

EDITORIAL

2020 – A year of changes, challenges and opportunities

Craig Franklin

2020 turned out to be an eventful year – and not just because of the huge impact of COVID-19. From a journal perspective, JEB has seen lots of changes too, particularly within the team of editors. We said a sad farewell to both Michael Dickinson and Editor-in-Chief (EiC) Hans Hoppeler – both of whom continue to serve the journal as members of the Editorial Advisory Board – and welcomed new Editors Sanjay Sane and Stuart Egginton. Sheila Patek and Pat Wright expanded their current roles to take up new positions as Deputy EiCs and I took on the new challenge of becoming JEB's ninth EiC. As announced last year (jeb232892), Andy Biewener will be stepping down in April after more than 20 years as a JEB Editor – we will miss his hard work and experience but look forward to welcoming him back briefly next year as one of the scientific organisers of the 2022 JEB Symposium 'Integrating Biomechanics, Energetics and Ecology in Locomotion'. In his place, Monica Daley (University of California, Irvine, USA) will be bringing her expertise in comparative neuromechanics and animal locomotion to the team and, together with Sheila and Sanjay, will be handling papers across the biomechanics field.

The other big change across the scientific publishing industry in 2020 has been the shift to new Open Access (OA) publishing models as a result of a number of funders (under the umbrella of cOAlition S) mandating publication in fully OA (rather than hybrid subscription/OA) journals. Historically, as a hybrid journal, take-up of JEB's Gold OA publishing option has been relatively low (in 2019, only 1% of authors opted to publish their research as OA), probably reflecting the differences in funding in the comparative physiology and biomechanics fields compared with that in other scientific disciplines. It was therefore important for us to ensure that, whatever changes we made to comply with funder mandates, all our authors were still able to publish in JEB. As such, JEB became one of the first three journals to announce its transition to transformative journal status – i.e. a journal that actively promotes the benefits of OA to increase uptake but still maintains the ability for authors with differing financial/funder status to publish under a free Green OA route (see jeb237248). OA is clearly the direction of travel – not least because OA articles generally have higher usage and readership than papers behind a subscription paywall – so we also introduced a new 'Read & Publish' licensing agreement for libraries in 2020. This offers researchers at participating institutions the usual subscription access to journal content, but also gives corresponding authors at the institution free and uncapped publication of Gold OA articles in JEB and its sister journals, *Journal of Cell Science* and *Development*. Over 60 institutions have already signed up for this initiative (<https://www.biologists.com/read-publish/participating-institutions/>) and the percentage of JEB authors publishing their research papers under the OA model increased to 6% in 2020.

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What did remain constant throughout 2020, however, was the dedication of our peer reviewers and Editorial Advisory Board. A list of all the researchers who contributed to the peer review process during 2020 can be found in the supplementary information and I would like to acknowledge their hard work and support during what can only be described as 'challenging' times. Despite the increased workloads foisted upon many of our community as they learnt how to teach and support their students and colleagues in a virtual world while simultaneously juggling childcare, home schooling and keeping their research going, they still found time

Box 1. Some of the articles readers have enjoyed during 2020, compiled using a variety of measures

Most-read research papers

Usherwood, J. R., Cheney, J. A., Song, J., Windsor, S. P., Stevenson, J. P. J., Dierksheide, U., Nila, A. and Bompfrey, R. J. (2020). High aerodynamic lift from the tail reduces drag in gliding raptors. *J. Exp. Biol.* **223**, jeb214809.

Morris, J. S., Link, J., Martin, J. C. and Carrier, D. R. (2020). Sexual dimorphism in human arm power and force: implications for sexual selection on fighting ability. *J. Exp. Biol.* **223**, jeb212365.

Goulet, P., Guinet, C., Campagna, C., Campagna, J., Tyack, P. L. and Johnson, M. (2020). Flash and grab: deep-diving southern elephant seals trigger anti-predator flashes in bioluminescent prey. *J. Exp. Biol.* **223**, jeb222810.

Most-cited research papers

Potier, S., Lieuvin, M., Pfaff, M. and Kelber, A. (2020). How fast can raptors see? *J. Exp. Biol.* **223**, jeb209031.

