# **FLUORIDE**

# Quarterly Journal of The International Society for Fluoride Research Inc.

www.fluorideresearch.org

www.fluorideresearch.com

www.fluorideresearch.net

Owned & published by The International Society for Fluoride Research Incorporated © 2016. All rights reserved.

### Editor-in-Chief:

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

### Regional Editor for Africa:

Professor Eli Dahi. Ngongongare, Tanzania. E-mail: elidahi@hotmail.com

### Regional Editor for Eastern Europe:

Professor Dariusz Chlubek. Department of Biochemistry and Chemistry, Pomeranian Medical University, Szczecin, Poland. E-mail:dchlubek@sci.pum.edu.pl

# Regional Editors for India:

For papers on all aspects of fluoride: Dr Shanti Lal Choubisa. Udaipur-313001, Rajasthan, India. E-mail:

choubisasl@yahoo.com
For public health based papers: Professor Vikas K Desai. Community Medicine Department, Government Medical College (GMCS), Majura Gate, Surat, Gujarat, India – 395005. E-mail: psmvikas@hotmail.com

### Regional Editor for Latin America, including Mexico, Central America, and Cuba:

Dr Alfredo Rigalli, Rosario, Argentina, E-mail: arigalli@unr.edu.ar and arigalli@conicet.gov.ar

# Regional Editor for the Middle East:

Dr Amir Hossein Mahvi. Department of Environmental Health Engineering, School of Public Health and Institute for Environmental Research, Tehran University of Medical Sciences, Tehran, Iran. E-mail: ahmahvi@yahoo.com

# Regional Editor for Pakistan and Afghanistan:

Dr Muhammad Nauman Ahmad. Department of Agricultural Chemistry, The University of Agriculture, Peshawar, Pakistan. E-mail: drnumanahmad@aup.edu.pk

### Regional Editors for People's Republic of China:

Professor Yanhui Gao. Director of the Institute for Endemic Fluoride Control, Center for Endemic Disease Control, China CDC. E-mail: goayh411@163.com Professor Zhi-Zhong Guan. Department of Pathology and Key Laboratory of Molecular Biology in Guiyang Medical

University, Guiyang, PR China. E-mail: zhizhongguan@yahoo.com

### Associate Editors:

Professor Emeritus Hardy Limeback. University of Toronto, Toronto, ON, Canada. Professor Emeritus Gene W Miller. Utah State University, Logan, UT, USA.

Christopher Neurath. American Environmental Health Studies Project, Lexington, MA, USA.
Associate Professor Jashwanti D Sharma. Department of Zoology, University of Rajasthan, Jaipur, India.
Professor Dianjun Sun. Chinese Research Center for Endemic Disease Control, Harbin Medical University, Harbin, China.

Professor Emeritus AK Susheela. Fluorosis Research & Rural Development Foundation, Delhi, India.

Associate Professor Masashi Tsunoda. Kitasato University School of Medicine, Sagamihara, Japan. Professor Emeritus Ming-Ho Yu. Western Washington University, Bellingham, WfA, USA.

### **Editorial Assistant:**

Peter Meiers. Saarbrücken, Germany.

Fluoride is available as a free online open access journal at www.fluorideresearch.org and the articles can be accessed by clicking on the boxes below the titles in the online table of contents for the smallest file size and press quality PDF versions, respectively.

# RESEARCH REVIEWS

279-292...... ANIMALS IN BIOMONITORING STUDIES OF ENVIRONMENTAL FLUORIDE **POLLUTION** 

> Mirona Palczewska-Komsa, Aleksandra Wilk, Anna Stogiera, Dariusz Chlubek, Jadwiga Buczkowska-Radlińska, Barbara Wiszniewska. Szczecin, Poland.

