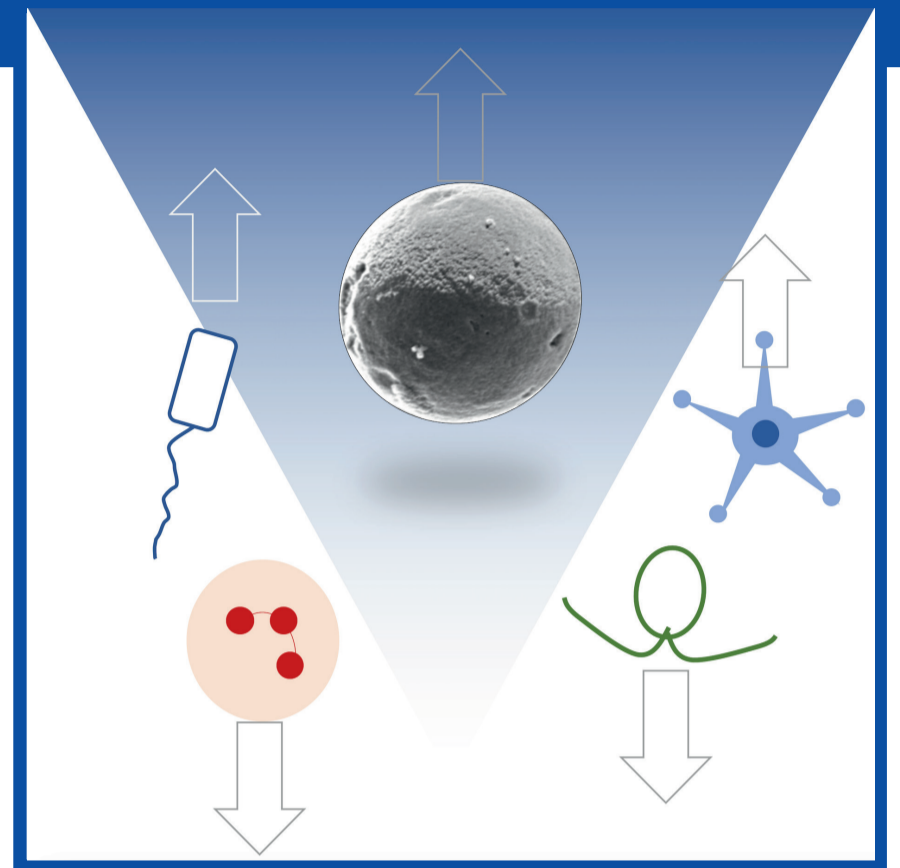


# Chemotaxis - from Basic Physics to Biology

## International Workshop 13 - 17 May 2024

Chemotaxis, or the migration to search for food is a common feature in many organisms. Understanding the behaviour of such microsystems requires a multidisciplinary approach. This workshop focuses on biological and artificial systems migrating in diffusion-based gradients: bridging experimental observations and theories.



### Topics

- Chemotaxis of algae
- Chemotaxis of eukaryotes
- Chemotaxis of prokaryotes
- Chemotaxis of artificial systems
- Modelling of behaviour in gradients
- Tactic behaviours in a broader sense
- Generation and evolution of gradients
- Interactions with the broader environment

### Invited speakers

J. Armitage (UK)  
G. Battaglia (UK)  
T. Emonet (US)  
R. Endres (UK)  
B. Friedrich (DE)  
R. Golestanian (DE)  
R. Karmakar (IN)  
C. Kurzthaler (DE)  
H. Othmer (US)  
I. Pagonabarraga (ES)  
K. J. Painter (IT)  
W.-J. Rappel (US)  
C. Roggartz (DE)  
J.-U. Sommer (DE)  
K. Wan (UK)  
G. Yossifon (IL)

### Scientific coordinators

Robert Insall  
University College London,  
UK  
  
Juliane Simmchen  
University of Strathclyde, UK

### Organisation

Katrin Lantsch  
MPIPKS Dresden

Applications received before 29 February 2024 are considered preferentially.

**We plan an on-site workshop. Talks and posters will exclusively be presented on-site.**

Applications are welcome and should be made by using the application form on the website of the event. The number of attendees is limited. The **registration fee** for the international workshop is 200 Euro and should be paid by all participants. Costs for **accommodation and meals** will be covered by the Max Planck Institute. Limited funding is available to partially cover **travel expenses**.

**For further information please contact:**  
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