



Seminars in Biotechnology BTEC 591 & BTEC 691

“Bio-innovation and its applications on plant tissue culture, disinfectants and microbiota”

Thursday, October 6, 2022

13:30

GTU Institute of Biotechnology, Lecture Hall

Dr. Erdem TEZCAN

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Dr. Erdem Tezcan completed his undergraduate degree in Istanbul Technical University (ITU) Molecular Biology and Genetics and ITU Chemistry Departments with a Double Major Program (DAP) and graduated from two departments simultaneously for the first time in the history of ITU Science and Literature. He also made commercial ventures during and after his doctorate, and worked as a founding partner responsible for R&D in Bioakademi Ltd., Molesis Biyoteknoloji AŞ, Farbim Ltd and still-running Yuteg Biotechnology companies. In addition, Arbisan Ltd, Biotechnolog Ltd. and Oxyvega Biotechnology companies, and gave product development support to MACKA'S brand. Between 2016-2018, he worked as an assistant professor at Istanbul Aydın University Biomedical Engineering Department. Instructor He served as a member and Assistant Manager in the Technology Transfer and Project Management Office, and in 2018, he moved his laboratory and the Yuteg Biotechnology company, of which he is a partner, to the unit of Istanbul Gedik University in Teknopark Istanbul, and its academic staff is in the Department of Nutrition and Dietetics at Istanbul Gedik University. Dr. Instructor He continued as a member until June 2022. There are 8 registered patents, 2 license agreements and 10 trademarks in the fields of biotechnology and chemistry, and there are 10 patent applications in progress. It has carried out 9 R&D studies in the fields of food supplements, cosmetics and disinfection so far. He has many publications in the academic field, including research, compilation and full text.

He has published his antibacterial studies, but he has not yet published his studies on anticancer molecules because they are drug candidate molecules. His recent work has focused on the gut microbiota. It aimed to show a prebiotic effect by processing acacia gum, which is a natural polymer, with various reactions. Thus, it aimed to establish a balance in favor of beneficial microorganisms in the intestines by creating an environment in which harmful microorganisms in the intestines cannot be accommodated. With this system, it has achieved successful results in many diseases, from autism to MS, from psoriasis and eczema to asthma and COPD, which are associated with intestinal microbiota, especially constipation.