

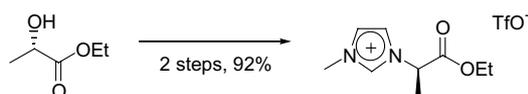
Contents

COMMUNICATIONS

New chiral imidazolium ionic liquids: 3D-network of hydrogen bonding

pp 4429–4431

Jonathan J. Jodry and Koichi Mikami*

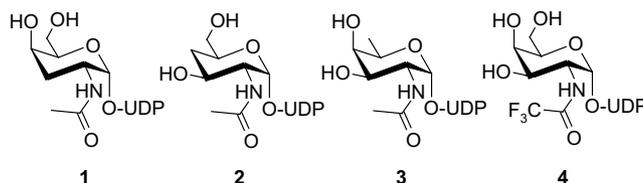


New hydrophobic chiral ionic liquids bearing an imidazolium core have been stereospecifically prepared from the chiral pool.

Synthesis of UDP-GalNAc analogues as probes for the study of polypeptide- α -GalNAc-transferases. Part 2

pp 4433–4436

Patricia Busca and Olivier R. Martin*

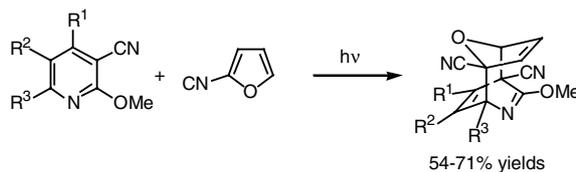


The synthesis of the four UDP-GalNAc analogues 1–4 is described. These compounds were designed to probe the substrate specificity of polypeptide- α -GalNAc-transferases.

A novel photochemical cycloaddition of 2-alkoxy-3-cyanopyridines to 2-cyanofuran

pp 4437–4440

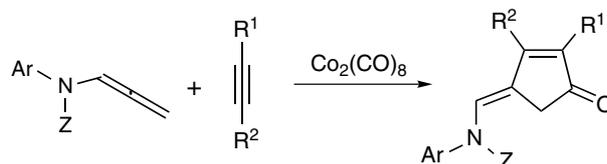
Masami Sakamoto,* Tadao Yagi, Shuichiro Kobaru, Takashi Mino and Tsutomu Fujita



New regio and stereoselective intermolecular Pauson–Khand reactions of allenamides

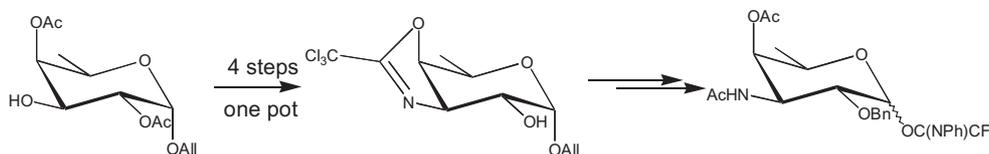
pp 4441–4444

Loreto Añorbe, Amalia Poblador, Gema Domínguez and Javier Pérez-Castells*

**First preparative synthesis of a 3-acetamido-3,6-dideoxy-D-galactopyranose glycosyl donor via intramolecular cyclization of an epoxytrichloroacetimidate**

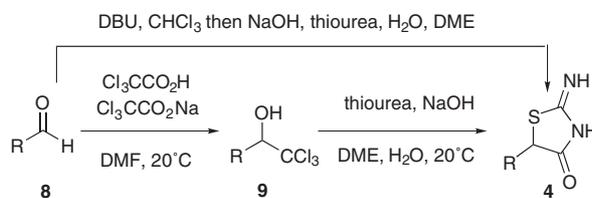
pp 4445–4448

Emiliano Bedini,* Alfonso Iadonisi, Antonella Carabellese and Michelangelo Parrilli*

**Reeve's synthesis of 2-imino-4-thiazolidinone from alkyl (aryl) trichloromethylcarbinol revisited, a three-component process from aldehyde, chloroform and thiourea**

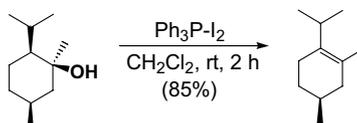
pp 4449–4452

Jérôme Blanchet and Jieping Zhu*

**Triphenylphosphine–iodine: an efficient reagent for the regioselective dehydration of tertiary alcohols**

pp 4453–4455

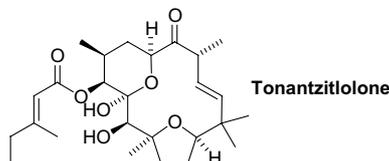
E. J. Alvarez-Manzaneda,* R. Chahboun, E. Cabrera Torres, E. Alvarez, R. Alvarez-Manzaneda, A. Haidour and J. Ramos



Tertiary alcohols react under mild conditions with triphenylphosphine and iodine to give the most stable alkene in good yields (82–90%).

