

2020 CHEMRAWN VII Prize for Green Chemistry—Call for Nominations

IUPAC is seeking nominations for the 2020 CHEMRAWN VII Prize for Green Chemistry. The Prize of USD 5000 is to be granted to a young investigator (less than 45 years of age) from an emerging region who is actively contributing to research in Green Chemistry.

The CHEMRAWN VII Prize was first announced in August 2008 and since, has been awarded every two years at the IUPAC International Conference on Green Chemistry. The Prize has been awarded to Noureddine Yassaa (Algeria) in 2010, Rashimi Sanghi (India) in 2012, Vania G. Zuin (Brazil) in 2014, Ali Maleki (Iran) in 2016, and Mirabbos Hojamberdiev (Uzbekistan) in 2018.

Nominations for the 2020 Prize must be submitted by **31 May 2020**. Each nomination should include a CV and two letters of support, plus a brief summary of accomplishments illustrating the contributions of the applicant to research in Green Chemistry. Examples of research topics that are covered by the prize include:

- Atmospheric Chemistry
- Use of Alternative Feedstocks
- Use of Innocuous Reagents
- Employing Natural Processes
- Use of Alternative Solvents
- Design of Safer Chemicals
- Developing Alternative Reaction Conditions
- Minimizing Energy Consumption

The Selection Committee comprises the Chair of IUPAC Committee on Chemical Research Applied to World Needs, CHEMRAWN, and the Chair of the Interdivisional Committee on Green Chemistry for Sustainable Development. The Award will be presented at the 9th IUPAC International Conference on Green Chemistry, 18-22 October 2020, Athens, Greece, and where the winner will give a lecture.

<https://iupac.org/2020-chemrawn-vii-prize-for-green-chemistry-call-for-nominations/>

Green Chemistry for Life research grants

The Green Chemistry for Life research grants programme is part of the PhosAgro/UNESCO/IUPAC Partnership in Green Chemistry for Life. The grants aim to provide support for green chemistry solutions and to encourage the elaboration by young

scientists of projects that focus on the designing of sustainable products and processes that minimize or eliminate the use and generation of hazardous substances. One of the grants provides support for a research project on the use of phosphogypsum, a by-product generated in great quantities when producing phosphoric acid and phosphate fertilizers.

The **call for applications** for the 2020 Green Chemistry research grants for young scientists, including the special grant for research projects on phosphogypsum, is open until **25 April 2020**.

In 2019, seven innovative research projects were awarded to promising young scientists. The formal award-giving ceremony was held in the framework of the World Science Day for Peace and Development that took place at UNESCO headquarters in Paris (France) on 8 November 2019. The recipients of the 2019 Green Chemistry for Life grants are as follows:

Dr Sara Abdel Hamid Abdel Gaber, Institute of Nanoscience and Nanotechnology, Kafrelsheikh University, Egypt; *Phytomediated Green Synthesis of Magnetic Iron Oxide Nanoparticles for Biomedical Applications*

Dr Jesús Campos Manzano, Institute for Chemical Research (IIQ), CSIC-University of Sevilla, Spain; *Tandem Catalysis for Plastic Degradation*

Dr María Antonieta Fernández-Herrera, Laboratory of Biomolecules and Biomaterials, Department of Applied Physics, Centro de Investigación y de Estudios Avanzados, Mexico; *Development of plant growth regulators for habanero pepper from Yucatan Peninsula through an eco-friendly chemical transformation of steroidal sapogenins*

Dr Galina Kalashnikova, Nanomaterials Research Centre of the Federal Research Centre "Kola Science Centre of the Russian Academy of Sciences" (FRC KSC RAS), Russian Federation; *The development of a universal and green method for the granulation of synthetic titanosilicate materials (sorbents, catalysts, recoverable matrices) created based on end-product waste from regional ore-enrichment and metallurgical plants*

Dr Wilbert Mtangi, Institute of Materials Science, Processing and Engineering Technology, Chinhoyi University of Technology, Zimbabwe; *Hydrogen generation using chiral photoelectrodes for water splitting*

Dr Abu Ashfaqur Sajib, Laboratory of Molecular Biotechnology, Department of Genetic Engineering and Biotechnology, University of Dhaka, Bangladesh; *Novel multifunctional enzyme for biofuel production from lignocellulosic wastes*