Ackermans, N. L., Winkler, D. E., Martin, L. F., Kaiser, T. M., Clauss, M. and Hatt, J.-M. (2020). Dust and grit matter: abrasives of different size lead to opposing dental microwear textures in experimentally fed sheep (*Ovis aries*). *J. Exp. Biol.* **223**, jeb220442.

Zimmer, A. M., Shir-Mohammadi, K., Kwong, R. W. M. and Perry, S. F. (2020). Reassessing the contribution of the Na⁺/H⁺ exchanger Nhe3b to Na⁺ uptake in zebrafish (*Danio rerio*) using CRISPR/Cas9 gene editing. *J. Exp. Biol.* **223**, jeb215111.

Most-reported research paper in the media

Winder, L. A., White, S. A., Nord, A., Helm, B. and McCafferty, D. J. (2020). Body surface temperature responses to food restriction in wild and captive great tits. *J. Exp. Biol.* **223**, jeb220046.

Most-read Review

Matthews, B. J. and Vosshall, L. B. (2020). How to turn an organism into a model organism in 10 'easy' steps. *J. Exp. Biol.* **223**, jeb218198.

Most-read Commentary

Olson, K. R. (2020). Reactive oxygen species or reactive sulfur species: why we should consider the latter. *J. Exp. Biol.* **223**, jeb196352.

Most-cited Review/Commentary

Joyce, W. and Wang, T. (2020). What determines systemic blood flow in vertebrates? *J. Exp. Biol.* **223**, jeb215335.

Most talked-about Conversation

In the field: an interview with Sandra Binning and Dominique Roche. (2020) *J. Exp. Biol.* **223**, jeb229534.

to provide critical analysis of the diverse array of fascinating papers submitted to the journal last year. I extend my heartfelt thanks and appreciation.

Moving forward into 2021, look out for our special issue entitled 'Predicting the future: species survival in a changing world', where we will be considering the role of experimental biology in assessing the susceptibility or resilience of species to future, human-induced environmental change. In a series of review articles, experts working across a variety of taxa and environmental drivers will be reflecting on how the field has changed since our last special issue on this topic in 2010 (<https://jeb.biologists.org/content/213/6>). Not only has the field changed over the past decade, but the world has also changed dramatically. Eight of the warmest years on record have been logged since 2010, extreme weather events have increased in frequency, oceans have become more acidic and Arctic sea ice extent continues to decrease. There couldn't be a more important time to illustrate how experimental biology and comparative physiology can provide

critical insight into the impacts of global change on animals and ecosystems and what the future might look like.

Later in the spring, we will be launching a new-look JEB website, in collaboration with our new online partner, Silverchair. In addition to greater options for viewing content, including a split-screen view allowing readers to see figures, references and supplementary material alongside the article text, we are looking forward to offering more flexibility in the services that we can provide to our authors and readers.

2020 has certainly been a year of challenges and opportunities and I would like to finish by highlighting some of the papers that readers have enjoyed during the year (Box 1) and wishing you all a productive and healthy 2021.

Supplementary information

Supplementary information available online at
<https://jeb.biologists.org/lookup/doi/10.1242/jeb.242155.supplemental>

List of reviewers (1 January – 31 December 2020)

Emily Abbott, Georgia Institute of Technology, USA

Hideki Abe, University of Tokyo, Japan

Thomas Abrams, University of Maryland, USA

Peter Adamczyk, University of Wisconsin-Madison, USA

Shelley Adamo, Dalhousie University, Canada

Coenraad Adema, University of New Mexico, USA

Peter Aerts, University of Antwerp, Belgium

Raise Ahmad, AgResearch Ltd, New Zealand

Anna Ahn, Harvey Mudd College, USA

Otar Akanyeti, Aberystwyth University, United Kingdom

Volkan Aksoy, Trakya University, Turkey

Joerg Albert, UCL School of Life and Medical Sciences, United Kingdom

Declan Ali, University of Alberta, Canada

Daiana Almeida De Souza, North Carolina State University, USA

Carlos Alonso-Alvarez, Museo Nacional de Ciencias Naturales, CSIC, Spain

Jordi Altimiras, Linköping University, Sweden

Douglas Altshuler, University of British Columbia, Canada

Mads Andersen, Carleton University, Canada

Erik Anderson, Woods Hole Oceanographic Institution, USA

Gary Anderson, University of Manitoba, Canada

Phillip Anderson, University of Illinois at Urbana-Champaign, USA

Rindy Anderson, Florida Atlantic University, USA

Denis Andrade, São Paulo State University (UNESP), Brazil

Fredrik Andreasson, Lund University, Sweden

Sumana Annagiri, Indian Institute of Science Education and Research (IISER), India

