

CARDIOLOGY

International Journal of
Cardiovascular Medicine, Surgery, Pathology and Pharmacology

Editorial

- 20 Dyspnea and Reversibility of Antiplatelet Agents: Ticagrelor, Elinogrel, Cangrelor, and Beyond**
Serebruany, V.L.; Sibbing, D.; DiNicolantonio, J.J. (Towson, Md.)

Editorial Comments

- 28 Pigment Epithelial-Derived Factor and Acute Coronary Syndrome: A Novel Protective Biomarker but Not for Routine Clinical Use at Present**
Thadani, U.; Latif, F. (Oklahoma City, Okla.)
- 51 Avoid Atrial Fibrillation in Patients with Hypertrophic Cardiomyopathy**
Link, M.S. (Boston, Mass.)
- 53 The Matter of Matrix: Recurrence of Atrial Fibrillation after a Surgical Maze Procedure**
Knutson, C.; Akhrass, P.; Budzikowski, A.S. (Brooklyn, N.Y.)

Original Research

- 31 The Association Study of Plasma Levels of Pigment Epithelium-Derived Factor with Acute Coronary Syndrome in the Chinese Han Population**
Liu, J.; Wang, S.; Shi, J.; Guo, Y.; Liu, J.; Tao, T.; Zhu, P. (Beijing)
- 38 Exercise-Induced Muscle Vasodilatation and Treadmill Exercise Test Responses in Individuals without Overt Heart Disease**
Nunes, R.A.B.; Giampaoli, V.; de Freitas, H.F.G.; da Costa Pereira, A.; Araújo, F.; Correia, G.F.; Rondon, M.U.P.B.; Negrão, C.E.; Mansur, A.J. (São Paulo)
- 45 Low Levels of Low-Density Lipoprotein Cholesterol: A Negative Predictor of Survival in Elderly Patients with Advanced Heart Failure**
Charach, G.; Rabinovich, A.; Ori, A.; Weksler, D.; Sheps, D.; Charach, L.; Weintraub, M.; George, J. (Tel Aviv)
- 55 Prediabetes and Short-Term Outcomes in Nondiabetic Patients after Acute ST-Elevation Myocardial Infarction**
Tian, L.; Zhu, J.; Liu, L.; Liang, Y.; Li, J.; Yang, Y. (Beijing)
- 62 The Analysis of microRNA Expression Profiling for Coronary Artery Disease**
Li, K.; Zhang, T.; Fan, H.; Li, Q. (Shanghai); Ito, W.; Torzewski, J. (Immenstadt); Guo, J.; Liu, Z. (Shanghai)

(Continued on inside front cover)

CARDIOLOGY

(Continued from front cover)

Turning Basic Research into Clinical Success

1 Posttraumatic Stress Disorder and Cardiometabolic Disease

Levine, A.B. (Pittsburgh, Pa.); Levine, L.M. (Bedford, Mass.);
Levine, T.B. (Pittsburgh, Pa.)

Letters to the Editor

25 Uric Acid Level in Patients with Kidney Disease

Balta, S.; Demir, M.; Demirkol, S.; Kucuk, U.; Unlu, M.; Arslan, Z.
(Ankara)

26 Uric Acid Level Should Be Stratified in Order to Better Evaluate Inflammatory Status

Erayman, A. (Kahramanmaras)

70 Prooxidant-Antioxidant Balance and Risk Factors of Coronary Artery Disease

Kawada, T. (Tokyo)

Letter to the Editor/Reply

71 Authors' Reply

Rahsepar, A.A.; Khorashadizadeh, F.; Ghayour-Mobarhan, M.
(Mashhad); Ferns, G. (Falmer)

KARGER

CARDIOLOGY

**International Journal of
Cardiovascular Medicine, Surgery, Pathology and Pharmacology**

Founded 1937 as 'Cardiologia' by Bruno Kisch and Wilhelm Löffler, continued by R. Heggin (1962–1969), I. Mahaim (1962–1965), P. Moret (1966–1969), P.M. Galletti (1966–1979), Jan J. Kellermann (1980–1990) and Joseph S. Alpert (1990–2005)

Incorporating Heart Drug (published 2001–2005)

Editor-in-Chief

Jeffrey S. Borer, New York, N.Y.

Associate Editors

D. Atar, Oslo
H. Boudoulas, Athens
J.A. Franciosa, New York, N.Y.
I.J. Gelb, Boca Raton, Fla.
X. Huang, Boca Raton, Fla.
J.T. Kassotis, Brooklyn, N.Y.
W. Ko, New York, N.Y.
B.S. Lewis, Haifa
A.B. Miller, Jacksonville, Fla.
D.J. Sahn, Portland, Oreg.
S. Sasayama, Kyoto
J. Somberg, Chicago, Ill.
H. Taegtmeyer, Houston, Tex.