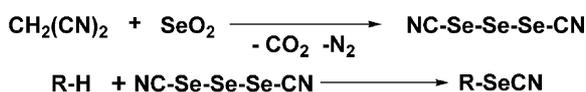
Towards the total synthesis of tonantzitlolone—preparation of key fragments and the complete carbon backbone pp 4457–4460

Rüdiger Wittenberg, Christian Beier, Gerald Dräger, Gerhard Jas, Christian Jasper, Holger Monenschein and Andreas Kirschning*



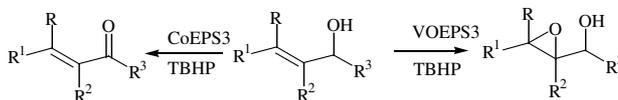
Triselenium dicyanide from malononitrile and selenium dioxide. One-pot synthesis of selenocyanates pp 4461–4463

Andrey V. Kachanov,* Oleg Yu. Slabko, Olga V. Baranova, Evgenia V. Shilova and Vladimir A. Kaminskii



Selective oxidations of allylic alcohols using vanadyl and cobalt(II) alkyl phosphonate modified silicas pp 4465–4468

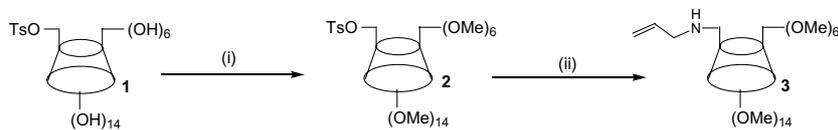
Magdalena Jurado-Gonzalez, Alice C. Sullivan* and John R. H. Wilson



A range of allylic alcohols can be selectively oxidised to either the corresponding epoxide or enone in good yields using catalytic quantities of vanadyl or cobalt(II) alkyl phosphonate modified silicas (VOEPS3 or CoEPS3) and *tert*-butyl hydroperoxide (TBHP).

Convenient synthesis of mono(6^A-*N*-allylamino-6^A-deoxy)permethylated β-cyclodextrin: a promising chiral selector for an HPLC chiral stationary phase pp 4469–4472

Xiang-Hua Lai and Siu-Choon Ng*

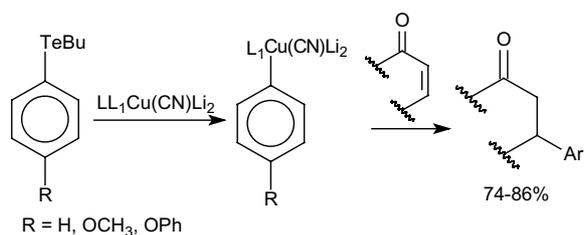


A convenient synthesis of mono(6^A-*N*-allylamino-6^A-deoxy)permethylated β-cyclodextrin is presented. Hydrosilylation of the chiral selector with (EtO)₃SiH and reaction of the resultant reactive siloxane with pristine silica gel afforded a facile entry into a structurally well-defined chiral stationary phase applicable for enantioseparation by HPLC.

