Trends in Molecular Medicine

July 2022, Volume 28, Number 7, pp. 531-612

Finding evidence for treatment

Spotlights

531 A new day for human challenge Abie Rohrig and Nir Eyal trials?

533 The joint battle to tackle Laura De Rosa and Michele De Luca epidermolysis bullosa through gene

Opinions

536

therapy

decisions in a pandemic and Arturo Casadevall 542 Adverse effects of COVID-19 mRNA Ioannis P. Trougakos, Evangelos Terpos, vaccines: the spike hypothesis Harry Alexopoulos, Marianna Politou, Dimitrios Paraskevis, Andreas Scorilas, Efstathios Kastritis, Evangelos Andreakos, and Meletios A. Dimopoulos

Nigel Paneth, Michael J. Joyner,

Reviews

555 Exposing the role of metals in Hvuniin Kim. Fiona E. Harrison. neurological disorders: a focus on Michael Aschner, and Aaron B. Bowman manganese 569 IL-33-ILC2 axis in the female Jessica E. Miller, Madhuri Koti, reproductive tract and Chandrakant Tayade 583 Nerve-stem cell crosstalk in skin Jingyu Peng, Han Chen, regeneration and diseases and Bing Zhang Series: Dermatology 596 Therapeutic potential of Yeshuang Yuan, Antonios G.A. Kolios, interleukin-2 in autoimmune

Yudong Liu, Bo Zhang, Hao Li, diseases George C. Tsokos, and Xuan Zhang Editor Claudia Willmes

Trends Publisher Danielle Loughlin

Journal Manager Yvonne Philippo

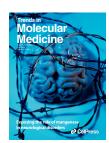
Journal Administrator Patrick Scheffmann

Advisory Board Sudhir Agrawal Raiendra Apte Himisha Beltran Helen Blau Xandra Owens Breakefield Claudia Langenberg Alain Fischer Fred Gage Romina Goldszmid Warren L Grayson David Gurwitz Akiko Iwasaki Marja Jäättelä Thirumala-Devi Kanneganti

Gou Young Koh Sharon R Lewin William Petri Daniel Rader Richard Ransohoff Caetano Reis e Sousa David Sinclair Claudio Soto

Thierry Soussi

Anu Suomalainen-Wartiovaara Weihong Tan George Tsokos David Tuveson Stephen Waxman Sabine Werner Johnathan Whetstine Jackie Yi-Ru Ying Alex Zhavaronkov



On the cover: Excess exposure to metals has been associated with aberrant neurodevelopment and neurodegenerative diseases and is thought to be a prominent group of environmental risk factors in neurological disorders. On pages 555-568, Kim et al. review recent advances in our understanding of the role of manganese as pathological contributor in neurodevelopmental and neurodegenerative diseases. The cover shows a brain swathed in barbwire, a product that may contain manganese. Cover image by Tommy Flynn via Getty Images.

Editorial Inquiries

Trends in Molecular Medicine Cell Press 50 Hampshire St, 5th Floor Cambridge, MA 02139, USA Tel: 617 386 2138 F-mail: tmm@cell.com