Katja Anttila, University of Turku, Finland

Jaywant Arakeri, Indian Institute of Science, India

Roberto Arbore, Instituto Gulbenkian de Ciência Oeiras, Portugal

Daniel Ardia, Franklin and Marshall College, USA

Andres Arenas, University of Buenos Aires, Argentina

Kentaro Arikawa, SOKENDAI, Japan

Shahaf Armon, Weizmann Institute of Science, Israel

Eric Armstrong, University of California, Berkeley, USA

Aristides Arrenberg, University of Tübingen, Germany

Nikolay Aseyev, Institute of Higher Nervous Activity and Neurophysiology, Russian Federation

Noah Ashley, Western Kentucky University, USA

Miriam Ashley-Ross, Wake Forest University, USA

James Ashton-Miller, University of Michigan, USA

Graham Askew, University of Leeds, United Kingdom

Henry Astley, University of Akron, USA

Nigel Atkinson, University of Texas, Austin, USA

Nadia Aubin-Horth, Laval University, Canada

Sonya Auer, Williams College, USA

Matthew Austin, University of Missouri - St Louis (UMSL), USA

Aurore Avargues-Weber, University Toulouse III - Paul Sabatier, France

David Awde, University of Kentucky, USA

Michael Axelsson, University of Gothenburg, Sweden

Manfred Ayasse, University of Ulm, Germany

Miriam Ayuso Hernando, University of Antwerp, Belgium

Manny Azizi, University of California, Irvine, USA

Davide Badano, University of Genoa, Italy

Christyn Bailey, Fish Immunology and Pathology Laboratory (CISA-INIA), Madrid, Spain

Emily Baird, Stockholm University, Sweden

George Bakken, Indiana State University, USA

Rohini Balakrishnan, Indian Institute of Science, India

G. S. Balamurali, Indian Institute of Science Education and Research, India

Karen Bales, University of California, Davis, USA

Bill Baltzopoulos, Liverpool John Moores University, United Kingdom

Meir Barak, Long Island University, USA

Eugene Baranov, Baikal Seal Aquarium, Russian Federation

Jesse Barber, Boise State University, USA

Espen Bariås, University of Bergen, Norway
Brian Barnes, University of Alaska Fairbanks, USA
Felipe Barreto, Oregon State University, USA
Andrew Barron, Macquarie University, Australia
Friedrich Barth, University of Vienna, Austria
Ian Bartol, Old Dominion University, USA
Norasmah Basari, Universiti Malaysia Terengganu, Malaysia
Andrew Bass, Cornell University, USA
Eleonora Bassino, University of Turin, Italy
Christina Bauch, Groningen Institute for Evolutionary Life Sciences, Germany
Carolyn Bauer, Adelphi University, USA
Raymond Bauer, University of Louisiana at Lafayette, USA
Otto Baumann, University of Potsdam, Germany
Ryan Bavis, Bates College, USA
Mark Bayley, University of Aarhus, Denmark
Julian Beaman, Monash University, Australia
Laura Beani, University of Florence, Italy
Michael Beaulieu, German Oceanographic Museum, Germany
Steven Beaupre, University of Arkansas, USA
Claus Bech, Norwegian University of Science and Technology, Norway
Michelle Beck, Rivier University, USA
Owen Beck, Georgia Institute of Technology, USA
Leandro Becker, IDEAUS (CENPAT-CONICET), Argentina
Mark Bee, University of Minnesota, USA
Kristian Beedholm, Aarhus University, Denmark
Dimitris Beis, Academy of Athens, Greece
Patricia Beldade, Instituto Gulbenkian de Ciência Oeiras, Portugal
Thejasvi Beleyur, Max Planck Institute for Ornithology, Germany
Miriam Belmaker, University of Tulsa, USA
Barbara Beltz, Wellesley College, USA
Gregor Belušič, University of Ljubljana, Slovenia

