

## SETAC Interest Group Annual Report for the Year 2018

**IG Name:** SETAC OMICS

**IG Geographic Reach:** Global

**Office Liaison:** Roel Evens

**Total membership who are SETAC members (shown in directory on SETAC group page):** 58

**2018 IG Chair(s):** Doris Vidal-Dorsch and Bruno Campos

**2019 Steering Committee Members:**

<b>Committee Member</b>	<b>Affiliation</b>	<b>GU</b>	<b>Term (yr – yr)</b>
Xiaowei Zhang	Academia	Asia-Pacific	2016-2019
Jinhee Choi	Academia	Asia-Pacific	2016-2019
Anze Zupanic	Academia	Europe	2017-2019
Ben Brown	Academia	North America	2016-2019
Natalia Reyero	Academia	North America	2016-2019
Temitope Sogbanmu	Academia	Africa	2017-2020
Pim Leonards	Academia	Europe	2017-2020
Geoff Hodges	Business	Europe	2016-2019
Doris Vidal-Dorsch	Business	North America	2016-2019
Ignacio Rodriguez	Government	Latin America	2017-2020
Sharon Hook	Government	Asia-Pacific	2016-2019
Pim Leonards	Academia	Europe	2016-2019
Bruno Campos	Government	Europe	2016-2019
Adam Biales	Government	North America	2016-2019
Stefan Schade	Student	Europe	2018-2020
Elias Oziolor	Early career	North America	2018-2020

**List IG Subgroups (if applicable):** EvoGenerate

**Administrative Matters:**

**Last Update of Charter:** February, 2017

**Is IG charter posted on the group page on SETAC website?** Yes

**Frequency of IG Steering Committee meetings during the course of the year:** Twice for face to face meetings with all members (Europe and North America Annual Meetings). And bi-monthly by phone.

**Frequency of communication with general membership (e.g., share material [articles, guidance documents, announcements], encourage session proposal ideas, and encourage abstracts submissions...etc.):** Twice for face to face meetings with all members (Europe and North America Annual Meetings). And several times a year by email.

**Conducted General IG Membership Appeal for Steering Committee in 2018:** Yes

**Issues/Problems - Support Needed from Board/Council or office:** None

## **IG Name: SETAC OMICS**

### **Summary:**

The SETAC OMICS Global Advisory Group has as its mission to serve as a forum to discuss challenges and opportunities for OMICS disciplines in environmental sciences. This Interest Group (IG) was created as a follow up to multiple sessions, workshops and discussions held at SETAC meetings in North America, Asia-Pacific and Europe. The main focus of this IG is to work towards acceptance and application of molecular knowledge to protect human and ecological health. Our IG proposes to coordinate efforts to further develop OMICS as additional lines of evidence, enhancing the read-across and weight-of-evidence possibilities. Such developments are proposed to improve regulatory decision making, setting the way for knowledge-based regulation. Several activities including workshops, meetings, white papers and training are currently planned and conducted.

### **2018 Activities:**

- Conference calls held the first Monday of the month every other month. Calls conducted to discuss the progress of current activities and to develop new ones.
- Collaboration on the development and execution of the Focus Topic Meeting “High Throughput Screening in Ecological Risk Assessment: State of the Science and Emerging Applications” in coordination with other SETAC Advisory Groups. Meeting was held in the Spring of 2018.
- Creation and acceptance of a proposal for a Pellston Workshop “Omics into Regulatory science: The Path Forward” which has been recently reviewed by the SETAC Global Science Committee. This workshop is currently scheduled to take place in April, 2019.
- Fundraising money to conduct the FTM and Pellston Workshop.
- Wrote and submitted for review a Technical Issue Paper. This manuscript “OMICS and Toxicology: Applications for Environmental Risk Assessments” is co-authored by scientist from several countries, expertise and sectors. This paper is expected to be sent out for publication in 2019.
- Published an ET&C Perspectives. This manuscript “How omics technologies can enhance chemical safety regulation: perspectives from academia, government, and industry” is co-authored by Bruno Campos; John K. Colbourne; James B. Brown; Mark R. Viant; Adam D. Biales; Kathryn Gallagher; Tala R. Henry; Keith G. Sappington; Stuart Marshall and Graham Whale. This paper was published in early 2018.

- Will hosted a scientific session entitled “Advancing the OMICS into regulatory frameworks: case-studies and perspectives”, sponsored and organized by members of OMICs IG a full day session which will take place in Sacramento, in 2018.
- Sponsored a scientific session proposal entitled “System ecotoxicology: application of OMICS data across multiple levels of biological organization in research and risk assessment”. Session sponsored and organized by members of OMICs IG during the 2018 Europe SETAC Meeting in Rome.
- Sponsored a scientific session entitled “Omics into Regulatory science: A Roadmap for Development and Application”. Session organized by members of OMICs IG for the 2018 Asia-Pacific SETAC Meeting in Daegu.
- Sponsored business meetings during the Brussels and US SETAC gatherings to discuss current and future OMICs IG activities with our general membership.
- Communicated of advancement in the field to the OMICS IG membership using email communication and or at the IG Business Meetings during in-person SETAC meetings.
- Participated in the SETAC Advisory Group summits during the SETAC Europe and North America Meetings.
- Recruited scientists interested in developing OMICs expertise in Africa and Latin America, they are now a part of the general membership.
- Assembled of a database of seminal papers on OMICs and Environmental sciences to serve as an introduction to the field and best practices examples (in a “Faculty of the 1000” way) to be published in the IG webpage.
- Welcome and incorporated members of the Evo Generate group as part of our IG to their request.

### **Future Plans:**

Ongoing and future initiatives include planning of workshops, meetings, publication and training activities which have been described in the previous section.