

Trends in Parasitology 2023 January issue

Genomic epidemiology of sexually recombining parasites

In this issue, Camponovo, Buckee and Taylor define a new concept of measurably recombining pathogens, and using this concept propose an analysis framework linking genomic and epidemiological processes. The cover image illustrates how genomic variation resulting from sexual recombination arises over time in a *Plasmodium* population.

Cover credit:

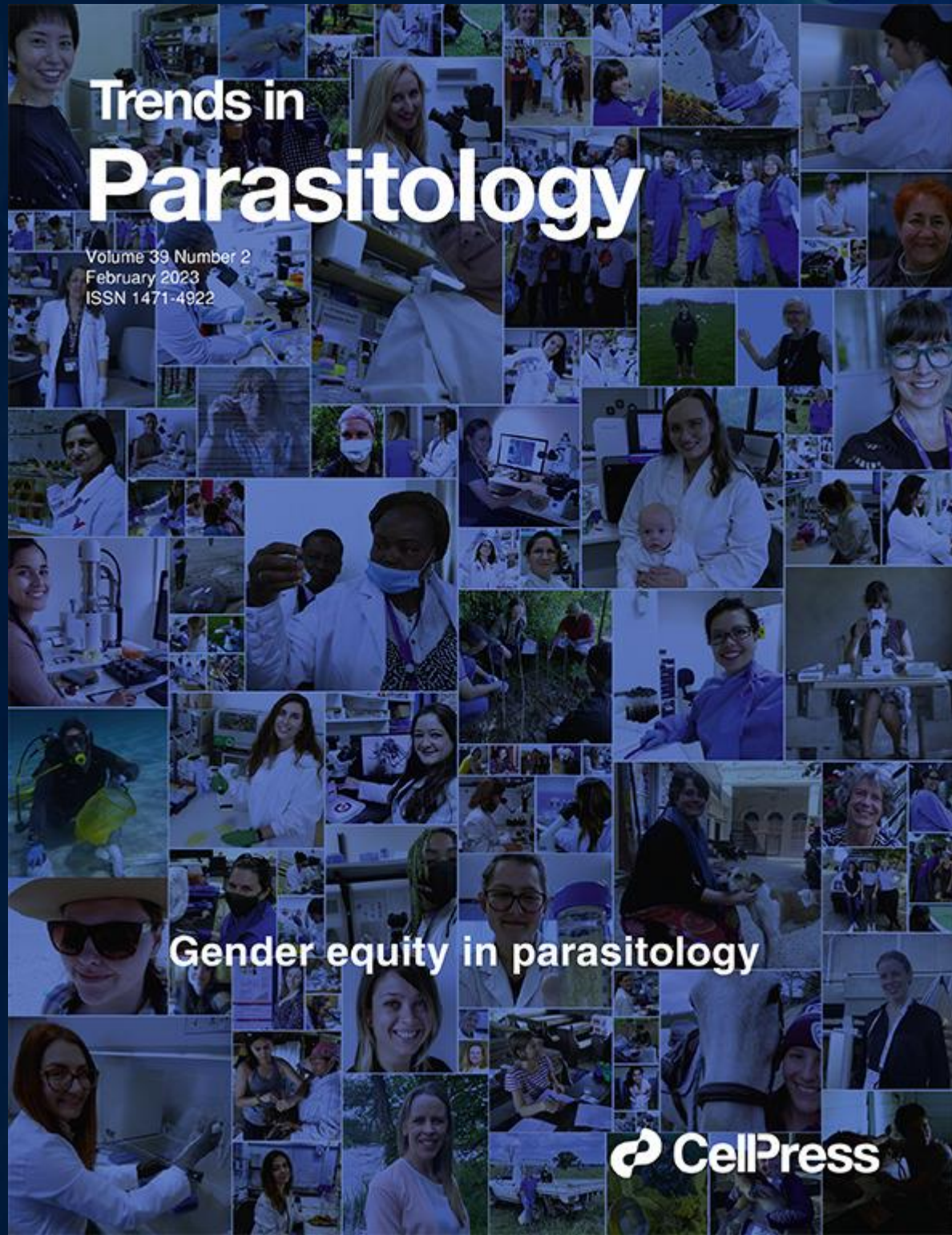


Flavia Camponovo



Caroline Buckee





Trends in Parasitology 2023 February issue

Gender equity in parasitology

In this issue, Calvani, de Marco Verissimo, Cantacessi, Clark and Kanduma describe the barriers faced by women in the academic workforce and provide a snapshot of the current gender inequity amongst parasitology award winners, societies and journal editorial boards. The cover features the 100 women parasitologists profiled by *Herminthology* in the first 12 months since its launch in August 2021.

