



**INTERNATIONAL SOPOT YOUTH CONFERENCE**  
**Entitled: WHERE THE WORLD IS HEADING**

**Institute of Oceanology Polish Academy of Sciences**  
**Powstancow Warszawy 55, Sopot**

**25 May 2018**  
**List of Posters**

1. High-resolution atmospheric modeling in two high-latitude fjords, Hornsund and Porsanger.  
Paulina Aniśkiewicz, Małgorzata Stramska.
2. The variability in iron (III) oxide-hydroxides content in sediments of the Gdańsk Deep.  
Olga Broclawik, Katarzyna Łukawska-Matuszewska, Bożena Graca, Tamara Zalewska.
3. Anatomical structure of the succulent leaves.  
Emilia Brzezicka, Patrycja Guzanek, Natalia Wiśniewska, Małgorzata Kozieradzka-Kiszkurno.
4. On the picocyanobacteria modelling in the Baltic Sea – pico-bioalgorithms development.  
Agata Cieszyńska, Thomas Neumann, Małgorzata Stramska, Sylwia Śliwińska-Wilczewska.
5. Phytoplankton-driven pH changes in the Baltic Sea area.  
Agata Cieszyńska, Thomas Neumann, Sylwia Śliwińska-Wilczewska, Małgorzata Stramska.
6. Analysis of wave and storm climate of the Gulf of Gdańsk over years 1958–2001.  
Aleksandra Cupiał, Witold Cieślíkiewicz.
7. The role of orf61 and orf60a in the development of phage  $\lambda$  and phage  $\Phi$ 24B, a representative of Shiga toxin-converting bacteriophages.  
Aleksandra Dydecka, Bloch Sylwia, Topka Gracja, Nejman-Faleńczyk Bożena, Necel Agnieszka, Gąsior Tomasz, Węgrzyn Grzegorz, Węgrzyn Alicja.
8. Response of the rats immune system with different locomotory activity to single administration of amphetamine.  
Arkadiusz Działoszewski, Karolina Krajewska, Wojciech Głac
9. Seoul's creative spaces in the light of the analysis of tourist geoportals.  
Daria Gagacka, Jakub Diakowicz, Bartosz Domański.
10. Characterisation of novel Shiga toxin-converting bacteriophages.  
Tomasz Gąsior, Katarzyna Licznarska, Agnieszka Necel, Aleksandra Dydecka, Sylwia Bloch, Gracja Topka, Bożena Nejman-Faleńczyk, Grzegorz Węgrzyn, Alicja Węgrzyn.
11. Ectomycorrhizal fungi of acidic beech forest during transformation from mature to natural regenerated forest.  
Joanna Gołębiewska, Marta Jarosińska, Marcin Pietras.
12. The role of the 3'  $\rightarrow$  5' exonuclease in stability of sRNA in Escherichia coli.  
Michał Grabski, Olszewski Paweł.

13. Research on autogamy in the world of orchids.  
Patrycja Guzanek, Emilia Brzezicka, Natalia Wiśniewska, Agnieszka Kowalkowska.
14. The activity of three antimicrobial peptides: protegrin-1, aurein 1.2 and citropin1.1 against *Staphylococcus pseudintermedius* strains isolated from animal infections.  
Małgorzata Jarosiewicz, Katarzyna Garbacz, Wojciech Kamysz.
15. Influence of shipping noise on underwater acoustic field in high intensity traffic regions in southern Baltic Sea.  
Damian Jaśniewicz, Zygmunt Klusek, Joanna Szczucka
16. Emotions and Visual Attention – on the waves or on the roads?  
Agnieszka Karaś-Telesińska.
17. Genetic diversity of *Trebouxia* photobionts in a gradient of altitude in Bolivia.  
Magdalena Kosecka, Beata Guzow-Krzemińska, Agnieszka Jabłońska, Martin Kukwa.
18. T7 RNA polymerase displays superior slippage properties.  
Dawid Kościelniak, Ewa Wons, Monika Szadkowska, Joanna Środowska.
19. Modelling the potential geographic distribution and climatic factors limiting occurrence of expansive species - *Digitalis purpurea* L. in Europe.  
Anna Kuczyńska, Magdalena Zarzycka, Marta Kolanowska.
20. Screening and characterisation of *Pseudomonas* spp. from domestic cattle.  
Joanna Laskowska, Adrian Augustyniak, Bartłomiej Grygorcewicz, Xymena Stachurska, Paweł Nawrotek.
21. 14th protein coding gene in mitochondrial genome of *Mytilus edulis* mussels.  
Marek Lubośny, Aleksandra Przyłucka, Beata Śmietanka, Sophie Breton, Artur Burzyński.
22. The role of small regulatory RNAs in *Listeria monocytogenes*.  
Magdalena Ładziak.
23. A sample preparation protocol for scanning electron microscope examination of *Staphylococcus aureus* biofilm.  
Natalia Łubowska, Lidia Piechowicz.
24. Angular unconformity for subsurface data, Cracow-Silesian Homocline, Poland.  
Michał Michalak.
25. Where the World is heading in the face of cardiovascular diseases?  
Aleksandra Michalska-Grzonkowska, Marcin Pajkowski, Aleksandra Parczewska, Marzena Romanowska-Kocejko, Marta Żarczyńska-Buchowiecka, Krzysztof Chlebus.
26. What if antibiotics can aggravate infection? Bacteriophage vB\_Eco4M-7 against Enterohemorrhagic *Escherichia coli* (EHEC).  
Agnieszka Necel, Topka Gracja, Dydecka Aleksandra, Bloch Sylwia, Nejman-Faleńczyk Bożena, Jurczak-Kurek Agata, Gąsior Tomasz, Kwaśnicka-Kosznik Katarzyna, Grabowski Łukasz, Węgrzyn Alicja, Węgrzyn Grzegorz.
27. Genistein-mediated elimination of behavioral and biochemical defects in the rat model of sporadic Alzheimer's disease.



