

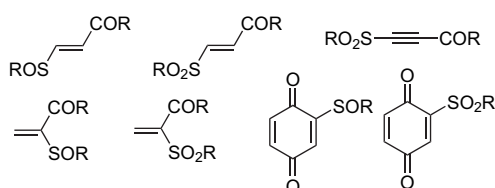
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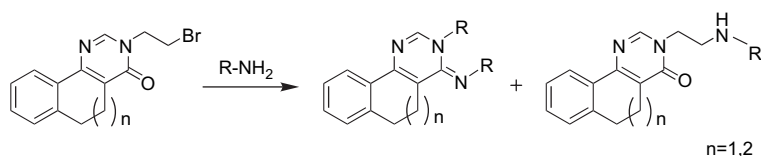


ARTICLES

Polycyclic *N*-heterocyclic compounds. Part 58: Rearrangement reactions of fused 3-(2-bromoethyl)pyrimidin-4(3*H*)-ones with primary amines and antidepressive evaluation of the products

Hiroimi Ohtomo, Tsuyoshi Tagata, Kenji Sasaki, Takashi Hirota\* and Kensuke Okuda\*

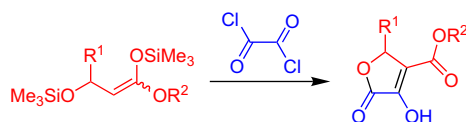
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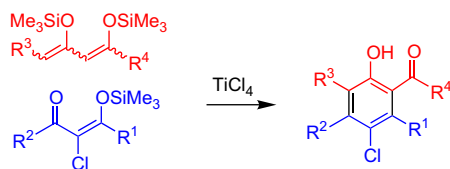
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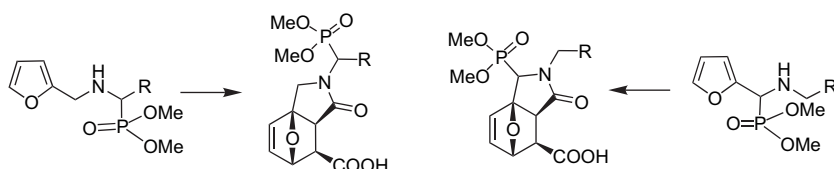
**Regioselective synthesis of 4-chlorophenols, 10-chloro-7-hydroxy-6*H*-benzo[*c*]chromen-6-ones, and 4-chloro-1-hydroxy-9*H*-fluoren-9-ones based on [3+3] cyclizations of 1,3-bis(silyloxy)-1,3-dienes with 2-chloro-3-silyloxy-2-en-1-ones** pp 12562–12575

Mirza Arfan Yawer, Ibrar Hussain, Stefanie Reim, Zafar Ahmed, Ehsan Ullah, Inam Iqbal, Christine Fischer, Helmut Reinke, Helmar Görls and Peter Langer\*



**$\alpha$ -Acylaminophosphonates possessing epoxyisindolone moiety** pp 12576–12582

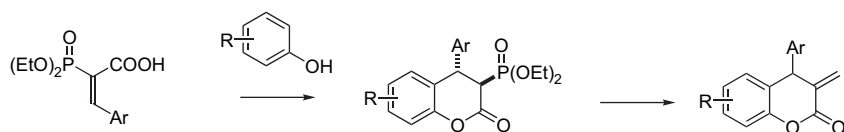
Georgiy O. Kachkovskiy and Oleg I. Kolodiazhnyi\*



$\alpha$ -Acylaminophosphonates **6** possessing an epoxyisindolone moiety were prepared with a good stereoselectivity ( $d_e \geq 80\%$ ) by a tandem acylation/[4+2]-cycloaddition reaction between maleic anhydride and  $\alpha$ -aminophosphonates derived from a furfurylamine.

