

Organic & Biomolecular Chemistry

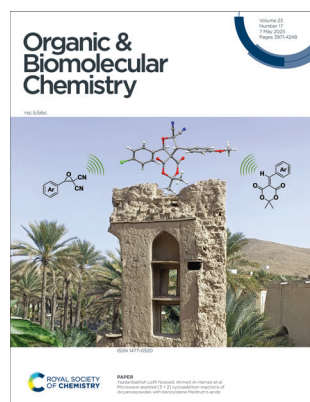
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Yazdanbakhsh Lotfi Nosood, Ahmed Al-Harrasi *et al.*, pp. 4084–4089.

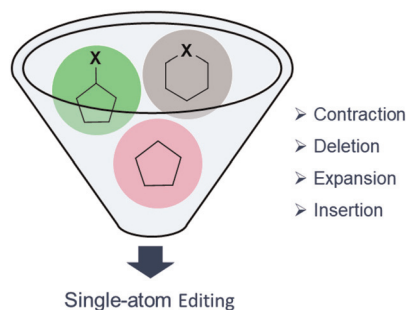
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REVIEWS

3982

Single-atom molecular editing: transformative advances in carbocyclic and heterocyclic frameworks

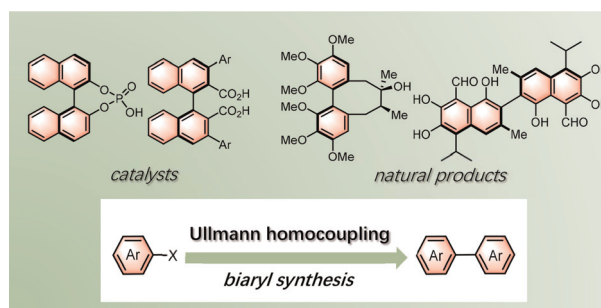
Parvin Moghimi, Hossein Sabet-Sarvestani, Vahid Moghimi, Nazanin Norozi-Shad* and Michal Szostak*



4006

Recent advancements in the Ullmann homocoupling reaction for the synthesis of biaryl compounds

Saima Perveen,* Guoxiang Zhang and Pengfei Li*



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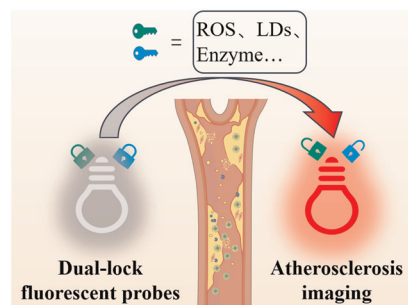
**Fundamental questions
Elemental answers**

REVIEWS

4024

Recent advancements in dual-locked optical probe for precise imaging of atherosclerosis

Yulong Li, Mengyao Luo, Changqing Ye* and Hongli Bao*

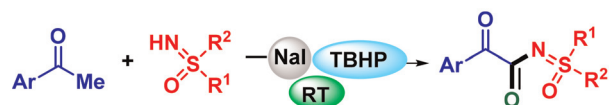


COMMUNICATIONS

4036

NaI-mediated α -keto-acylation of *NH*-sulfoximines with aryl methyl ketones

Parbin Rahman, Nikita Chakraborty, Bhisma K. Patel* and Kamal K. Rajbongshi*

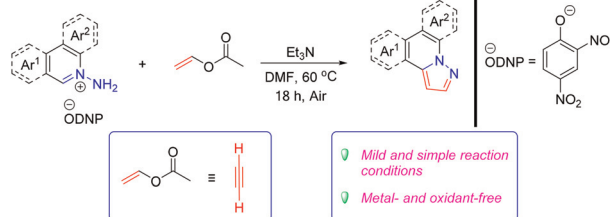


- metal- and base-free strategy
- C=O, C–N bond formation
- 29 examples, upto 90% yield
- one-pot, mild reaction conditions

4041

Transition metal- and oxidant-free [3 + 2] cycloaddition of *N*-amino(iso)quinolinium salts with vinyl acetate as an acetylene surrogate