Editorial Board

E. Abadie, Saint Denis
D.H. Adams, New York, N.Y.
C.W. Akins, Boston, Mass.
J.S. Alpert, Tucson, Ariz.
E.A. Amsterdam, Davis, Calif.
W.S. Aronow, Valhalla, N.Y.
J.J. Badimon, New York, N.Y.
A. Battler, Petah Tikva
J. Bax, Leiden
R.C. Becker, Durham, N.C.
G.A. Beller, Charlottesville, Va.
P.C. Block, Atlanta, Ga.
R.O. Bonow, Chicago, Ill.
A.S. Budzikowski, Brooklyn, N.Y.
A.J. Camm, London
B.A. Carabello, Houston, Tex.
K. Chatterjee, Iowa City, I.A.
P.F. Cohn, Stony Brook, N.Y.
J. Coromilas, New Brunswick, N.J.
M.H. Crawford, San Francisco, Calif.
J.E. Dalen, Tucson, Ariz.
S. Dalla Volta, Padova
P.C. Deedwania, Fresno, Calif.
A.N. De Maria, San Diego, Calif.
J.A. Elefteriades, New Haven, Conn.
U. Elkayam, Los Angeles, Calif.
C. Erol, Ankara
M.D. Ezekowitz, Wynnewood, Pa.
R. Ferrari, Ferrara
G. Filippatos, Athens
G.I. Fishman, New York, N.Y.
K. Fox, London
G.S. Francis, Minneapolis, Minn.
V. Fuster, New York, N.Y.
B.J. Gersh, Rochester, Minn.
W. Gersony, New York, N.Y.
J.P. Gold, Toledo, Ohio
R.J. Goldberg, Worcester, Mass.
M.E. Goldman, New York, N.Y.
P.J. Goldschmidt, Miami, Fla.
J. Gore, Worcester, Mass.
J.L. Halperin, New York, N.Y.
Z.-X. He, Beijing
D. Heistad, Iowa City, Iowa
E.M. Herrold, Brooklyn, N.Y.
G. Heusch, Essen

(Continued on next page)

KARGER

Printed on acid-free
and non-aging paper
(ISO 9706) by
Stückle Druck, Ettenheim

Appears monthly:
3 volumes per year
(12 issues)

(Continued)

Editorial Board

L.D. Hillis, San Antonio, Tex.
C.A. Hochreiter, New York, N.Y.
M. Hori, Osaka
S.K.S. Huang, Temple, Tex.
B.K. Kantharia, Houston, Tex.
J.S. Karliner, San Francisco, Calif.
R.E. Kerber, Iowa City, Iowa
N.Z. Kerin, Detroit, Mich.
A. Kimchi, Los Angeles, Calif.
R.N. Kitsis, Bronx, N.Y.
P. Kligfield, New York, N.Y.
X. Kong, Nanjing
M.A. Konstam, Boston, Mass.
J.B. Kostis, New Brunswick, N.J.
P. Kowey, Wynnewood, Pa.
K.H. Krieger, New York, N.Y.
H. Krum, Melbourne, Vic.
E. Kuschnir, Córdoba
H. Kusuoka, Osaka
W. Laskey, Albuquerque, N. Mex.
J.M. Lazar, Brooklyn, N.Y.
C.V. Leier, Columbus, Ohio
M.C. Limacher, Gainesville, Fla.
R.J. Lipicky, North Potomac, Md.
T.F. Lüscher, Zurich
F.I. Marcus, Tuscon, Ariz.
A.J. Marian, Houston, Tex.
J.D. Marmur, Brooklyn, N.Y.
F.A. Martinez, Córdoba
M.G. Massad, Chicago, Ill.
P. Meier, London
F.H. Messerli, New York, N.Y.
J. Midwall, Atlantis, Fla.
R.M. Mills, Raritan, N.J.
J.E. Mitchell, Brooklyn, N.Y.
R.J. Myerburg, Miami, Fla.
J. Narula, Orange, Calif.
J.V. Nixon, Richmond, Va.
I.S. Ockene, Worcester, Mass.
H. Oh, Okayama
J.A. Paraskos, Worcester, Mass.
P. Pibarot, Quebec City, Que.
B. Pitt, Ann Arbor, Mich.
G.M. Pohost, Los Angeles, Calif.
E.N. Prystowsky, Indianapolis, Ind.
N. Reichek, Roslyn, N.Y.
W.J. Remme, Rhooon
R. Roberts, Ottawa
W.C. Roberts, Dallas, Tex.
R. Rosenhek, Vienna
F. Ruschitzka, Zurich
J.N. Ruskin, Boston, Mass.
M.E. Sarano, Rochester, Minn.
V.L. Serebruany, Towson, Md.
D. Spodick, Worcester, Mass.
M.R. Starling, Mesa, Ariz.
P. Supino, Brooklyn, N.Y.
J.L. Swain, La Jolla, Calif.
K. Swedberg, Göteborg
A.J. Tajik, Rochester, Minn.
L. Tavazzi, Cotignola
J.R. Teerlink, San Francisco, Calif.
M. Tendera, Katowice
U. Thadani, Oklahoma City, Okla.
K. Thygesen, Aarhus
N.K. Wenger, Atlanta, Ga.
W.B. White, Farmington, Conn.
J.T. Willerson, Houston, Tex.
R.G. Williams, Los Angeles, Calif.
K.K.-Y. Wu, Zhunan Town
F. Zannad, Nancy
B.L. Zaret, New Haven, Conn.
D.P. Zipes, Indianapolis, Ind.