> > smallest file size PDF

press quality PDF

293-302...... RESPONSES OF PLANTS TO FLUORIDE: AN OVERVIEW OF OXIDATIVE STRESS AND DEFENSE MECHANISMS

Bhumika Yadu, Vibhuti Chandrakar, S Keshavkant. Raipur, India.

smallest file size PDF

press quality PDF

## RESEARCH REPORTS

303–312..... ALLEVIATING PROPERTIES OF STRAWBERRY FRUIT PULP EXTRACT ON FLUORIDE-INDUCED FETAL ANOMALIES IN MICE Muhammad A Kanwal, Khawaja R Ahmad, Tahir Abbas, Kausar Raees, Sadia Suleman, Khalida Jabeen. Sargodha, Pakistan.

smallest file size PDF

press quality PDF

ii

Table of contents Fluoride 49(3 Pt 2):i-ii July-September 2016

313-326...... SIMILAR 1-YEAR CARIES INCREMENT AFTER USE OF FLUORIDE OR NON-FLUORIDE TOOTHPASTE IN INFANTS AND TODDLERS Palinee Detsomboonrat, Chutima Trairatvorakul,

Pagaporn Pantuwadee Pisarnturakit, Bangkok, Thailand.

smallest file size PDF

press quality PDF

327-335...... INSULIN SIGNALLING AND OXIDATIVE STRESS IN THE MECHANISM UNDERLYING STREPTOZOTOCIN AGGRAVATED DENTAL FLUOROSIS Jingchun Sun, Yan Wang, Xiuhua Yu, Hui Xu. Changchun, People's Republic of China.

smallest file size PDF

press quality PDF

336-342..... ADVANCED OXIDATION PROTEIN PRODUCTS (AOPP) LEVELS AND KIDNEY FUNCTION IN FLUOROTIC SHEEP Handan Mert, Bahat Comba, Nihat Mert, Ali Çinarb, Betul Apaydin. Van. Turkev.

smallest file size PDF

press quality PDF

343-351...... ISOTHERM AND KINETIC STUDIES ON FLUORIDE BIOSORPTION FROM AQUEOUS SOLUTION BY USING CUTTLEBONE OBTAINED FROM THE PERSIAN GULF Mozhgan Keshtkar, Sina Dobaradaran, Iraj Nabipour, Amir Hossein Mahvi, Fatemeh Faraji Ghasemi, Zohre Ahmadi, Maria Heydari. Bushehr and Tehran, Iran.

smallest file size PDF

press quality PDF

352-356...... FLUORIDE CONTENT OF POPULAR PERSIAN HERBAL DISTILLATES Farshid Soleimani, Sina Dobaradaran, Amir Hossein Mahvi, Vahid Noroozi Karbasdehi, Mozhgan Keshtkar, Abdolhamid Esmaili. Bushehr and Tehran, Iran.

smallest file size PDF

press quality PDF

357-365..... ADAPTIVE BIOCHEMICAL RESPONSES OF PUNICA GRANATUM TO ATMOSPHERIC **FLUORIDE POLLUTION** Nada Elloumi, Afef Ben Amor, Mohamed Zouari, Dalel Belhaj,

Ferjani Ben Abdallah, Monem Kallel.

Sfax, Tunisia, and Limoges, France.

smallest file size PDF

press quality PDF

366-372..... EFFECTS OF IRRIGATION WATER FLUORIDE ON RELATIVE WATER CONTENT, PHOTOSYNTHETIC ACTIVITY, AND PROLINE ACCUMULATION IN YOUNG OLIVE TREES (OLEA EUROPAEA L. CV CHEMLALI) IN ARID ZONES Mohamed Zouari, Chedlia Ben Ahmed, Nada Elloumi, Bechir Ben Rouina, Pascal Labrousse, Ferjani Ben Abdallah. Sfax, Tunisia, and Limoges, France.

smallest file size PDF

press quality PDF

## INSTRUCTIONS FOR AUTHORS, GENERAL INFORMATION ABOUT FLUORIDE AND THE INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH

Instructions for authors and general information about Fluoride and the International Society of Fluoride Research are available in Fluoride 2016;49(1):iii-vi and at www.fluorideresearch.org.