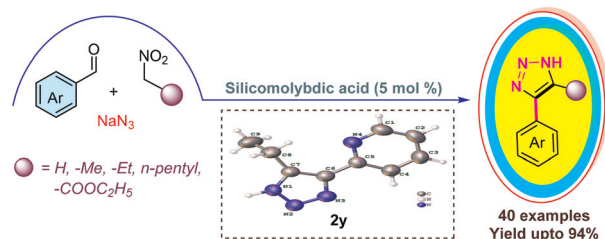
Hui Wu, Wenfeng Zhao, Nan Jiang, Mao Liu, Qingmei Ge* and Hang Cong



4045

Biocompatible silicomolybdic acid-promoted one-pot expeditious synthesis of 1,2,3-*NH*-triazoles

Danish Ansari, Manoj K. Jaiswal, Mangal S. Yadav, Vinay K. Pandey, Mayank Singh and Vinod K. Tiwari*

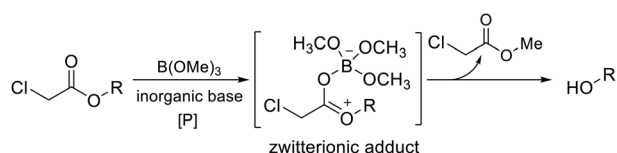


- mild reaction conditions
- low catalytic loading
- biocompatible catalyst
- easy work-up
- high-to-excellent yield
- scale-up
- crystal support



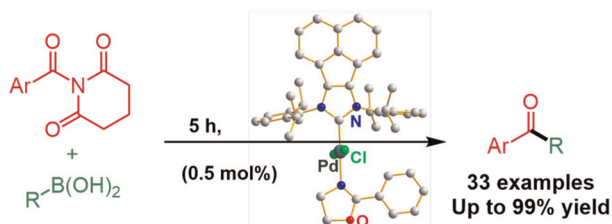
COMMUNICATIONS

4058

**Enhanced ester dechloroacetylation through transesterification with trimethoxyborane**

Sheng Zhang,* Xiangrong Wang, Renhua Li, Zhangrong Lou,* Haoyun Zhan and Masahiko Yamaguchi

4063

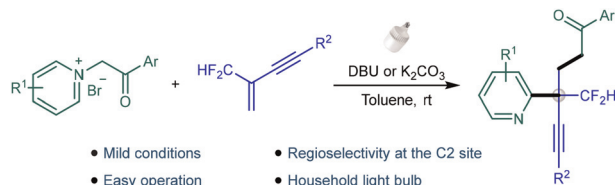


- ◆ Shorter Time
- ◆ Lower Cat. Loading
- ◆ Extensive Functional Group Tolerance

A novel acenaphthoimidazolydene oxazolinic palladium complex and its efficient catalysis in Suzuki–Miyaura cross-coupling reactions of N-acyl-glutarimides via N–C cleavage

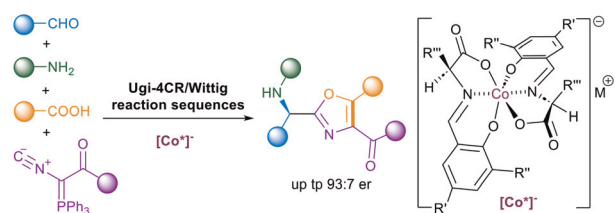
Qinyue Deng,* Tenglong Lin, Xiaohu Liu, Han Shao, Xiaojun Lv, Xiaoting Wu, Fei Xiong* and Wanfang Li*

4069

**Visible-light-induced difunctionalization of β-CF₂H-1,3-enynes to access CF₂H-containing all-carbon quaternary centers**

Shu-Jie Chen, Jin-Hao Lin, Jia-Ming Wu, You-Hong Li, Bao-Le Dong, Guo-Shu Chen and Yun-Lin Liu*

4074

**Enantioselective construction of functionalized oxazoles via anionic stereogenic-at-cobalt(III) complex-catalyzed Ugi-4CR/Wittig reaction sequences**

