

Immunohematology



Journal of Blood Group Serology and Molecular Genetics

VOLUME 37, NUMBER 3, 2021



**American
Red Cross**

Immunohematology

Journal of Blood Group Serology and Molecular Genetics

Volume 37, Number 3, 2021

CONTENTS

- 109** CASE REPORT
Development of anti-Jk3 associated with silenced Kidd antigen expression and a novel single nucleotide variant of the JK gene
P.A. Manrai, A.J. Siddon, K.M. Hager, J.E. Hendrickson, M.A. Keller, and C.A. Tormey
- 113** ORIGINAL REPORT
Genotyping for Dombrock blood group alleles in Northern Pakistani blood donors
S.A. Jadoon, N. Salamat, S.A. Khan, M.S. Yazdani, N. Khatak, and M.A. Naeem
- 118** BLOOD GROUP REVIEW
The Cromer blood group system: an update
J.R. Storry and C. Lomas-Francis
- 122** CASE REPORT
A mild case of hemolytic disease of the fetus and newborn due to anti-Sc2
M.A. Núñez Ahumada, C.E. Arancibia Aros, C.E. Villalobos Pavez, F.M. Pontigo Gonzalez, V. Abarca Arce, M. Sandoval Medrano, and S. Reyes Jorquera
- 126** ORIGINAL REPORT
A unique approach to screen for blood donors lacking high-prevalence antigen In^b of the Indian blood group system
S.R. Joshi, S.B. Senjaliya, H.D. Maru, P.D. Kshirsagar, S.S. Kulkarni, and P. Shrivastava
- 131** ORIGINAL REPORT
Immune erythrocyte antibodies in adult patients with sickle cell disease and blood donors in Lagos, Nigeria: a comparative study
A.S. Adewoyin, O.A. Daramola, A.A. Ogbenna, and T.A. Adeyemo
- 138** IN MEMORIAM
Cyril Levene, MB, ChB, MD (Path)
- 139** FROM THE EDITORS
Change of Command for *Immunohematology*
- SPECIAL INSERT
Investigation of anemia of unknown origin: flow charts to guide immunohematology testing
L. Castilho, S. Nance, and J.R. Hamilton

140

ANNOUNCEMENTS

143

ADVERTISEMENTS

148

INSTRUCTIONS FOR AUTHORS

EDITOR-IN-CHIEF

Margaret A. Keller, PhD
Philadelphia, Pennsylvania

MANAGING EDITOR

Cynthia Flickinger, MT(ASCP)SBB
Wilmington, Delaware

SENIOR EDITOR

David Moolten, MD
Philadelphia, Pennsylvania

ASSOCIATE EDITORS

Corinne L. Goldberg, MD
Durham, North Carolina

Janis R. Hamilton, MS, MT(ASCP)SBB
Detroit, Michigan

TECHNICAL EDITORS

Christine Lomas-Francis, MS
New York, New York

Dawn M. Rumsey, ART(CSMLT)
Duluth, Georgia

Tiffany Walters, MT(ASCP)SBB^{CM}
Charlotte, North Carolina

PRODUCTION ASSISTANT

Latasha Melvin

COPY EDITOR

Frederique Courard-Hauri

PROOFREADER

Wendy Martin-Shuma

ELECTRONIC PUBLISHER

Paul Duquette

EDITORIAL BOARD

P. Dayand Borge, Jr., MD, PhD
Philadelphia, Pennsylvania

Barbara J. Bryant, MD
Galveston, Texas

Lilian M. Castilho, PhD
Campinas, Brazil

Anne F. Eder, MD
Washington, District of Columbia

Melissa R. George, DO, FCAP, FASCP
Hershey, Pennsylvania

Julie K. Karp, MD
Philadelphia, Pennsylvania

Jose Lima, MD
Birmingham, Alabama

Christine Lomas-Francis, MSc
New York, New York

Geralyn M. Meny, MD, MS
Coppell, Texas

**Sandra Nance, MS, MASCP,
MT(ASCP)SBB**
Lansdale, Pennsylvania

Paul M. Ness, MD
Baltimore, Maryland

Thierry Peyrard, PharmD, PhD
Paris, France

Ira A. Shulman, MD
Los Angeles, California

Jill R. Storry, PhD
Lund, Sweden

Nicole Thornton, MS
Bristol, United Kingdom

PAST EDITORS-IN-CHIEF

**Sandra Nance, MS, MASCP,
MT(ASCP)SBB**
Lansdale, Pennsylvania

Delores Mallory, MT(ASCP)SBB
Supply, North Carolina

Marion E. Reid, PhD, FIBMS
Bristol, United Kingdom

Immunohematology is published quarterly (March, June, September, and December) by the American Red Cross, National Headquarters, Washington, DC 20006.

Immunohematology is indexed and included in *Index Medicus* and MEDLINE on the MEDLARS system. The contents are also cited in the EBASE/Excerpta Medica and Elsevier BIOBASE/Current Awareness in Biological Sciences (CABS) databases.

For subscription, single article access, or change of address, visit the Web site at:
<https://www.exeley.com/journal/immunohematology>

For extra copies or information, send email to: immuno@redcross.org.

Copyright 2021 by The American National Red Cross
ISSN 0894-203X



ON OUR COVER

James Stark, a 19th century English landscape painter, was a leading member of the Norwich School, which began as a discussion group devoted to the self-education and improvement of its members, but ultimately developed into an exhibition society. The rural and pastoral features of Norfolk County emerged as principal themes, generally interpreted in a realist mode. Stark's depiction of Cromer, Norfolk (1837), a seaside village, is one of his better-known works. A review by Storry and Lomas-Francis in this issue of *Immunohematology* provides an update of the Cromer blood group system.

DAVID MOOLTEN, MD