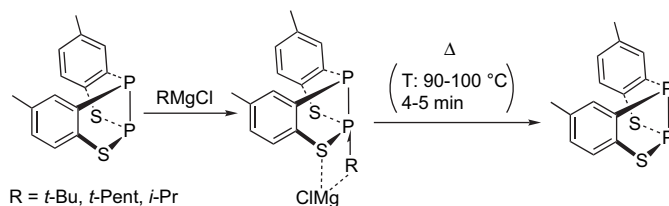
**Trifluoromethanesulfonic acid mediated Friedel–Crafts reaction of (*E*)-3-aryl-2-(diethoxyphosphoryl)acrylic acids with electron-rich hydroxyarenes. A convenient approach to  $\alpha$ -methylene- $\delta$ -valerolactones** pp 12583–12594

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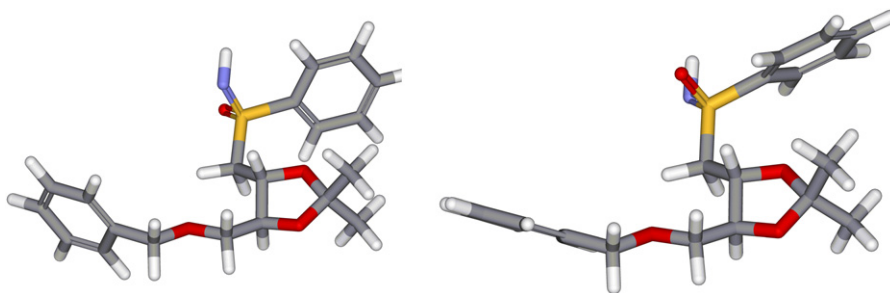
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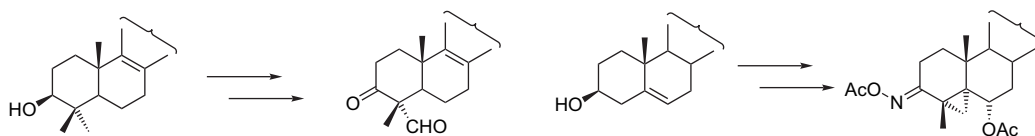
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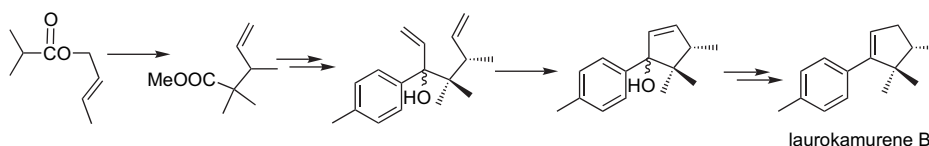
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Susana S. Ramos, Paulo Almeida, Lina Santos, William B. Motherwell, Tom D. Sheppard\* and Maria do Céu Costa

**The first total synthesis of ( $\pm$ )-laurokamurene B**

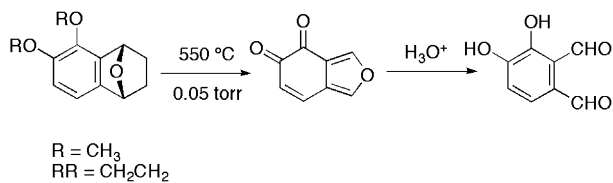
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A. Srikrishna,\* I. A. Khan, R. Ramesh Babu and A. Sajjanshetty

**Preparation of isobenzofurandiones by flash vacuum pyrolysis involving retro-Diels–Alder expulsion of ethylene and concomitant C–O cleavage of methoxy or ethylenedioxy groups**

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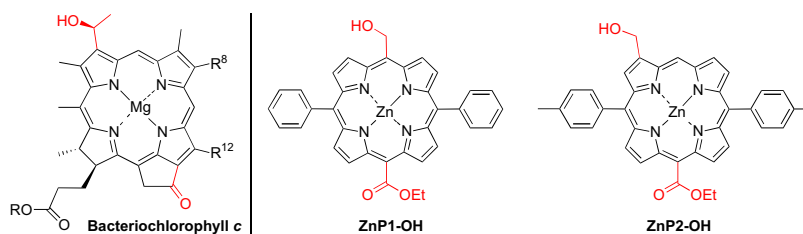
Riskiono Slamet and Dieter Wege\*



