ALTEX

ALTERNATIVES TO ANIMAL EXPERIMENTATION

Vol. 39 (Issue 1/2022)

https://www.altex.org

Official organ of

CAAT – Center for Alternatives to Animal Testing, Johns Hopkins University, Baltimore, MD, USA

CAAT-Europe – University of Konstanz, Konstanz, Germany

Doerenkamp-Zbinden Chairs in Germany and USA

EUSAAT – European Society for Alternatives to Animal Testing, Vienna, Austria

t⁴ – transatlantic think tank for toxicology, Baltimore, USA, Konstanz, Germany

ALTEX is indexed in PubMed, Current Contents[®], Index Copernicus, SciSearch[®], ISI Document Solution[®], DOAJ and Embase.

Issued by

ALTEX Édition, Kreuzlingen, Switzerland *Board:* Daniel Favre Franz P. Gruber Gerhard Gstraunthaler Thomas Hartung Goran Krummenacher Beatrice Roth Kristina Wagner

CEO: Sonja von Aulock

Members: The members of ALTEX Edition can be found at https://www.altex.org

ALTEX Edition Editorial Office Europe

Sonja von Aulock (Editor in chief) Petra Mayr (Editor TIERethik) Carolin Rauter (Technical editor) Goran Krummenacher (Webmaster)

Address

ALTEX Edition Romanshornerstr. 90 8280 Kreuzlingen, Switzerland e-mail: editor@altex.org

ALTEX Edition Editorial Office USA

Martin L. Stephens (North American Editor) Thomas Hartung

Address

Johns Hopkins University Baltimore 615 N Wolfe Street W7032 Baltimore, MD 21020, USA e-mail: msteph14@jhu.edu

Editorial Board

Mohammad A. Akbarsha Anna Bal-Price Emilio Benfenati Bas J. Blaauboer Toine Bovee Pierre Cosson Daniel Dietrich Janine Ezendam Ellen Fritsche Florian Groeber-Becker Thomas Hartung Sebastian Hoffmann Nicole C. Kleinstreuer Marcel Leist David Lewis Martin Paparella Grace Patlewicz Horst Spielmann Katy Taylor Bennard van Ravenzwaay Catherine Willett

Layout

Hans Peter Hoesli

Print

Prospektus Nyomda, Veszprém, Hungary

Publisher

Springer Spektrum | Springer-Verlag GmbH Tiergartenstraße 17 69121 Heidelberg, Germany https://www.springer.com

Circulation: 500

Issues: 4 per annum

Distribution

ALTEX Edition Romanshornerstr. 90 8280 Kreuzlingen, Switzerland e-mail: subs@altex.org

Subscription rates 2022

ALTEX (4 issues) Standard: 102 € Libraries, companies, institutes: 204 € Students: 55 € Animal protection society members: 55 €

ALTEX (4 issues) + TIERethik (2 issues) Standard: 130 € Libraries, companies, institutes: 232 € Students: 75 € Animal protection society members: 75 €

TIERethik (2 issues) Standard, library, company, institute: $36 \in \text{print}$; $28.80 \in \text{online}$ Students, animal protection society members: $26.40 \in \text{print}$; $21.20 \in \text{online}$

Prices include postage for all countries.

Submissions

Follow instructions for authors posted on the ALTEX website.

Cover Picture

Exemplary graphical illustrations of motion index data representing the movement activities of zebrafish embryos during a PMR measurement period analyzed with a 2D-density approach. Excerpt of Fig. 1 from Ortmann et al., 82-94.

Aims and Scope

The journal ALTEX-Alternatives to Animal Experimentation publishes open access academic articles on the development and implementation of alternatives to the use of animals for scientific purposes and informs on international developments in this field.

ALTEX publishes research articles, concept articles, opinion articles, reviews, consensus reports, short communications, letters, comments, corners and meeting reports. Current news and events are posted online.

Manuscripts submitted to ALTEX are evaluated by two expert reviewers. The evaluation takes into account the scientific merit of a manuscript and its contribution to animal welfare and the 3R principle.

ALTEX Proceedings publishes Abstract Books and Proceedings of scientific conferences. TIERethik is an open access German-language journal devoted to the bioethics of the relationship between animals and humans.

© ALTEX Edition, Kreuzlingen, Switzerland