



HISTORY of PHARMACY and PHARMACEUTICALS

HISTORY OF PHARMACY AND PHARMACEUTICALS

Journal of the American Institute of the History of Pharmacy • Volume 64 | Number 2 | 2022

EDITORS-IN-CHIEF

Paula De Vos, *San Diego State University*
Tanja Pommerening, *Universität Marburg*
Lucas Richert, *University
of Wisconsin–Madison*

CONTRIBUTING EDITORS

Petros Bouras-Vallianatos, *University
of Athens*
Kelly O'Donnell, *Yale University*
Jaipreet Virdi, *University of Delaware*

REVIEW EDITORS

James Bradford, *Berklee College of Music*
Markus Wahl, *Institute for the History
and Ethics of Medicine,
Universität Erlangen–Nürnberg*
Eva Ward, *University of Strathclyde*

EDITORIAL ASSISTANT

Mary Magnuson, *University
of Wisconsin–Madison*

EDITORIAL BOARD

He Bian, *Princeton University*
David Courtwright, *University
of North Florida*
Erika Dyck, *University of Saskatchewan*
Joseph Gabriel, *Florida State University*
Pablo Gómez, *University
of Wisconsin–Madison*
Anna Greenwood, *University of Nottingham*

David Herzberg, *State University
of New York at Buffalo*

Gregory Higby, *University
of Wisconsin–Madison*

Laurence Monnaix, *Université de Montréal*

Nicole Nelson, *University
of Wisconsin–Madison*

John Parascandola, *University of Maryland,
College Park*

Matthew Smith, *University of Strathclyde*

John Swann, *Food and Drug
Administration History Office*

Dominique Tobbell, *University of Virginia*

Ben Urick, *Prime Therapeutics*

AIHP BOARD OF DIRECTORS

Nancy Alvarez

Dennis Birke, *Executive Director*

Cynthia J. Boyle, *Vice President*

Robert A. Buerki, *Secretary*

John E. Clark

Arthur Daemmrich

John Grabenstein, *President*

Gary W. Kadlec

Holly Mason, *Treasurer*

Lucas Richert, *Ex Officio*

Steven M. Swanson, *Ex Officio*

Catherine Taglieri

Sandra M. Fábregas Troche

Copyright © 2022 by the Board
of Regents of the University
of Wisconsin System.

Authorization to reproduce material
from this journal, beyond one copy
for personal use or that permitted by
Sections 107 and 108 of U.S. Copyright
Law, is granted for a fee.

**For fee schedule and payment
information**, contact: the Copyright
Clearance Center (CCC), 222 Rosewood
Drive, Danvers, MA 01923. Telephone
(978) 750-8400, fax (978) 750-4470.
www.copyright.com

For reprint or reproduction questions,
contact the Permissions Editor,
University of Wisconsin Press,
(608) 263-1131.

The publication of *History of Pharmacy
and Pharmaceuticals* is supported in
part by AIHP's National Association
Sponsors:

American Society of Health-System
Pharmacists

Academy of Managed Care Pharmacy

American College of Clinical Pharmacy

American Association of Colleges
of Pharmacy

American Pharmacists Association

Board of Pharmacy Specialties

National Association of Boards
of Pharmacy

COVER IMAGE: *Sea Chart* by Manabu
Ikeda, 2013. Pen, acrylic ink on paper,
mounted on board (22.5 × 41 cm).
Photography by Kei Miyajuma. © Manabu
Ikeda, Courtesy of Mizuma Art Gallery.
Learn more at https://mizuma-art.co.jp/en/artists/ikeda_manabu/.

History of Pharmacy and Pharmaceuticals (ISSN
2694-3034; E-ISSN 2694-3042) is published by
the American Institute of the History of Pharmacy
(AIHP). A subscription to *History of Pharmacy
and Pharmaceuticals* is provided as part of the
membership fee for AIHP. Individual subscription
is concurrent with membership in AIHP. For
information on membership, please visit [https://
aihpor.org/join-support/individual](https://aihpor.org/join-support/individual).

SUBSCRIPTION RATES

\$80 individuals - print and online
\$72 individuals - online-only
\$162 institutions - print and online
\$145 institutions - online-only
Non-US subscriptions, add \$24/year

History of Pharmacy and Pharmaceuticals is
abstracted in America—History and Life,
Historical Abstracts, and International
Pharmaceutical Abstracts (IPA). The full run of
History of Pharmacy and Pharmaceuticals is
available at JSTOR ([https://www.jstor.org/
journal/pharmhist](https://www.jstor.org/journal/pharmhist)).

BUSINESS OFFICE

Journals Division
University of Wisconsin Press
728 State Street
Suite 443
Madison, WI 53706
(608) 263-0668
journals@uwpress.wisc.edu

EDITORIAL OFFICE

American Institute of the History of Pharmacy
University of Wisconsin—Madison
School of Pharmacy
777 Highland Avenue
Madison, WI 53705
(608) 262-5378
hoppeditors@gmail.com
aihpor.org

ADVERTISING

See [https://uwpress.wisc.edu/journals/journals/
hpp_ads.html](https://uwpress.wisc.edu/journals/journals/hpp_ads.html) for current rates. Advertisements or
references to products by brand name or trademark
do not imply an endorsement by the editors or
publishers of this journal.