Cover credit:



Herminthology



Nichola Calvani





Trends in Parasitology 2023 March issue

Imaging parasite migration

In this issue, de Korne, van Lieshout, van Leeuwen and Roestenberg discuss the role imaging technology has played so far in parasitology and provide an outlook of what imaging may bring to the field of parasitology. The cover image shows the migratory paths of schistosomes and *Plasmodium* parasites, including the different “stations” where these parasites can currently be imaged.

Cover credit:



Clarize de Korne



Eric Brienen



Trends in Parasitology

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Trypanosome social
motility and pH taxis

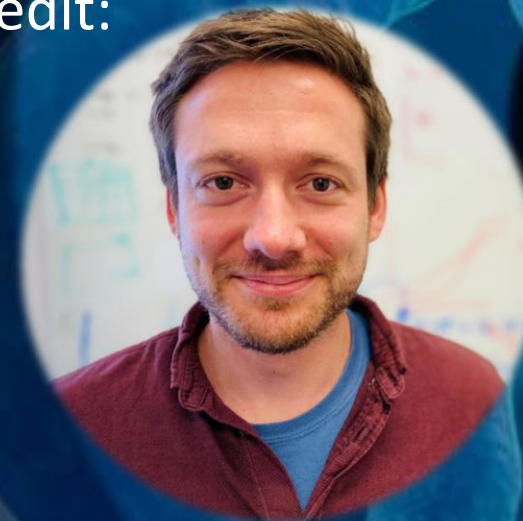
 CellPress

Trends in Parasitology 2023 April issue

Trypanosome social motility and pH taxis

In this issue, Shaw and Roditi describe the links between trypanosome social motility, metabolism, cyclic AMP signalling and the early steps in the parasite's journey through its tsetse fly host. The cover image shows the trypanosome communities stained with antibodies detecting EP procyclin (expressed by all procyclic forms, green) and GPEET procyclin (specific for early procyclic forms, red).

Cover credit:



Sebastian Shaw



Isabel Roditi


CellPress

Trends in Parasitology

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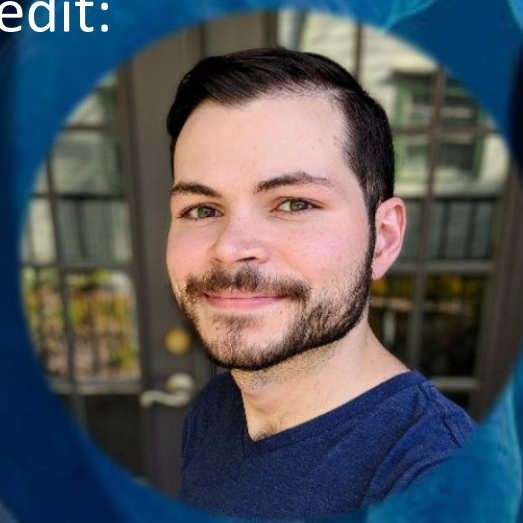
ChatGPT: Your new parasitologist?

Trends in Parasitology 2023 May issue

ChatGPT: Your new parasitologist?

In this issue, Šlapeta reflects on ChatGPT and AI in general in both science and parasitology education. The cover image uses text produced by ChatGPT when prompted to suggest three major parasitological challenges to be tackled by 2030. The illustration evokes the imaginary relentless flow of words on a background image of a trypanosome.