**Synthesis and structural properties of porphyrin analogues of bacteriochlorophyll *c***

pp 12629–12638

Marcin Ptaszek, Zhen Yao, Dhanalekshmi Savithri, Paul D. Boyle and Jonathan S. Lindsey\*

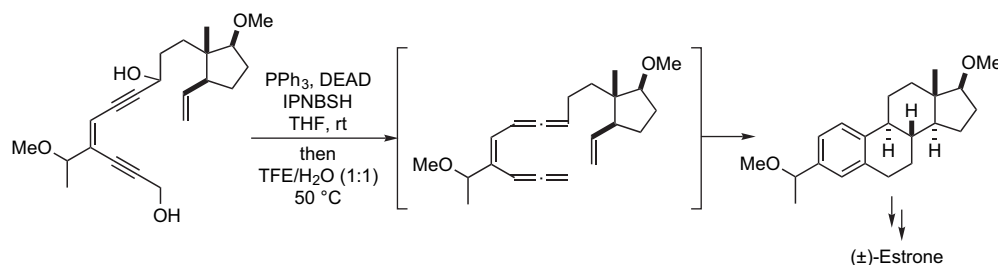


A porphyrin (**ZnP2-OH**) has been prepared and found in the crystalline state to exhibit infinite coordination polymers that are distinct from those of the analogue **ZnP1-OH**.

**Sequential pericyclic reaction of ene-diallene: synthesis of (±)-estrone**

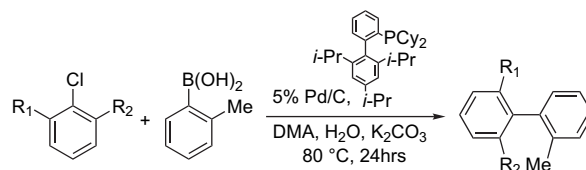
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Hirohumi Hakuba, Shinji Kitagaki\* and Chisato Mukai\*

**Palladium on carbon as a precatalyst for the Suzuki–Miyaura cross-coupling of aryl chlorides**

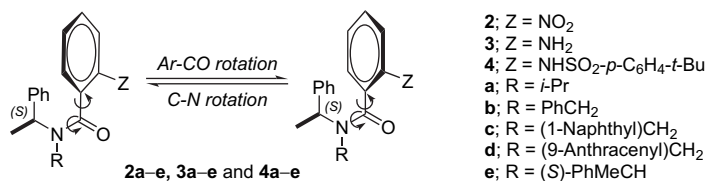
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Joseph P. Simeone\* and John R. Sowa, Jr.\*

**Synthesis and dynamics of atropisomeric (S)-N-(α-phenylethyl)benzamides**

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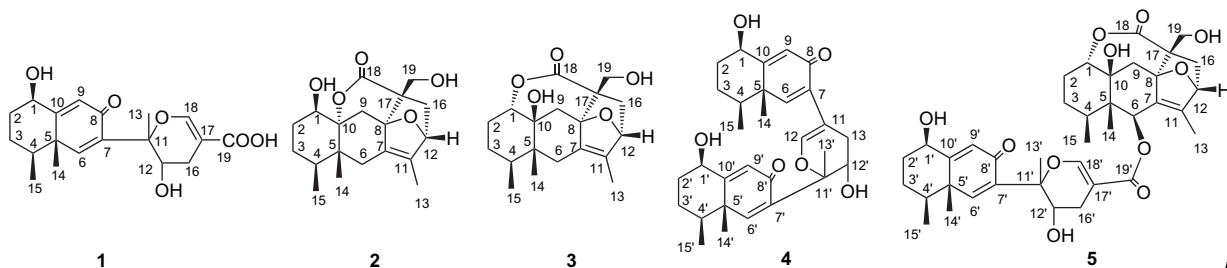
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**Five new eremophilane derivatives from *Ligularia sagitta***

