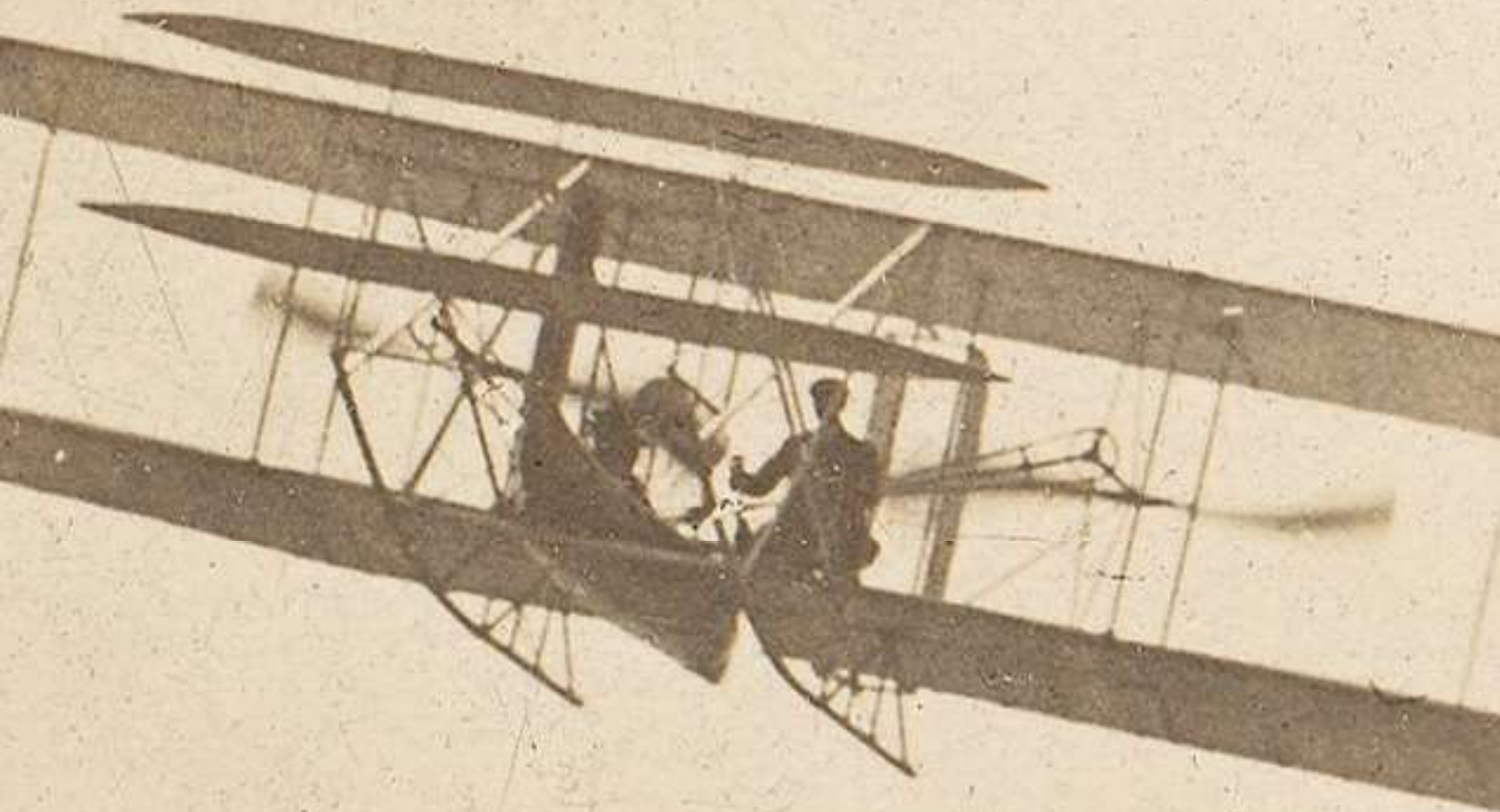


Immunohematology



Journal of Blood Group Serology and Molecular Genetics

VOLUME 41, NUMBER 3, 2025



**American
Red Cross**

Immunohematology

Journal of Blood Group Serology and Molecular Genetics

Volume 41, Number 3, 2025

CONTENTS

73

ORIGINAL REPORT

Performance of 0.8 percent reagent red blood cell panels after extended on-board analyzer utilization