And for the special grant for research on Phosphogypsum:

Dr Hamdy Hefny, Central Metallurgical Research and Development Institute (CMRDI), Egypt; *Utilization of Phosphogypsum for Heavy Metals Immobilization in Contaminated Soil and Extraction of Useful Materials*

<https://iupac.org/2020-green-chemistry-for-life-research-grants-for-young-scientists/>

John Macor is Awarded the 2020 IUPAC-Richter Prize

The 2020 IUPAC-Richter Prize in Medicinal Chemistry has been awarded to John Macor, PhD, Global Head Integrated Drug Discovery, Sanofi.



Dr. Macor received the award in recognition of his outstanding creative contributions in the field of medicinal chemistry research on drugs for the treatment of migraine. John's improvements to the triptan core structure fueled the discovery of an effective drug within the class that displayed superior pharmacokinetics compared to the flagship triptan drug at that time, sumatriptan. John Macor is a co-discoverer of two advanced clinical candidates within a new class of small-molecule anti-migraine drugs, the calcitonin gene-related peptide (CGRP) inhibitors. One of these is currently under approval review by the FDA. John Macor's contributions to drug design and consistent support of medicinal chemistry have earned him this prestigious prize.

The IUPAC-Richter Prize, comprising a plaque and a check for USD 10 000, will be presented at the XXVI EFMC-ISMC International Symposium on Medicinal Chemistry to be held in Basel, Switzerland, 6-10 September 2020. The plaque will be signed by Christopher M.A. Brett, President of IUPAC, Gábor Orbán, CEO of Gedeon Richter Plc (Budapest, Hungary), and János Fischer, Chair of the IUPAC-Richter Prize selection committee. John Macor will present an acceptance lecture at this Symposium and a second lecture at the 37th ACS National Medicinal Chemistry Symposium to be held in New York (28 June - 1 July 2020).

Dr. Macor earned his Ph.D. degree at Princeton

University with Professor E.C. Taylor in 1986. His career has spanned four decades and four different pharmaceutical companies. John began his career at Pfizer in 1986 where he was engaged in a variety of CNS drug discovery efforts. He moved to Astra Arcus in 1994 and focused on cholinergic drug discovery, John then moved to Bristol-Myers Squibb in 1997, where he started in cardiovascular research before transitioning to neuroscience in 2001 and immunoinflammatory research in 2013. In October 2016, he accepted the role as Global Head Integrated Drug Discovery for Sanofi.

This year marks the eighth occasion of the IUPAC-Richter Prize, which was established in 2005 by IUPAC and Richter PLC. Awarded biannually, the awardee is announced by IUPAC following nominations and the decision of an independent international Selection Committee. The lecture in which the prize is awarded occurs alternatively in Europe and in the United States. The previous awardees were: 2006, Malcolm FG Stevens (UK); 2008, Jan Heeres (Belgium); 2010, Arun Ghosh (USA); 2012, Stephen Hanessian (Canada); 2014, Helmut Buschmann (Germany); 2016, Michael Sofia (USA); and 2018, Peter Grootenhuis (USA).

The Chair of the current international Selection Committee is Janos Fischer (IUPAC). The jury members are Yves Auberson (Switzerland), Jonathan Baell (Australia), Helmut Buschmann (Germany), Wayne Childers (USA), Kazumi Kondo (Japan), David Rotella (USA), Gerd Schnorrenberg (Germany), Mike Waring (UK), and Patrick Woster (USA). The IUPAC-RICHTER Prize is recognized internationally, as demonstrated by a high number of nominations of successful and internationally renowned scientists in drug research.

For an overview of the Prize, see <https://iupac.org/what-we-do/awards/iupac-richter-prize-medicinal-chemistry/>

7th Polymer International-IUPAC Award goes to Guihua Yu

The Editorial Board of *Polymer International* and the IUPAC Polymer Division are delighted to announce that Guihua Yu (University of Texas at Austin, USA) is the winner of the 7th Polymer International-IUPAC award for Creativity in Applied Polymer Science.

This award celebrates the outstanding contributions that Professor Yu has made to polymer nanoscience and engineering. He has achieved extraordinary research accomplishments and shown remarkable