Ping-Lin Li, Chun-Ming Wang, Zhan-Xin Zhang and Zhong-Jian Jia\*

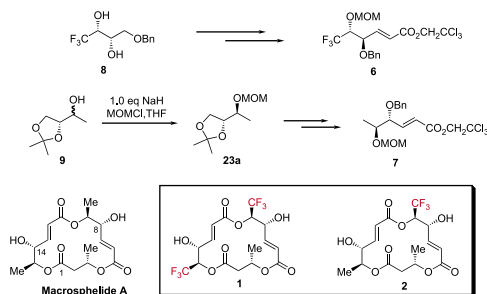
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**Total synthesis of trifluoromethylated analogs of macrophelide A**

Bing-Lin Wang, Zhong-Xing Jiang, Zheng-Wei You and Feng-Ling Qing\*

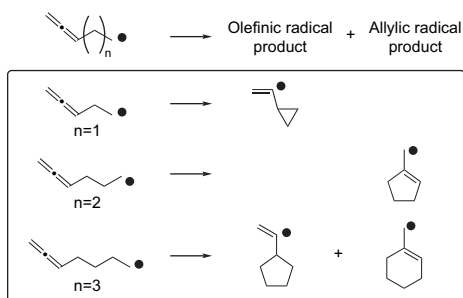
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Jing Shi, Miao Zhang, Yao Fu,\* Lei Liu and Qing-Xiang Guo\*

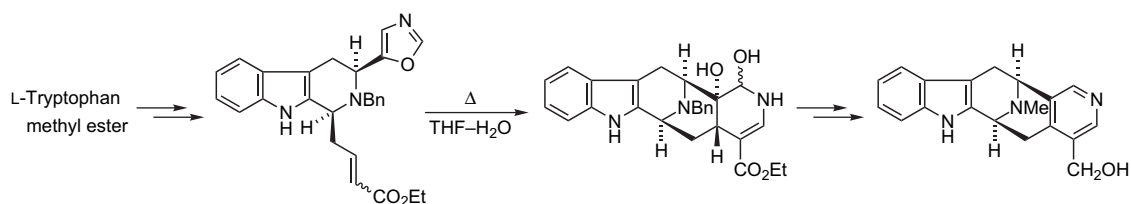
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**Total synthesis of the proposed structure of macrocaffrine**

Masashi Ohba\* and Itaru Natsutani

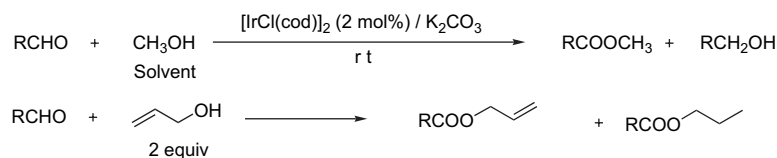
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**[IrCl(cod)]<sub>2</sub>-catalyzed direct oxidative esterification of aldehydes with alcohols**

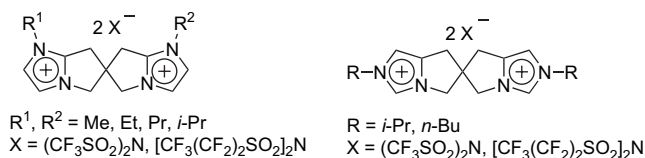
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Syun-ichi Kiyooka,\* Yosuke Wada, Mahuyu Ueno, Takeshi Yokoyama and Reiko Yokoyama

