



# EUROPE'S MICROBIOLOGY NETWORK: VIRTUAL SPECIAL ISSUE

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Over the last 40 years, the Federation of European Microbiological Societies has grown from a handful of scholarly societies intent on promoting academic mobility across Europe to a pan-European coalition of 53 microbiology organizations. Collectively we promote excellence and international cooperation, while at the same time working to maximize the benefits of microbiological understanding in solving critical problems on the ground. Our combined community of 30,000 scientists, educators and microbiology professionals includes many of the world's leading researchers and opinion leaders, and together, through our respective journals, we publish some of our field's most important research.

This joint Virtual Issue is a celebration of both this long-term cooperation between the FEMS Member Societies and the strong tradition of microbiology in Europe. It brings together articles from across the world, representing 17 journals published by 8 members of Europe's growing microbiology network to feature some of the most popular recent articles on topics ranging from the pandemic potential of Influenza A virus to the antimicrobial activity of wine yeasts. We are really delighted to have this opportunity to showcase some of our truly international authors, and would like to thank all of the participating publishers and societies who have helped to put this wonderful collection together.

We hope that you enjoy it.

Jean-Claude Piffaretti, President of the Federation of European Microbiological Societies

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## Rare earth metals are essential for methanotrophic life in volcanic mudpots

Arjan Pol, Thomas R.M. Barends, Andreas Dietl, Ahmad F. Khadem, Jelle Eygensteyn, Mike S.M. Jetten, Huub J. M. Op den Camp

*Environmental Microbiology*

## Spore formation in *Bacillus subtilis*

Irene S. Tan, Kumaran S. Ramamurthi

*Environmental Microbiology Reports*

## DNA-based species delimitation in algae

Frederik Leliaert, Heroen Verbruggen, Pieter Vanormelingen, Frederique Steen, Juan M. López-Bautista, Giuseppe C. Zuccarello & Olivier De Clerck

*European Journal of Phycology*

## Exploiting the fungal highway: development of a novel tool for the *in situ* isolation of bacteria migrating along fungal mycelium

Anaele Simon, Saskia Bindschedler, Daniel Job, Lukas Y. Wick, Sevasti Filippidou, Wafa M. Kooli, Eric P. Verrecchia, Pilar Junier

*FEMS Microbiology Ecology*

## Bacteriophage exploitation of bacterial biofilms: phage preference for less mature targets?

Stephen T. Abedon

*FEMS Microbiology Letters*

## Influenza A virus transmission via respiratory aerosols or droplets as it relates to pandemic potential

Mathilde Richard, Ron A.M. Fouchier

*FEMS Microbiology Reviews*

## Replacement of the initial steps of ethanol metabolism in *Saccharomyces cerevisiae* by ATP-independent acetylating acetaldehyde dehydrogenase

Barbara U. Kozak, Harmen M. van Rossum, Matthijs S. Niemeijer, Marlous van Dijk, Kirsten Benjamin, Liang Wu, Jean-Marc G. Daran, Jack T. Pronk, Antonius J.A. van Maris

*FEMS Yeast Research*

## Biofilm formation by *Staphylococcus hominis* strains isolated from human clinical specimens

Ewa Szczuka, Kinga Telega, Adam Kaznowski

*Folia Microbiologica*

## Quality and Composition of Red Wine Fermented with *Schizosaccharomyces pombe* as Sole Fermentative Yeast, and in Mixed and Sequential Fermentations with *Saccharomyces cerevisiae*

Santiago Benito, Felipe Palomero, Laura Gálvez, Antonio Morata, Fernando Calderón, Daniel Palmero, José Antonio Suárez-Lepe

*Food Technology and Biotechnology*

## Characterization of oleaginous yeasts accumulating high levels of lipid when cultivated in glycerol and their potential for lipid production from biodiesel-derived crude glycerol

Pirapan Polburee, Wichien Yongmanitchai, Noppon Lertwattanasakul, Takao Ohashi, Kazuhito Fujiyama, Savitree Limtong

*Fungal Biology*

## Habitat models of wood-inhabiting fungi along a decay gradient of Norway spruce logs

Tiina Rajala, Tero Tuomivirta, Taina Pennanen, Raisa Mäkipää

*Fungal Ecology*

## Multicenter quality assessment of 16S ribosomal DNA-sequencing for microbiome analyses reveals high inter-center variability

Andreas Hiergeist, Udo Reischl, Priority Program 1656 Intestinal Microbiota Consortium/quality assessment participants, André Gessner

*International Journal of Medical Microbiology*

## Symbiogenesis: the holobiont as a unit of evolution

Ricardo Guerrero, Lynn Margulis, Mercedes Berlanga

*International Microbiology*

## Antimicrobial activity of *Metschnikowia pulcherrima* on wine yeasts

L. Oro, M. Ciani, F. Comitini

*Journal of Applied Microbiology*

## Occurrence and distribution of *Vibrio vulnificus* and *Vibrio parahaemolyticus* – potential roles for fish, oyster, sediment and water

C.E. Givens, J.C. Bowers, A. DePaola, J.T. Hollibaugh, J.L. Jones

*Letters in Applied Microbiology*

## Activation and identification of five clusters for secondary metabolites in *Streptomyces albus* J1074

Carlos Olano, Ignacio García, Aranzazu González, Miriam Rodríguez, Daniel Rozas, Julio Rubio, Marina Sánchez-Hidalgo, Alfredo F. Braña, Carmen Méndez, José A. Salas

*Microbial Biotechnology*

## Increased bactericidal activity of colistin on *Pseudomonas aeruginosa* biofilms in anaerobic conditions

Mette Kolpen, Cecilie F. Appeldorff, Sarah Brandt, Nabi Mousavi, Kasper N. Kragh, Sevtap Aydogan, Haleema A. Uppal, Thomas Bjarnsholt, Oana Ciofu, Niels Høiby, Peter Ø. Jensen

*Pathogens and Disease*

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