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.

The Journal of Nutritional Biochemistry is published monthly by Elsevier Inc., 360 Park Avenue South, New York, NY 10010-1710.

Subscription Pates (2005): Institutional price: ISS\$16.00. The Journal of Nutritional Biochemistry (JNB) is an inter-

Subscription Rates (2005): Institutional price: US\$916.00 for all countries except Europe and Japan: JPY 108,700 for Japan; EUR 820 for European countries. Personal price: Japan; EUR 820 for European countries. Personal price: US\$244.00 for all countries except Europe and Japan; PY 28,900 for Japan; EUR 217 for European countries. Prices include postage and are subject to change without notice. For additional information contact Elsevier, Journals Customer Service, 6277 Sea Harbor Drive, Orlando, FL 32887-4800. USA, US Toll Free Tel.: 1-877-839-7126, Toll Free (for customers outside the US): 1-407-345-4020, Fax: 1-407-363-1354, E-mail: usjcs@elsevier.com. 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. Periodicals postage paid at New York, NY and at additional offices.

POSTMASTER: Send address changes to The Journal of Nutritional Biochemistry, Journals Customer Service, 6277 Sea Harbor Drive, Orlando, FL 32887-4800 USA.

(For Post Office use only: Volume 16 issue 3 of 12.)

Sea Harbor Drive, Orlando, FL 3288/-4800 USA.

(For Post Office use only: Volume 16 issue 3 of 12.)

Orders, claims, and journal enquiries: please contact the Customer Service Department at the Regional Sales Office nearest you: Orlando: Elsevier, Customer Service Department, 6277 Sea Harbor Drive, Orlando, FL 32887-4800, USA; phone: (+1) (877) 8397126 [toll free number for US customers], or (+1) (407) 3454020 [customers outside US]; fax: (+1) (407) 3631354; e-mail: usjcs@elsevier.com Amstardam; Elsevier, Customer Service, Department, PO Box fax: (+1) (407) 3631354; e-mail: usjcs@elsevier.com Amsterdam: Elsevier, Customer Service Department, PO Box 211, 1000 AE Amsterdam. The Netherlands; phone: (+31) (20) 4853757; fax: (+31) (20) 4853432; e-mail: nlinfo-f@elsevier.com Tokyo: Elsevier, Customer Service Department, 4F Higashi-Azabu, 1-Chome Bldg, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5037; fax: (+81) (3) 5561 5047; e-mail: jp.info@elsevier.com Singapore: Elsevier, Customer Service Department, 3 Killiney Road, #08-01 Winsland House I, Singapore 239519; phone: (+65) 63490722; fax: (+65) 67331510; e-mail: signifo@elsevier.com

Road, 700-01 winstand rhouse I, Singapore 2393175, pinote. (496) 67331510; e-mail: asiainfo@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.

© 2005 Elsevier Inc. All rights reserved.

This journal and the individual contributions contained in it are protected under copyright by Elsevier Inc. and the follow-

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.

Permissions may be sought directly from Health Science Rights

Permissions may be sought directly from Health Science Rights Department, Elsevier Inc., 170 S. Independence Mall W 300 E, Philadelphia, PA 1910-6-3399, USA; Tel: (+1) 215-238-7869; Fax: (+1) 215-238-2239; e-mail: healthpermission@elsevier.com. You

(+1) 215-238-2239; e-mail: healthpermission@elsevier.com. You may also contact Rights & Permissions directly through Elsevier's home page (http://www.elsevier.nl), selecting first 'Customer Support', then 'General Information', then 'Permissions Query Form'. 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: (+44) 171 436 5931; Fax: (+44) 171 436 3986 Other countries may have a local perporarable rights agency. 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 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.

Notice: No responsibility is assumed by the Publisher for 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 16, Number 3, March 2005

CONTENTS

REVIEWS: CURRENT TOPICS

- Beneficial effects of intermittent fasting and caloric restriction on the cardiovascular and cerebrovascular systems Mark P. Mattson, Ruigian Wan
- 138 Leptin treatment during lactation increases transfer of iodine through the milk Márcia Clements Lins, Magna Cottini Fonseca Passos, Patrícia Cristina Lisboa, Isabela Teixeira Bonomo, Egberto Gaspar de Moura
- 144 Effectiveness of moderate green tea consumption on antioxidative status and plasma lipid profile in humans Daniela Erba, Patrizia Riso, Alessandra Bordoni, Paola Foti, Pier Luigi Biagi, Giulio Testolin
- 150 Insulin-dependent glycogen synthesis is delayed in onset in the skeletal muscle of food-deprived aged rats Dominique Meynial-Denis, Ahmed Miri, Guy Bielicki, Michelle Mignon, Jean-Pierre Renou, Jean Grizard
- 155 Quercetin decreases the expression of ErbB2 and ErbB3 proteins in HT-29 human colon cancer cells Woo K. Kim, Myung H. Bang, Eul S. Kim, Nam E. Kang, Kyeong C. Jung, Han J. Cho, Jung H.Y. Park
- 163 The effect of fish oil on physical aggression in schoolchildren — a randomized, double-blind, placebo-controlled trial Miho Itomura, Kei Hamazaki, Shigeki Sawazaki, Makoto Kobayashi, Katsutoshi Terasawa, Shiro Watanabe, Tomohito Hamazaki
- Modulation effect of tea polyphenol toward N-methyl-N'-nitro-N-172 nitrosoguanidine-induced precancerous gastric lesion in rats Yuying Mei, Dongzhi Wei, Jianwen Liu
- Trans fatty acids alter the lipid composition and size of apoB-100-containing 178 lipoproteins secreted by HepG2 cells Susan Hazels Mitmesser, Timothy P. Carr
- 184 Comparison of stearidonic acid and α -linolenic acid on PGE₂ production and COX-2 protein levels in MDA-MB-231 breast cancer cell cultures Eva Horia, Bruce A. Watkins

This journal is indexed in BIOSIS; Current Awareness in Biological Sciences; Scisearch; Science Citation Index; Research Alert; EMBASE/Excerpta Medica; Medline; PubMed; and Current Contents.