Qi-Ming Wang, Chang-Min Peng, Yong-En Sun, Chuan-Zhi Yao, Hua-Jie Jiang* and Jie Yu*

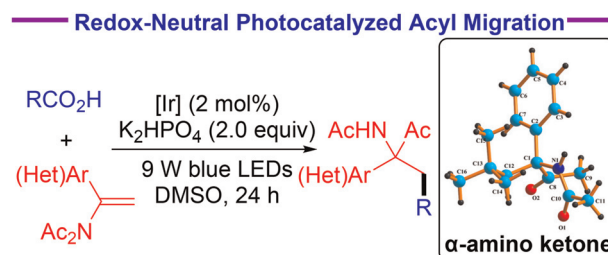


COMMUNICATIONS

4079

Redox-neutral-photocatalyzed decarboxylative radical addition/acyl migration cascade process: modular access to functionalized α -(hetero)aryl- α -aminoketones

Haibo Huang, Yu Zhao, Li Zhang,* Yan Li* and Yewen Fang*

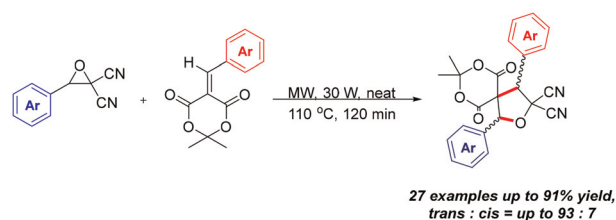


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4084

Microwave-assisted [3 + 2] cycloaddition reactions of dicyanoepoxides with benzylidene Meldrum's acids

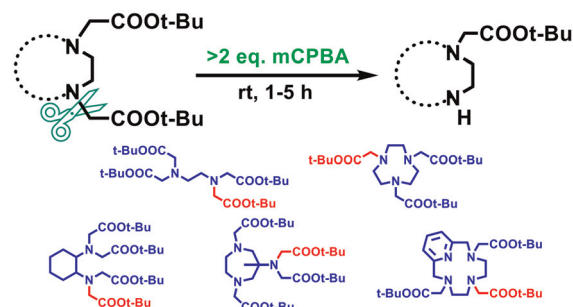
Yazdanbakhsh Lotfi Nosood,* Negin Fattahi Ghahnavieh, Ahmad Takallou, Ali Rostami, Amirhossein Ebrahimi, Muhammad U. Anwar and Ahmed Al-Harrasi*



4090

Investigations into the *N*-dealkylation reaction of protected chelating agents

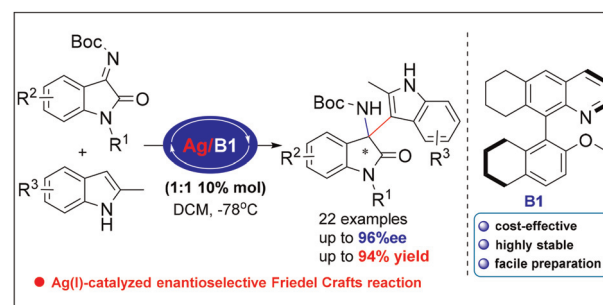
Jonathan Martinelli, Enrico Martorana, Angelo Marcotrigiano and Lorenzo Tei*



4100

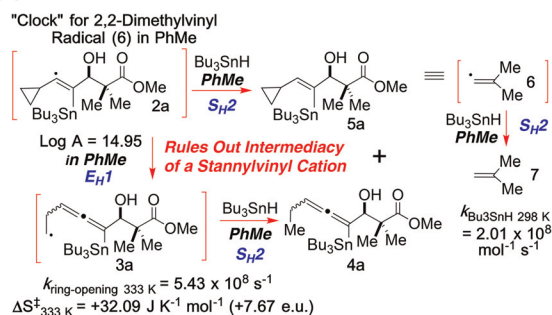
New axially chiral biaryl quinoline ligands specifically partnered with AgOTf enabled an enantioselective aza-Friedel–Crafts reaction