Submission

Cardiology publishes original reports in research and observations pertaining to cardiovascular physiology, epidemiology, pharmacology, disease and therapy. Only original papers written in English are considered. The articles should be readily comprehensible to a reader who is fluent in English. Therefore, all manuscripts originating from non-English-speaking authors must be edited prior to submission to assure that standard English grammar and usage are observed. This may require help from a colleague or other editorial assistant. It must be evident from the covering letter that this has been done. Submissions that are not edited in this way will not be considered for publication until such editing has been achieved. Manuscripts should be submitted using the online submission website:

www.karger.com/crd

If you have any problems with submission, please contact:

S. Karger AG
Editorial Office 'Cardiology'
P.O. Box
CH-4009 Basel (Switzerland)
Tel. +41 61 306 1356
Fax +41 61 306 1434
E-Mail crd@karger.com

All manuscripts must be accompanied by a covering letter signed by all authors. Assurance should be given that the manuscript is not under simultaneous consideration by any other publication and that there are no conflicts of interest, see below. The preferred word processing package is Word for Windows®. Presentation of manuscripts should conform with the Uniform Requirements for Manuscripts Submitted to Biomedical Journals (see *N Engl J Med* 1997;336:309–315).

Main Sections1. *Original Research*2. *Original Research – Clinical Trial Design*

Submissions will be accepted reporting the study design protocols of planned clinical trials that have been appropriately registered with regulatory authorities. These submissions will be limited to 4500 words and 35 references.

3. *Review*4. *Turning Basic Research into Clinical Success*

One or two focused review articles are published in each issue, and should offer an overview of existing concepts and literature in a format assimilable to the largely clinical cardiologist readership, i.e. a readership base with limited sophistication as to methods and terminology associated with cell and molecular biology. Most manuscripts are submitted upon invitation. Authors planning to submit an unsolicited paper are requested to contact the Editorial Office with an outline of the intended contribution. All submissions are subject to peer review. These articles are available also to nonsubscribers in free access on the journal's website. Submissions should comprise no more than 4,500 words and 50 references. They should have an abstract of approximately 200 words and about 5 key words should be provided.

5. *Letter to the Editor*

Letters to the Editor (max. 1,500 words, including references) are encouraged if they directly concern articles previously published in this journal and issues raised by those articles. The Editor reserves the right to submit copies of such letters to the authors of the articles concerned prior to publication in or-

der to permit them to respond in the same issue of the journal.

6. *Novel Insights from Clinical Experience (formerly Case Reports)*

Contributions to this section are expected to provide novel insight into a clinical problem. Submissions can be based on a single case or a number of similar cases. While a case report can describe an entirely novel clinical condition, it is unlikely that most case reports will provide such information. In the more common setting of a description of a well-recognized condition, the most important aspect of the presentation, on which editorial judgments will be based, is the description of the new perspective(s) on the phenotype, pathophysiology, clinical presentation, evaluation strategy and/or management that can be drawn from the case findings.

We require that a highlighted box containing one or two bullet points on **Established facts** and **Novel insights** should be placed on the first page of the report. These should be selected to reinforce the novelty of the clinical observation.

The manuscript should be presented with an abstract (up to 200 words), brief introduction, case or case series description and results, followed by a discussion. *Novel Insights from Clinical Experience* should be no more than 2,500 words (including statements in the highlighted box) and should contain no more than 20 references.

Please note that case reports that are not submitted in this format will not be considered, and that such reports cannot be submitted as Letters to the Editor.

