

FLUORIDE

QUARTERLY JOURNAL OF THE INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH

<http://homepages.ihug.co.nz/~spittle/fluoride-journal.htm>

<http://www.fluoride-journal.com> (courtesy Elke Babiuk)

Editor:

Prof Emeritus Albert Burgstahler, Lawrence, Kansas, USA
E-mail: awburg@ku.edu

Managing Editor:

Dr Bruce Spittle, Dunedin, New Zealand
E-mail: spittle@es.co.nz

Associate Editors

Prof Emeritus Lennart Krook, Ithaca, New York, USA
Prof Emeritus Niloufer Chinoy, Ahmedabad, India
Prof Emeritus Gene Miller, Logan, Utah, USA

Dr Richard Foulkes, Abbotsford, BC, Canada
Prof Hardy Limeback, Toronto, Ontario, Canada
Prof Emeritus Ming-Ho Yu, Bellingham, WA, USA

BOOK REVIEW EDITORIAL

- 55–59..... PUBLIC DECEPTION ON FLUORIDE
Richard G Foulkes. Abbotsford, BC, Canada

RESEARCH REPORTS

- 60–70..... BENEFICIAL EFFECTS OF CERTAIN ANTIDOTES IN MITIGATING
FLUORIDE AND/OR ARSENIC INDUCED HEPATOTOXICITY IN MICE
SB Nair, DD Jhala, NJ Chinoy. Ahmedabad, India
- 71–79..... REVERSIBLE TOXICITY OF FLUORIDE AND ARSENIC IN OVARY OF
MICE
DD Jhala, SB Nair, NJ Chinoy. Ahmedabad, India
- 80–87..... BIOCHEMICAL EFFECTS OF SODIUM FLUORIDE AND ARSENIC
TRIOXIDE TOXICITY AND THEIR REVERSAL IN THE BRAIN OF MICE
NJ Chinoy, SD Shah. Ahmedabad, India
- 88–95..... FLUORIDE AND ALUMINIUM TOLERANCE IN PLANKTONIC
MICROALGAE
Gamila Ali. Cairo, Egypt
- 96–101..... EFFECTS OF CHRONIC FLUOROSIS ON ELECTROCARDIOGRAM IN
DOGS
D Kilicalp, A Cinar, F Belge. Van, Turkey
- 102–106..... SERUM COPPER, ZINC, MANGANESE, AND MAGNESIUM STATUS OF
SUBJECTS WITH CHRONIC FLUOROSIS
I Meral, H Demir, H Gunduz, N Mert, I Dogan. Van, Turkey
- 107–116..... ANTAGONISTIC EFFECT OF SELENIUM ON OXIDATIVE STRESS, DNA
DAMAGE, AND APOPTOSIS INDUCED BY FLUORIDE IN HUMAN
HEPATOCYTES
Aiguo Wang, Tao Xia, Rian Ru, Jing Yuan, Xuemin Chen, Kedi Yang.
Wuhan, China

- 117–124..... BIOCHEMICAL EFFECTS OF FLUORIDE ON HAEMOLYMPH OF THE SILKWORM, *BOMBYX MORI* L.
Yun-gen Miao, Li-jun Jiang, D. Bharathi. Hangzhou, PR China, and Andhra Pradesh, India
- 125–132..... FLUORINE IN CHINESE COALS
Daishe Wu, Baoshan Zheng, Xiuyi Tang, Shehong Li, Binbin Wang, Mingshi Wang. Guiyang, China
- 133–142..... EFFECT OF FLUORIDE INGESTED BY LACTATING MICE ON THE THYROID FUNCTION AND BONE MATURATION OF THEIR SUCKLING PUPS
Hanen Bouaziz, Emna Ammar, Hela Ghorbel, Sabeur Ketata, Kamel Jamoussi, Fatma Ayadi, Fadhel Guermazi, Najiba Zeghal. Sfax, Tunisia

ABSTRACTS

HEALTH/BIOLOGICAL EFFECTS

- 143–144..... HISTOPATHOLOGICAL AND BIOCHEMICAL CHANGES IN LUNG TISSUES OF RATS FOLLOWING ADMINISTRATION OF FLUORIDE OVER SEVERAL GENERATIONS
Aydin G, Cicek E, Akdogan M, Goekalp O. Isparta, Turkey
- 144–145..... EFFECTS OF FLUORIDE AND MERCURY ON HUMAN CYTOKINE RESPONSE *IN VITRO*
G. de Vos, E. Jerschow, Z. Liao, D. Rosenstreich. New York, USA
- 145 FLUORIDE CONTENT IN BONES OF ADELIE PENGUINS AND ENVIRONMENTAL MEDIA IN ANTARCTICA
Xie Z, Sun L. Hefei, Anhui, PR China

DENTAL EFFECTS

- 145–146..... EFFECT OF DRINKING WATER CHANGES UPON DENTAL FLUOROSIS
Ruan JP, Liu ZQ, Song JL, Bjorvatn K, Ruan MS. Xi'an, China