Su-Fan Gao, Xiao Fu, Qian-Mao Zhang, Ren-Zhi Tang, Wen-Juan Wan and Li-Xin Wang*



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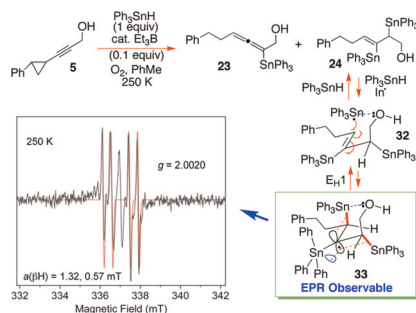
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Rate constants and Arrhenius parameters for H-atom abstraction from Bu_3SnH by the 2,2-dimethylvinyl radical in PhMe. Kinetic evidence for an entirely free radical mechanism for the O-directed hydrostannation of alkynols with stannanes and $\text{Et}_3\text{B}/\text{O}_2$

Hamish A. Watson, K. Lawrence E. Hale, John M. Marron, Soraya Manaviazar, Alistair J. Fielding* and Karl J. Hale*

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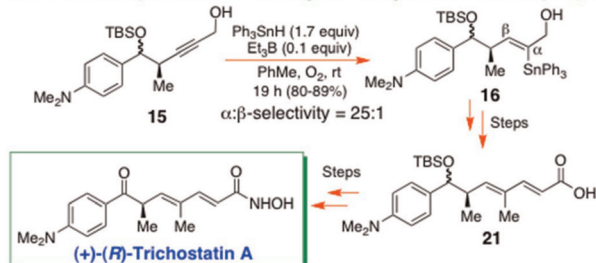


On the divergent reactivity of allenylstannanes generated from the O-directed free radical hydrostannation reaction of (+)-*trans*-3-(2-phenylcyclopropyl)prop-2-yn-1-ol. EPR evidence for the reversible addition of Ph_3Sn radicals to vinyl triphenyltins

K. Lawrence E. Hale, Alistair J. Fielding* and Karl J. Hale*

4131

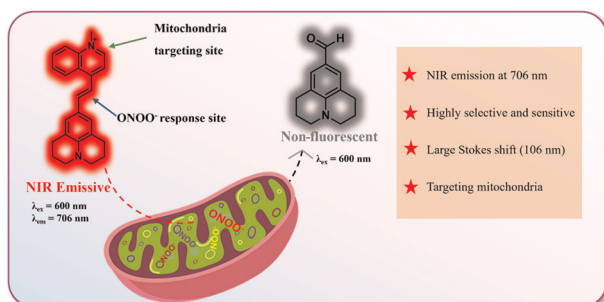
First O-Directed Hydrostannation with $\text{Ph}_3\text{SnH}/\text{cat. Et}_3\text{B}$ in an N-Containing Alkyne



Total synthesis of the HDAC inhibitor (+)-(*R*)-trichostatin A via O-directed dialkylacetylene free radical hydrostannation with $\text{Ph}_3\text{SnH}/\text{Et}_3\text{B}$. The unusual inhibitory effect of a proximal α -OPv group on the course of a vinyl iodide Stille cross-coupling

Ke Pan, Soraya Manaviazar and Karl J. Hale*

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A near-infrared julolidine probe for visualization of mitochondrial peroxynitrite in living cells

Kuppan Magesh, Shu Pao Wu and Sivan Velmathi*

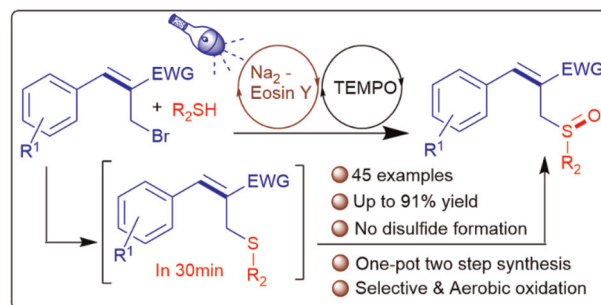


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One-pot chemoselective aerobic synthesis of allyl–aryl sulfonylethers by photoinduced $\text{Na}_2\text{S}_2\text{O}_8$ – eosin Y

