

The Journal of Nutritional Biochemistry (JNB) is an international journal devoted to advancements in nutrition science. Its major focus is on investigations about nutrients that overlap with the areas of biochemistry molecular biology, neurochemistry, toxicology, and pharmacology. For details concerning the preparation of manuscripts see Information for Authors, which is published in each issue of the journal.

JNB: *Journal of Nutritional Biochemistry* (ISSN: 0955-2863) is published monthly by Elsevier, 360 Park Avenue South, New York, NY 10010-1710. Business Office: 1600 John F. Kennedy Blvd., Suite 1800, Philadelphia, PA 19103-2899. Editorial Office: 360 Park Avenue South, New York, NY 10010-1710. Accounting and Circulation Offices: 11830 Westline Industrial Drive, St. Louis, MO 63146. Periodicals postage paid at New York, NY and additional mailing offices.

POSTMASTER: Send address changes to JNB: *Journal of Nutritional Biochemistry*, Elsevier Periodicals Customer Service, 11830 Westline Industrial Drive, St. Louis, MO 63146.

Subscription Rates (2009): Institutional price: US\$1,703.00; Personal price: US\$328.00; Prices include postage and are subject to change without notice. Claims for missing issues can be honored only up to three months for domestic addresses, six months for foreign addresses. Duplicate copies will not be sent to replace one undelivered through failure to notify Elsevier of change of address. Single copy and back volume information available upon request.

Customer service (orders, claims, online, change of address): Elsevier Periodicals Customer Service, 11830 Westline Industrial Drive, St. Louis, MO 63146. Tel: (800) 654-2452 (U.S. and Canada); (314) 453-7041 (outside U.S. and Canada). Fax: (314) 523-5170. E-mail: JournalsCustomerService-usa@elsevier.com (for print support); JournalsOnlineSupport-usa@elsevier.com (for online support).

Reprints: For copies of 100 or more of articles in this publication, please contact the Commercial Reprints Department, Elsevier Inc., 360 Park Avenue South, New York, NY 10010-1710. Tel: (212) 633-3813 Fax: (212) 633-1935 e-mail: reprints@elsevier.com or visit www.elsevierreprints.com.

© 2008 Elsevier Inc. All rights reserved.

This journal and the individual contributions contained in it are protected under copyright by Elsevier Inc. and the following terms and conditions apply to their use:

Photocopying: Single photocopies of single articles may be made for personal use as allowed by national copyright laws. Permission of the publisher and payment of a fee is required for all other photocopying, including multiple or systematic copying, copying for advertising or promotional purposes, resale, and all forms of document delivery. Special rates are available for educational institutions that wish to make photocopies for non-profit educational classroom use.

Permission may be sought directly from Elsevier's Global Rights Department in Oxford, UK; phone: 215-239-3804 or +44 (0) 1865 843830, fax: +44 (0) 1865 853333, e-mail: healthpermissions@elsevier.com. Requests may also be completed online via the Elsevier homepage (<http://www.elsevier.com/permissions>).

In the USA, users may clear permissions and make payments through the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923, USA; Tel: (978) 750 8400, Fax: (978) 750-4744, and in the UK through the Copyright Licensing Agency Rapid Clearance Service (CLARCS), 90 Tottenham Court Road, London W1P 0LP, UK; Tel: (+44) 171 436 5931; Fax: (+44) 171 436 3986. Other countries may have a local reprographic rights agency for payments.

Derivative Works: Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the publisher is required for resale or distribution outside the institution.

Permission of the publisher is required for all other derivative works, including compilations and translations.

Electronic Storage or Usage: Permission of the publisher is required to store or use electronically any material contained in this journal, including any article or part of an article. Contact the publisher at the address indicated.

Except as outlined above, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the publisher.

Address permissions requests to: Elsevier Inc. Rights & Permissions Department, at the mail, fax and e-mail addresses noted above.

Notice: No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Because of rapid advances in the medical sciences, in particular, independent verification of diagnoses and drug dosages should be made.

Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

© This paper meets the requirements of ANSI Standard Z39.48-1992 (Permanence of Paper).

The Journal of Nutritional Biochemistry

Volume 19, Number 12, December 2008

CONTENTS

REVIEWS: CURRENT TOPICS

- 787** The potential for treatment with dietary long-chain polyunsaturated n-3 fatty acids during chemotherapy
Patricia D. Biondo, David N. Brindley, Michael B. Sawyer, Catherine J. Field

RESEARCH ARTICLES

- 797** Cytotoxic effects of digalloyl dimer procyanidins in human cancer cell lines
Lucas Actis-Goretta, Leo J. Romanczyk, Carla A. Rodriguez, Catherine Kwik-Urbe, Carl L. Keen
- 809** Dehydroepiandrosterone prevents age-associated alterations, increasing insulin sensitivity
Juana Sánchez, Fátima Pérez-Heredía, Teresa Priego, María P. Portillo, Salvador Zamora, Marta Garaulet, Andreu Palou
- 819** Protective effects of genistein on proinflammatory pathways in human brain microvascular endothelial cells
Yong W. Lee, Won H. Lee
- 826** Biotinyl-methyl 4-(amidomethyl)benzoate is a competitive inhibitor of human biotinidase
Keyna A. Kobza, Kittichai Chaiseeda, Gautam Sarath, James M. Takacs, Janos Zempleni
- 833** Soy protein hydrolysate ameliorates cardiovascular remodeling in rats with L-NAME-induced hypertension
Hsin-Yi Yang, Suh-Ching Yang, Shu-Tzu Chen, Jiun-Rong Chen
- 840** Tea catechins enhance the mRNA expression of uncoupling protein 1 in rat brown adipose tissue
Sachiko Nomura, Takashi Ichinose, Manabu Jinde, Yu Kawashima, Kaoru Tachiyashiki, Kazuhiko Imaizumi
- 848** Pomegranate polyphenols down-regulate expression of androgen-synthesizing genes in human prostate cancer cells overexpressing the androgen receptor
Mee Young Hong, Navindra P. Seeram, David Heber
- 856** Carbohydrate restriction and dietary cholesterol distinctly affect plasma lipids and lipoprotein subfractions in adult guinea pigs
Moises Torres-Gonzalez, Jose O. Leite, Jeff S. Volek, John H. Contois, Maria Luz Fernandez