T. Jacobucci, K. Bizovie, and D. Mueller

80

CASE REPORT

Loss of D expression associated with hematologic disease progression: a case report and review of the literature

N. Yurtsever, G. Carmichael, P. Li, J.D. Wen, H. Chai, A. Diadamo, G. Denomme, and C. Tormey

84

ORIGINAL REPORT

Prevalence and characteristics of irregular antibodies in northern Vietnamese blood donors

T. Nguyen, N. Hoang, D. Nguyen, and T. Nguyen

90

BLOOD GROUP REVIEW

Kell and Kx blood group systems: an update

C.L. Davison and G.A. Denomme

100

ADVERTISEMENTS

107

INSTRUCTIONS FOR AUTHORS

EDITOR-IN-CHIEF

Margaret A. Keller, PhD
Philadelphia, Pennsylvania

MANAGING EDITOR

Cynthia Flickinger, MLS(ASCP)SBB
Bethany Beach, Delaware

SENIOR EDITOR

David Moolten, MD
Philadelphia, Pennsylvania

ASSOCIATE EDITORS

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

Jennifer Jung, MLS(ASCP)
St. Louis, Missouri

Barry Siegfried, MD
Lansing, Michigan

TECHNICAL EDITORS

Hallie Lee-Stroka, MLS(ASCP)SBB
New York, New York

Christine Lomas-Francis, MSc
Highland, New York

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

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

PRODUCTION ASSISTANT

Douglas Roberts

COPY EDITOR

Frederique Courard-Hauri

PROOFREADER

Wendy Martin-Shuma

ELECTRONIC PUBLISHER

Paul Duquette

EDITORIAL BOARD

Carine Prisco Arnoni
São Paulo, Brazil

P. Dayand Borge, Jr., MD, PhD
New York, New York

Barbara J. Bryant, MD
Milwaukee, Wisconsin

Lilian M. Castilho, PhD
Campinas, Brazil

Meghan Delaney, DO, MPH
Washington, District of Columbia

Anne F. Eder, MD
Washington, District of Columbia

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

Shane Grimsley
Bristol, United Kingdom

Julie K. Karp, MD
Philadelphia, Pennsylvania

Jose Lima, MD
Birmingham, Alabama

Christine Lomas-Francis, MSc
Highland, New York

Sandra Nance, MS, MASCP,
MLS(ASCP)SBB
Lansdale, Pennsylvania

Paul M. Ness, MD
Baltimore, Maryland

Thierry Peyrard, PharmD, PhD
Paris, France

Kathleen E. Puca, MD, MLS(ASCP)SBB
Milwaukee, Wisconsin

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,
MLS(ASCP)SBB
Lansdale, Pennsylvania

Delores Mallory, MLS(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 electronically published quarterly (March, June, September, and December) by DeGruyter Poland, Warsaw, Poland, and is available from <https://www.sciendo.com/journal/IMMUNOHEMATOLOGY>.

eISSN 1930-3955

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

For subscription types, rates, and forms, visit the Web site at <https://www.sciendo.com/journal/IMMUNOHEMATOLOGY>

For change of mailing address, extra copies, or information, send an email to: immuno@redcross.org.

Copyright 2025 by The American National Red Cross
ISSN 0894-203X



ON OUR COVER

The photograph on the cover of this issue of *Immunohematology*, taken in 1907, is of the Wright Model A, the world's first production aircraft. Orville and Wilbur Wright built seven aircraft in their bicycle shop and licensed manufacture of an additional 60 aircraft in Europe. They designed the Model A, a pusher-engine biplane, with upright seating for two, a 41-foot wingspan, and a four-cylinder 31-horsepower motor, allowing the airplane a maximum speed of 37 mph. Pilots recorded flight durations exceeding 1 hour and a maximum altitude of 6175 feet. The authors of an original report in this issue describe a pilot study with a secondary study that would allow for extended on-board utilization of reagent red blood cell panels for antibody identification.

DAVID MOOLTEN, MD