

# FLUORIDE

Quarterly Journal of The International Society for Fluoride Research Inc.

[www.fluorideresearch.online](http://www.fluorideresearch.online)

Owned & published by THE INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH INCORPORATED © 2020. All rights reserved.

**Editor-in-Chief:**

Dr Bruce J Spittle. Dunedin, New Zealand. E-mail: [spittle727@gmail.com](mailto:spittle727@gmail.com)

**Regional Editor for Africa:**

Professor Eli Dahi. Denmark (previously Ngongongare, Tanzania). E-mail: [elidahi@hotmail.com](mailto:elidahi@hotmail.com)

**Regional Editor for Eastern Europe:**

Professor Dariusz Chlubek. Department of Biochemistry and Chemistry, Pomeranian Medical University, Szczecin, Poland. E-mail: [dclubek@sci.pum.edu.pl](mailto:dclubek@sci.pum.edu.pl)

**Regional Editors for India, Bangladesh, Bhutan, Maldives, Myanmar, Nepal, and Sri Lanka:**

For papers on all aspects of fluoride: Dr Shanti Lal Choubisa. Emeritus Professor of Biotechnology, Department of Advanced Science & Technology, Nims University Rajasthan, Jaipur-303121, India. E-mail: [choubisasl@yahoo.com](mailto: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](mailto: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](mailto:arigalli@unr.edu.ar) and [arigalli@conicet.gov.ar](mailto: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](mailto: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](mailto: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, People's Republic of China CDC. E-mail: [goayh411@163.com](mailto:goayh411@163.com)  
Professor Zhi-Zhong Guan. Department of Pathology and Key Lab of Endemic and Ethnic Diseases (Guizhou Medical University), Ministry of Education, Guiyang Medical University, Guiyang, People's Republic of China. E-mail: [1457658298@qq.com](mailto:1457658298@qq.com)

**Associate Editors:**

Professor Emeritus Hardy Limeback. University of Toronto, Toronto, ON, Canada.  
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, People's Republic of China.  
Professor Emeritus Andezhath K Susheela. Fluorosis Research & Rural Development Foundation, Delhi, India.  
Prof. Masashi Tsunoda. Dept. of Preventive Medicine and Public Health, National Defense Medical College, Japan.

**Editorial Assistant:**

Peter Meiers. Saarbrücken, Germany.

*Fluoride* is available as a free online open access journal at [www.fluorideresearch.online](http://www.fluorideresearch.online) and the articles can be accessed by clicking on the links below the titles in the online table of contents for the smallest file size, press quality, and Epub ahead of print (press quality) PDF versions.

## IN MEMORIAM

387–401.....MING-HO YU, PhD: AN EXPERT ON ENVIRONMENTAL POLLUTION AND TOXICOLOGY  
1928–2020

A TRIBUTE TO A SCIENTIST OF INTEGRITY  
Bruce Spittle. Dunedin, New Zealand.

A TRIBUTE TO A QUIET HUMBLE GIANT WITH AN INQUISITIVE MIND WHO LOVED  
HIS STUDIES  
Christy Yu Austin. Carlsbad, California, USA.

A TRIBUTE TO A MENTOR, COLLABORATOR, AND FRIEND  
Wayne Landis. Bellingham, Washington, USA.

A TRIBUTE TO A DEDICATED RESEARCHER AND ACCOMPLISHED SCHOLAR  
Jundong Wang. Taigu, Shanxi, Peoples' Republic of China.

A TRIBUTE TO A TRUE FRIEND OF OUR FAMILY AND AN INTERNATIONAL SCIENTIST  
Masashi Tsunoda. Tokorozawa, Saitama, Japan.

**smallest file size PDF**

**press quality PDF**

**Epub ahead of print (press quality) PDF**

## EDITORIAL

402–424..... FLUORIDE AS A RISK FACTOR IN PRE-ECLAMPSIA  
Bruce Spittle. Dunedin, New Zealand.