7. *Short Communications*

These manuscripts should not contain more than 2,000 words, including key words, essential references (not more than 15) and not more than 3 tables or figures. Such communications should represent complete, original studies and should be arranged in the same way as full length manuscripts.

8. *Commentary*

Authors who wish to contribute a manuscript to this category should contact the Editor. Commentaries should offer a more personalized perspective on a topic that will be of interest to the general readership, paralleling Editorials (defined as commentaries **invited** by the Editors or opinion pieces produced by members of our editorial board). All contributions to this category will be subject to editorial review for relevance for the readership, perception of topicality and general importance/interest, and quality of the submitted work. To submit a Letter to the Editor, see point 5. above.

Conditions

All manuscripts are subject to editorial review. Manuscripts are received with the explicit understanding that they are not under simultaneous consideration by any other publication. Submission of an article for publication implies the transfer of the copyright from the author to the publisher upon acceptance. Accepted papers become the permanent property of *Cardiology* and may not be reproduced by any means, in whole or in part, without the written consent of the publisher. It is the author's responsibility to obtain permission to reproduce illustrations, tables, etc. from other publications.

Conflict of Interest in Cardiovascular Publications

Declaration of potential conflict of interest should be part of each publication or presentation and be designated as one or more of four categories: (1) No relationship. (2) Relationship with a For Profit Organi-

zation. (3) Research relationship with a For Profit or Not For Profit Organization, which should be named. (4) Employee of a For Profit or Not For Profit Organization. For legal reasons, all authors are required during submission of their manuscript to complete and sign a **Copyright Transfer & Conflicts of Interest Statement**. The corresponding author must ensure that all authors have been asked to sign this form and to disclose any conflicts of interest.

Ethics

Published research must comply with the guidelines for human studies and animal welfare regulations. Authors should state that subjects have given their informed consent and that the study protocol has been approved by the institute's committee on human research. Further, they should also state that animal experiments conform to institutional standards.

Plagiarism

Authors should not appropriate the ideas, language or other elements of the work of others without providing appropriate attribution (i.e. 'plagiarism'). Plagiarism includes, but is not limited to, verbatim copying without quotation marks, close paraphrasing or summarization of sentences or narrative passages without citing source, and duplication of figures, graphs, images or data without acknowledgement of their origins. Authors also should not submit a previously published manuscript or a section of a previously published manuscript, even when re-titled, otherwise re-worded or augmented, without clearly identifying its relation to the author's earlier work (duplicate publication or 'self-plagiarism'). For additional guidance, see Roig, M.: Plagiarism and self-plagiarism: What every author should know. *Biochimica Medica* 2010;20:295–300.

Arrangement

Title page: The first page of each paper should indicate the title, the authors' names, the institute where the work was conducted, and a short title for use as running head.

Full address: The exact postal address of the corresponding author complete with postal code must be given at the bottom of the title page. Please also supply phone and fax numbers, as well as e-mail address.

Key words: Please supply 3–10 key words in English that reflect the content of the paper.

For submissions to Main Sections 1, 2 and 3:

Original Research, Original Research – Clinical Trial Design, and Review Papers

Abstract: The abstract is an essential and most read part of the paper. It should be printed on a separate page, up to 200 words, factual, free of abbreviations (except as specifically defined within the abstract text at first use) and should be structured as follows:

Objectives: Should describe the purpose of the study and the problem addressed; should include at least one sentence providing the rationale or justification for the study.

Methods: Should explain how the study was performed (samples and/or population, procedures, analytical methods).

Results: Should describe the main findings with specific data and their statistical significance, if possible.

Conclusions: Should contain a succinct interpretation of the inferences to be drawn from results.

Footnotes: Avoid footnotes. When essential, they are numbered consecutively and typed at the foot of the appropriate page.

Tables and illustrations: Tables and illustrations (both numbered in Arabic numerals) should be prepared on separate sheets. Tables require a heading and figures a legend, also prepared on a separate sheet. Due to technical reasons, figures with a screen background should not be submitted. When possible, group several illustrations in one block for reproduction (max. size 180 × 223 mm) or provide crop marks. Each illustration must be labelled with its number and the first author's name. b/w half-tone and color illustrations must have a final resolution of 300 dpi after scaling, line drawings one of 800–1,200 dpi. Figure files must not be embedded in a document file but submitted separately (see detailed instructions at <http://www.karger.com/crd/>).

Color illustrations

Online edition: Color illustrations are reproduced free of charge. In the print version, the illustrations are reproduced in black and white. Please avoid referring to the colors in the text and figure legends.

Print edition: Up to 6 color illustrations per page can be integrated within the text at CHF 800.– per page.

