

현장연구 E 210311 수업 김승화

1. Amsterdam

Team code: 343761

Track: Information processing

Title: Forbidden FRUITS: stable microbial production strategies for non-native compounds

Student Leaders:

Dennis Dekker

Robin Laird

Student Members:

Joris Visser

Kelly Klomp

Samira van den Bogaard

MINGDONG LIU

Diana Victoria Ramírez López

wiki: <https://2020.igem.org/Team:Amsterdam>

methods: medium and stock preparation, Phusion PCR, Gel Purification for plasmids, Inoculation of liquid culture, Experiments in 24 well plate cultivator, gRNA insertion on background replicative plasmid, Transformation a plasmid into E.coli, Conjugation of plasmids into Synechocystis using E.coli, CRISPR Cpf1 in Synechocystis, Drylab guidelines(Python, PEP8, Gitlab)

2. GO_Paris-Saclay

Team code: 342728

Track: Information Processing

Title: HuGenesS

Student Members:

Guillaume Garnier

Mathieu Nairabeze

Godefroy Glaude

Baptiste ORTHEAU

Ines Yousfi

Delphine POLVÉ

Clémentine Sejotte

Ekaterina Aleksenko

Alice CARON

Nathan Chatelet

Florent Poubanne

Maxime Mahout

Ibrahim Soumana Adamou

wiki: https://2020.igem.org/Team:GO_Paris-Saclay

method: pareto optimization, Yarrowia lipolytica entanglements,

3. BOKU-Vienna

Team code: 351492

Track: Therapeutics

Title: Phangel- Taking Phage Therapy Ahead

Student Leaders:

Oona Jung

Student Members:

Benedikt Haslinger

Lukas Pucher

Katja Starnberger

Katharina Ostertag

Styliani Karagiorgou

Harriet Schober

Markus Strasser

Samuel Oberreiter

Dominik Wiesinger

Simon Wutzl

Rajmund Kasbauer

Lukas Pranter

wiki: <https://2020.igem.org/Team:BOKU-Vienna>

method: Heat shock transformation, electroporation transformation, miniprep, preparing 500ml LB media, preparing agar petri dishes, preparation of chemically competent E.coli with RbC1, Restriction Digest, Characterization protocol, Golden gate cloning, PCR amplification, Phage production, Phage DNA purification

4. Moscow

Team code: 363629

Track: Diagnostics

Title: Haplosense

Student Leaders:

Daria Smolyarova

Student Members:

Aleksandra Greshnova

Ekaterina Kravchuk

Nikolay Kristovskiy

Maria Medvedeva

Lazareva Anna

Roman Novikov

Viktoriia Ovchinnikova

Marina Marchenko
Vera Sysoeva
Korostyleva Nadezhda
Anastasia Kislova
Anastasiia Ivanova
Daria Koshkina
Arina Kholkina

wiki: <https://2020.igem.org/Team:Moscow>

method: split-system improvement, Cas X(much smaller and new protein),
molecular modeling, photometer, Cas X collateral activity, thermostat fluorimeter,
fluorimeter

5. UCSC

Team code: 342615

Track: Environment

Title: Komaplastics : Creating a biodegradable bed mulch from bacterial cellulose

Student Leaders:

Sophia Sneddon

Melody Azimi

Student Members:

Faith Williams

Alicia Jorgenson

Gabriel Sanchez Jr.

Navdeep Kalkat

Claudia Paz Flores

Joshua Robert Elkins

Thomas Conor Kensok

Taylor Ziccardi

Rachel Mace

Neil Smith

Kyra Eyerman

wiki: <https://2020.igem.org/Team:UCSC>

Method: Chemical modeling, Microcrystalline Cellulose and Bacterial cellulose
comparing, Cellulose dissolution, film making

6. BGU-Israel

Team code: 339484

Track: Environment

Title: WIPEOUT - Wipes out wet wipes of the environment

Student Leaders:

Omer Kirshner

Student Members:

Doron Ziv

Gal Davidian

Nitsan Nimni

Talia Shaler

Judith Elkaim

Reut Yacobi

wiki: <https://2020.igem.org/Team:BGU-Israel>

Method: Antibiotic stock preparation, LB agar plates preparation, DH5a competent cell transformation, mini-prep kit-plasmid extraction from bacteria cells, KAPA HiFi HotStart ReadyMix PCR kit, DNA electrophoresis, Gel Extraction, GIBSON assembly, Cellulase E1 characterization, Cellulolytic complex characterization, Growing bacteria with CMC as carbon source

7. Hannover

Team code: 333835

Track: Diagnostics

Title: InToSens - Development of an Inflammatory Toxin Sensor for detecting implant associated inflammations

Student Leaders:

Fiene Daniel

Lara Gentemann

David Theidel

Celine Beckhausen

Soeren Donath

Laura Wesche

Student Members:

Pia Peppermueller

Jonas Scholz

Timm Landes

Louise Schaar

George Dati

Anna-Charleen Wessel

Jan Peter Mairose

Lisan Püttmann

Thorben Klamt

Manmeet Singh

wiki: <https://2020.igem.org/Team:Hannover>

Method: Preparation of growth medium, Passaging of HeLa cells, Counting of HeLa cells, Transfection of HeLa cells, Preparation of the electroporation buffer, LPS

stimulation of HeLa cells, Measurement of luminescence, Magnetophoresis

8. KAIT-Japan

Team code: 368584

Track: New Application

Title: E.coli that Create a Creative Environment

Student Leaders:

Eri Tashiro

Student Members:

Chikaho Suzuki

wiki: https://2020.igem.org/Team:KAIT_Japan

Method:

Transformation, Restriction enzyme treatment, Ligation, DNA purification

9. Tongji_Software

Team code: 348377

Track: Software

Title: Synthesis Navigator

Student leaders:

Chunfu Xiao

jun zhu

WenYuan Jiang

Student members:

Huidi Zhu

Zhifan Lin

Ran Gong

Wanying Mo

Qianzheng Fu

Jiasheng Zhang

Xinnan Ling

Chengwei Zhang

Shangyou Wang

Yining He

Yexin Xu

Yun Tan

Muyi Liu

Yuyuan Jin

wiki: https://2020.igem.org/Team:Tongji_Software

method: validate with pathlab,