

## Seminars in Biotechnology BTEC 591 & BTEC 691

### **“Polar Research”**

**Thursday, October 20, 2022**

**13:30**

**GTU Institute of Biotechnology, Lecture Hall**

**Prof. Dr. Burcu ÖZSOY**

Manager, TUBITAK MAM Polar Research Institute  
Vice President, TUBITAK MAM



Prof. Dr. Burcu Ozsoy received her undergraduate and graduate degrees from Yıldız Technical University, Department of Geodesy and Photogrammetry Engineering. In 2001, she started to work at ITU Faculty of Maritime as a lecturer. She began her PhD at the University of Texas at San Antonio (UTSA) in 2005. As part of her doctoral work, she participated in the first Antarctic Science Expedition in 2006 with American and Swedish scientists and made sea ice observations. She then worked on the validation of satellite images on the interaction of climate change and sea ice in Antarctica. The Horizon 2020 project joint venture, covering the Arctic and Antarctic regions with European countries, was accepted in 2015 and Prof. Ozsoy worked as the project coordinator in Turkey. She is the founding director of the Polar Research Center (PolReC), which was established at ITU in January 2015.

Prof. Dr. Burcu Ozsoy is the director of the TÜBİTAK Marmara Research Center (MAM) Polar Research Institute, which was established on December 03, 2019, and the Vice President of TÜBİTAK MAM. Ozsoy coordinated the Fourth National Antarctic Science Expedition in 2020, was elected to the 2020 Newton Fund Awards scientific committee, is being a member of the Scientific Steering Committee of the Southern Ocean Observation System. She received the Polar Studies award at 2020 Turkish Academy of Sciences (TÜBA) Young Scientist Awards Program.

As the Director of the Polar Research Institute (KARE) at Marmara Research Center of TUBITAK, Prof. Dr. Burcu Ozsoy will talk about polar research activities and polar expeditions. She will discuss the growing strategic importance of polar research in a world where land is limited, population is increasing, and the ecosystem is threatened by climate change. How polar research can benefit our country and the scientific community and how the polar regions can offer a natural open lab environment for studying science under extreme conditions will be covered in her talk. The extraordinary logistics of polar expeditions will inspire the audience about the difficulties scientists must often endure to conduct original research. Prof. Dr. Burcu Ozsoy will also mention polar research activities related to biosciences and biotechnology and provide insight regarding how collaborations can be established with KARE.