References: In the text identify references by Arabic numerals [in square brackets]. Material submitted for publication but not yet accepted should be noted as [unpublished data] and not be included in the reference list. The list of references should include only those publications which are cited in the text. Do not alphabetize; number references in the order in which they are first mentioned in the text. The surnames of the authors followed by initials should be given. There should be no punctuation other than a comma to separate the authors. Preferably, please cite all authors. Abbreviate journal names according to the Index Medicus system. Also see International Committee of Medical Journal Editors: Uniform requirements for manuscripts submitted to biomedical journals (www.icmje.org).

Examples

(a) *Papers published in periodicals:* Sun J, Koto H, Chung KF: Interaction of ozone and allergen challenges on bronchial responsiveness and inflammation in sensitised guinea pigs. *Int Arch Allergy Immunol* 1997;112:191–195.

(b) *Papers published only with DOI numbers:* Theoharides TC, Boucher W, Spear K: Serum interleukin-6 reflects disease severity and osteoporosis

in mastocytosis patients. *Int Arch Allergy Immunol* DOI: 10.1159/000063858.

(c) *Monographs:* Matthews DE, Farewell VT: *Using and Understanding Medical Statistics*, ed 3, revised. Basel, Karger, 1996.

(d) *Edited books:* Parren PWHI, Burton DR: Antibodies against HIV-1 from phage display libraries: Mapping of an immune response and progress towards antiviral immunotherapy; in Capra JD (ed): *Antibody Engineering*. Chem Immunol. Basel, Karger, 1997, vol 65, pp 18–56.

Reference Management Software: Use of EndNote is recommended for easy management and formatting of citations and reference lists.

Digital Object Identifier (DOI)

S. Karger Publishers supports DOIs as unique identifiers for articles. A DOI number will be printed on the title page of each article. DOIs can be useful in the future for identifying and citing articles published online without volume or issue information. More information can be found at www.doi.org.

Supplementary Material

Supplementary material is restricted to additional data that are not necessary for the scientific integrity and conclusions of the paper. Please note that all supplementary files will undergo editorial review and should be submitted together with the original manuscript. The Editors reserve the right to limit the scope and length of the supplementary material. Supplementary material must meet production quality standards for Web publication without the need for any modification or editing. In general, supplementary files should not exceed 10 Mb in size. All figures and tables should have titles and legends and all files should be supplied separately and named clearly. Acceptable files and formats are: Word or PDF files, Excel spreadsheets (only if the data cannot be converted properly to a PDF file), and video files (.mov, .avi, .mpeg).

Author's Choice™

With this option the author can choose to make his article freely available online against a one-time fee of CHF 3,000.–. This fee is independent of any standard charges for supplementary pages, color images etc. which may apply. More information can be found at www.karger.com/authors_choice.

NIH-Funded Research

The U.S. National Institutes of Health (NIH) mandates under the NIH Public Access Policy that final, peer-reviewed manuscripts appear in its digital database within 12 months of the official publication date. As a service to authors, Karger submits the final version of your article on your behalf to PubMed Central. For those selecting our premium Author's Choice™ service, we will send your article immediately upon publishing, accelerating the accessibility of your work without the usual embargo. More details on NIH's Public Access Policy are available at <http://publicaccess.nih.gov/FAQ.htm#a1>

Self-Archiving

Karger permits authors to archive their pre-prints (i.e. pre-refereeing) or post-prints (i.e. final draft post-refereeing) on their personal or institution's servers, provided the following conditions are met: Articles may not be used for commercial purposes, must be linked to the publisher's version, and must acknowledge the publisher's copyright. Authors selecting Karger's Author's Choice™ feature, however, are also permitted to archive the final, published version of their article, which includes copyediting and design improvements as well as citation links.

Page Charges

There are no page charges for papers of 6 or fewer printed pages (including tables, illustrations and references). Each additional complete or partial page is charged to the author at CHF 325.–. The allotted size of a paper is equal to approx. 18 manuscript pages (including tables, illustrations and references).

Proofs

Unless indicated otherwise, proofs are sent to the corresponding author and should be returned with the least possible delay. Alterations made in proofs, other than the correction of printer's errors, are charged to the author.

Reprints

Order forms and a price list are sent with the proofs. Orders submitted after the issue is printed are subject to considerably higher prices.

ISSN Print Edition: 0008-6312
ISSN Online Edition: 1421-9751

Journal Homepage: www.karger.com/crd

Publication Data: *Cardiology* is published 12 times a year. Volumes 127-129, each with 4 issues, appear in 2014.

Copyright: © 2014 S. Karger AG, Basel (Switzerland). All rights reserved. No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center.

