



## Special *Microbiome* issue on ‘Holobionts’

based on papers presented at the  
International Conference on Holobionts (Paris, April 19-21, 2017)

It is becoming increasingly clear that the development, nutrition, physiology and health of most macro-organisms are influenced by the complex microbial communities they host, that shape their ecology and evolution. Biology is indeed undergoing a paradigm shift, where individual phenotypes are seen as a result of the combined expression of the host and associated microbe genomes, leading to the popularization of notions of the holobiont (the host and its microbiota) and the hologenome (the collective genomes of a holobiont). Holobiont research is now an imperative across numerous fields of the life and medical sciences, with emerging methodologies relying on Next Generation Sequencing, bioinformatics and modelling. This is the focus of the International Conference on Holobionts to be held in Paris.

**Topic:** in this special issue of *Microbiome* (<http://link.springer.com/journal/40168>), we welcome papers that show, use or debate the concept of holobiont to approach taxonomically and ecologically diverse organisms, from humans and plants, to sponges and insects and living in various ecosystem types. Papers discussing ecological or evolutionary aspects of the holobiont concept are also welcome.

**Formats:** we welcome any paper following the journal’s formats, i.e. Research article, Case report, Commentary, Letter to the Editor, Methodology, Microbiome announcement, Review, Short report and Software article. Short reviews are highly welcome. For more details, see formats and submission guidelines at:  
<https://microbiomejournal.biomedcentral.com/submission-guidelines>

In the cover letter, the authors should briefly (2-3 sentences) state how their paper is related to the holobiont special issue, and select the guest editor(s) they would like to handle their paper.

**Deadline** for submission: September 15th

### **Guest editors:**

Julian Marchesi (Imperial College London, UK)

Christophe Mougel (Institut National de la Recherche Agronomique, France)

Marc-André Selosse (Muséum national d’Histoire naturelle Paris ; University of Gdansk, France and Poland)

Jean-Christophe Simon (Institut National de la Recherche Agronomique, France)