

Convenient synthesis and host-guest compounds of 9,9'(10H,10'H)-spirobiacridines

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A one-pot method under mild conditions was developed for the preparation of 9,9'(10H,10'H)-spirobiacridines, and crystal structures of the solvated compounds were determined.



Synthesis and characterization of naphthalimide-containing peptide nucleic acid

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Solid-phase synthesis of quinazolin-4(3H)-ones with three-point diversity

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A versatile method for the solid-phase synthesis of differentially substituted quinazolin-4(3H)-ones has been developed using immobilized arylguanidines. The latter were obtained by treating the amino group of polymer-linked anthranilamide with isothiocyanates followed by coupling with secondary amines in the presence of DIC. Finally a cyclative cleavage strategy was applied to give the desired compounds in high yields and purities.

Tetrahedron Letters 43 (2002) 5579



 Total synthesis of four Pandanus alkaloids:

 Tetrahedron Letters 43 (2002) 5583

 pandamarilactonine-A and -B

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 (S)-prolinol $\leftarrow \begin{pmatrix} \downarrow \\ H \end{pmatrix} \leftarrow \begin{pmatrix} \downarrow \end{pmatrix} \leftarrow \begin{pmatrix} \downarrow \\ H \end{pmatrix} \leftarrow \begin{pmatrix} \downarrow$



Man Jung Han,^{a,*} Kyung Soo Yoo,^a Young Heui Kim^a and Ji Young Chang^b

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 Ileabethin: isolation and structure of a new class of perhydroacenaphthene diterpene from the Caribbean Sea Whip
 Tetrahedron Letters 43 (2002) 5601

 Pseudopterogorgia elisabethae (Bayer)
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 $H_3CI_{H_3}C_{H_3}C_{H_3}C_{H_3}$

On the use of deuterium isotope effects in chemical synthesis

Tetrahedron Letters 43 (2002) 5605

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The decreased kinetic acidity of deuterium relative to hydrogen can be used to gain an advantage in the cyclization of an alkenyllithium species onto a ketone.



Large scale microwave-accelerated esterification of carboxylic acids with dimethyl carbonate

Tetrahedron Letters 43 (2002) 5607

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Esterification of carboxylic acids with dimethyl carbonate (DMC) can be accelerated by using DBU as a catalyst (chemical acceleration) and microwave irradiation as energy (physical acceleration). By combining these two strategies, overall reaction time for esterifications can be reduced from a day to several minutes.



Synthesis of 4-pentenoic and 5-hexenoic acids on polystyrene resin and their use as cleavable linkers	Tetrahedron Letters 43 (2002) 5611
MaoJun Guo* and Laszlo Varady	

ArQule Inc., 19 Presidential Way, Woburn, MA 01801, USA

Direct synthesis of 4-pentenoic and 5-hexenoic acid derivatives on polystyrene resin was achieved and their use as cleavable linkers in solid phase organic synthesis has been demonstrated.











Preparation of alkynylcyclopropanes by the titanocene(II)-promoted reaction of 1,1-bis(phenylthio)-2-alkynes with 1-alkenes

Tetrahedron Letters 43 (2002) 5641

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The desulfurization of 1,1-bis(phenylthio)-2-alkynes 1 with the titanocene(II) species 2 in the presence of 1-alkenes 3 produced 1-alkyn-1-ylcyclopropanes 4 in good yields.



Iridium-catalyzed C-H coupling reaction of heteroaromatic compounds with bis(pinacolato)diboron: regioselective synthesis of heteroarylboronates Jun Takagi,^a Kazuaki Sato,^a John F. Hartwig,^b Tatsuo Ishiyama^{a,*} and Norio Miyaura^{a,*} ^aDivision of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo 060-8628, Japan ^bDepartment of Chemistry, Yale University, P.O. Box 208107, New Haven, CT 06520-8107, USA $\int_{-0}^{0} B - B - C + 2 \sqrt{\chi} = \frac{1/2[IrCl(COD)]_2-dtbpy}{octane/80 °C} = 2 \int_{-0}^{0} B - \sqrt{\chi} = (X = S, O, NH)$









Are quinone methides responsible for yellowing of paper in light?

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Irradiation of quinone methides leads to the formation of yellow oligomeric products, which could be responsible for the yellowing of paper.







Preparation of dibarbiturates of oxindole by condensation of isatin and barbituric acid derivatives

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In the study of reaction media dependence on the isatin barbituric acid condensation reaction a very efficient synthetic procedure for the preparation of useful oxindole-dibarbiturates 1 was developed.



Tetrahedron Letters 43 (2002) 5669

Preparation of optically active (acyloxy)alkyl esters from optically active O-acyl- α -hydroxy acids

Tetrahedron Letters 43 (2002) 5685

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Synthesis and evaluation of six-membered GDP-iminocyclitol

Tetrahedron Letters 43 (2002) 5691

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Fructose-diphosphate aldolase and Pd-mediated reductive amination were employed in the chemoenzymatic synthesis of six-membered GDP-iminocyclitols.