Cover credit:



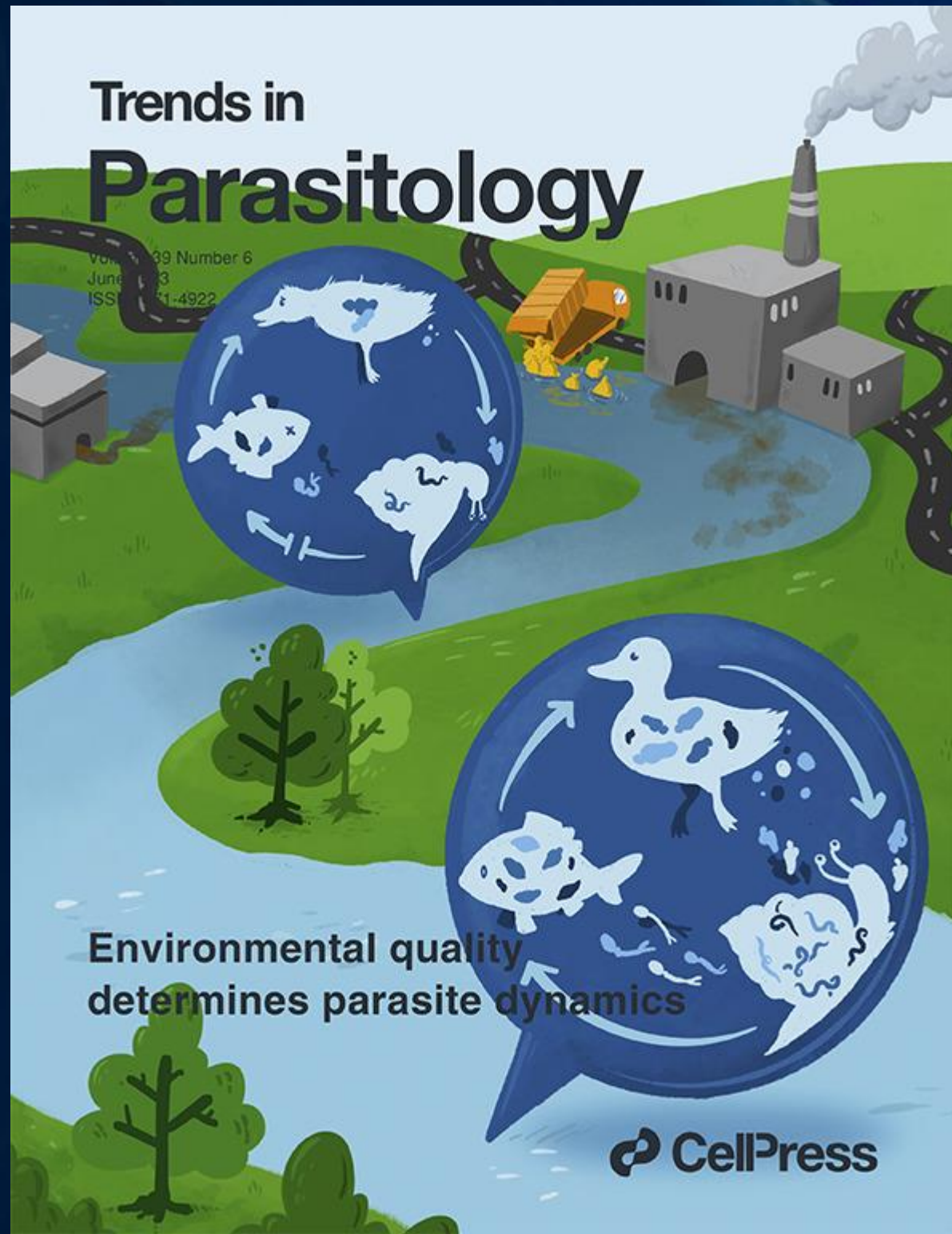
Antony Kolenc



Jan Šlapeta



CellPress



Trends in Parasitology 2023 June issue

Environmental quality determines parasite dynamics

In this issue, Sures, Nachev, Schwelm, Grabner and Selbach provide an overview of the impacts of major stressors of the Anthropocene and highlight their consequences for aquatic parasites and their hosts. The cover image illustrates how environmental quality can impact parasites with complex life cycles, such as digenean trematodes.

