ARCDB Goes Open in 2023!

Welcome to Volume 38 of the *Annual Review of Cell and Developmental Biology* (ARCDB). This is the third year in which our labs and lives have operated under pandemic conditions. The Editorial Committee identified and invited authors to write for this volume in the Fall of 2020! Thus, more than ever under these uncertain and stressful times, this collection of articles speaks to the resilience of our authors to commit to the arduous exercise of researching, synthesizing, and composing scholarly reviews. On behalf of the Editorial Committee, we thank them for their thoughtful and thought-provoking contributions. Each volume of ARCDB is a collection of review articles whose contents are drawn from the vast body of life science that specifically relates to cellular and developmental processes. In this volume, several review articles synthesize a large body of work on how cells are organized, such as a series of articles on cilia structure and function and motor protein machinery assembly, as well as reviews on senescence and mitochondrial and protein degradation highlighting the signaling effects of organelles beyond intracellular homeostasis. We also learn about recent breakthroughs in unraveling the mechanisms that control transport between the double membranes of gram-negative bacteria and the multitude of functions that circular DNA use to regulate gene expression. In the contexts of development, immunology, and neurobiology, several reviews integrate our understanding of cell and tissue behavior to reveal the building principles that generate organs and even organisms. For most developmental and cell biologists, seeing is believing. Several articles report on the development of new imaging tools that can bridge between scales from molecule to cell and to tissue and organism and that quantitatively assess patterns in time and space. Together, the articles in this volume should provide a strong foundation of knowledge and encourage the reader to reach for the unknown.

Articles in Annual Reviews (AR) journals are written by experts in the field. However, they not only serve specialists but also need to be comprehensible and approachable to scholars in other fields as well as to students and teachers. This basic goal is exemplified by the fact that the average half-life of an ARCDB article is more than 10 years. This means that half of citations to ARCDB articles are made to articles that are 10 years old, which is significantly longer than the 2- to 3-year half-life of the average scientific paper. For such a broad distribution and immense impact, it is crucial that AR articles are easy to access. Indeed, when AR temporarily dropped access restrictions for all AR journals in 2020, making the content accessible to all, views and downloads for

https://doi.org/10.1146/annurev-cb-38-072922-100001

articles in ARCDB and other AR journals quadrupled. For long-term sustainability, AR has developed a potentially transformative publishing strategy called Subscribe to Open (S2O), whereby libraries commit to supporting journal subscriptions, thereby making open access (OA) possible. If enough libraries participate, the costs for professional review and the publication process can be supported. Many funding agencies now require that authors publish their research OA. Importantly, the S2O strategy makes OA affordable for nonprofit publishers such as AR and society journals and creates a clearly needed and sustainable alternative to the egregious costs charged to authors for OA by for-profit publishers. Previously, eight AR journals have participated in an OA pilot project. Among these are the *Annual Review of Virology* and the *Annual Review of Public Health*, which, especially during the present health crisis, have provided a timely source for authoritative information available to everyone—students, teachers, policy makers, and healthcare workers. We are delighted that ARCDB will become open access with Volume 39. If you would like to learn more about OA requirements and S2O strategy, please visit https://www.annualreviews.org/page/subscriptions/subscribe-to-open.

Jennifer Lippincott-Schwartz and Alex Schier are the Associate Editors, and Mike Dustin, Sandy Johnson, Erin Schuman, Paola Arlotta, and Hao Yu are the members of our Editorial Committee. Particular thanks go out to Suzanne Olivier, our Production Editor, for her unwavering support to editors and authors alike. We thank Jennifer Jongsma and AR for continued support. We present this volume with our best wishes for informative and fun reading.

Ruth Lehmann, PhD
Editor, ARCDB