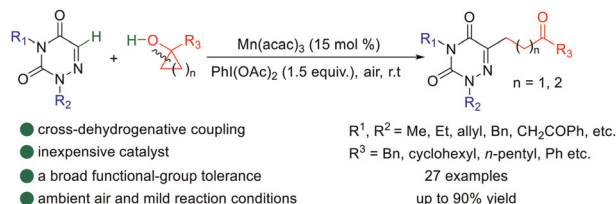
Trinadh Ballanki, Aishwarya Subramanian and Baby Viswambharan*



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Mn-catalyzed oxo-alkylation of 1,2,4-triazine-3,5 (2*H*,4*H*)-diones with cyclic alkanols *via* oxidative cross-dehydrogenative coupling

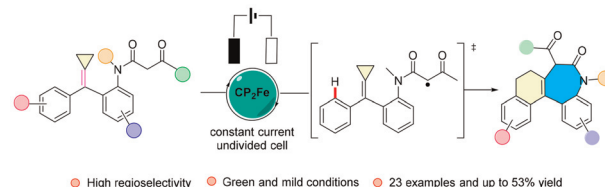
Qianqian Liang, Shuomeng Bai, Yushi Tan, Hong-Yu Zhang,* Yuecheng Zhang* and Jiquan Zhao



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Electrochemically promoted tandem cyclization of functionalized methylenecyclopropanes: synthesis of tetracyclic benzazepine derivatives

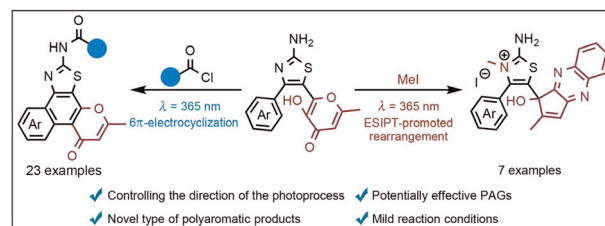
Min Li, Yin Wei* and Min Shi*



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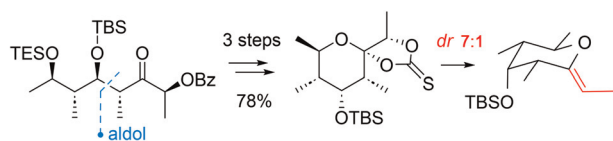
Investigation of the photochemical behavior of allomaltol-containing 2-aminothiazole derivatives

Alexander V. Migulin, Constantine V. Milyutin, Boris V. Lichitsky, Stepan M. Korobkov and Andrey N. Komogortsev*



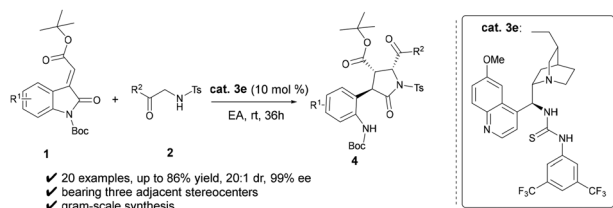
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**Stereoselective synthesis of the pyran subunit of portentol**

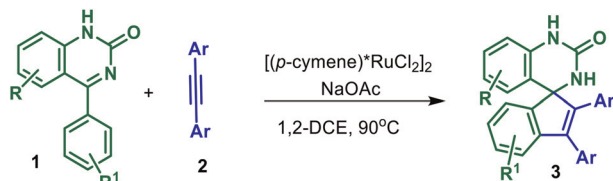
Tan Hoang Luu, Florian Heppner, Johal Ruiz and Dirk Menche*

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**Organocatalytic cyclization-rearrangement cascade reaction: asymmetric construction of γ -lactams**