Karolina Pierzynowska, Magdalena Podlacha, Lidia Gaffke, Joanna Brokowska,  
Irena Majkutewicz, Jagoda Mantej, Marta Osiadły, Dorota Myślińska, Grzegorz Węgrzyn.

28. The saxicolous species of the lichen genus *Pertusaria* s.l. in Poland.  
Małgorzata Pyrcha, Magdalena Oset.
29. Marigold (*Calendula officinalis* L.) as a model for studies concerning the role of triterpenoids in the plant response to environmental stress.  
Agata Rogowska, Cezary Pączkowski, Marek Długosz, Anna Szakiel.
30. Influence of galactooligosaccharides and electrical stimulation of the amygdala on sociability index in the three-chamber social test in rats with different stress-related vulnerability.  
Jan Ruciński, Ewelina Kurowska, Magdalena Podlacha, Dorota Myślińska, Agnieszka Stankiewicz, Edyta Jurkowlaniec.
31. Transition of non-pathogenic bacterial strains into emerging pathogens.  
Dorota Sentkowska, Bartosik Dariusz, Szuplewska Magdalena.
32. Is the devil in the details? Scanning electron microscopy in botanical studies exemplified by *Goodyera repens* (L.) R. Br. (Orchidaceae Juss.).  
Iwona Skorowska, Artur Eichmann.
33. Antimicrobial *Streptomyces* strains from cave microbiota: a potential source for new drugs.  
Jurand Sobiecki, Daria Lubomska, Weronika Jaroszewicz, Katarzyna Kosznik-Kwaśnicka, Alicja Węgrzyn.
34. Bactericidal activity of phage-impregnated cellulose membranes against chosen foodborne.  
Xymena Stachurska, Bartłomiej Grygorcewicz, Paweł Nawrotek.
35. Bioremediation and bioaugmentation of soils contaminated with heavy metals and petroleum-like compounds by Antarctic bacterial strains.  
Michał Styczynski, Tomasz Krucon, Anna Ciok, Witold Uhrynowski, Pablo de Miguel Herraiz, Katarzyna Grzelak, Lukasz Drewniak, Lukasz Dziewit.
36. Plastic debris as a source of 4-tert-octylphenol and 4-nonylphenol for seabirds – preliminary results of experimental research.  
Karolina Szewc, Marta Staniszevska, Bożena Graca.
37. Characterization and lytic activity of bacteriophage vB-EcoS-95 and use of this phage as means of destroying or controlling biofilms.  
Gracja Topka, Sylwia Bloch, Bożena Nejman-Faleńczyk, Agata Jurczak-Kurek, Aleksandra Dydecka, Agnieszka Necel, Tomasz Gąsior, Grzegorz Węgrzyn, Alicja Węgrzyn.
38. Restriction effectivity of the invasive DNA depends on the fragile balance between methylation and restriction.  
Karolina Wilkowska, Marian Sęktas.
39. Micromorphological and ultrastructural analysis in studies of floral secretory tissue.  
Natalia Wiśniewska, Patrycja Guzanek, Emilia Brzezicka.
40. The use of computer software R to analyse the variability of PM<sub>2,5</sub> concentrations in Polish coastal zone.  
Kinga Wiśniewska, Anita Lewandowska.



41. The changes in size structure of PRC cities over 1 mln inhabitants in 1950-2015 in terms of economic transformations.  
Miroslaw Wylon, Marta Majerska, Jakub Diakowicz, Bartosz Domański, Kamil Kaliński.
42. Is pollution in the Arctic getting worse? Sources, pathways and examples of aerosol pollution events in the Svalbard region.  
Kasper Zielinski.
43. Anti-biofilm activity of drug-impregnated nanobiocellulose against wound pathogens.  
Anna Żywicka, Adam F. Junka, Karol Fijałkowski.
44. Phenotypic and genotypic methods in the identification of selected members of Enterobacteriaceae  
Michalina Chelińska.
45. Influence of environmental factors on fitness components: effects of nutrition on reproductive traits in *Tribolium castaneum*.  
Michał A. Małszycki, Michał A. Małszycki, Agata Plesnar-Bielak, Katarzyna Woch, Ameer T. H. Alkhawlany, Agata Hołysz, Joanna F. Correia, Paulina Kramarz, Zofia Prokop.