Dilithium aryl cyanocuprates from butyl aryl tellurides

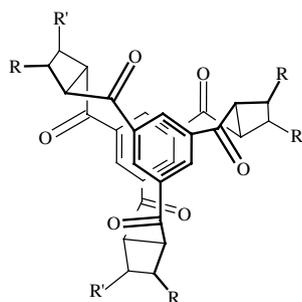
pp 4473–4475

Priscila Castelani, Silas Luque and João V. Comasseto*

**Photochemical formation of [4.4.4](1,3,5)cyclophanes from 1,3,5-tris(3-phenylpropenoyl)benzenes**

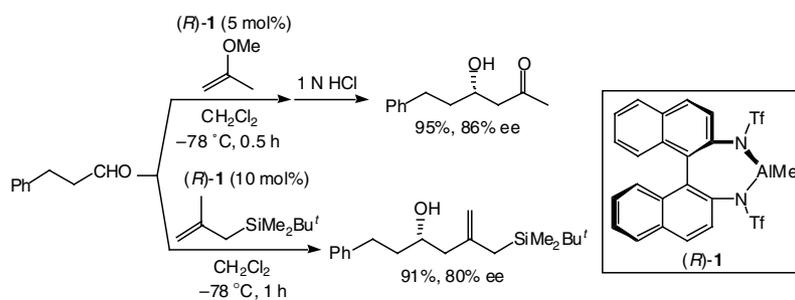
pp 4477–4480

Herbert Meier* and Elena Karpouk

**Efficient asymmetric catalysis of chiral organoaluminum complex for enantioselective ene reactions of aldehydes**

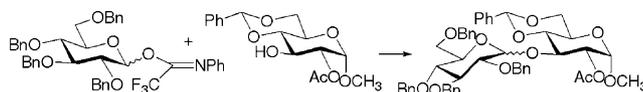
pp 4481–4484

Takashi Ooi, Kohsuke Ohmatsu, Daisuke Uraguchi and Keiji Maruoka*

**Effect of dimethoxyethane in Yb(OTf)₃-promoted glycosidations**

pp 4485–4488

Matteo Adinolfi, Alfonso Iadonisi,* Alessandra Ravidà and Marialuisa Schiattarella



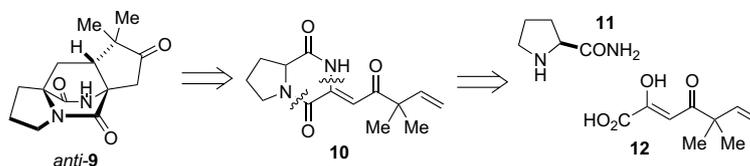
With dioxane/DME/toluene 4:1:1 and Yb(OTf)₃ (0.1 eq), yield 70%, α:β 8.2.
 With DME and TMSOTf (0.05 eq), yield 83%, α:β 6.5.

With dioxane/DME/toluene 4:1:1 and TMSOTf (0.05 eq), yield 84%, α:β 7.3.

Concise synthesis of the core bicyclo[2.2.2]diazaoctane ring common to asperparaline, paraherquamide, and stephacidin alkaloids

pp 4489–4493

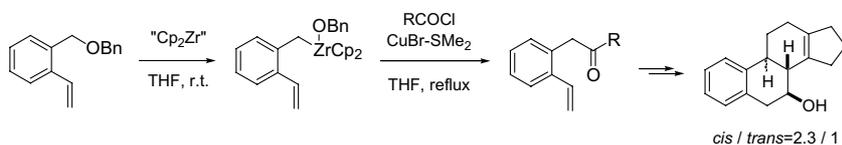
Luke A. Adams, Chandele R. Gray and Robert M. Williams*



Copper-catalyzed acylations of *o*-vinylbenzylzirconocene intermediate and synthetic application toward steroid skeleton

pp 4495–4498

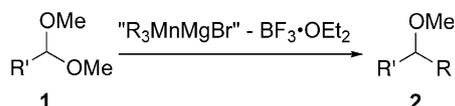
Yutaka Ikeuchi, Takeo Taguchi and Yuji Hanzawa*



Alkylation of acetals using manganate–BF₃·OEt₂ mixed reagent

pp 4499–4501

Makoto Hojo, Nobuo Ushioda and Akira Hosomi*

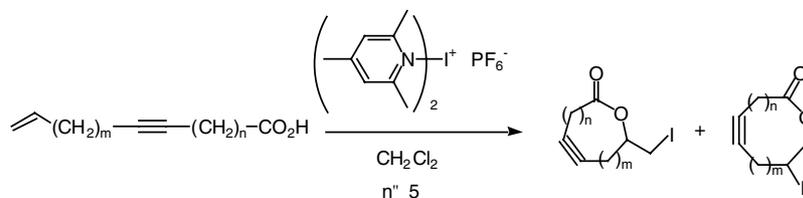


A mixture of 'R₃MnMgBr' and BF₃·OEt₂ in ether converted acetals and ketals to alkylation products.

