The Journal of Nutritional Biochemistry (JNB) is an inter-The Journal of Nutritional Biochemistry (JNB) is an inter-national 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, JND 1010 1710 Parings (Office) 1600 John E. Mynedy Blad

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: 6277 Sea Harbor Drive, Orlando, FL 32887-4800. 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, 6277 Sea Harbor Drive, Orlando, FL 32887-4800.

Subscription Rates (2008): Institutional price: US\$1,735.00; Personal price: US\$1,400; 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, 6277 Sea Harbor Drive,
Orlando, Fl. 23887-4800. Tel: (800) 654-2452 (U.S. and Canada);
(407) 563-6020 (outside U.S. and Canada). Fax: (800) 225-6030
(U.S. and Canada), (407) 563-8521 (outside U.S. and Canada). E-mail:

(U.S. and Canada); (407) 563-8521 (outside U.S. and Canada). E-mail: JournalsCustomerService-usa@elsevier.com.

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) 633-3820 e-mail: reprints@elsevier.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.

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 WIP 0LP, UK: Tel: (444) 171 436 5931; Fax: (+44) 171 436 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 con-

tents 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 deriv-

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.

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.

manufacturer.

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

The Journal of

Nutritional Biochemistry

Volume 19, Number 10, October 2008

CONTENTS

REVIEWS: CURRENT TOPICS

643 The possible roles of food-derived bioactive peptides in reducing the risk of cardiovascular disease Kati Erdmann, Belinda W.Y. Cheung, Henning Schröder

RESEARCH ARTICLES

- 655 Echium oil reduces plasma lipids and hepatic lipogenic gene expression in apoB100-only LDL receptor knockout mice Ping Zhang, Elena Boudyguina, Martha D. Wilson, Abraham K. Gebre, John S. Parks
- 664 Atherosclerotic lesion formation and triglyceride storage in obese apolipoprotein Al-deficient mice Michelle R. Plummer, Alyssa H. Hasty
- 674 Regulation of ornithine aminotransferase gene expression and activity by all-transretinoic acid in Caco-2 intestinal epithelial cells Christopher M. Dekaney, Guoyao Wu, Yu-Long Yin, Laurie A. Jaeger
- Effects of soy protein and isoflavone on hepatic fatty acid synthesis and 682 oxidation and mRNA expression of uncoupling proteins and peroxisome proliferator-activated receptor γ in adipose tissues of rats Yoko Takahashi, Takashi Ide
- Blueberry prevents bone loss in ovariectomized rat model of 694 postmenopausal osteoporosis Latha Devareddy, Shirin Hooshmand, Julie K. Collins, Edralin A. Lucas, Sheau C. Chai, Bahram H. Arjmandi
- Endothelium-dependent vasorelaxation effect of rutin-free tartary buckwheat 700 extract in isolated rat thoracic aorta Yusuke Ushida, Toshiro Matsui, Mitsuru Tanaka, Kiyoshi Matsumoto, Hirokazu Hosoyama, Atsuhiro Mitomi, Yuko Sagesaka, Takami Kakuda
- 708 Long-term effects of tripeptide Ile-Pro-Pro on osteoblast differentiation Minna M. Huttunen, Minna Pekkinen, Mikael E.B. Ahlström, Christel J.E. Lamberg-Allardt
- 716 Calendar