

## Contents

### *Comings and Goings*

- 851 University of Cincinnati College of Medicine Appoints Dean
- 851 University of Utah Names New Senior Vice President for Health Sciences
- 852 New Jersey Medical School Appoints Dean
- 852 UConn Health Center Appoints New Chairman of the Department of Medicine
- 853 University of Tennessee Health Science Center Names Robert S. Pearce  
Chair in Internal Medicine
- 853 Stanford University School of Medicine Names Associate Dean for  
Clinical and Translational Research
- 854 Inaugural Joe W. and Dorothy Dorsett Brown Foundation Chair in  
Oncology Appointed
- 854 TTUHSC Appoints Vice President of Health Affairs & Interim Dean for  
School of Nursing at El Paso
- 855 Emory Health Sciences Center Names New Head
- 855 Emory Names Chair of Department of Psychiatry and Behavioral Sciences
- 856 Johns Hopkins Names Director of Patient Safety Institute
- 856 Mayo Clinic Appoints Vice President and Chief Executive of Campus  
in Arizona
- 857 Executive Vice President for Academic Affairs and Provost Appointed at GHSU
- 857 Charles W. Linder Endowed Chair in Pediatrics at GHSU Named
- 858 Northeast Ohio Medical University College of Medicine Names Associate  
Dean for Academic Affairs

*(continued next page)*

**Journal of Investigative Medicine** (ISSN: 1081-5589), the official journal of the American Federation for Medical Research (AMFR), 900 Cummings Center, Suite 4550, Beverly, MA 01915, is published in January, February, March, April, June, August, October, and December by Lippincott Williams & Wilkins, 16522 Hunters Green Parkway, Hagerstown, MD 21740-2116. Business offices are located at Two Commerce Square, 2001 Market Street, Philadelphia, PA 19103. Periodicals postage paid at Hagerstown, MD and at additional mailing offices. Copyright © 2011 by the American Federation for Medical Research.

**POSTMASTER:** Send address changes to *Journal of Investigative Medicine*, P.O. Box 1550, Hagerstown, MD 21740.

## Contents *(continued)*

- 858 St. Louis University School of Medicine Names Director of Hematology and Oncology
- 859 Inaugural Al-Rashid Chair of Hepatology Named at University of Miami
- 859 UT Southwestern Medical Center Appoints Vice President for Research Administration
- 860 Vanderbilt Center for Health Services Research Names Director

### **News**

- 861 University of Pennsylvania Receives \$225M Gift
- 861 Albany Medical College Receives \$1.2M Bequest to Fund Two Endowed Chairs
- 861 DeBakey Research Awards Announced
- 861 Case Western Reserve and Shanghai Zhabei District Health Bureau Sign 10-Year Research Agreement
- 862 Dartmouth Awarded Cystic Fibrosis Foundation Grant
- 862 Georgetown Lombardi Comprehensive Cancer Center Awarded \$600,000 for Breast Cancer Research
- 862 Keck School of Medicine Zilkha Neurogenetic Institute Receives \$5M for Recruitment
- 863 2011 Gruber International Prize in Genetics Announced
- 863 MIGMH Awarded \$2.1M CDC Grant
- 863 URMC Receives \$10M Gift
- 863 National Lipid Association Recognizes Distinguished Achievement Award Recipient
- 864 2011 Shaw Prize Laureates Announced

### **In Memoriam**

- 865 Gustav Schonfeld
- 865 Shanthi V. Sitaraman
- 866 Vijay Misra
- 866 Edward G. "Ted" Jones
- 867 Richard G.W. Anderson

*(continued next page)*

# Contents *(continued)*

## **EB Symposium Manuscripts**

- 868 Molecular Mechanism of Vitamin D in the Cardiovascular System  
*Yan Chun Li, PhD*
- 872 Vitamin D: A D-Lightful Solution for Health  
*Michael F. Holick, MD, PhD*
- 881 Vitamin D and the Immune System  
*Cynthia Aranow, MD*

## **Review Articles**

- 887 Cardiac Resynchronization Therapy: Prospect for Long-Lasting Heart Failure Remission  
*Shinning Sun, MD and Jose A. Joglar, MD*
- 893 Computational Approaches for Translational Clinical Research in Disease Progression  
*Mary F. McGuire, MS, Madurai Sriram Iyengar, PhD, and David W. Mercer, MD*
- 904 Recent Insights Into the Relationship Between Inflammatory Liver Diseases and Atherosclerosis  
*Tugrul Purnak, MD, Cumali Efe, MD, Yavuz Beyazit, MD, Ersan Ozaslan, MD, Ramazan Astan, MD, Aysel Milanlioglu, MD, Zeynep Ozbalkan, MD, and Manfredi Rizzo, MD, PhD*