Preparation of large ring acetylenic lactones by iodo lactonisation

pp 4503–4505

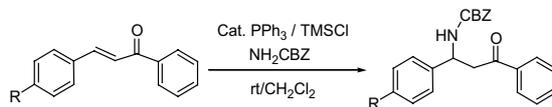
G rard Rousseau,* Tekla Strzalko and Marie-Claude Roux



Highly efficient phosphine-catalyzed aza-Michael reactions of α,β -unsaturated compounds with carbamates in the presence of TMSCl

pp 4507–4510

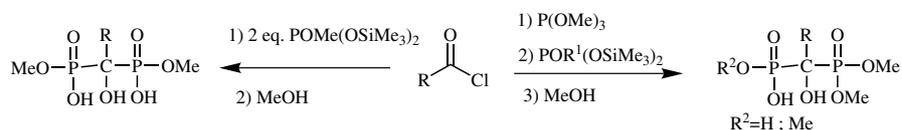
Li-Wen Xu and Chun-Gu Xia*



One-pot synthesis of 1-hydroxymethylene-1,1-bisphosphonate partial esters

pp 4511–4513

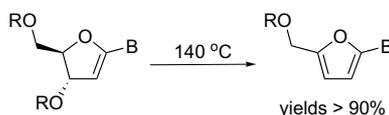
Evelyne Migianu, Isabelle Mallard, Nadia Bouchemal and Marc Lecouvey*



Furanyl nucleosides: synthesis and kinetics of their formation

pp 4515–4517

Chryssostomos Chatgililoglu,* Despoina Vrantza and Thanasis Gimisis*

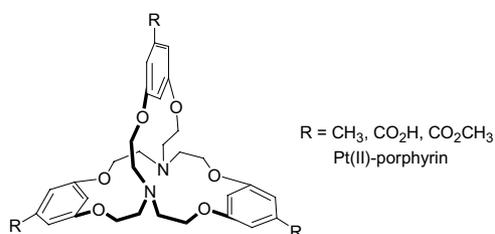


The thermal reaction of several 1',2'-dideoxy-2-deoxynucleosides affording the corresponding furanyl nucleosides is discussed in terms of reaction kinetics and mechanism.

One-pot synthesis of new functionalized azacryptands from resorcinol derivatives for advanced photonic materials

pp 4519–4523

Jae-Won Ka and Hwan Kyu Kim*



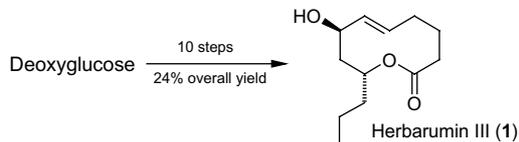
Functionalized azacryptands containing resorcinol derivatives were synthesized by one-pot synthesis in the presence of potassium carbonate under high dilute reaction conditions.



First total synthesis of herbarumin III

pp 4525–4526

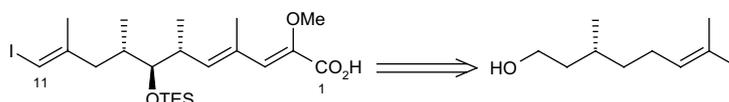
Mukund K. Gurjar, Sukhen Karmakar and Debendra K. Mohapatra*



Synthetic studies on bafilomycin A₁: stereoselective synthesis of the enantiopure C₁–C₁₁ fragment

pp 4527–4531

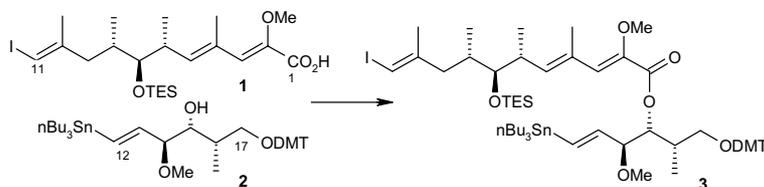
Emmanuelle Quéron and Robert Lett*



Synthetic studies on bafilomycin A₁: stereoselective synthesis of the C₁₂–C₁₇ fragment and its coupling with the C₁–C₁₁ subunit

