

iGEM.Berlin 2014



Taking part in the »International Genetically Engineered Machines« competition (iGEM), an interdisciplinary team of students was working under Professor Nediljko Budisa (TU Berlin) to create magnetic Escherichia coli (E. coli) bacteria, allowing for remote control of the microorganisms. By specifically altering the naturally occurring intestinal bacteria, this achievement is quite possible. The iGEM is the world's largest competition for the new research field of synthetic biology, a science that is active in the border region between molecular biology, chemistry and engineering.

The task was to develop solutions to self-defined problems in the field of synthetic biology: For this purpose, iGEM shared standardized DNA building blocks available, so-called »BioBricks«, with the competing teams, which they worked on to characterize and further develop and share back with the community. The BioBricks were to be used for combination in innovative ways, which allowed the generated DNA to encode new functions and properties in order to find progressive solutions to concrete problems.

Project type

Research

Status

Completed

Project partners from the TU Berlin

Professor Nediljko Budisa

Johann Bauerfeind

Project partners from the UdK Berlin

Valerian Bloss



Eine Einrichtung der
UDK Berlin & TU Berlin



Universität der Künste Berlin