## **Original Articles**

- 912 Simvastatin Effects on Androgens, Inflammatory Mediators, and Endogenous Pituitary Gonadotropins Among Patients With PCOS Undergoing IVF: Results From a Prospective, Randomized, Placebo-Controlled Clinical Trial  
*Batool Rashidi, MD, Jhila Abediasl, MD, Ensiyeh Tehraninejad, MD, Haleh Rahmanpour, MD, and Eric Scott Sills, MD*
- 917 Efficacy, Tolerability, and Factors Affecting the Efficacy of the Sequential Therapy in Curing *Helicobacter Pylori* Infection in Clinical Setting  
*Antonio Tursi, MD, Walter Elisei, MD, GianMarco Giorgetti, MD, Marcello Picchio, MD, and Giovanni Brandimarte, MD*
- 921 Adiponectin Attenuates Hypoxia/Reoxygenation–Induced Cardiomyocyte Injury Through Inhibition of Endoplasmic Reticulum Stress  
*Yun-fei Bian, MD, Xiao-yan Hao, MD, Feng Gao, MD, Hui-yu Yang, MD, Nana Zang, MD, and Chuan-shi Xiao, MD*
- 926 Chromosome 9p21 Genetic Variants Are Associated With Myocardial Infarction But Not With Ischemic Stroke in a Taiwanese Population  
*Hsiu-Fen Lin, MD, Pei-Chien Tsai, PhD, Yi-Chu Liao, MD, MS, Tsung-Hsien Lin, MD, Chih-Ta Tai, MD, PhD, Suh-Hang Hank Juo, MD, PhD, and Ruey-Tay Lin, MD*

*(continued next page)*

## Contents *(continued)*

- 931 Elevated Serum Uric Acid Predicts Angiographic Impaired Reperfusion and 1-Year Mortality in ST-Segment Elevation Myocardial Infarction Patients Undergoing Percutaneous Coronary Intervention  
*Nurcan Basar, MD, Nihat Sen, MD, Firat Ozcan, MD, Gonul Erden, MD, Selcuk Kanat, MD, Erdogan Sokmen, MD, Ahmet Isleyen, MD, Huseyin Yuzgecer, MD, Mehmet Fatih Ozlu, MD, Metin Yildirimkaya, MD, Orhan Maden, MD, Adrian Covic, MD, Richard J. Johnson, MD, and Mehmet Kanbay, MD*
- 938 Associations Between Genetic Variants in Vitamin D Metabolism and Asthma Characteristics in Young African Americans: A Pilot Study  
*Dinesh K. Pillai, MD, Sabah F. Iqbal, MD, Angela S. Benton, BS, Jennifer Lerner, BS, Andrew Wiles, BS, Matthew Foerster, BS, Tugba Ozedirne, Henry P. Holbrook, Perry W. Payne, Jr, MD, JD, MPP, Heather Gordish-Dressman, PhD, Stephen J. Teach, MD, MPH, and Robert J. Freishtat, MD, MPH*
- 947 Relationship Between Clinicopathologic Variables and Serum and Tissue Levels of Dickkopf-1 in Patients With Rectal Cancer  
*Ozgun Kemik, MD, Ahu Sarbay Kemik, Aziz Sumer, Huseyin Begenik, Sevim Purisa, Sefa Tuzun, and Cetin Kotan*
- 951 Utility of Routine Hematological and Inflammation Parameters for the Diagnosis of Cancer in Involuntary Weight Loss  
*Cristian Baicus, MD, PhD, Simona Caraiola, MD, Mihai Rimbas, MD, Ruxandra Patrascu, MD, PhD, and Anda Baicus, MD, PhD, for Grupul de Studiu al Scaderii Ponderale Involuntare*
- 956 Health Coverage and Its Relation to the Prevalence and Intensity of Symptomatic Knee Osteoarthritis  
*Jacob Clearfield, MD and Neil A. Segal, MD, MS*

### **Brief Reports**

- 961 Blockage of TNF- $\alpha$  by Infliximab Reduces CCL2 and CCR2 Levels in Patients With Rheumatoid Arthritis  
*Liping Xia, PhD, Jing Lu, PhD, and Weiguo Xiao, PhD*
- 964 Attrition Rates of Pediatric Emergency Medicine Fellowship Graduates  
*Ann Elizabeth Klasner, MD, MPH*
- 966 *APOA4* Polymorphism as a Risk Factor for Unfavorable Lipid Serum Profile and Depression: A Cross-Sectional Study  
*Vanessa Kiyomi Ota, Bsc, Elizabeth Suchi Chen, PhD, Tatiana Flank Ejchel, PhD, Tatiane Katsue Furuya, Bsc, Diego Robles Mazzotti, Bsc, Maysa Seabra Cendoroglo, PhD, Luiz Roberto Ramos, PhD, Lara Quirino Araujo, MD, Rommel Rodriguez Burbano, PhD, and Marilia de Arruda Cardoso Smith, PhD*