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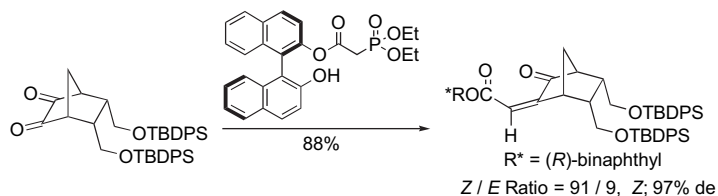
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Mahesh L. Patil,\* C. V. Laxman Rao, Shinobu Takizawa, Kazuhiro Takenaka, Kiyotaka Onitsuka and Hiroaki Sasai\*

**Discrimination of carbonyl groups of *meso*- $\alpha$ -diketones with Horner–Wadsworth–Emmons reagent of chiral binaphthyl esters**

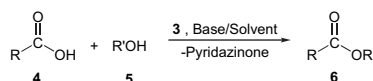
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Daiki Monguchi, Yoshihisa Ohta, Tatsuya Yoshiuchi, Toshiyuki Watanabe, Takumi Furuta,\* Kiyoshi Tanaka and Kaoru Fuji

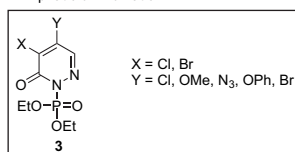
**Effective esterification of carboxylic acids using (6-oxo-6H-pyridazin-1-yl)phosphoric acid diethyl ester as novel coupling agents**

pp 12720–12730

Ju-Eun Won, Ho-Kyun Kim, Jeum-Jong Kim, Heong-Seup Yim, Min-Jung Kim, Seung-Beom Kang, Hyun-A Chung, Sang-Gyeong Lee\* and Yong-Jin Yoon\*



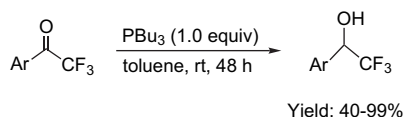
R, R' = Aliphatic or Aromatic



**Reduction of 2,2,2-trifluoro-1-arylethanones with alkyl phosphines**

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Min Shi,\* Xu-Guang Liu, Ying-Wen Guo and Wen Zhang

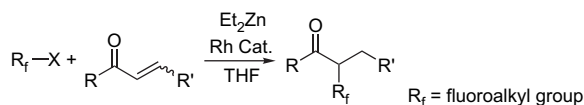


In the presence of alkyl phosphines, reduction of 2,2,2-trifluoro-1-arylethanones proceeded smoothly to give the corresponding reduction products in moderate to high yields at room temperature. The possible mechanism was discussed on the basis of deuterium labeling and control experiments, indicating that one hydrogen transfer took place from alkyl phosphine to the carbonyl group activated by a strongly electron-withdrawing trifluoromethyl group.

**Rh-catalyzed novel  $\alpha$ -fluoroalkylation of  $\alpha,\beta$ -unsaturated ketones and its mechanism**

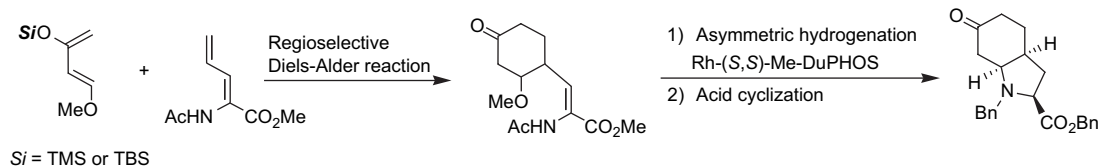
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**Synthesis of the octahydroindole unit of aeruginosins via asymmetric hydrogenation of the Diels–Alder adducts of 2-amido-2,4-pentadienoate**

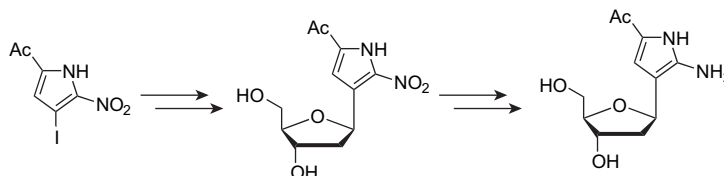
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Yoichiro Hoshina, Takayuki Doi and Takashi Takahashi\*

