



global
community
bio summit 4.0

LEARNING & EDUCATION TRACK

Societal Empowerment Through Science Education



Ivan Istomin
École polytechnique fédérale
de Lausanne (EPFL)



Aravindh Panch
DreamSpace
Academy



Alexander Shynkarenko
Genomics UA



Darin Lobo
Co-founder,
Ediblemakerspace



Saheed Alarape
International Institute of
Tropical Agriculture



Moderated by:
Salman Promon
MECHAMIND
(Bangladesh)



global
community
bio summit 4.0

We encourage you to
carefully go through our
Code of Conduct
<https://bit.ly/2F4TrLk>

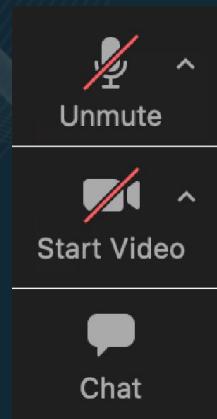
In case of any potential violation of the
Code of Conduct please send an email to:

codeofconduct@biosummit.org

Let us know who you are by changing
your screen name to our naming
convention :
Name - (prefered pronoun), Affiliation,
Country

Example:

- Jane Doe (she/her), MIT, USA



Mute your sound

Have your camera on if possible

Turn it off if you don't want to be recorded or
if the connection is bad

Use the chat to ask questions and
engage in discussion!



global
community
bio summit 4.0

To enjoy the **Global Biosummit 4.0**
online experience ...

Visit our website:
<https://biosummit.live> (PW: microbesrule)

Continue the conversation on our Slack workspace:
<http://communitybio.slack.com/>

Find notes and materials in our Participant Google Drive:
<https://biosummit.live/how-to-google-drive>

In case of any potential violation of the **Code of Conduct** please send an email to:
CodeOfConduct@biosummit.org

Zoom Info centre
<https://biosummit.org/zoom>

Miro board for learning & education track
https://miro.com/app/board/o9J_kltKMa4=/

Minglr: <https://bit.ly/2ZWY9GD>



global
community
bio summit 4.0

Thank you to our sponsors!

thanks to our sponsors & donors



sulfolobus
catalyzing life
sponsorship

MILLIPORE
SIGMA



cocci
Diversity
Sponsorship

THE JOHN W. HENRY
FAMILY FOUNDATION

opentrons



mit media lab

community
biotechnology



global
community
bio summit 4.0

- From Perm, the Ural Mountains
- International Science Olympiads
- BSc in Physics and Maths, MIPT
- PhD in BioTech, EPFL

-Active learning with iGEM EPFL

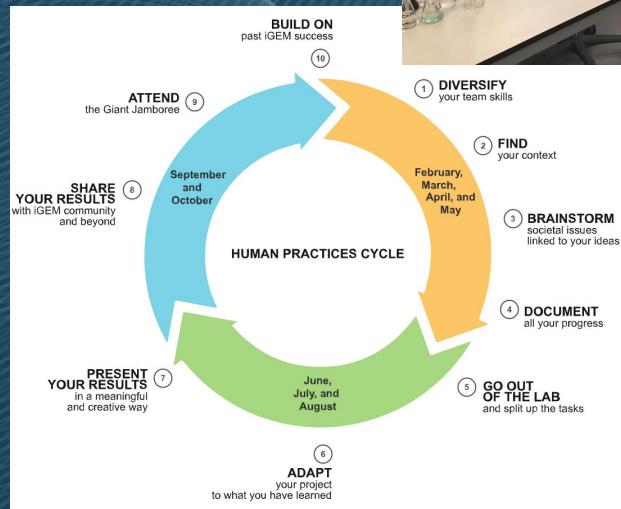
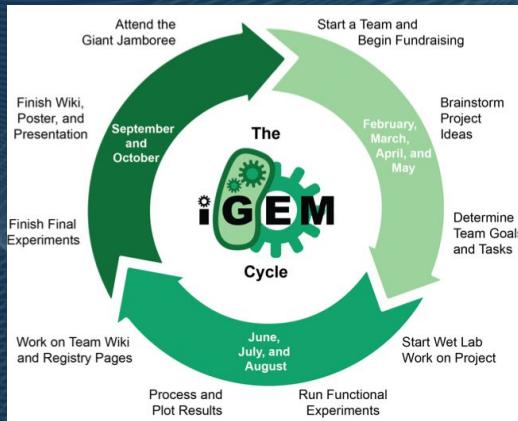
-Fast learners support: IBO, IJSO



Ivan Istomin (he/him)
EPFL



global community bio summit 4.0



[https://2020.igem.org/Resources/
Navigating_iGEM](https://2020.igem.org/Resources/Navigating_iGEM)

Dynn, C. L., et al. "Engineering design thinking, teaching, and learning." *IEEE Engineering Management Review* 34.1 (2006): 65-65.

