

The Journal of Rheumatology

a monthly international journal
founded by Metro A. Oryzlo

EDITOR

Earl D. Silverman

ASSOCIATE EDITORS

Joseph Beyene
David T. Felson
Dafna D. Gladman
Robert D. Inman
Sindhu R. Johnson
Eric M. Ruderman
Murray B. Urowitz

MANUSCRIPTS

Carlyle Rodrigo
Lindsay Bonello-MacNeil

MANAGING EDITOR

Yvonne Pigott

EDITORIAL

Carol Damioli
Emily Schneider

ADVERTISING MANAGER

Pat Tramley

SUBSCRIPTIONS

Trudy Deamude
Zameer Zahir

REPRINTS

Domenica Lagana

ADMINISTRATION

Violeta Turalba

EDITORIAL BOARD

Jonathan Adachi

HAMILTON, ON, CANADA

Graciela S. Alarcon

BIRMINGHAM, AL, USA

Marta E. Alarcon-Riquelme

OKLAHOMA CITY, OK, USA

Yannick Allanore

PARIS, FRANCE

David A. Bell

LONDON, ON, CANADA

Timothy Beukelman

BIRMINGHAM, AL, USA

Maarten Boers

AMSTERDAM, THE NETHERLANDS

Earl R. Bogoch

TORONTO, ON, CANADA

Kenneth D. Brandt

FAIRWAY, KS, USA

Matthew Brown

QUEENSLAND, AUSTRALIA

Gerd R. Burmester

BERLIN, GERMANY

Jeffrey P. Callen

LOUISVILLE, KY, USA

Juan J. Canoso

MEXICO CITY, MEXICO

László Czirják

PÉCS, HUNGARY

Christopher P. Denton

LONDON, UK

Patrick H. Dessein

JOHANNESBURG, SOUTH AFRICA

John A. DiBattista

MONTREAL, PQ, CANADA

Maxime Dougados

PARIS, FRANCE

Hani S. El-Gabalawy

WINNIPEG, MB, CANADA

John M. Esdaile

VANCOUVER, BC, CANADA

James F. Fries

PALO ALTO, CA, USA

Marvin J. Fritzler

CALGARY, AB, CANADA

Daniel E. Furst

LOS ANGELES, CA, USA

Sherine E. Gabriel

ROCHESTER, MN, USA

Miguel A. Gonzalez-Gay

SANTANDER, SPAIN

Bevra H. Hahn

LOS ANGELES, CA, USA

John G. Hanly

HALIFAX, NS, CANADA

Gillian A. Hawker

TORONTO, ON, CANADA

Gary S. Hoffman

CLEVELAND, OH, USA

Gene C. Hunder

ROCHESTER, MN, USA

David A. Isenberg

LONDON, UK

J. Charles Jennette

CHAPEL HILL, NC, USA

Edward C. Keystone

TORONTO, ON, CANADA

Joel M. Kremer

ALBANY, NY, USA

Masataka Kuwana

TOKYO, JAPAN

Nancy Lane

SACRAMENTO, CA, USA

Ronald M. Laxer

TORONTO, ON, CANADA

Peter Lee

TORONTO, ON, CANADA

Geoffrey O. Littlejohn

MELBOURNE, AUSTRALIA

K. Wayne Marshall

TORONTO, ON, CANADA

Johanne Martel-Pelletier

MONTREAL, PQ, CANADA

Alphonse T. Masi

PEORIA, IL, USA

Marco Matucci-Cerinic

FLORENCE, ITALY

Gale A. McCarty

RED BLUFF, CA, USA

Henri A. Ménard

MONTREAL, PQ, CANADA

Olivier C. Meyer

PARIS, FRANCE

Chi Chiu Mok

HONG KONG, PRC

Larry W. Moreland

PITTSBURGH, PA, USA

Haralampos Moutsopoulos

ATHENS, GREECE

Ola Nived

LUND, SWEDEN

Akihide Ohta

SAGA, JAPAN

Ignazio Olivieri

POTENZA, ITALY

Richard S. Panush

LOS ANGELES, CA, USA

Eliseo Pascual

ALICANTE, SPAIN

Michelle A. Petri

BALTIMORE, MD, USA

Ross E. Petty

VANCOUVER, BC, CANADA

Theodore Pincus

NEW YORK, NY, USA

Kenneth P.H. Pritzker

TORONTO, ON, CANADA

Manuel Ramos-Casals

BARCELONA, SPAIN

Angelo Ravelli

GENOA, ITALY

Nicolini Ruperto

GENOA, ITALY

Anthony S. Russell

EDMONTON, AB, CANADA

Philip N. Sambrook

SYDNEY, AUSTRALIA

Jorge Sanchez-Guerrero

TORONTO, ON, CANADA

H. Ralph Schumacher, Jr.

PHILADELPHIA, PA, USA

Tuulikki Sokka-Isler

JYVASKYLA, FINLAND

Virginia D. Steen

WASHINGTON, DC, USA

Vibeke Strand

PORTOLA VALLEY, CA, USA

Suzanne M.M. Verstappen

MANCHESTER, UK

Daniel J. Wallace

LOS ANGELES, CA, USA

Michael M. Ward

BETHESDA, MD, USA

Arthur Weinstein

WASHINGTON, DC, USA

Frederick Wolfe

WICHITA, KS, USA

Robert L. Wortmann

LEBANON, NH, USA

Yuqing Zhang

BOSTON, MA, USA

Copyright © 2014. All rights reserved. Return postage guaranteed. PERIODICAL POSTAGE USPS 737-930 AT BUFFALO, NY. US Postmaster send address changes to The Journal of Rheumatology, 1051 Clinton St., Buffalo, NY 14206-2823.



The Journal of Rheumatology (ISSN 0315-162X) is published monthly for \$340.00 per year by The Journal of Rheumatology Publishing Co. Ltd. Publication office address: The Journal of Rheumatology, 365 Bloor Street East, Suite 901 Toronto, ON Canada M4W 3L4; E-mail: jrheum@jrheum.com