Jan Benda, University of Tübingen, Germany

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Nicholas Bernier, University of Guelph, Canada

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John Bertram, University of Calgary, Canada

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Horst Bleckmann, University of Bonn, Germany

Tamzin Blewett, University of Alberta, Canada

Reinhard Blickhan, Friedrich Schiller University Jena, Germany

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Simone Blomberg, University of Queensland, Australia

Gary Blomquist, University of Nevada, USA

Robert Bloodgood, University of Virginia Health System, USA

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Kirsten Bohn, Johns Hopkins, USA

Humberto Boncristiani, University of Florida, USA

Fran Bonier, Queen's University, Canada

Xavier Bonnet, Centre National de la Recherche Scientifique (CNRS), France

David Booth, The University of Queensland, Australia

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Vilmante Borutaite, Lithuanian University of Health Sciences, Lithuania

Youcef Bouchekioua, Hokkaido University Graduate School of Medicine, Japan

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Ian Bouyoucos, ARC Centre of Excellence for Coral Reef Studies, Australia

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John Costello, Providence College, USA

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Noah Cowan, Johns Hopkins University, USA

Georgina Cox, University of Guelph, Canada

Robert Cox, University of Virginia, USA

Kristen Crandell, Bangor University, United Kingdom

Alison Cree, University of Otago, New Zealand

Bronwen Cribb, The University of Queensland, Australia

Roger Croll, Dalhousie University, Canada

Makaylee Crone, Pennsylvania State University, USA

Thomas Cronin, University of Maryland, USA

Adam Cronin, Tokyo Metropolitan University, Japan

Dane Crossley II, University of North Texas, USA

Jenna Crowe-Riddell, University of Michigan, USA

Darron Cullen, University of Cambridge, United Kingdom

Suzie Currie, Acadia University, Canada

Shannon Currie, Institute for Zoo and Wildlife Research, Germany

Nancy Curtin, Imperial College School of Medicine, United Kingdom

Tomer Czaczkes, University of Regensburg, Germany

Marcin Czarnoleski, Jagiellonian University, Poland

Rodrigo da Rosa, Federal University of Rio Grande do Sul (UFRGS), Brazil

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Matthieu Dacher, Sorbonne University, France

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Monica Daley, University of California, Irvine, USA
Anne Dalziel, Saint Mary's University, Canada
Christian Damsgaard, University of British Columbia, Canada
Peter Daniel, Hofstra University, USA
Raymond Danner, University of North Carolina Wilmington, USA
Nicole Danos, University of San Diego, USA
Kristiaan D'Aout, University of Liverpool, United Kingdom
Charles Darveau, University of Ottawa, Canada
Yannicke Dauphin, Museum National d'Histoire Naturelle, France
Ana Sofia David Fernandes, University of Sussex, United Kingdom
Shireen Davies, University of Glasgow, United Kingdom
Randall Davis, Texas A&M University, USA
Hannah Davis, Carleton University, Canada
Simon Davy, Victoria University of Wellington, New Zealand
Gudrun De Boeck, University of Antwerp, Belgium
Sietse de Boer, University of Groningen, Netherlands
Maarten de Groot, Slovenian Forestry Institute, Slovenia
David De Jong, University of São Paulo, Brazil
Gustavo de Miranda, Smithsonian Institution, USA
Mason Dean, Max Planck Institute, Germany
Paul Dean, University of Sheffield, United Kingdom
Stephen Deban, University of South Florida, USA
Allan Degen, Ben-Gurion University of the Negev, Israel
Hans Degens, Manchester Metropolitan University, United Kingdom
Ari Dehn, Boston College, USA
Kristen DeMoranville, University of Rhode Island, USA
Dale DeNardo, Arizona State University, USA
Mark Denny, Stanford University, USA
Robert Denver, University of Michigan, USA
Annette Denzinger, University of Tuebingen, Germany
Charles Derby, Georgia State University, USA