Disclaimer: The statements, opinions and data contained in this publication are solely those of the individual authors and contributors and not of the publisher and the editor(s). The appearance of advertisements in the journal is not a warranty, endorsement, or approval of the products or services advertised or of their effectiveness, quality or safety. The publisher and the editor(s) disclaim responsibility for any injury to persons or property resulting from any ideas, methods, instructions or products referred to in the content or advertisements.

Subscription Rates: Subscriptions run for a full calendar year. Prices are given per year.

Personal subscription:

Print or Online	Print+Online combined
CHF 608.-	CHF 752.-
EUR 498.-	EUR 615.-
USD 608.00	USD 752.00

postage and handling (added to print and print+online)
 CHF 88.80 Europe, CHF 129.60 Overseas
 EUR 72.00
 USD 117.60

Institutional subscription:

Print or Online	Print+Online combined
CHF 4053.-	CHF 4458.-
EUR 3321.-	EUR 3654.-
USD 4053.00	USD 4458.00

postage and handling (added to print and print+online)
 CHF 111.- Europe, CHF 162.- Overseas
 EUR 90.-
 USD 147.00

Back Volumes and Single Issues: Information on availability and prices of single print issues and print or electronic back volumes can be obtained from Customer Service at service@karger.com.

Bibliographic Indices: This journal is regularly listed in bibliographic services, including *Current Contents®* and PubMed/MEDLINE.

Photocopying: This journal has been registered with the Copyright Clearance Center (CCC), as indicated by the code appearing on the first page of each article. For readers in the US, this code signals consent for copying of articles for personal or internal use, or for the personal or internal use of specific clients, provided that the stated fee is paid per copy directly to

Copyright Clearance Center Inc.
 222 Rosewood Drive
 Danvers, MA 01923 (USA)

A copy of the first page of the article must accompany payment. Consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. In these cases, specific written permission must be obtained from the copyright owner, S. Karger AG, P.O. Box CH-4009 Basel (Switzerland).

Subscription Orders:

Orders can be placed at agencies, bookstores, directly with the Publisher

S. Karger AG

Medical and Scientific Publishers
 Allschwilerstrasse 10
 CH-4009 Basel
 Switzerland

t: +41 61 306 11 11
 f: +41 61 306 12 34
 e: karger@karger.com
 w: www.karger.com

(for courier services only:
 Allschwilerstrasse 10
 CH-4055 Basel)

Change of Address:

Both old and new address should be sent to the subscription source.

or further Karger offices or representatives:

Germany
S. Karger GmbH
 Postfach
 79095 Freiburg
 Deutschland
 (Hausadresse: Wilhelmstrasse 20A,
 79098 Freiburg)
 t: +49 761 45 20 70
 f: +49 761 45 20 714
 e: information@karger.de
 w: www.karger.de

Japan
Karger Japan, Inc.
 Shiba Daimon Asahi Bldg. 2F
 1-2-23 Shiba Daimon
 Minato-ku
 Tokyo 105-0012
 Japan
 t: +81 3 6435 6242
 f: +81 3 6435 6244
 e: publisher@karger.jp
 w: www.karger.jp

USA
S. Karger Publishers, Inc.
 26 West Avon Road
 P.O. Box 529
 Unionville, CT 06085
 USA
 Toll free: +1 800 828 5479
 t: +1 860 675 7834
 f: +1 860 675 7302
 e: karger@snet.net

France
Enter & Read
 Albertine Luginbuhl
 23, rue du Départ, boîte 37
 75014 Paris
 France
 t: +33 (0) 6 81 04 76 85
 e: albertineluginbuhl@orange.fr

South East Asia, China and Taiwan
Karger Regional Office (Malaysia)
 CEO Suite Kuala Lumpur
 Quill 7, 27th Floor
 Jalan Stesen Sentral 5
 KL Sentral
 Kuala Lumpur 50470
 Malaysia
 t: +60 3 2776 6803
 f: +60 3 2776 6999
 e: service@karger.cn; r.chew@karger.cn

Karger China
 10th Floor, Twin Towers (East)
 B12 Jianguomenwai Avenue
 Beijing 100022
 China
 t: +86 10 5123 5033
 f: +86 10 5123 5122
 e: service@karger.cn; r.chew@karger.cn
 w: www.karger.cn

India, Bangladesh, Sri Lanka
Karger India
 Plot No. 17, Yusuf Sarai Market
 B.L. Glass Building, 2nd Floor
 Sri Aurobindo Marg
 New Delhi 110 016
 India
 t: +91 11 46029 633
 f: +91 11 46029 634
 c: +91 98 91052 128
 e: r.kumar@karger.com
 w: www.karger.com

SAVE THE DATE!

