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)

Applications received before 29 February 2024 are considered preferentially.

For further information please contact:
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Supported by
Deutsche Forschungsgemeinschaft