Cover credit:



Jonas Heidebrecht

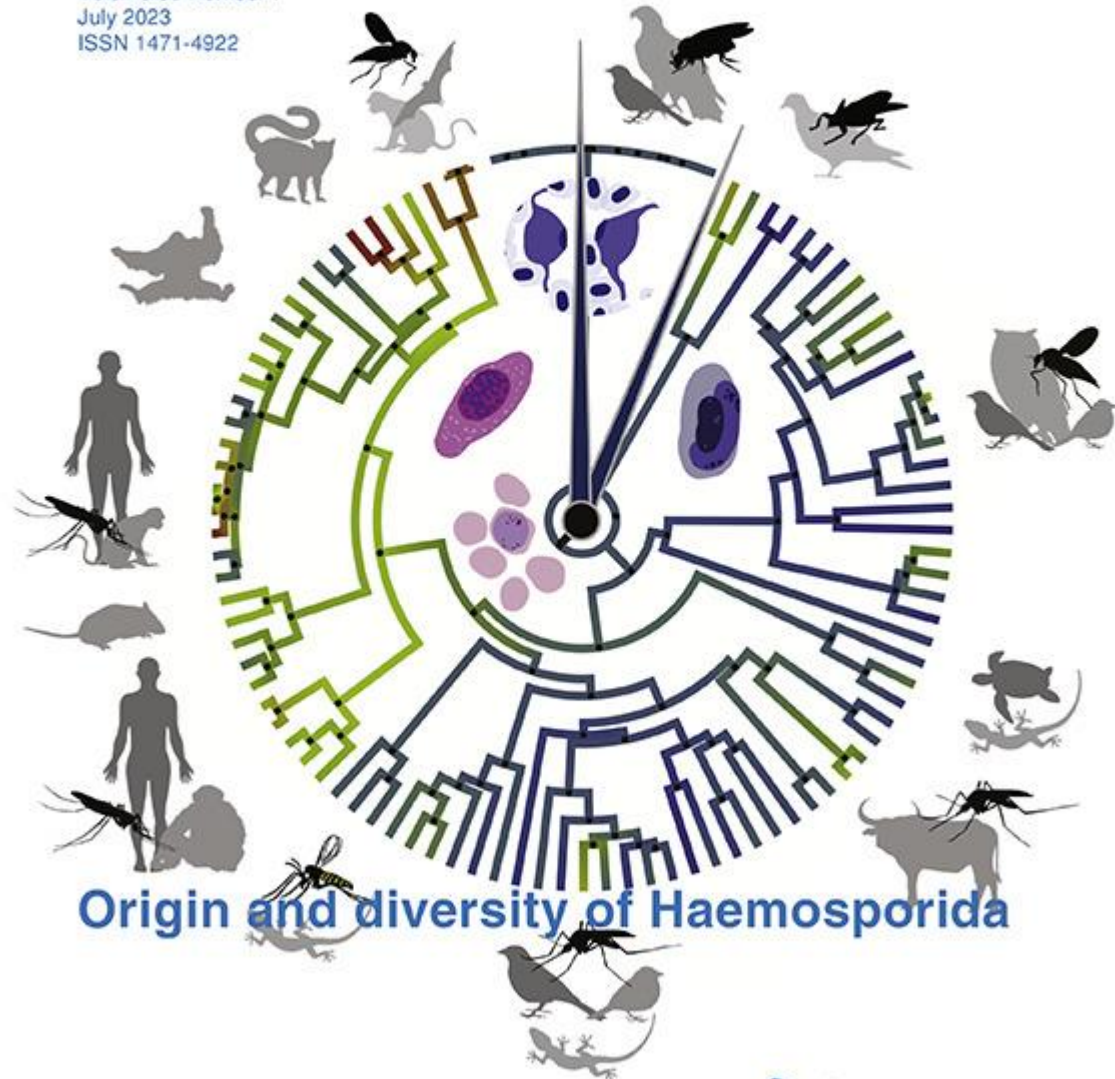


Bernd Sures



Trends in Parasitology

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Origin and diversity of Haemosporida

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Trends in Parasitology 2023 July issue

Origin and diversity of Haemosporida

In this issue, Pacheco and Escalante review the current understanding of the diversity, phylogenetic relationships, and origins of the haemosporidian protists. The cover image depicts a simplified phylogeny and their relationships with the two types of hosts, invertebrates from the order Diptera, and three classes of vertebrates: Reptilia, Aves, and Mammalia, including humans.

