

ISME 17



17th International Symposium on Microbial Ecology

Leipzig, Germany, 12-17 August 2018

Leipzig

SUMMARY

From 12 to 17 August 2018, almost 2200 attendees managed to find their way to Leipzig, Germany, to attend the 17th International Symposium on Microbial Ecology, better known as ISME17.

Delegates attended presentations from our keynote speakers Antje Boetius, Kirsten Küsel, Yoichi Kamagata, Philip Hugenholtz, Jan Roelof van der Meer, Tiedje Award winner Michael Wagner, Chantal Abergel and of course ISME Godfather Jim Tiedje in great numbers.

This year, poster pitch presentations for each session were introduced, and we experimented with electronic posters, to see how ISME can incorporate these in the future.

The cultural program included a mesmerizing performance from break-dancers musically supported by former Leipzig inhabitant Bach, and almost all delegates showed up to the social event in the Leipzig Zoo, to eat, drink, dance and socialize. The sunny weather and the lovely city of Leipzig proved to be an amazing backdrop to ISME17.

ISME wants to thank the LOC for initiating the wonderful Night of the Microbes, bringing microbial ecology to a broader public, thereby acknowledging the opportunity to leave an impact on the city.

ISME is grateful for a successful meeting, and would like to thank all delegates, speakers, sponsors, exhibitors and volunteers for their contribution. We hope to see you in Cape Town.

FACTS AND FIGURES

Abstracts/papers received	2390
Abstracts of Keynote Speakers	7
Keynote Presentations	7
Bird's Eye View Presenters	1
Invited Presentations	101
Round Table Sessions	9
Contributed Papers selected for Oral presentation	187
Contributed Papers selected for Poster Pitch presentation	108
Contributed Papers selected for Poster presentation	1851
Number of Attendees	2198



SCIENTIFIC AWARDS

The Jim Tiedje Award: This is presented to an exalted microbial ecologist who is recognized for his or her Outstanding Lifetime contribution to the field of microbial ecology. Past winners of this award include Sallie W. Chisholm (2016), Nancy Moran (2014), Stephen Giovannoni (2012), Bo Barker Jørgensen (2010), Norman Pace (2008), Gijs Kuenen (2006) and Farooq Azam (2004). The 2018 awardee is **Michael Wagner**, University of Vienna, Austria, who presented his award lecture on the evening of Thursday 16 August 2018.

The ISME Young Investigator Award: This award recognizes early career microbial ecologists who have made significant contributions to this field. Past winners of this award include Gene Tyson (2016), Ruth Ley (2014), Victoria Orphan (2012), Marc Strous (2010), Forest Rohwer (2008), Phil Hugenholtz (2006) and Ian Head (2004). The recipient of the 2018 award is **Catherine Lozupone**, University of Colorado, United States.

ISME Student Poster Award: This is reserved for students, or graduates within two years of graduation as long as they are the first author on a submitted poster presentation. The ISME17 recipients are:

- **Laëtitia Dadaglio**, Sorbonne Universités, France
“How the phytoplankton spring bloom in the Arctic Ocean reshapes the bacterial community composition?”
 - **Marlies Dietrich**, University of Vienna, Austria
“Unravelling the complexity of the microbiome in the ectomycorrhizal network of *Fagus sylvatica*”
 - **Camila Knecht**, Helmholtz Centre for Environmental Research – UFZ, Germany
“Fate of antibiotic resistant bacteria in two different constructed wetland designs”
 - **Soo Jen Low**, The University of Queensland, Australia,
“Phylogeny-based classification of dsDNA bacteriophages using a concatenated protein alignment”
 - **Francisco Moya**, University of Wisconsin-Madison, United States
“Uncovering the driving force of bacteriophages within the diversity of *Accumulibacter phosphatis* through CRISPR-cas”
 - **Josue Rodriguez-Ramos** (the University of Ohio, United States)
“It takes a village: microbial communities support methanogenesis in oxygenated wetland soils”
 - **Anna Trego**, National University of Ireland Galway, Ireland
“Size Matters for structure and function of Anaerobic Sludge Granules, supporting A biofilm life-cycle model”
 - **Dominique Türkowsky**, Helmholtz Centre for Environmental Research – UFZ, Germany,
“Thermal proteome profiling–A high-throughput technique for screening the proteome for enzyme-substrate interactions”
 - **Gilles Vismans**, Utrecht University, the Netherlands
“Disease-induced changes to the root microbiome are similar upon infection by different plant pathogens”
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The D.C. White Award: David C. White’s vision was to honour and respect the power of quantitative analytical chemistry to microbial ecology. Thus, this award is presented to the most innovative poster at the ISME Symposia. The inaugural 2018 award was presented to **Dominique Türkowsky**, Helmholtz Centre for Environmental Research – UFZ, Germany.