CARDIOSTIM 2014

EHRA EUROPACE

June 18 -21
Nice - France



Painting by Françoise Persillon

World congress on cardiac electrophysiology

www.cardiostim.com

Invasive & Non-Invasive Electrophysiology - Catheter Ablation - Pacing & Defibrillation - Heart Failure - Cardiac Imaging - Angiogenesis & Genetics - Emerging Cardiovascular Technologies



Information:
Dr Philippe Ritter • CARDIOSTIM
E-mail: cardiostim@wanadoo.fr



Contents

[See the journal website for contents](#)

FRONTIERS IN CARDIOVASCULAR BIOLOGY

Third Meeting of the ESC Council on Basic Cardiovascular Science

FCVB 2014

IMPORTANT DATES

October 2013

My ESC Services open for Abstract submission, Registration, Hotel accommodation

31 January 2014

Abstract Submission deadline

16 April 2014

Early Bird Registration deadline

5 June 2014

Advance Registration deadline

25 June 2014

Pre-registration deadline

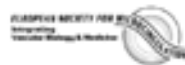
BARCELONA

4-6 JULY

www.escardio.org/FCVB

ESC Working Groups on: Atherosclerosis and Vascular Biology - Cardiac Cellular Electrophysiology - Cardiovascular Pharmacology and Drug Therapy - Cellular Biology of the Heart - Coronary Pathophysiology and Microcirculation - Development, Anatomy and Pathology - Myocardial Function - Thrombosis
Sister Societies: European Vascular Biology Organisation - International Society for Heart Research European Section - European Council for Cardiovascular Research - European Society for Microcirculation - Association for European Cardiovascular Pathology

F14261



ESC CONGRESS

BARCELONA 2014

Where everything comes together

30 August – 3 September



Get ready to submit your abstract

Mid December - 14 February	Abstract submission
Mid January - 1 March	Clinical case submission
Mid March - 1 May	Hot Lines, Clinical Trial Updates & Registries submission
31 May	Early Registration deadline
31 July	Late Registration deadline

Spotlight: **Innovation and the Heart**

5 days of scientific Sessions **150** CV Topics **30 000** healthcare professionals from **145** countries
10 000 abstracts submitted **130** industry sponsored sessions **200** exhibiting companies
& all year long on ESC Congress **365**



www.escardio.org/ESC2014



European Society
of Cardiology



#esccongress



escardiodotorg



EUROPEAN
SOCIETY OF
CARDIOLOGY®

Glasgow, UK
September 13-17

CIRSE 2014

Submit your
abstracts by
February 14
2014!

INNOVATION EDUCATION INTERVENTION

CIRSE 2014, Europe's most comprehensive forum for minimally invasive image-guided therapy, will offer more than 250 hours of educational and scientific presentations, including hands-on workshops, foundation courses, learning centres, industry symposia, an all-electronic poster exhibition and the largest CIRSE exhibition ever.

www.cirse.org

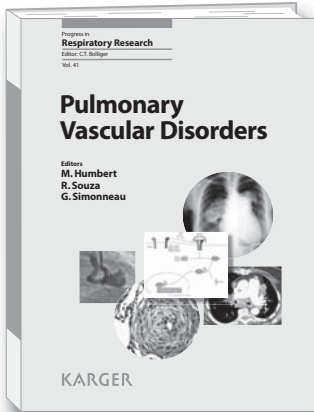
MAIN TOPICS

- Vascular Interventions
- Transcatheter Embolisation
- Non-Vascular Interventions
- Interventional Oncology
- Neurointerventions
- IR Management



Cardiovascular and Interventional Radiological Society of Europe

An excellent overview of recent advances in diagnosis, classification and treatment



Pulmonary Vascular Disorders

Editors
Marc Humbert
Rogério Souza
Gérald Simonneau

Respiratory System: Cardiovascular System: Internal Medicine: Intensive Care, Thoracic Surgery

Contents

Foreword
Preface

Updated Clinical Classification of Pulmonary Hypertension: **Montani, D.; Simonneau, G.**
Pathology of Pulmonary Arterial Hypertension: **Dorfmueller, P.**
Invasive Rest and Exercise Hemodynamics in the Modern Management of Pulmonary Vascular Disease: An Expanding Role in the Future: **Whyte, K.F.; Hervé, P.; Hoette, S.; Chemla, D.**
Exercise Testing in Pulmonary Arterial Hypertension: **Provencher, S.; Mainguy, V.**
Noninvasive Exploration of the Pulmonary Circulation and the Right Heart: **Vonk Noordegraaf, A.; Peacock, A.; Naeije, R.**
Biomarkers in Pulmonary Arterial Hypertension: **Souza, R.; Hoette, S.; Dias, B.; Jardim, C.**
Genetics of Pulmonary Arterial Hypertension and the Concept of Heritable Pulmonary Arterial Hypertension: **Girerd, B.; Montani, D.; Yaici, A.; Eyries, M.; Coulet, F.; Soubrier, F.; Humbert, M.**
Drug- and Toxin-Induced Pulmonary Arterial Hypertension: **Price, L.; Bouillon, K.; Wort, S.J.;**

