

JIM is the official publication of the American Federation for Medical Research (AFMR).

Journal of Investigative Medicine (JIM) is the official publication of the American Federation for Medical Research (AFMR). In keeping with the mission of the AFMR, *JIM* publishes original, high quality clinical and translational research. *JIM* also provides an avenue by which investigators can publish scholarly reviews relevant to the research-focused mission of the AFMR.

Editorial Board

Editor-in-Chief

Michael J. McPhaul, MD,
 Dana Point, California

Deputy Editors

Robert T. Means, Jr., MD
 Johnson City, Tennessee

Don C. Rockey, MD
 Charleston, South Carolina

Gloria L. Vega, PhD
 Dallas, Texas

Peter Wiernik, MD
 Chappaqua, New York

Reviews Editor

Marco Marcelli, MD
 Houston, Texas

Editorial Board

Richard J. Auchus, MD
 Ann Arbor, Michigan

Keith Colburn, MD
 Loma Linda, California

Errol D. Crook, MD
 Mobile, Alabama

David A. D'Alessio, MD
 Durham, North Carolina

Samrat Das, MD
 Las Vegas, Nevada

Dawn Davis, MD, PhD
 Madison, Wisconsin

Janice Dutcher, MD
 Chappaqua, New York

Aidar Gosmanov, MD, PhD
 Albany, New York

David Green, MD
 Atlanta, Georgia

Taylor Harrison, MD
 Atlanta, Georgia

C. Michael Hart, MD
 Decatur, Georgia

Emil Heinze, MD
 Sylmar, California

Adriana Ioachimescu, MD, PhD
 Atlanta, Georgia

Octavian Ioachimescu, MD, PhD
 Decatur, Georgia

Armand Krikorian, MD, FACE
 Oak Lawn, Illinois

Richard A. Lange, MD, MBA
 El Paso, Texas

Suthat Liangpunsakul, MD, MPH
 Westfield, Indiana

Ildiko Lingvay, MD
 Dallas, Texas

Kieren Mather, MD
 Indianapolis, Indiana

Philippe Montgrain, MD
 San Diego, California

MingMing Ning, MD, MMSc
 Boston, Massachusetts

James C. Oates, MD
 Charleston, South Carolina

Nancy J. Olsen, MD
 Hershey, Pennsylvania

Neda Rasouli, MD
 Denver, Colorado

Allison Reiss, MD
 Mineola, New York

Florence Rothenberg, MS, MD, FA
 Cincinnati, Ohio

Leticia Ryan, MD, MPH
 Baltimore, Maryland

Michael Schivo, MD, MAS
 Sacramento, California

Iuliana Shapira, MD
 Brooklyn, New York

Abraham Thomas, MD, MPH
 New York, New York

Kristina Utschneider, MD,
 Seattle, Washington

Peter Van Buren, MD
 Dallas, Texas

Cherry Wongtrakool, MD,
 Decatur, Georgia

Amir Zeki, MD, MAS
 Davis, California

AFMR Leadership and Councilors

Executive Officers

President

Armand Krikorian, MD, FACE, Oak Lawn, IL

President-Elect

Florence Rothenberg, MS, MD, FA,
 Cincinnati, OH

Past President

Amir Zeki, MD, MAS, Davis, CA

Past President

MingMing Ning, MD, MMSc, Boston, MA

Secretary-Treasurer

Leticia Ryan, MD, MPH, Baltimore, MD

VP for Meetings & Programs

Michael Schivo, MD, MAS, Sacramento, CA

Assistant VP of Meetings & Programs

Cherry Wongtrakool, MD, Decatur, GA

Editor-in-Chief

Michael McPhaul, MD, Dana Point, CA

Councilor-at-Large

David Green, MD, Decatur, GA

Councilor-at-Large

Adriana Ioachimescu, MD, PhD,
 Atlanta, GA

Councilor-at-Large

Kieren Mather, MD, Indianapolis, IN

Councilors

Chair, Eastern Section

Janice Dutcher, MD, Bronx, NY

Chair-Elect, Eastern Section

Allison Reiss, MD, Mineola, NY

Secretary-Treasurer, Eastern Section

Mark Stecker, MD, Mineola, NY

Chair Midwest Section

Suthat Liangpunsakul, MD, MPH,
 Westfield, IN

Chair-Elect, Midwest Section

Dawn Davis, MD, PhD, Atlanta, GA

Secretary-Treasurer, Midwest Section

Joumana Chaiban, MD, St Louis, MO

Chair, Southern Section

Octavian Ioachimescu, MD, PhD, Atlanta, GA

Chair Elect, Southern Section

Abeer Moanna, MD, Decatur, GA

Secretary-Treasurer, Southern Section

Viranuj Sueblinvong, MD, Decatur, GA

Chair, Western Section

Philippe Montgrain, MD, San Diego, CA

Chair-Elect, Western Section

Amir Goldkorn, MD, Los Angeles, CA

Secretary-Treasurer, Western Section

Samrat Das, MD, Las Vegas, NV

Contact Details

Editorial Office

Amanda Beaini
 Tel: +1 214 709 7076
 E: info.jim@bmj.com

Production Editor

Aimee Prior
BMJ Publishing Group Ltd
BMA House
Tavistock Square,
London WC1H 9JR, UK
 E: production.jim@bmj.com

Publisher & Supplement Enquiries

Joyce-Rachel John
BMJ Publishing Group Ltd
2 Hudson Place, 3rd Floor,
Hoboken, NJ 07030
 Email: jrjohn@bmj.com
 Tel: +1 917 612 5935

American Federation for Medical Research

500 Cummings Center,
Suite 4400,
Beverly, MA 01915, USA
 T: 978-927-8330
www.afmr.org

Permissions

See <http://journals.bmj.com/permissions>

Subscriptions

Tel USA: +1 855 458 0579
 Tel ROW: +44 020 7111 1105
 E: ussupport@bmj.com
 E: support@bmj.com

Author Reprints

Reprints Administrator
 T: +44 (0)150 251 5161
 E: admin.reprints@bmj.com

Commercial Reprints (USA & Canada)

Ray Thibodeau
 T: +1 267 895 1758
 M: +1 215 933 8484
 E: ray.thibodeau@contentednet.co

Commercial Reprints (ROW)

Nadia Gurney-Randall
 T: +44 (0)20 8445 5825
 M: +44 (0)7866 262344
 E: ngurneyrandall@bmj.com

Display & Online Advertising Sales (USA and Canada)

Jim Cunningham
 T: +1 201 767 4170
 E: jcunningham@cunnasso.com

Display Advertising Sales (ROW)

Sophie Fitzsimmons
 Email: sfitzsimmons@bmj.com
 Tel: +44 (0)20 7383 6783
<http://group.bmj.com/group/advertising>

Online Advertising Sales (ROW)

Marc Clifford
 T: +44 (0) 20 7383 6161
 E: mclifford@bmj.com
<http://group.bmj.com/group/advertising>

For all other JIM queries:

<http://jim.bmj.com/content/contact-us>

Subscription Information

JIM is published eight times a year (subscribers receive all supplements)
 ISSN 1081-5589 (print)
 ISSN 1708-8267 (digital)

Institutional Rates 2017

Print

Institutional

Extra Small \$960
 Print Only \$1,200

Small \$1,080
 Print Only \$1,200

Medium \$1,200
 Print Only \$1,200

Large \$1,320
 Print Only \$1,200

Extra Large \$1,380
 Print Only \$1,200

OA Article Publication Charges

OA APC **CC-BY-NC** \$2000

OA APC **CC-BY** \$2,580

Online

Site licenses are priced on FTE basis and allow access by the whole institution.