

team name	year	track	wiki	problem	solution
NCKU_Tainan	2019 grand prize	Therapeutics	https://2019.igem.org/Team:NCKU_Tainan	It is complicated to focus on treating Chronic Kidney Disease	targeting the root (the accumulation of uremic toxins) of the problem is going to bring a greater effect in solving this issue.
TU_Kaiserslautern	2019 Second Runner up	Environment	https://2019.igem.org/Team:TU_Kaiserslautern	plastics are accumulated and 400.000.000 MT OF CO ₂ are produced by burning plastic every year	decomposing PET into its monomers terephthalic acid and ethylene glycol by transferring the genes for the enzymes PETase and MHETase into the genome of green alga <i>Chlamydomonas reinhardtii</i>
Valencia_UPV	2018 grand prize	New Application	http://2018.igem.org/Team:Valencia_UPV	Access to Synthetic Biology by an interested layperson is currently hampered by several barriers, including a required background knowledge and availability of expensive and often bulky technological equipment.	Printeria is a fully-equipped bioengineering device able to automate the process of printing genetic circuits in bacteria but made as simple and easy to operate as a domestic desktop printer.
Vilnius-Lithuania	2017 grand prize	Foundational Advance	http://2017.igem.org/Team:Vilnius-Lithuania	The SynORI framework enables scientists to build a multi-plasmid system in a standardized manner by(1. selecting the number of plasmid groups 2. choosing the copy number of each group 3. Picking the type of copy number control (specific to one group or regulating all of them at once).	making synOri
William_and_Mary	2017 first runner up	Foundational Advance	http://2017.igem.org/Team:William_and_Mary	to be able to control the dynamical properties of circuits —to move beyond circuits that focus on endpoint, steady-state values and explore the rich variety of dynamical systems.	Degradation Based Control of Gene Expression Speed/Orthogonal Degradation Tags/Modeling
Marburg	2018 Grand Prize Winner	Foundational Advance	http://2018.igem.org/Team:Marburg	We have seen a renaissance of research into <i>Vibrio natriegens</i> , the world's fastest growing bacterium. <i>V. natriegens</i> has a lot of potential to become the next universally applicable chassis organism, challenging <i>E. coli</i> 's dominance. To fully realize this potential, several steps have to be taken.	by providing the research community with open source strains, tailored specifically to cloning, protein expression and interaction. Additionally, we conducted basic microbial research, establishing procedures and protocols for cloning and molecular biology research.

Vilnius-Lithuania 2020 Grand Prize Winner Environment

<https://2020.igem.org/Team:Vilnius-Lithuania>

Over the past decades total production, trade and consumption of fish and aquaculture products significantly expanded. Growing fish consumption drives a need for a more intensive fish farming

aquafarms have implemented recirculating aquaculture systems (RAS).