Humbert, M.
Idiopathic Pulmonary Arterial Hypertension and Its Prognosis in the Modern Management Era in Developed and Developing Countries: **Jiang, X.; Humbert, M.; Jing, Z.-C.**
Pulmonary Arterial Hypertension Complicating Connective Tissue Disorders: **Le Pavec, J.; Hassoun, P.M.**
Pulmonary Arterial Hypertension and HIV and Other Viral Infections: **Degano, B.; Valmary, S.; Sitbon, O.; Humbert, M.**
Portopulmonary Hypertension and Hepatopulmonary Syndrome: **Savale, L.; Hervé, P.; Sitbon, O.**
Pulmonary Hypertension in Congenital Heart Diseases: **Tissot, C.; Beghetti, M.**
Pulmonary Hypertension in Sickle Cell Disease: **Parent, F.; Savale, L.; Maitre, B.; Simonneau, G.**
Schistosomiasis and Pulmonary Hypertension: **Fernandes, C.J.C.; Jardim, C.; Hovnanian, A.; Hoette, S.; Morinaga, L.K.; Souza, R.**
Pulmonary Veno-Occlusive Disease: **Montani, D.; Huertas, A.; Dorfmueller, P.; Humbert, M.**
Pulmonary Hypertension and Left Heart Disease: **Adir, Y.; Galè, N.**
Pulmonary Hypertension in Chronic Obstructive Pulmonary Disease: **Weitzenblum, E.;**

Chaouat, A.; Canuet, M.; Ducloné, A.; Kessler, R.
Pulmonary Hypertension Complicating Interstitial and Granulomatous Lung Diseases: **Nunes, H.; Uzunhan, Y.; Gille, T.; Dauriat, G.; Brauner, M.; Kambouchner, M.; Valeyre, D.**
High-Altitude Pulmonary Hypertension: **Di, R.-M.; Jing, Z.-C.**
Acute Pulmonary Venous Thromboembolic Disease: **Sanchez, O.; Meyer, G.**
Anticoagulation for Venous Thromboembolism in the Modern Management Era: **Le Gal, G.; Leroyer, C.; Mottier, D.**
Chronic Thromboembolic Pulmonary Hypertension: **Lang, I.M.; Jais, X.**
Medical Treatment of Pulmonary Arterial Hypertension: **O'Callaghan, D.S.; Gaine, S.P.**
Lung Transplantation and Role for Novel Extracorporeal Support in Pulmonary Hypertension: **Hooper, M.M.**
Atrial Septostomy: **Vachiéry, J.-L.**
Pulmonary Vascular Disorders in Hereditary Hemorrhagic Telangiectasia: **Cottin, V.; Khouatra, C.; Dupuis-Girod, S.; Cordier, J.-F.**
Future Perspectives in Pulmonary Arterial Hypertension: **Rubin, L.J.**

Author and Subject Index

www.karger.com/prer

KARGER

K112200

Progress in Respiratory Research, Vol. 41
Series Editor: Bolliger, C.T. (Cape Town)
ISSN 1422-2140 / e-ISSN 1662-3932

Pulmonary Vascular Disorders

Editors: Humbert, M. (Clamart); Souza, R. (Sao Paulo); Simonneau, G. (Clamart)
X + 290 p., 82 fig., 21 in color, 45 tab., hard cover, 2012
CHF 212.- / EUR 177.- / USD 249.00
Prices subject to change
EUR price for Germany, USD price for USA only
ISBN 978-3-8055-9914-6
e-ISBN 978-3-8055-9915-3



Please send: ____ copy/ies

Postage and handling free with prepayment

ORDER FORM

Payment:

Please charge to my credit card
 American Express Diners
 MasterCard Visa

Card No.: _____

Exp. date: _____

CVV/CVC _____

(3 digits in the signature field on the back of Visa and MasterCard)

Check enclosed Please bill me

Orders may be placed with any bookshop, subscription agency, directly with the publisher or through a Karger distributor.

Fax: +41 61 306 12 34

S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)
E-Mail orders@karger.ch, www.karger.com

Name/Address: _____

Date: _____

Signature: _____