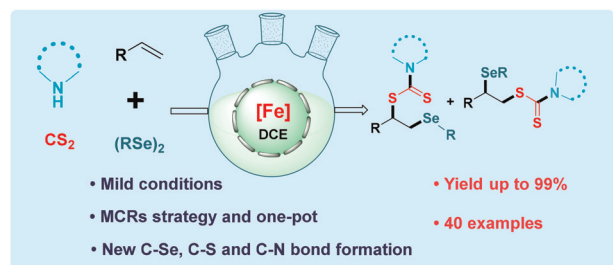
Sheng-Feng Wu, Zhi-Yuan Wang and Xing-Wen Sun*

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**Ru(II)-catalyzed oxidative C–H spiroannulation of 4-arylquinazolin-2-ones with alkynes**

Chidrawar Ajay, B. Sridhar and B. V. Subba Reddy*

4212

**Fe³⁺-mediated selective 1,2-Se (S) bifunctionalization of olefin**

Hong Yang, Gao-wen Ren, Zhang-gao Le and Zong-bo Xie*

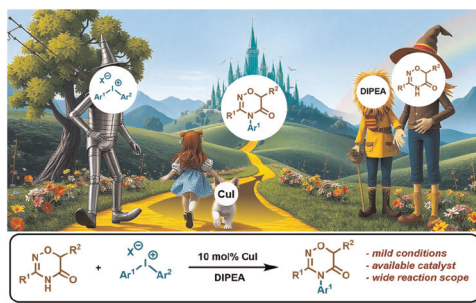


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Copper-catalyzed *N*-arylation of 1,2,4-oxadiazin-5(6*H*)-ones by diaryliodonium salts

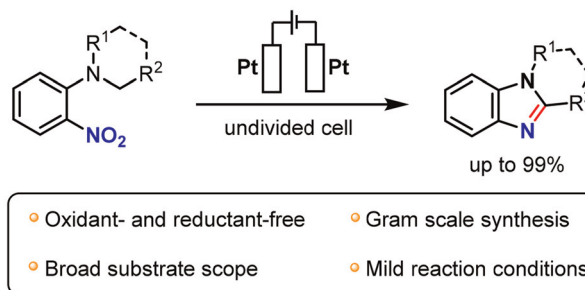
Sofia I. Presnukhina, Svetlana O. Baykova,
 Elizaveta A. Chukanova, Nadezhda M. Metalnikova,
 Sergey V. Baykov, Natalia S. Soldatova,
 Pavel S. Postnikov and Vadim P. Boyarskiy*



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Electrochemically driven reductive cyclization of *o*-nitroanilines: synthesis of 1,2-fused benzimidazoles and benzo[*d*]imidazoles

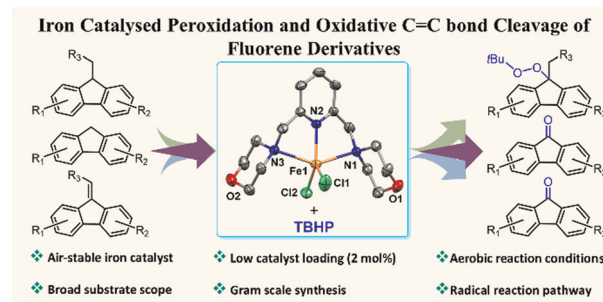
Jutamart Saetan, Nitchakan Purahong,
 Kannika La-ongthong, Nattawoot Hassa,
 Nawasit Chotsaeng, Chutima Kuhakarn and
 Jatuporn Meesin*



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Iron-catalyzed peroxidation of fluorenes and 9-alkyl-9*H*-fluorenes and oxidative cleavage of the C=C bond in 9-alkylidene-fluorenes

Ratnakar Saha, Bhairab Chand Hembram,
 Asutosh Panda and Bidraha Bagh*



4240

Photoswitchable agonists for visible-light activation of the Wnt signaling pathway

Shifa Ahmad, P. K. Hashim, Masamichi Imajo,
 Nusaiba Madappuram Cheruthu, Kiyonori Takahashi,
 Shinya Tanaka, Takayoshi Nakamura and
 Nobuyuki Tamaoki*

