1 *Frontiers in Science* Lead Article

1.1 Description

Frontiers in Science Lead Articles focus on transformational science key to tackling the global societal and planetary challenges we face and accelerating solutions for healthy lives on a healthy planet.

FiSci publishes - reviews, original research & modeling articles, and descriptions of emerging paradigms - in research areas key to addressing global challenges.

Directed at scientific audiences, Lead Articles are commissioned by invitation to world-leading researchers. We encourage collaborative multidisciplinary and multinational authorship where appropriate, together with due consideration of gender and generational balance.

Frontiers in Science Lead Articles are peer-reviewed by established experts in the field.

Frontiers in Science Lead Articles are published fully open access, and thereby benefit from Frontiers' open-access policies, at no cost to authors (i.e. no article processing charge is applied in *Frontiers in Science*).

1.2 Article specification and formatting guidelines

Title: *Frontiers in Science* Lead Articles have concise, impactful titles that encapsulate the main point of the article.

Abstract: Unstructured, approximately 250 words.

Contribution to the field statement: Authors summarize in 200–300 words the ground-breaking nature and transformational potential of the work they describe, aiming to convey its importance to non-specialist and lay audiences. The statement serves as the basis for the development of lay-audience summary by a professional science writer that will accompany the publication of the Lead Article.

Main text length: Typically between 6,000 and 8,000 words (flexible) within the main body of the article (not including abstract, references, tables, and figures). Further text and research data can be presented in Supplementary Files, as necessary.

Structure: Lead Articles can be structured as best suited to the aim, scope, and content of the article. In general, authors explain the key challenges they aim to address present the cutting-edge science on which the article builds, and discuss the main research results, paradigms, frameworks or solutions and their implications for practice, policy, or research within their field and/or for society at large.

Research data: Authors are welcome to include original research data. Where original research is presented, detailed descriptions of methods and results may be published in accompanying Supplementary Files.

Figures and tables: Up to 10 figures or tables within the main text. Further figures or tables can be included within Supplementary Files.

References: The number of references is not limited. We suggest citing references in parentheses in the text, e.g. (Smith et al., 2022) and listing references at the end of the draft section in alphabetical order using Harvard style (please find full details of the reference list style here or see below for some examples). The reference list should only include articles that are published or accepted.

Reference list examples

Article in a print journal
Sondheimer, N., and Lindquist, S. (2000). Rnq1: an epigenetic modifier of protein function in yeast. Mol. Cell. 5, 163-172.

Article in an online journal
Tahimic, C.G.T., Wang, Y., Bikle, D.D. (2013). Anabolic effects of IGF-1 signaling on the skeleton. Front. Endocrinol. 4:6. doi: 10.3389/fendo.2013.00006

Article or chapter in a book
Sorenson, P. W., and Caprio, J. C. (1998). "Chemoreception," in The Physiology of Fishes, ed. D. H. Evans (Boca Raton, FL: CRC Press), 375-405.

Book
Cowan, W. M., Jessell, T. M., and Zipursky, S. L. (1997). Molecular and Cellular Approaches to Neural Development. New York: Oxford University Press.

Abstract
Hendricks, J., Applebaum, R., and Kunkel, S. (2010). A world apart? Bridging the gap between theory and applied social gerontology. Gerontologist 50, 284-293. Abstract retrieved from Abstracts in Social Gerontology database. (Accession No. 50360869)

Website
World Health Organization. (2018). E. coli. https://www.who.int/news-room/fact-sheets/detail/e-coli [Accessed March 15, 2018].

Patent
Marshall, S. P. (2000). Method and apparatus for eye tracking and monitoring pupil dilation to evaluate cognitive activity. U.S. Patent No 6,090,051. Washington, DC: U.S. Patent and Trademark Office.

Data
Perdiguero P, Venturas M, Cervera MT, Gil L, Collada C. Data from: Massive sequencing of Ulms minor's transcriptome provides new molecular tools for a genus under the constant threat of Dutch elm disease. Dryad Digital Repository. (2015) http://dx.doi.org/10.5061/dryad.ps837

Theses and dissertations
Smith, J. (2008) Post-structuralist discourse relative to phenomological pursuits in the deconstructivist arena. [dissertation/master's thesis]. [Chicago (IL)]: University of Chicago

Preprint
Smith, J. (2008). Title of the document. Preprint repository name [Preprint]. Available at: https://persistent-url (Accessed March 15, 2018).

Language style: Articles are published in American English.

Format and software: Articles should be submitted in Word to the *Frontiers in Science* Editorial Office (frontiersinscience@frontiersin.org) using the article-template Word document provided to the authors. The entire document should be double-spaced and contain page and line numbers to facilitate the review process.

Further guidance and support: The Frontiers author instructions provide further instructions, including specific guidance on nomenclature. The Frontiers in Science team can provide support as necessary (contact: frontiersinscience@frontiersin.org).