**smallest file size PDF**

**press quality PDF**

**Epub ahead of print (press quality) PDF**

## RESEARCH REPORTS

- 425–435..... SERUM FLUORIDE LEVELS AS A BIOMARKER IN PRE-ECLAMPTIC WOMEN:  
A CASE–CONTROL TERTIARY CARE HOSPITAL BASED STUDY  
K Chandalvala, K Prabhavathi, KV Venkateshu, SR Sheela, R Kalyani, CV Raghuvver,  
P Kiranmayee. Tamaka and Deralakatte, India.  
**smallest file size PDF**      **press quality PDF**      **Epub ahead of print (press quality) PDF**
- 436–446..... EFFECTS OF FLUORIDE POLLUTION ON REPRODUCTION PHENOLOGY OF TWO  
MEDITERRANEAN PLANT SPECIES  
Asma Boukhris, Kaouthar Jeddi, Mohamed Chaieb. Sfax and Gabès, Tunisia.  
**smallest file size PDF**      **press quality PDF**      **Epub ahead of print (press quality) PDF**
- 447–456..... ANALYSIS OF ANION AND CATION RELEASE FROM GLASS IONOMER CEMENTS  
USING ION CHROMATOGRAPHY  
Bilal Ozmen. Samsun, Turkey.  
**smallest file size PDF**      **press quality PDF**      **Epub ahead of print (press quality) PDF**
- 457–468..... FLUORIDE-INDUCED ABNORMALITIES AND MODULATIONS IN GROWTH  
PARAMETERS OF *SOLANUM MELONGENA* L. (BRINJAL, BENGUN, AUBERGINE,  
EGGPLANT)  
Shakil Ahmed, Rida Ali, Madeeha Ansari, M Nauman Ahmad, Azeem Haider,  
Fareeha Jabeen. Lahore and Peshawar, Pakistan.  
**smallest file size PDF**      **press quality PDF**      **Epub ahead of print (press quality) PDF**
- 469–476..... FLUORIDE CONTENT IN DIETARY SUPPLEMENTS OF SPIRULINA (*ARTHROSPIRA*  
SPP.) FROM CONVENTIONAL AND ORGANIC CULTIVATION  
Justyna Kałduńska, Karolina Jakubczyk, Izabela Gutowska, Bartosz Dalewski,  
Katarzyna Janda. Szczecin, Poland.  
**smallest file size PDF**      **press quality PDF**      **Epub ahead of print (press quality) PDF**
- 477–482..... USE OF FLUORIDE FOR THE MEASUREMENT OF BONE REMODELLING IN RATS AND  
HUMAN BEINGS  
Maela Lupo, Melina V Neira, Maria E Chulibert, Silvina Vaquero, Mercedes Lombarte.  
Rosario, Argentina.  
**smallest file size PDF**      **press quality PDF**      **Epub ahead of print (press quality) PDF**
- 

## CANCELLATION OF XXXVTH ISFR CONFERENCE, TEHRAN, IRAN, NOVEMBER 8–9, 2020

Because of the risks to safety associated with travel and gathering in conferences during the Covid-19 pandemic, Dr Mahvi has, with reluctance, had to cancel the conference planned for Tehran, Iran, 8-9 November 2020. Dr Mahvi apologizes for the inconvenience this may cause but the paramount concern of the organizing committee was the well-being of those who were planning to attend. The 35th conference of the International Society for Fluoride Research was to have been hosted by Dr Amir Hossein Mahvi, Department of Environmental Health Engineering, School of Public Health and Institute for Environmental Research, Tehran University of Medical Sciences, in Tehran, Iran, on November 8-9, 2020. The officers who had been planning for the Conference were: Co-Presidents: Dr. Naddafi, Head of the Institute for Environmental Research, Tehran University of Medical Sciences and Dr. Akbari Sari, Head of the School of Public Health, Tehran University of Medical Sciences; Head of the Scientific Office: Dr Amir Hossein Mahvi.

Professor Dianjun Sun, Chinese Research Center for Endemic Disease Control, Harbin Medical University, Harbin, Peoples Republic of China, will host the next Conference in Harbin, Peoples Republic of China, in 2022. Dr Javed Ahsan Quadri, All India Institute of Medical Sciences, New Delhi, India, will host the following Conference in New Delhi, India, in 2024.

Bruce Spittle, Editor-in-Chief, *Fluoride*