ANNOUNCEMENT

- 146 FIRST ANNOUNCEMENT: XXVITH CONFERENCE OF THE INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH

INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH
Officers and Editorial Board Members – 2004

President:

Professor Koichi Kono, Osaka Medical College, Osaka, Japan

Vice President:

Professor Emeritus NJ Chinoy, Gujarat University, Ahmedabad, India

Second Vice President:

Professor Jörg Spitz, Department of Nuclear Medicine, Wiesbaden, Germany

Secretary:

Professor Emeritus Ming-Ho Yu, Western Washington University, Bellingham, WA, USA

Treasurer:

Dr Bruce Spittle, 727 Brighton Road, Ocean View, Dunedin 9051, New Zealand

Editorial Board:

Dr Miklos Bély, Hungarian Academy of Science, Budapest, Hungary
Prof Emeritus AW Burgstahler, University of Kansas, Lawrence, KS, USA
Prof Shouren Cao, Chinese Academy of Preventive Medicine, Beijing, China
Prof Masahiko Chikuma, Osaka University of Pharmaceutical Sciences, Osaka, Japan
Prof Emeritus NJ Chinoy, Gujarat University, Ahmedabad, India
Prof Edward Czerwinski, Jagiellonian University, Kraków, Poland
Dr Mark Diesendorf, Ins. of Environ. St., University of New South Wales, Sydney, Australia
Dr Richard G Foulkes, Abbotsford, BC, Canada
Prof J Franke, Heinrich Mann Hospital, Bad Liebenstein, Germany
Asst Prof Toshitaka Horiuchi, Nihon University School of Dentistry at Matsudo, Japan
Assoc Prof Kazuyoshi Itai, Iwate Medical University, Morioka, Iwate, Japan
Prof Emeritus G Neil Jenkins, Newcastle-upon-Tyne, England, UK
Prof K Kono, Osaka Medical College, Osaka, Japan
Prof Jerzy Krechniak, Medical University, Gdańsk, Poland
Dr KAVR Krishnamachari, National Institute of Nutrition, Hyderabad, India
Prof Emeritus Lennart Krook, Cornell University, Ithaca, NY, USA
Prof Hardy Limeback, University of Toronto, Toronto, ON, Canada
Prof Emeritus C James Lovelace, Humboldt State University, Arcata, CA, USA
Dr Boguslaw Machalinski, Pomeranian Academy of Medicine, Szczecin, Poland
Prof Emeritus Zygmunt Machoy, Pomeranian Medical Academy, Szczecin, Poland
Prof Emeritus Gene W Miller, Utah State University, Logan, UT, USA
Prof F Murray, Murdoch University, Murdoch, WA, Australia
Prof Masayuki Okazaki, Hiroshima University, Hiroshima, Japan
Dr James C Pushnik, California State University, Chico, CA, USA
Dr BP Rajan, Madras Dental College, Madras, India
Prof Masashi Shimahara, Osaka Medical College, Takatsuki City, Osaka, Japan
Dr Bruce Spittle, 727 Brighton Road, Ocean View, Dunedin 9051, New Zealand
Prof Jörg Spitz, Dept. of Nuclear Medicine, Wiesbaden, Germany
Prof Anna Strunecká, Charles University, Prague, Czech Republic
Prof Guifan Sun, China Medical University, Shenyang, China
Prof Emeritus AK Susheela, Fluorosis Res & Rural Develop Foundation, New Delhi, India
Prof Emeritus SPS Teotia, Institute of Higher Medical Sciences, Whitefield, India
Prof Emeritus H Tsunoda, Iwate Medical University, Morioka, Japan
Assoc Prof Masashi Tsunoda, Fukushima Medical University, Fukushima, Japan
Prof Emeritus Zan-Dao Wei, Guiyang Medical College, Guizhou, China
Prof Emeritus Y Yoshida, Osaka Medical College, Osaka, Japan
Prof Emeritus NBK Yoshitake, Shiga University of Medical Science, Otsu, Japan
Prof Emeritus Ming-Ho Yu, Western Washington University, Bellingham, WA, USA

FLUORIDE, ISSN 0015-4725, is published quarterly by the International Society for Fluoride Research (ISFR) and contains scientific reports on analytical, biological, biochemical, biomedical, chemical, clinical, dental, ecological, environmental, epidemiological, industrial, and toxicological aspects of inorganic and organic fluorides. An endeavour is made to publish in February, May, August, and November but, being dependent on a volunteer workforce, delays are not unknown.

ONLINE ACCESS. The ISFR website at: <http://homepages.ihug.co.nz/~spittle/fluoride-journal.htm> has the 35 year Cumulative Author and Subject Indexes, together with the most recent research report summaries. The cumulative indexes, the tables of contents of past issues, and the full text of some issues are also available, courtesy of Elke Babiuk, at: <http://www.fluoride-journal.com>.

SUBSCRIPTION & MEMBERSHIP FEE for the year 2004, payable in advance, is: US\$40, £25, ¥4000, or €40, with a subscription agency discount of 12.5%. For subscribers, for 2004, in Australia and New Zealand only, A\$45 and NZ\$45 respectively. Apply to Dr Spittle (E-mail: spittle@es.co.nz).