The Bill Costerton Award: In honour of Bill Costerton, the award is granted to the author of the poster that best involves new theories in microbial ecology and wider inter-disciplinary significance. The award was presented to **Gilles Vismans**, Utrecht University, the Netherlands.

The Qiagen Award: Silver Sponsor Qiagen. presented the Qiagen Award for the best poster at the symposium. The award was granted to **Maite Ghazaleh Bucher**, University of Georgia, Belgium for her poster entitled “Capturing microbial signatures of coral health during a multi-species, multi-disease outbreak in the Florida Keys”.

The Tom Brock Awards acknowledge the accomplishments and promise of outstanding postdoctoral research associates on the basis of the presentations that they make at the ISME Symposium. The awards were granted to **Ulrike Pfreundt**, ETH Zurich, Switzerland for her presentation with the title “The mechanism of rapid aggregation behavior in *Trichodesmium*”, and **Emilia Sogin**, Max Planck Institute for Marine Microbiology, Germany for her presentation entitled “Sweetening the sea: sugars excreted by seagrass stimulate a marine rhizosphere”.

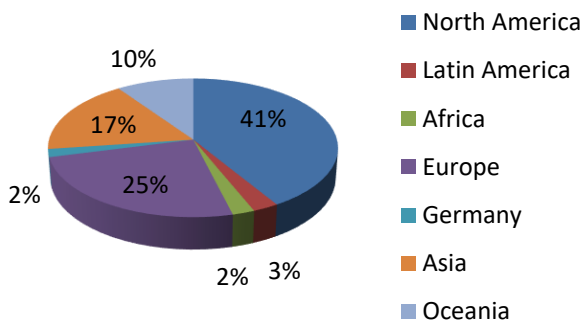
Travel Awards

ISME made funds available for travel awards for approximately 80 young scientists. The grants were:

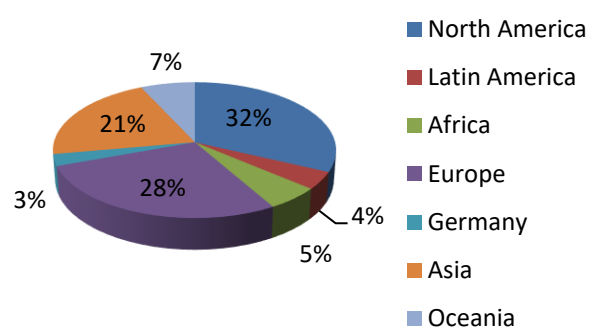
- Germany € 100
- Rest of Europe € 300
- Rest of the World € 800

We received a total of 269 submissions and were able to grant 72 ISME Travel Awards.

