethoxy-3-formyl-5,6-dihydroindolo-[2,3- α]-indolizine (AC-958KP)

Parasuraman Jaisankar, Bikash Pal, Ranjan K. Manna, Prasun K. Pradhan, S. Medda, Mukul K. Basu and Venkatachalam S. Giri

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10 (-)-(5R), R = CO_2Me

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19. Certain applications of heteroatom directed ortho-metalation in sulfur heterocycles (AC-996KR)

Tarun Kanti Pradhan, Sukhen Chandra Ghosh and Asish De

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