Davina Derous, University of Aberdeen, United Kingdom
Stacy DeRuiter, Calvin College, USA
Maya deVries, UC San Diego, USA
Pietro di Prampero, University of Udine, Italy
Valentina Di Santo, Stockholm University, Sweden
Candido Diaz, University of Akron, USA
Francisco Diaz-Fleischer, Universidad Veracruzana, Mexico
Taylor Dick, University of Queensland, Australia
Morag Dick, University of Toronto, Canada
Ralph DiLeone, Yale University, USA
Michael Dillon, University of Wyoming, USA
James Dimond, Western Washington University, USA
Marc Dionne, Imperial College London, United Kingdom
Petra Ditsche, University of Alaska Anchorage, USA
Adam Dobson, University of Glasgow, United Kingdom
Paolo Domenici, IAS-CNR Oristano, Italy
Davide Dominoni, University of Glasgow, United Kingdom
Nathaniel Dominy, Dartmouth College, USA
Cassandra Donatelli, University of Ottawa, Canada
Jennifer Donelson, James Cook University, Australia
Yunwei Dong, Xiamen University, China
Andrew Donini, York University, Canada
Robert Dooling, University of Maryland, USA
Angela Douglas, Cornell University, USA
Ron Douglas, City, University of London, United Kingdom
Natalia Dounskaia, Arizona State University, USA
Julian Dow, University of Glasgow, United Kingdom
W. Dowd, Washington State University, USA
Nicolas Dowdy, Wake Forest University, USA
Cynthia Downs, SUNY College of Environmental Science and Forestry, USA
David Dreyer, Lund University, Sweden

William Driedzic, Memorial University of Newfoundland, Canada
Robert Dudley, University of California, Berkeley, USA
Kristin Duffield, USA Department of Agriculture, USA
Grant Duffy, Monash University, Australia
France Dufresne, UQAR, Canada
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Rebecca Dunlop, University of Queensland, Australia
Anne Duploux, Lund University, Sweden
Bruno Duran, São Paulo State University (UNESP), Brazil
Adrian Dyer, RMIT University, Australia
Yvonne Dzal, University of Winnipeg, Canada
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Chad Eliason, Field Museum of Natural History, USA
Yossef Elimelech, Technion Israel Institute of Technology, Israel
David Ellerby, Wellesley College, USA
Kyle Elliott, McGill University, Canada
Chris Elliott, University of York, United Kingdom
Michael Elnitsky, Mercyhurst University, USA

Christophe Eloy, Centrale Marseille, France

John Eme, California State University San Marcos, USA

Richard Emlet, Oregon Institute of Marine Biology, USA

Koilmani Emmanuvel Rajan, Bharathidasan University, India

Anders Enjin, Lund University, Sweden

Manfred Enstipp, Institut Pluridisciplinaire Hubert Curien (IPHC)/CNRS, France

Silvio Erlen, Julius Kuehn-Institut, Germany

Andrew Esbaugh, University of Texas at Austin, USA

Richard Essner, Southern Illinois University, USA

Sandeep Eswarappa, Indian Institute of Science, USA

Alistair Evans, Monash University, Australia

Randy Ewoldt, University of Illinois at Urbana-Champaign, USA

Sam Fabian, Imperial College London, United Kingdom

Angela Fago, Aarhus University, Denmark

Andreas Fahlman, Fundació Oceanogràfic de la Comunitat Valenciana, Spain

Philip Fahn-Lai, Harvard University, USA

Susan Fahrback, Wake Forest University, USA

Christopher Fang-Yen, University of Pennsylvania, USA

Walter Farina, Universidad de Buenos Aires, Argentina

C. G. Farmer, University of Utah, USA

Anthony Farrell, University of British Columbia, Canada

Hamilton Farris, Louisiana State University HSC, USA

Dominic Farris, University of Exeter, United Kingdom

Erin Faught, University of Calgary, Canada

Walter Federle, University of Cambridge, United Kingdom

Ken Fedorka, University of Central Florida, USA

Kathryn Feller, University of Minnesota, USA

Brock Fenton, University of Western Ontario, Canada

Laura Ferguson, Acadia University, Canada

Marcos Ferraz, Universidade do Estado do Rio de Janeiro, Brazil

Paola Ferrero, Centro de Investigaciones Cardiovasculares, Argentina

Guido Ferretti, University of Geneva, Switzerland
Andre Fiala, University of Gottingen, Germany
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