Cover credit:



M. Andreína Pacheco



Ananias Escalante


CellPress

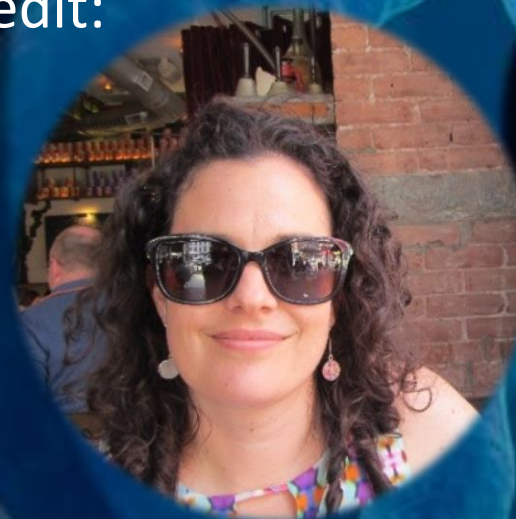


Trends in Parasitology 2023 August issue

Volume electron microscopy: advancing parasitology in 3D

In this issue, Cooper, Thompson and Clode highlight the strengths and limitations of different 3D volume microscopy techniques and how they are advancing parasitology research. The cover image depicts multiple 3D rendered *Trypanosoma copemani* cells with the subcellular structures and organelles exposed.

Cover credit:

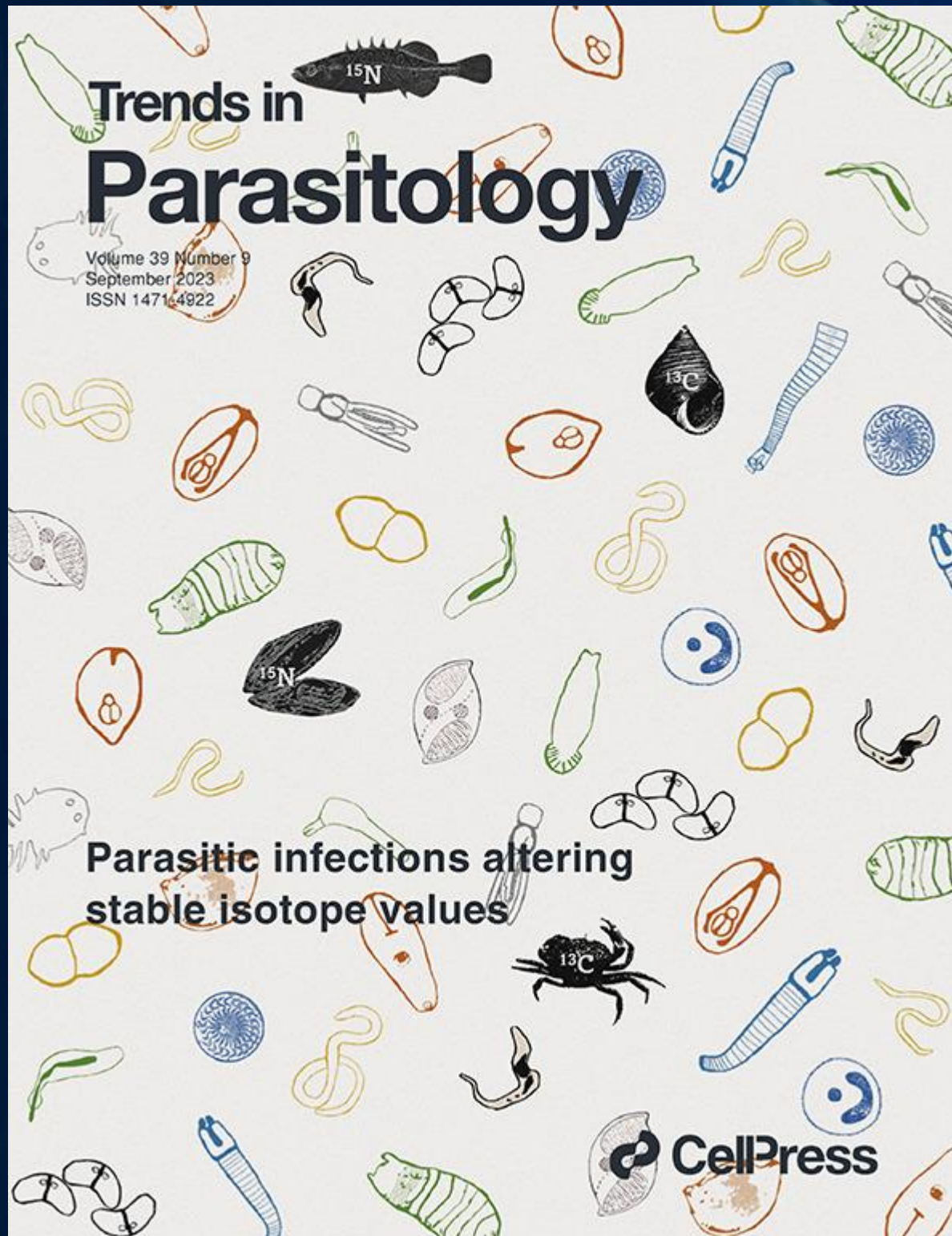


Crystal Cooper



Peta Clode





Trends in Parasitology 2023 September issue

Parasitic infections altering stable isotope values

In this issue, Born-Torrijos, Riekenberg, van der Meer, Nachev, Sures and Thieltges outline the potential mechanisms through which parasites can cause changes in host stable isotope values. The cover image shows the diversity of parasites capable of impacting the stable isotopes of infected individuals.

Cover credit:



Ana Born-Torrijos



Philip Riekenberg

Trends in Parasitology

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Monocytes during
Toxoplasma gondii infection

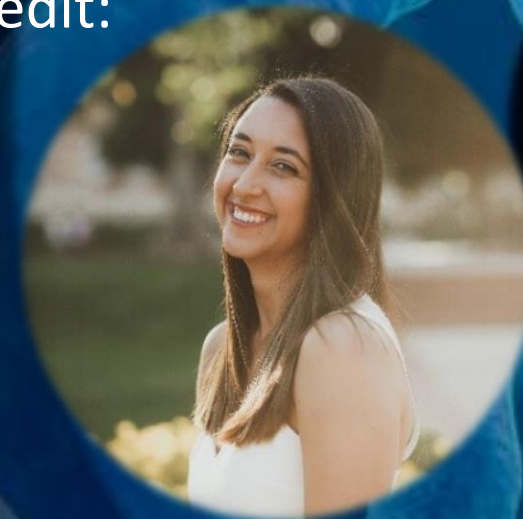
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Trends in Parasitology 2023 October issue

Monocytes during *Toxoplasma gondii* infection

In this issue, Orchanian and Lodoen review the journey of monocytes during infection, starting with their origin from hematopoietic stem cells to recruitment to the inflammation sites, and finally their inflammatory and immunoregulatory functions. The cover image depicts the recruitment of infiltrating myeloid cells to a *T. gondii* cluster in mouse brain.

Cover credit:

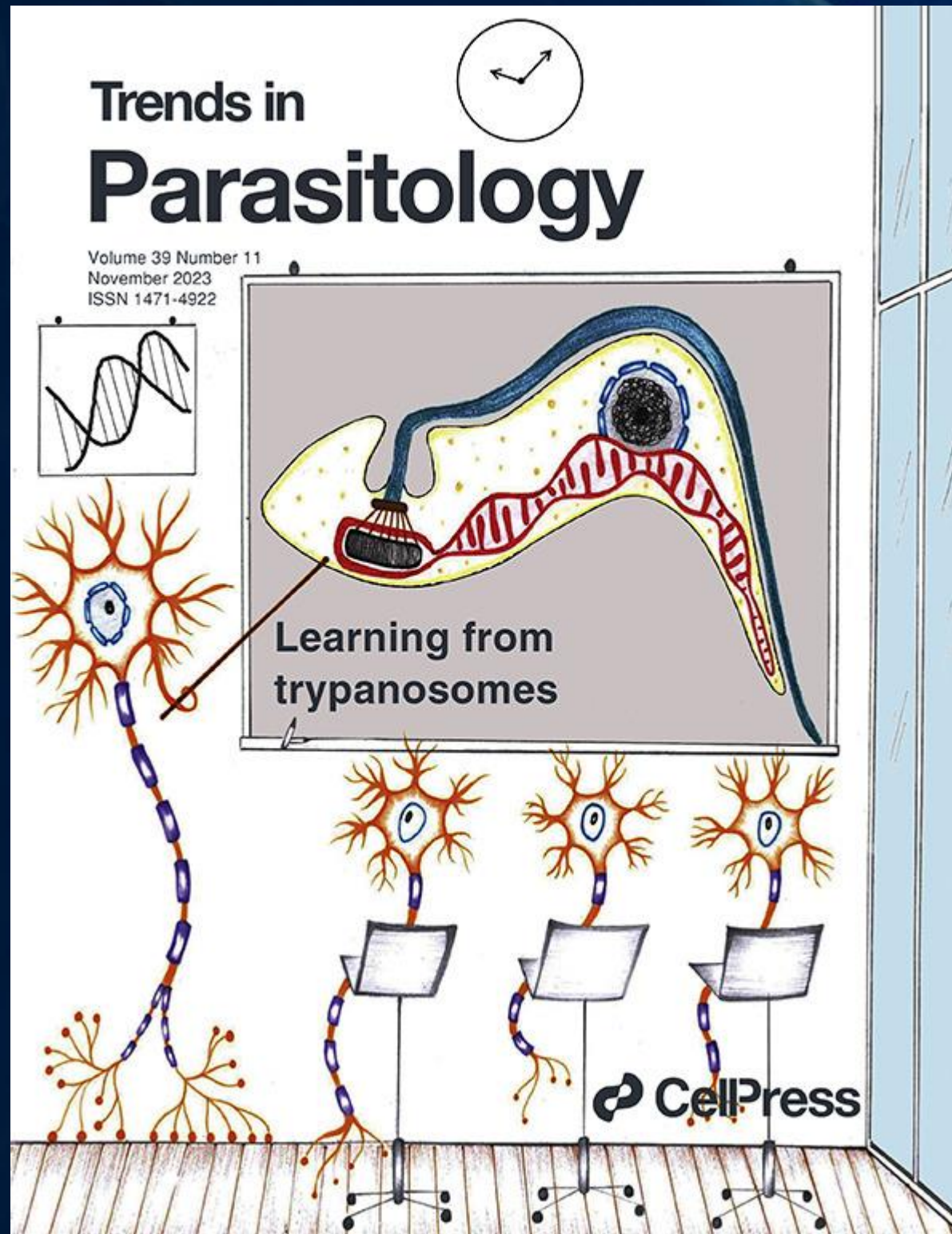


Stephanie Orchanian



Melissa Lodoen


CellPress



Trends in Parasitology 2023 November issue

Learning from trypanosomes

In this issue, Lukeš, Speijer, Zíková, Alfonzo, Hashimi and Field argue that trypanosomes stand out by being instrumental in numerous revolutionary discoveries that have widely informed biology. The cover image illustrates, in an entertaining manner, that humans (exemplified by proud neurons in a classroom) can learn many general rules of molecular and cell biology from these parasites.

Cover credit:



Ambar Kachale



Julius Lukeš



Trends in Parasitology

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**Bottoms Up! A new model for
malaria merozoite invasion**

 **CellPress**

Trends in Parasitology 2023 December issue

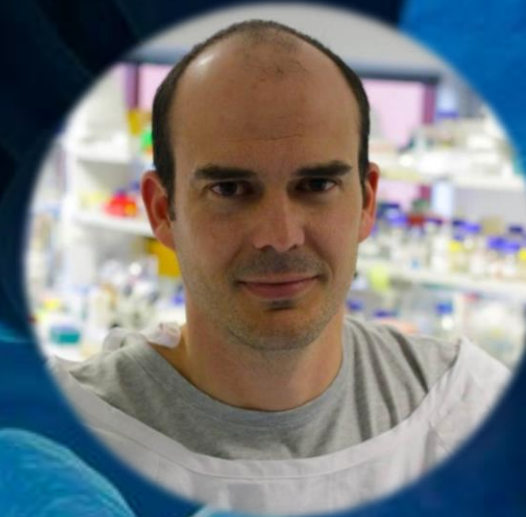
Bottoms up! A new model for malaria merozoite invasion

In this issue, Andrews, Baum, Gilson and Wilson use literature examples to highlight the implications of flipping malaria merozoite polarity for our understanding of erythrocyte invasion and discuss how merozoites may pack more efficiently in schizonts if their wider ends were facing outwards.

Cover credit:



Mia Andrews



Danny Wilson


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