Workshop: "Transferable skills in student (bio)engineering projects"
10 Oct 2020 17:30 - 18:20



global
community
bio summit 4.0

An interdisciplinary expert with
the global experience in science,
engineering, sustainability & arts.

From Batticaloa, Sri Lanka and
based in Berlin, Germany.

Empowering underprivileged
youth in war affected regions by
enabling them to solve complex
local challenges on their own !!!

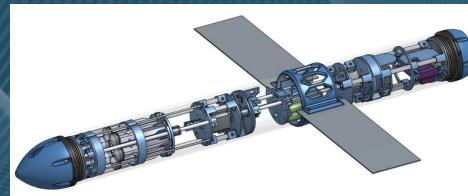


Aravinth Panch (He/His)
DreamSpace Academy



global
community
bio summit 4.0

DreamSpace Academy is a Community Innovation Center to tackle local socio-economic and environmental challenges using Challenge Based Learning.



**Maker
Education**



**Community
Innovation**



**International
Collaboration**



**Social
Entrepreneurship**



global
community
bio summit 4.0

haha bioinformatics
go brrrrrr



Alexander Shynkarenko
Genomics UA



global
community
bio summit 4.0

how do we (genomics ua) make societal impact?

bioinfo knowledge

we provide this

it industry

ukraine has this

bioinfo industry

we want this

- * better science
- * biotech industry in the future, i hope

we started when no one cared about bioinformatics in ukraine

now, year and a half later:

- * our numbers grow
- * we have done lots of workshops and lectures (>20)
- * we are getting bioinformatics to people who never heard of it

Bioinformatics UA

254 members



so, how to promote biotech where there is no biotech:

- * work from your advantages (in ukraine, good it industry)
- * constantly engage members even when there is no activity
- * give value (promote positions and trainings even if they have no benefit for you)
- * get as much international collaborations as you can

by selecting appropriately small rooms, we always have full room attendance on our events



global
community
bio summit 4.0

- From Singapore
- Ediblemakerspace/Biospacesg
- Molecular biologist by training
- Maker, fellow bodger/frugal innovator

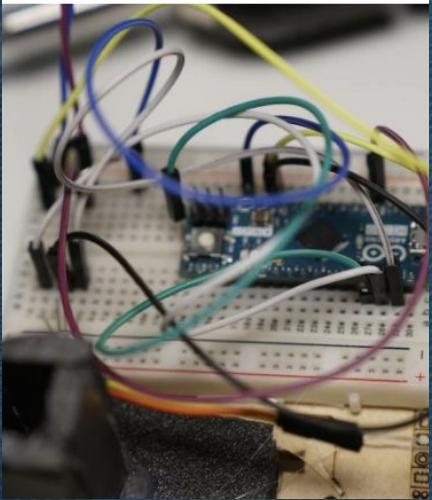


Darin Lobo
Ediblemakerspace

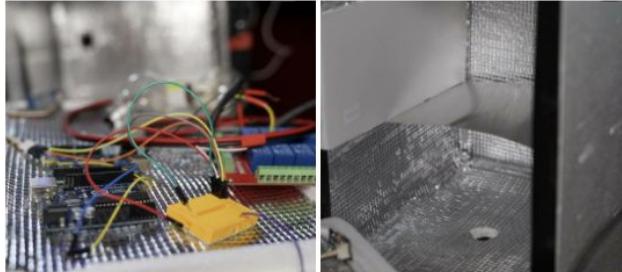


global
community
bio summit

Diy spectrometer



- Low cost incubator (climate control for fermentation)





global
community
bio summit 4.0

- **Graduate Research Fellow,
International Institute of
Tropical Agriculture, IITA.**
- **Plant ecologist and applied
geneticist.**
- **My research focuses on food
security, sustainable
agriculture and climate
change.**



Saheed Alarape

International Institute of Tropical Agriculture



global
community
bio summit 4.0

- Education and science is key to human development. The richness of an educated setup or society can't be overemphasized. Once you are educated, you are empowered. This gives you the opportunity to know your right.
- Ability to do things in a right way counts. For examples, best agronomic practices and climate smart agriculture will bring about the desired development in food security and food systems.
- There is empowerment when there is food security.





global
community
bio summit 4.0

LEARNING & EDUCATION TRACK

Q & A

Societal Empowerment Through Science Education



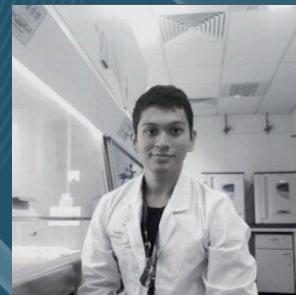
Ivan Istomin
École polytechnique fédérale
de Lausanne (EPFL)



Aravindh Panch
DreamSpace
Academy



Alexander Shynkarenko
Genomics UA



Darin Lobo
Co-founder,
Ediblemakerspace



Saheed Alarape
International Institute of
Tropical Agriculture



global
community
bio summit 4.0

Thank you!