

A PALM international summer school

# Physical approaches to understanding microbial life

2018 August 28<sup>th</sup>  
September 06<sup>th</sup>



Gif-sur-Yvette (south of Paris), France

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Physical approaches promise new discoveries and understanding of microbial life. Recent progress made in different fields of theoretical physics, combined with the accelerating developments of new experimental instruments and data analysis techniques, is leading to the emergence and development of a new scientific community at the interface of physics and microbiology. This PALM international and multidisciplinary summer school aims to provide a comprehensive overview of the current progress, and to stimulate further interactions and collaborations.

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## Invited lecturers:

- Rosalind ALLEN (Edinburgh, UK)
- Harold AURADOU (Orsay, FR)
- Bonnie BASSLER (Princeton, US)
- Romain BRIANDET (Jouy-en-Josas, FR)
- Pietro CICUTA (Cambridge, UK)
- Marco COSENTINO LAGOMARSINO (Paris, FR)
- Nicolas DESPRAT (Paris, FR)
- Jorn DUNKEL (Boston, US)
- Knut DRESCHER (Marburg, GER)
- Erwin FREY (Munich, GER)
- Jean-Marc GHIGO (Paris, FR)
- KC HUANG (Stanford, US)
- Edo KUSSELL (New York, US)
- Christian MARLIÈRE (Orsay, FR)
- Eric RASPAUD (Orsay, FR)
- Bianca SCLAVI (Paris-Saclay, FR)
- Agnese SEMINARA (Nice, FR)
- Victor SOURJIK (Marburg, GER)
- Howard STONE (Princeton, US)
- Sven VANTEEFFELN (Jouy-en-Josas, FR)
- Aleksandra WALCZAK (Paris, FR)

## Selected topics:

Cell and colony **motility** and **mechanics**, cell and molecular **transport**, consequences of **non-equilibrium**, metabolism and **growth**, single and multispecies populations, **evolution**, **adaptation**, biofilms, signaling and **sensing**.

<http://microbes.sciencesconf.org/>

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## Organizers

Pietro CICUTA, Cambridge (UK)  
Knut DRESCHER, Marburg (GER)  
Eric RASPAUD, Orsay (FRA)

## Administration

Sabine HOARAU & Sarah GARÇON (assistance & secretary)  
Sandrine ERMISSE & Pouneh MILANIAN (financial management)