pp 4533–4537

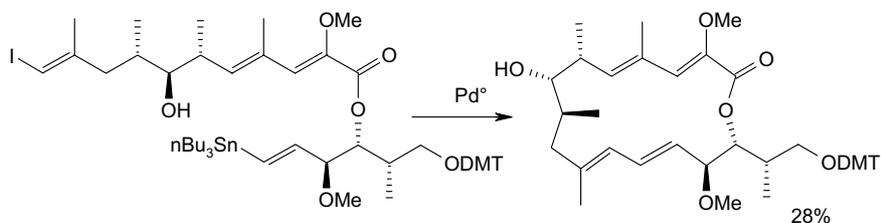
Emmanuelle Quéron and Robert Lett*



Synthetic studies on bafilomycin A₁: first formation of the 16-membered macrolide via an intramolecular Stille reaction

pp 4539–4543

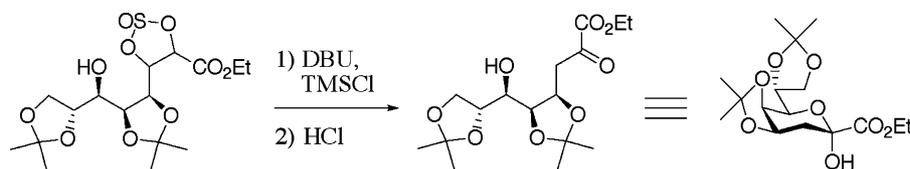
Emmanuelle Quéron and Robert Lett*



Concise synthesis of 3-deoxy-D-manno-oct-2-ulosonic acid (KDO) as a protected form based on a new transformation of α,β -unsaturated ester to α -oxocarboxylic acid ester via diol cyclic sulfite

pp 4545–4548

Atsuhito Kuboki,* Toshihiro Tajimi, Yoshihide Tokuda, Dai-ichiro Kato, Takeshi Sugai and Susumu Ohira*

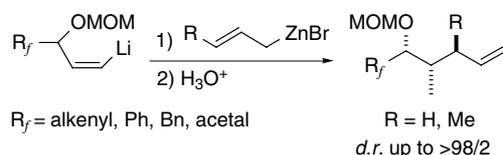


A protected form of KDO was synthesized from 2,3:5,6-di-O-isopropylidene- α -D-mannofuranose in five steps (65%).

Diastereoselective allylzincation of γ -oxygenated vinylolithiums bearing functionalized side-chains

pp 4549–4552

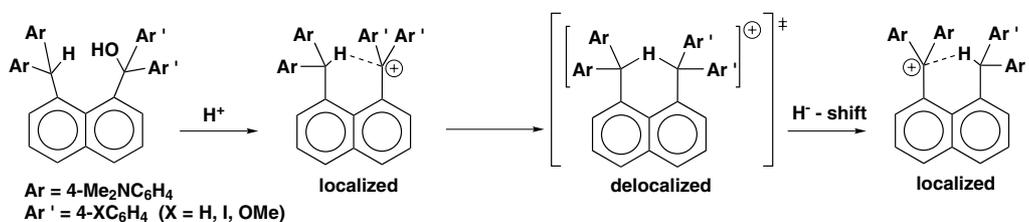
Sandrine Cheramy, Franck Ferreira* and Jean F. Normant



***peri*-Interaction between diarylmethyl and diarylmethylium units in 1,8-disubstituted naphthalenes: preference of localized structure for the C–H bridged carbocation**

pp 4553–4558

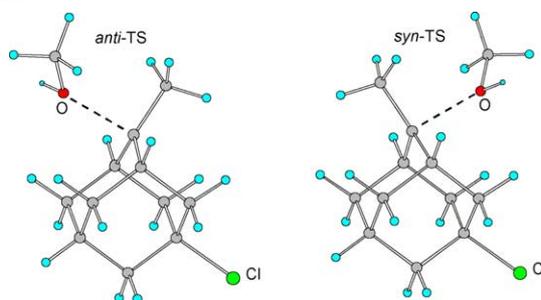
Hidetoshi Kawai, Takayuki Nagasu, Takashi Takeda, Kenshu Fujiwara, Takashi Tsuji, Masakazu Ohkita, Jun-ichi Nishida and Takanori Suzuki*



Origin of facial diastereoselection in 2-adamantyl cations. Theoretical evidence against the Felkin–Anh and the Cieplak models