*(continued next page)*

## Contents *(continued)*

### **Grants and Contracts**

- 971 Nanoscience and Nanotechnology in Biology and Medicine (R01): PA-11-148
- 974 Biomarkers of Infection-Associated Cancers (R01): PA-11-158
- 976 The Effect of Racial and Ethnic Discrimination/Bias on Health Care Delivery (R01): PA-11-162
- 979 Nutrition and Diet in the Causation, Prevention, and Management of Heart Failure (R01): PA-11-165
- 982 Collaborative Research in Integrative Cancer Biology and the Tumor Microenvironment (U01): PAR-11-146
- 983 Quantitative Imaging for Evaluation of Responses to Cancer Therapies (U01): PAR-11-150
- 987 The Role of Microbial Metabolites in Cancer Prevention and Etiology (U01): PAR-11-152
- 989 Basic Cancer Research in Cancer Health Disparities (U01) PAR-11-156
- 991 NIDDK Multi-Center Clinical Study Cooperative Agreement (U01): PAR-11-157
- 992 Core Infrastructure and Methodological Research for Cancer Epidemiology Cohorts (UM1): PAR-11-167
- 994 NIAMS Multi-Center Clinical Study Implementation Planning Grants (U34): PAR-11-169
- 996 Early-Phase Clinical Trials for Blood Cell Therapies (R01): PAR-11-204
- 998 Alcohol Education Project Grants (R25): PAR-11-205
- 999 Pilot Studies to Develop and Test Novel, Low- Cost Methods for the Conduct of Clinical Trials (R01): RFA-HL-12-019
- 1001 NIMHD Health Disparities Research (R01): RFA-MD-12-001
- 1002 Predictive Multiscale Models for Biomedical, Biological, Behavioral, Environmental and Clinical Research (INTERAGENCY U01): PAR-11-203

*(continued next page)*

## Contents *(continued)*

- 1006 Basic Research in Calcific Aortic Valve Disease (R01): RFA-HL-12-015
- 1008 Pulmonary Vascular-Right Ventricular Axis Research Program (R01): RFA-HL-12-021
- 1009 Pathophysiology of HIV-Associated Neurodegeneration in Aging Populations on Long-Term Anti-Retroviral Therapy (R01): RFA-MH-12-070
- 1011 Pathophysiology of HIV-Associated Neurodegeneration in Aging Populations on Long-Term Anti-Retroviral Therapy (R21): RFA-MH-12-071
- 1013 Mentored Research Scientist Development Award (Parent K01): PA-11-190
- 1015 Independent Scientist Award (Parent K02): PA-11-191
- 1016 Academic Career Award (Parent K07): PA-11-192
- 1018 Mentored Clinical Scientist Research Career Development Award (Parent K08): PA-11-193
- 1020 Mentored Patient-Oriented Research Career Development Award (Parent K23): PA-11-194
- 1021 Midcareer Investigator Award in Patient-Oriented Research (Parent K24): PA-11-195
- 1023 Mentored Quantitative Research Development Award (Parent K25): PA-11-196
- 1025 NIH Pathway to Independence Award (Parent K99/R00): PA-11-197
- 1028 Autism Centers of Excellence: Centers (P50): RFA-HD-12-195
- 1030 Autism Centers of Excellence: Networks (R01): RFA-HD-12-196
- 1033 Support of NIGMS Program Project Grants (P01): PAR-11-220
- 1034 Collaborative Interdisciplinary Team Science in NIDDK Research Areas (R24): (PAR-11-221)
- 1035 Virtual Reality Technologies for Research and Education in Obesity and Diabetes (R01): PA-11-211
- 1038 Clinical Trial Planning Grants in Type 1 Diabetes (R34): RFA-DK-11-010
- 1040 Clinical Trials Development Resource for Hematologic Disorders (U24): RFA-HL-12-016
- 1042 Clinical Trials Planning Studies for Rare Thrombotic and Hemostatic Disorders (U34): RFA-HL-12-023

*(continued next page)*

## Contents *(continued)*

- 1043 Contraceptive Development Research Centers Program (U54): RFA-HD-12-185
- 1045 Mechanistic Studies of HIV-Exposed Seronegative Individuals (HESN) (R21): PA-11-217
- 1046 Mechanistic Studies of HIV-Exposed Seronegative Individuals (HESN) (R01): PA-11-218
- 1047 Early Phase Clinical Trials in Imaging and Image-Guided Interventions (R21): PAR-11-216