Applicants Travel Awards



Distribution Travel Awards



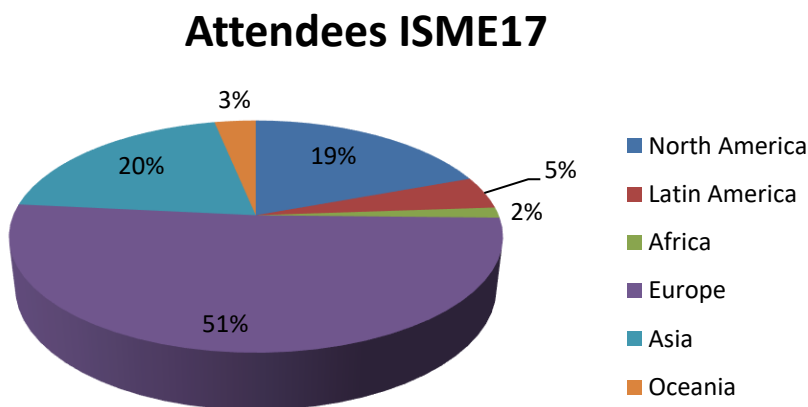


FACTS ON REGISTRATION AND ATTENDANCE

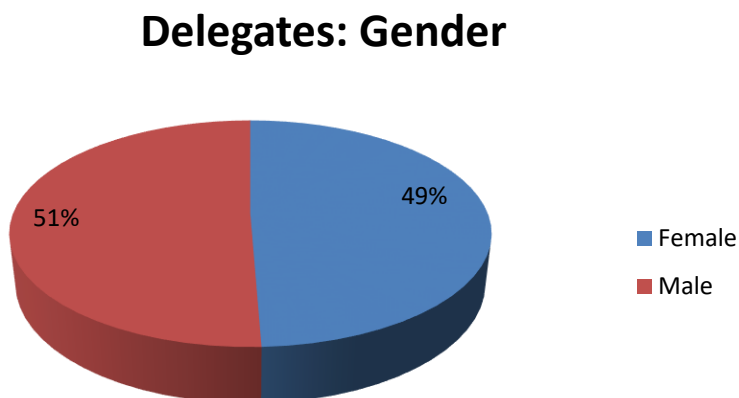
Total Number of Attendees: 2198, from 68 Countries

Total Number of Attendees including Exhibitors and Accompanying Persons: 2293

Breakdown of Attendees per Region:



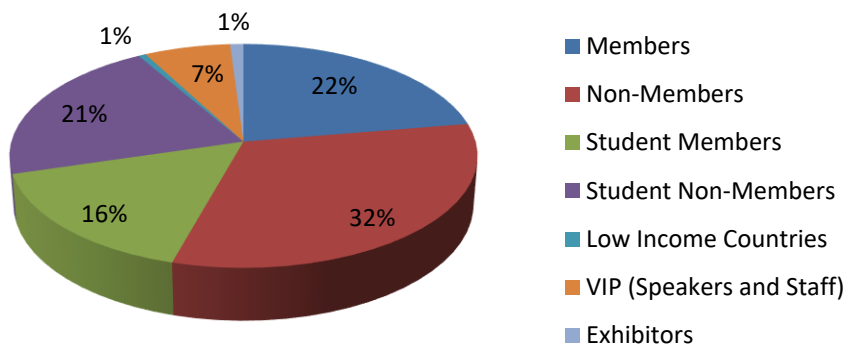
Breakdown of Attendees per Gender





Breakdown of Registration per Category:

Registration Category



POSTERS

Total number of Posters: 1851

Session No.	Title	Number of Posters
PS01	Marine microbiology	228
PS02	Phage/Virus ecology and eukaryotic viruses	47
PS03	Trait-based theory and its applications for microbial communities	15
PS04	Synthetic microbiology: principles and engineering	13
PS05	From stress to performance: environmental biotechnology	89
PS06	Modelling microbial communities and functions	63
PS07	Human microbiome	82
PS08	Ecological principles in polluted environments	110
PS09	Microbial interactions – a single cell perspective	28
PS10	Ecology and evolution of cross-kingdom networks	29
PS11	Uncultured taxa: from cataloguing to taxonomic classification	31
PS12	New metabolism	59
PS13	Symbiosis: from ecology and evolution to biotechnology	79
PS14	Frontiers of soil microbial ecology	193
PS15	Predator prey interactions	17
PS16	Visualization of microorganisms and their activity	34
PS17	Importance of glycobiology	9
PS18	Biogeochemical cycling in freshwater systems	79
PS19	Horizontal gene transfer and ecology of antibiotic resistance	72
PS20	Integrative meta'omics for exploring microbial community structure and function	90
PS21	Experimental microbial ecology and evolution in a community context	99
PS22	Global biogeochemical cycling	63
PS23	Managing microbial communities	75
PS24	Fungal – bacterial interactions: it takes two to tango	17
PS25	Plant microbe interactions	141
PS26	Subsurface microbial life	89

VENUE

ISME17 took place in Germany, at the Congress Centre Leipzig (CCL), just outside Leipzig's city center.

SOCIAL EVENTS

ISME Social Gathering – Leipzig Zoo and Kongresshalle am Zoo

Attendance for the social gathering was included in the registration fee, allowing all delegates to attend. However the venue was limited to 2000 guests.

Number of Attendees: 2000

The Tours were outsourced to a third party, akd congress and events. They have stated that the numbers for the four selected tours are:

City Tour Leipzig: 46 people
 Bike Tour Leipzig: 30 people
 Canoe Tour Leipzig: 40 people (sold out)
 Excursion to Dresden: 40 people

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Sabine van Wegen, the Netherlands (Events Coordinator)
Anastasiya Matyushkina, the Netherlands (Office and Events Assistant)

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