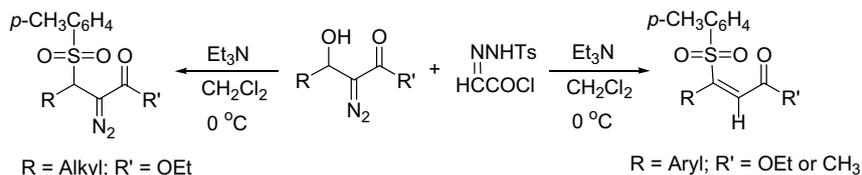
pp 4559–4562

Daisuke Kaneno and Shuji Tomoda*



Unusual reaction of β -hydroxy α -diazo carbonyl compounds with TsNHN=CHCOCl/Et₃N
 Weifeng Shi, Bo Zhang, Binge Liu, Feng Xu, Fengping Xiao, Jian Zhang, Shiwei Zhang
 and Jianbo Wang*

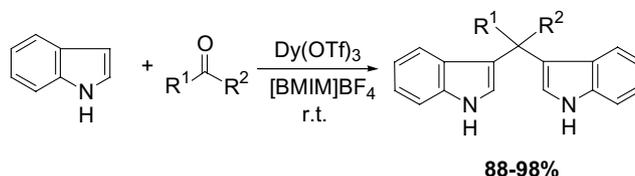
pp 4563–4566



Dy(OTf)₃ in ionic liquid: an efficient catalytic system for reactions of indole with aldehydes/ketones or imines

pp 4567–4570

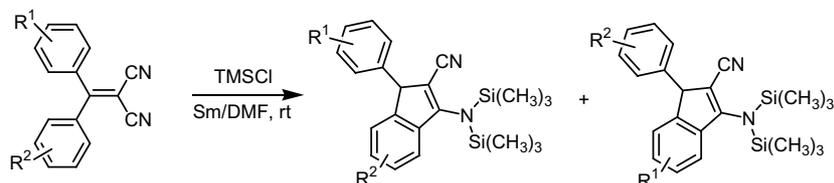
Xueling Mi, Sanzhong Luo, Jiaqi He and Jin-Pei Cheng*



Intramolecular cyclization and disilylation of 1,1-dicyano-2,2-diarylethenes promoted by samarium/TMSCl in DMF: a new approach to the syntheses of polysubstituted indenenes

pp 4571–4575

Yongjun Liu, Qinliang Zhao and Yongmin Zhang*

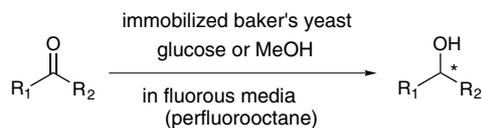


Promoted by samarium metal in DMF and in the presence of TMSCl, 1,1-diaryl-2,2-dicyanoethylenes undergo an unexpected kind of reductive cyclization, thus affording a new approach to the construction of indene core. Simultaneously, disilylation occurred at the amino moiety resulting from the reduction of the cyano group.

Immobilized baker's yeast reduction in fluorous media

pp 4577–4579

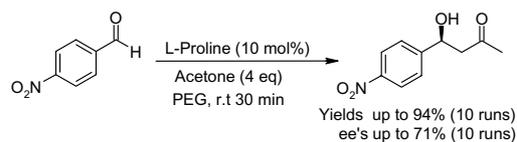
Arata Yajima, Kazumi Naka and Goro Yabuta*



Asymmetric aldol reactions in poly(ethylene glycol) catalyzed by L-proline

pp 4581–4582

S. Chandrasekhar,* Ch. Narsihmulu, N. Ramakrishna Reddy and S. Shameem Sultana

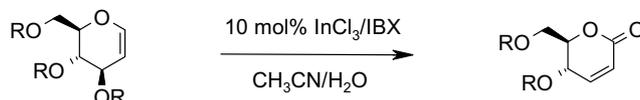


A rapid L-proline catalyzed direct aldol reaction between various aldehydes and acetone was achieved using PEG as the solvent with comparable enantioselectivities and yields to those obtained in other solvents. Recycling the catalyst and solvent (PEG) was possible 10 times without loss of activity.

InCl₃/IBX: a novel reagent system for the conversion of glycols into α,β -unsaturated δ -lactones

pp 4583–4585

J. S. Yadav,* B. V. Subba Reddy and Ch. Suresh Reddy



OTHER CONTENTS**Corrigendum****Contributors to this issue****Instructions to contributors**

p 4587

p I

pp III–VI

*Corresponding author

①⁺ Supplementary data available via ScienceDirect

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**CONTENTS
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