---

**Annual subscription rates worldwide:** \$578.00 Individual Domestic, \$779.50 Individual International, \$748.00 Institutional Domestic, \$1047.50 Institutional International, \$184.00 Domestic Resident, \$216.50 International Resident. Single copies \$127.00. Society member copies \$25. (The Canadian GST tax of 7% will be added to the subscription price of all orders shipped to Canada. Lippincott Williams & Wilkins' GST Identification Number is 895524239. Publications Mail Agreement #40052291.) Subscriptions outside the United States must be prepaid. Subscriptions outside North America must add \$7.00 for airfreight delivery. Prices subject to change without notice. Copies will be replaced without charge if the publisher receives a request within 90 days of the mailing date, both in the U.S. and worldwide. Visit us on-line at [www.lww.com](http://www.lww.com).

Individual subscription rates include print and access to the online version. Institutional rates are for print only; online subscriptions are available via Ovid. Institutions can choose to purchase a print and online subscription together for a discounted rate. Institutions that wish to purchase a print subscription, please contact Lippincott Williams & Wilkins, 16522 Hunters Green Parkway, Hagerstown, MD 21740-2116; phone 800-638-3030 (outside the United States 301-223-2300); fax 301-223-2400. Institutions that wish to purchase an online subscription or online with print, please contact the Ovid Regional Sales Office near you or visit [www.ovid.com/site/index.jsp](http://www.ovid.com/site/index.jsp) and select Contact and Locations.

The *Journal of Investigative Medicine* is indexed in MEDLINE/PubMed.

**Address for subscription information, orders, or change of address** (except Japan, India, Bangladesh, Sri Lanka, Nepal and Pakistan): 16522 Hunters Green Parkway, Hagerstown, MD 21740-2116; phone 1-800-638-3030; fax 301-223-2400; in Maryland, call collect 301-223-2300. In Japan, contact LWW Igaku-Shoin Ltd., 3-23-14 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan; phone: 81-3-5689-5400; fax: 81-3-5689-5402. In India, Bangladesh, Sri Lanka, Nepal and Pakistan, contact Globe Publication Pvt. Ltd. B-13, 3rd FL, A Block, Shopping Complex, Naraina Vihar, Ring Road, New Delhi 110028, India; phone: 91-11-579-3211; fax: 91-11-579-8876.

Lippincott Williams & Wilkins cannot be held responsible for errors or for any consequences arising from the use of the information contained in this journal. The appearance of advertising in this journal does not constitute an endorsement or approval by Lippincott Williams & Wilkins for the quality or value of the product advertised or of the claims made for it by its manufacturer.

**PERMISSION TO PHOTOCOPY ARTICLES:** This publication is protected by copyright. Copyright © 2011 American Federation for Medical Research. Permission to reproduce copies of articles for noncommercial use may be obtained from the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, fax (978) 750-4470, [www.copyright.com](http://www.copyright.com).

**All manuscripts must be submitted online through the journal's Web site at** <http://jim.edmgr.com>. Additionally, Information for Authors is available at <http://jim.edmgr.com>.

**Review policy:** All articles accepted for publication by this journal are peer-reviewed by two or more referees from the editorial board. Critical comments are also obtained from outside reviewers, but always in conjunction with members of the editorial board.

**Commercial reprints:** Reprints of individual articles are available from authors. In addition, articles are available to be downloaded from the journal Web site, <http://www.jinvestigativemed.com>, without charge by subscribers and for a fee by nonsubscribers. Quantities of reprints greater than 100 for commercial or academic use may be purchased from Lippincott Williams & Wilkins. For information and prices, contact North America: [reprintsolutions@wolterskluwer.com](mailto:reprintsolutions@wolterskluwer.com); Central and South America: Carlos Moreyra ([carlos.moreyra@wolterskluwer.com](mailto:carlos.moreyra@wolterskluwer.com)); Europe & Rest of World: Jean Jones ([reprints@wolterskluwer.com](mailto:reprints@wolterskluwer.com)).

**Disclaimer:** The statements and opinions contained in the articles of the Journal of Addiction Medicine are solely those of the individual authors and contributors and not those of the American Federation for Medical Research or Lippincott Williams & Wilkins. The appearance of advertisements in the Journal is not a warranty, endorsement, or approval of the products or services advertised or of their effectiveness, quality, or safety. The American Society of Addiction Medicine and the Publisher disclaim responsibility for any injury to persons or property resulting from any ideas or products referred to in the articles or advertisements.