**Synthesis of 5-acetyl-2-aminopyrrole C-deoxyribonucleoside**

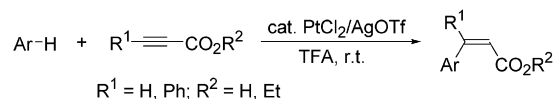
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Hiroshi Oda,\* Takeshi Hanami, Takashi Iwashita, Miki Kojima, Masayoshi Itoh and Yoshihide Hayashizaki



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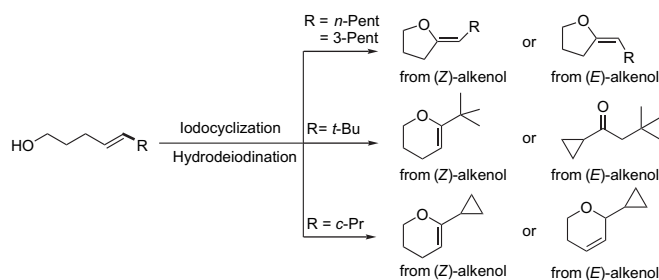
Juzo Oyamada and Tsugio Kitamura\*



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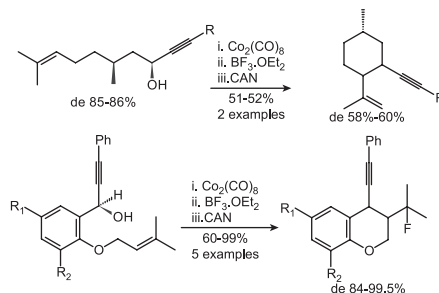
Claudio Paolucci\* and Paolo Righi



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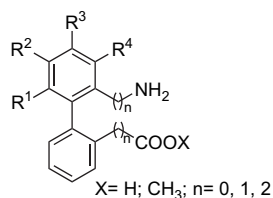
Elizabeth Tyrrell,\* Julien Millet, Kibur Hunie Tesfa, Neil Williams, Alastair Mann, Caroline Tillett and Christophe Muller



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Elisa Perissutti, Francesco Frecentese, Antonio Lavecchia, Ferdinando Fiorino, Beatrice Severino, Francesca De Angelis, Vincenzo Santagada\* and Giuseppe Caliendo

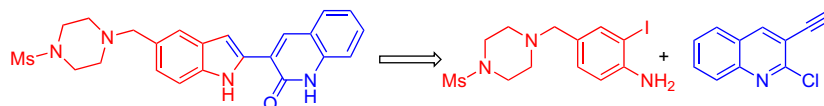




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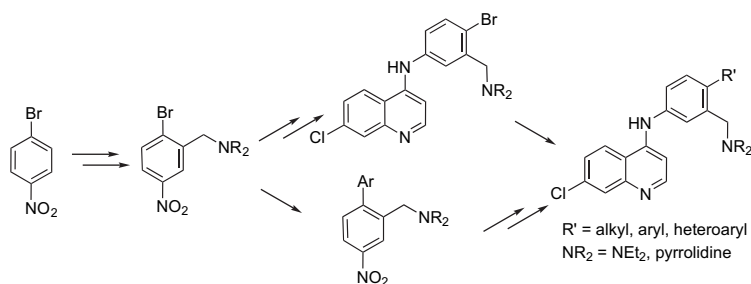
Sanjay S. Palimkar, Vijaykumar S. More, P. Harish Kumar and Kumar V. Srinivasan\*



**Suzuki–Miyaura cross-coupling reaction as the key step for the synthesis of some new 4'-aryl and alkyl substituted analogues of amodiaquine and amopyroquine**

pp 12791–12810

Emilia Paunescu, Nicolas Matuszak and Patricia Melnyk\*



\*Corresponding author

Supplementary data available via ScienceDirect



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