For 2005, the subscription and membership fee, payable in advance, is: US\$45, Canadian\$60, £25, ¥5000, €40, Australian\$65, New Zealand\$72, with a discount of 10% for subscription agencies and for copies posted to a New Zealand address, which incurs a lower postal cost. Subscribers and members may pay in whatever currency is most convenient for them. The rates, set (on July 20 2004) to be equivalent to NZ\$72, will be reviewed annually to take account of international currency fluctuations. The increase in the US\$ rate has been made necessary by the weakening of the US dollar. The last US\$ subscription and membership rate increase occurred in July 1993 with an increase from US\$35 to US\$50, or equivalent, for non-member subscriptions, and from US\$25 to US\$40 for members. The non-member subscription fee was subsequently reduced to US\$40 in November 2000. The Australian and New Zealand rates have been adjusted to more accurately reflect the present postal rate differences.

POSTAL METHODS USED: *Fluoride* is posted by Economy International Airmail to all countries (11-25 days for delivery) except Australia (International Air, 3-6 days) and New Zealand (Post, 2-3 days).

PAYMENT OPTIONS for the subscription to *Fluoride* or membership of the ISFR, which includes receiving *Fluoride*, are: bank transfer, cheque, cash, or PayPal. Bank transfers can be made to The Bank of New Zealand, New Lynn Branch, 3029 Great North Road, New Lynn, Auckland, New Zealand; Swift BKNZNZ22; Website: www.bnz.co.nz; Fax 64 09 827 6806; Account name: International Society for Fluoride Research; Account number 02 0184 0333239 000. Cheques should be made out to the same or to ISFR. Personal cheques, bank cheques or drafts, and cash may be posted to Dr Bruce Spittle, 727 Brighton Road, Ocean View, Dunedin 9051, New Zealand. Personal or bank cheques, and cash, in US\$, Canadian\$, £, €, Australian\$, and NZ\$ are fine. Cash as Japanese Yen is also fine. Please do not send Canadian or British Postal Notes, cheques drawn on Japanese banks, or cheques in US\$ drawn on British banks in the United Kingdom as they cannot be negotiated in New Zealand. PayPal allows payment by Visa or Mastercard directly to an E-mail address in a secure way. It is necessary to first register with PayPal at <http://paypal.com/>. The recipient E-mail address for the payment is spittle@es.co.nz. Just giving the credit card number to the ISFR is insufficient.

COPIES OF ARTICLES AND PREVIOUS ISSUES OF FLUORIDE: Copies of articles and previous issues of *Fluoride* may be ordered directly through the Managing Editor. The rates are: photocopies of articles \$5; previous issues \$10 per single copy of an issue or part of *Fluoride*; hard bound annual volumes containing the four issues for the year \$100. All prices are in US funds, or equivalent, including postage per article and are payable in advance for annual volumes. Scanned copies of articles sent by E-mail are available for US\$1 per article. PDF or Word copies of articles, sent by E-mail, from volumes 32 (1999) to 35 (2002) are available for US\$0.50 per article. In situations of financial difficulty, application may be made to the Managing Editor for waiving the fees for articles sent by E-mail. Copies of articles are also available, at rates set by the supplier, from: University Microfilms International, Box 91, Ann Arbor, MI 48106, USA; Institute for Scientific Information, 3501 Market St., Philadelphia, PA 19104, USA; BIOSIS, c/- Advanced Information Consultants, Box 87127, Canton, MI 48187, USA; The UnCover Company, 3801 E. Florida, Suite 200, Denver, CO 80210, USA.

MANUSCRIPTS, including reports of original research, papers presented at ISFR conferences, research reviews, discussion papers, and letters to the Editor, are accepted for publication after appropriate evaluation and recommendation by qualified reviewers.

INSTRUCTIONS TO AUTHORS: The initial version of the manuscript, double-spaced throughout with wide margins, should be submitted, as a Word attachment by E-mail, to Prof Emeritus AW Burgstahler, Editor, *Fluoride*, 1620 Massachusetts Street, Lawrence, KS 66044-4254, USA (E-mail: awburg@ku.edu). If submission is by post, please send two copies, without a computer disc. Detailed instructions for preparing papers are in *Fluoride* 2003;36:73-8 and at:

<http://homepages.ihug.co.nz/~spittle/fluoride-journal.htm>.

MEMBERSHIP: Researchers and others interested in fluoride research are invited to join the ISFR. Application forms are available at: <http://homepages.ihug.co.nz/~spittle/fluoride-journal.htm> and should be sent to the Secretary: Prof Emeritus Ming-Ho Yu, 215 Bayside Road, Bellingham, WA 98225-7700, USA (E-mail: mhyu@cc.wvu.edu). The membership fee is the same as the subscription fee and includes receiving *Fluoride*.

COMPLIMENTARY COPIES: Donors wishing to fund gift copies, which will be suitably inscribed, are invited to contact Dr Spittle (E-mail: spittle@es.co.nz); 727 Brighton Rd, Dunedin 9051, New Zealand.