

DRUG ANALYTICAL RESEARCH

ISSN: 2527-2616

www.seer.ufrgs.br/dar

v. 5, n. 2, July/Dec., 2021

EDITORIAL

"Dear readers,

The editorial team wishes to thank for the contribution of reviewers and authors of the different manuscripts published in this journal. After completing five years of significant efforts and challenges, we have achieved greater visibility and repercussion, through manuscripts of high scientific relevance in the analytical area. However, we still face severe adversities related to the scarcity of research resources, arising from an erratic policy of financial support on the part of government managers in science and technology. This scenario had a negative impact on the production of manuscripts and maintenance of a minimum structure for carrying out activities related to the journal. Although we are facing a very unfavorable situation, we express our commitment to continuing as a means of disseminating scientific production in the analytical area. In the current issue, in addition to the original manuscripts, we are publishing a special section containing the abstracts of the XIII Meeting of the Pharmaceutical Sciences Graduate Program of UFRGS covering different themes carried out by the research groups of the Program. We wish you all an excellent read."

EDITOR-IN-CHIEF

[Martin Steppe](#) – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

EDITORIAL TEAM

[Andreas S. L. Mendez](#) – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

[Cássia Virgínia Garcia](#) – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

[Elfrides E. S. Schapoval](#) (*in memoriam*) – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

[Nadia Maria Volpato](#) – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

EDITORIAL BOARD

[Amélia T. Henriques](#) – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

[Ana Maria Bergold](#) – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

[Andréa Inês Horn Adams](#) – Faculty of Pharmacy, UFSM, Santa Maria, RS, Brazil

[Clésio Sodatelli Paim](#) – Federal University of Pampa, Unipampa, Uruguaiana, RS, Brazil

[Érico M. M. Flores](#) – Center for Natural and Exact Sciences, UFSM, Santa Maria, RS, Brazil

[Hérica R. N. Salgado](#) – Faculty of Pharmaceutical Sciences, UNESP, Araraquara, SP, Brazil

[Isabela da Costa César](#) – Faculty of Pharmacy, UFMG, Belo Horizonte, MG, Brazil

[Nájla M. Kassab](#) – Center for Biological and Health Sciences, UFMS, Campo Grande, MS, Brazil

[Nathalie R. Wingert](#) – Faculty of Pharmacy, UFBA, Salvador, BA, Brazil



UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL

Patrícia Gomes – Centro Universitário Franciscano, Santa Maria, RS, Brazil
Rafael Scorsatto Ortiz – Federal Police Department, Porto Alegre, RS, Brazil
Sara Nicoli – Department of Food and Drug, University of Parma, Italy
Tércio Paschke Oppe – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil
Teresa C. T. Dalla Costa – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil
Tiago Franco de Oliveira – Federal University of Health Sciences of Porto Alegre, Brazil
Valéria Pereira de Sousa – Faculty of Pharmacy, UFRJ, Rio de Janeiro, RJ, Brazil
Vítor Todeschini – Faculty of Pharmacy, UFRJ, Macaé, RJ, Brazil

TECHNICAL STAFF

Poliana Sanchez de Araújo – Faculty of Pharmacy, UFRGS, Porto Alegre, RS, Brazil

PUBLISHER'S INFORMATION

Drug Analytical Research is a scientific publication of Faculdade de Farmácia da Universidade Federal do Rio Grande do Sul (UFRGS). It is an open access journal that publishes two issues per year, focused on publication of **review** and **original articles** in all relevant areas of **analytical and bioanalytical chemistry applied to pharmaceutical sciences**. The articles published by the journal are directed to researchers, undergraduate and graduate students, with the aim of disseminating the knowledge and application of analytical techniques in the analysis of drugs as well as promoting the scientific development of the analytical area in Pharmaceutical Sciences.

For submissions, it is necessary to log in as author and use the TEMPLATE, which contains the Instructions for Authors (www.seer.ufrgs.br/dar).

This journal does not have processing or publication charges.

Correspondence: Send all correspondence to: Martin Steppe, Av. Ipiranga, 2752 - sala 406, CEP: 90610-000, Porto Alegre - RS/BRAZIL. Email: druganalyticalresearch@ufrgs.br.

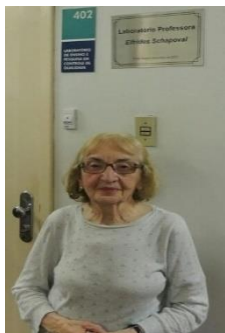
ISSN: 2527-2616

Drug Analytical Research is indexed in: Google Scholar™, Diadorim, DOAJ.
The journal received the level C reference qualification from CAPES, Brazil in 2021.

Special Note

Prof. Dr. Elfrides Eva Scherman Schapoval

(in memoriam)



This issue is dedicated in memory of Prof. Emeritus Elfrides Eva Scherman Schapoval (22/12/1932 – 11/12/2021). The history of Quality Control of Drugs and Medicines in Brazil is intrinsically linked to the trajectory of Professor Elfrides, who contributed effectively to different areas of research and regulation of medicines. Her continuous effort in the training of human resources allowed the production of numerous master's dissertations, doctoral thesis, and several manuscripts in periodicals of high scientific impact. She was also member of the Brazilian Pharmacopoeia Commission, working in the production and coordination of several monographs, as well as coordinating policies to regulate the quality of medicines. Finally, her participation was fundamental with our editorial team since its first edition, collaborating with her experience and encouragement in all stages of editing. On behalf of the editorial team, we want to express our deep acknowledgment for all her cooperation.