

## Invited Article

- James Valentine (20 November 1926–7 April 2023), co-founder of *Paleobiology* and master of idiomatically informed nomothetism  
*Charles R. Marshall* 1

## On The Record

- Repairing the scaffolding: women authors in *Paleobiology*  
*Nan Crystal Arens, Levi Holguin and Natalie Sandoval* 9

## Featured Article

- Sorting of persistent morphological polymorphisms links paleobiological pattern to population process  
*Charles Tomomi Parins-Fukuchi* 17

## Articles

- Inferred nutrient forcing on the late middle Eocene to early Oligocene (~40–31 Ma) evolution of the coccolithophore *Reticulofenestra* (order Isochrysidales)  
*Ruigang Ma, Marie-Pierre Aubry, David Bord, Xiaobo Jin and Chuanlian Liu* 29

- Corallite sizes of reef corals: decoupling of evolutionary and ecological trends  
*Danijela Dimitrijević, Nussaibah B. Raja and Wolfgang Kiessling* 43

- A quantitative assessment of ontogeny and molting in a Cambrian radiodont and the evolution of arthropod development  
*Joseph Moysiuk and Jean-Bernard Caron* 54

- Environmental correlates of molluscan predator–prey body size in the northern Gulf of Mexico  
*Luke A. Calderaro, Paul G. Harnik and Marina C. Rillo* 70

- Morphological trends across the Norian/Rhaetian boundary within Late Triassic conodonts in western Canada: implications for protracted paleoenvironmental disturbance preceding the end-Triassic mass extinction  
*Jerry Z. X. Lei, Martyn L. Golding and Jon M. Husson* 85

- Frog limbs in deep time: is jumping locomotion at the roots of the anuran Bauplan?  
*Celeste M. Pérez-Ben, Andrés I. Lires and Raúl O. Gómez* 96

- The egg-thief architect: experimental oviraptorosaur nesting physiology, the possibility of adult-mediated incubation, and the feasibility of indirect contact incubation  
*Jason D. Hogan* 108

- Growth rate affects blood flow rate to the tibia of the dinosaur *Maiasaura*  
*Roger S. Seymour, Heath R. Caldwell, Holly N. Woodward and Qiaohui Hu* 123

- Ontogenetic mechanisms of size change: implications for the Lilliput effect and beyond  
*Caroline P. Abbott, Mark Webster and Kenneth D. Angielczyk* 130

- Transgression–regression cycles drive correlations in Ediacaran–Cambrian rock and fossil records  
*Daniel C. Segessenman and Shanan E. Peters* 150



## Paleobiology

A Journal of the Paleontological Society  
<https://www.cambridge.org/core/journals/paleobiology>

Volume 50, Issues 1-4  
eISSN: 1938-5331; ISSN: 0094-8373

### Editor-in-Chief

James Crampton, Victoria University of Wellington | Te Herenga Waka, New Zealand

### Editors

Kevin Boyce, Stanford University, USA  
Nadia Fröbisch, Museum für Naturkunde, Germany  
Melanie Hopkins, American Museum of Natural History, USA  
Erin Saupe, University of Oxford, UK

### Managing Editor

Jessica Kastigar, Cincinnati, OH, USA

### Associate Editors

Nicolás Campione, University of New England, Australia  
Laurel Collins, Florida International University, USA  
Matt Friedman, University of Michigan, USA  
John Huntley, University of Missouri, USA  
Lee Hsiang Liow, University of Oslo, Norway  
Cynthia Looy, University of California Berkeley, USA  
Caroline Strömberg, University of Washington, USA  
Adam Tomasovych, Slovak Academy of Sciences, Slovak Republic  
Rachel Warnock, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Information about editors and editorial board members correct as of 1st January 2023. For the latest information please see <https://www.cambridge.org/core/journals/paleobiology/information/editorial-board>

### The Patrons Fund

The Patrons Fund was established to broaden the basis of financial support for Paleobiology and thus to encourage paleontological publication.

To become a Patron, send a check payable to Paleobiology to:

Paleobiology Patrons Fund  
The Paleontological Society  
P.O. Box 9044  
Boulder, CO 80301-9044.

The Paleontological Society gratefully acknowledges the following Patrons of Paleobiology:

PAOLO CUSTODI	MARK PATZKOWSKY	SHERMAN SUTER
DOUGLAS ERWIN	JONATHAN PAYNE	ROGER THOMAS
JOHN HANDLEY	DAVID RODLAND	BRUCE TIFFNEY
ALAN LORD	IN MEMORY OF TOM SCHOPF	RON WASZCZAK
HARUYOSHI MAEDA	ANDREJ SPIRIDONOV	JOHNNY WATERS
WILLIAM MILLER III	JACEK SULANOWSKI	

### Aims & Scope

Paleobiology publishes original contributions of any length (but normally 10-50 manuscript pages) dealing with any aspect of biological paleontology. Emphasis is placed on biological or paleobiological processes and patterns, including macroevolution, extinction, diversification, speciation, functional morphology, bio-geography, phylogeny, paleoecology, molecular paleontology, taphonomy, natural selection and patterns of variation, abundance, and distribution in space and time, among others. Taxonomic papers are welcome if they have significant and broad applications. Papers concerning research on recent organisms and systems are appropriate if they are of particular interest to paleontologists. Papers should typically interest readers from more than one specialty. Proposals for symposium volumes should be discussed in advance with the editors.

### The Paleontological Society

The Paleontological Society is an international nonprofit organization devoted exclusively to the advancement of the science of paleontology: invertebrate and vertebrate paleontology, micropaleontology, and paleobotany. The Society was founded in 1908 in Baltimore, Maryland, and was incorporated in April 1968 in the District of Columbia. The Society has several membership categories, including regular, student, and retired. Members, representing 40 countries, consist of professional paleontologists, academicians, science editors, earth-science teachers, museum specialists, and undergraduate and graduate students and post doctoral scholars, as well as avocational paleontologists.

© The Paleontological Society  
Published by Cambridge University Press.



**CAMBRIDGE**  
UNIVERSITY PRESS

