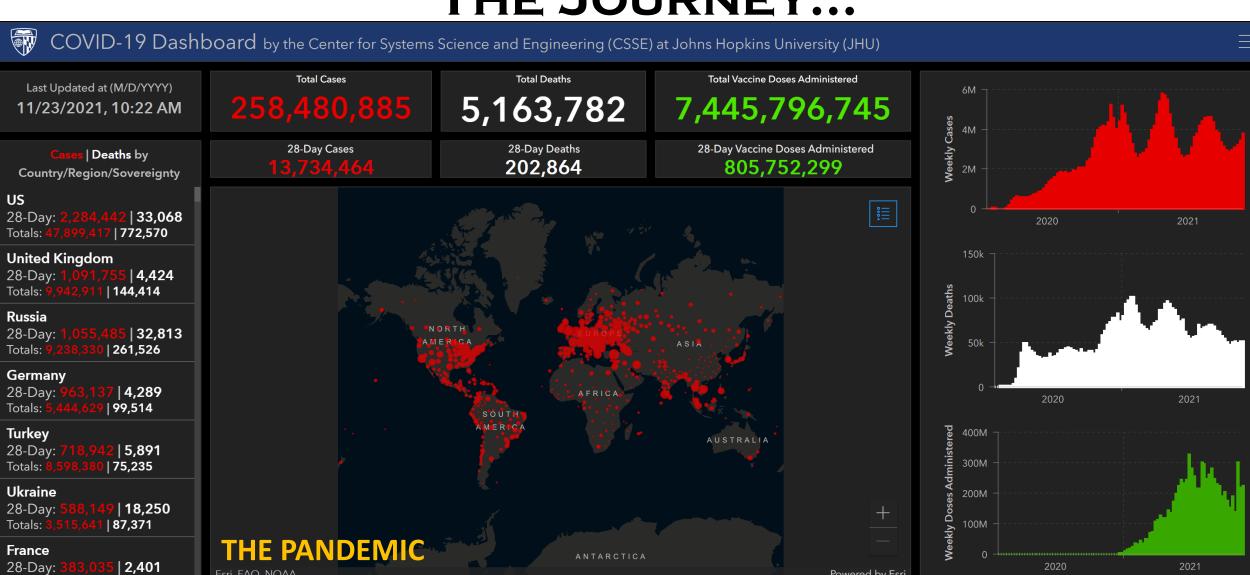






**MARCH 2020** 

# ASM-IUSSTF INDO-US PROFESSORSHIP IN MICROBIOLOGY



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### FEBRUARY 2021

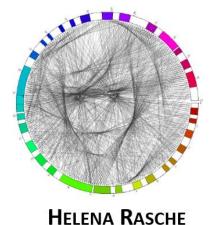
# THE JOURNEY... GTN Smörgåsbord

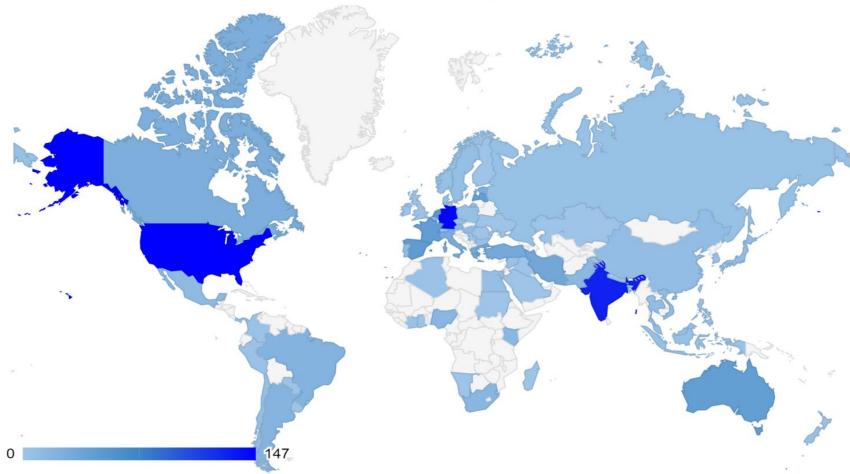
Over 1100 Participants and counting!





**SASKIA HILTEMANN** 





https://galaxyproject.org/events/2021-02-smorgasbord/



- Reached out to students and researchers in India via twitter, emails, etc.
- Selected researchers based on their CV and statement on why they were interested in the workshop.
- 24 registered students from all across India along with 13 students from IMTech attended the workshop.

#### SPEAKERS/INSTRUCTORS

- Robert Hettich (Oak Ridge National Laboratory, Oak Ridge, TN)
- Dave Clements (Galaxy Project, Johns Hopkins University)
- Pratik Jagtap (Galaxy-P Team, University of Minnesota, MN)
- Saskia Hiltemann (Erasmus University Medical Center, Hague)
- Yogesh Shouche (National Centre for Cell Science, Pune)
- Dr. Gareth Price (QCIF Facility for Advanced Bioinformatics, St. Lucia)
- Berenice Batut (University of Freiburg, Freiburg)
- Manoj Kumar (CSIR-IMTECH, India)
- Subina Mehta (Galaxy-P Team, University of Minnesota, MN)
- Brook Nunn (University of Washington, Seattle, WA)
- Anshu Bhardwaj (CSIR-IMTECH, India)
- Paul Wilmes (University of Luxembourg, Luxembourg)
- Timothy Griffin (University of Minnesota, MN)

DECEMB

Over 110

AGENDA: https://galaxyproject.org/events/2021-11-microbiomes/home/

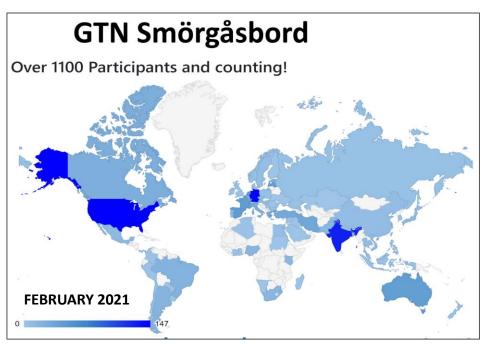
SOCIETY FOR













#### ANALYSIS OF FUNCTIONS EXPRESSED BY MICROBIOMES

Online Workshop 15-24 November 2021

Funded by American Society of Microbiology (ASM) and Indo-United States Science and Technology Forum (IUSSTF).

Hosted by CSIR-IMTech, Chandigarh and Galaxy-P Team, Minneapolis.







**NOVEMBER 2021** 

#### ANALYSIS OF FUNCTIONS EXPRESSED BY MICROBIOMES

Online Workshop

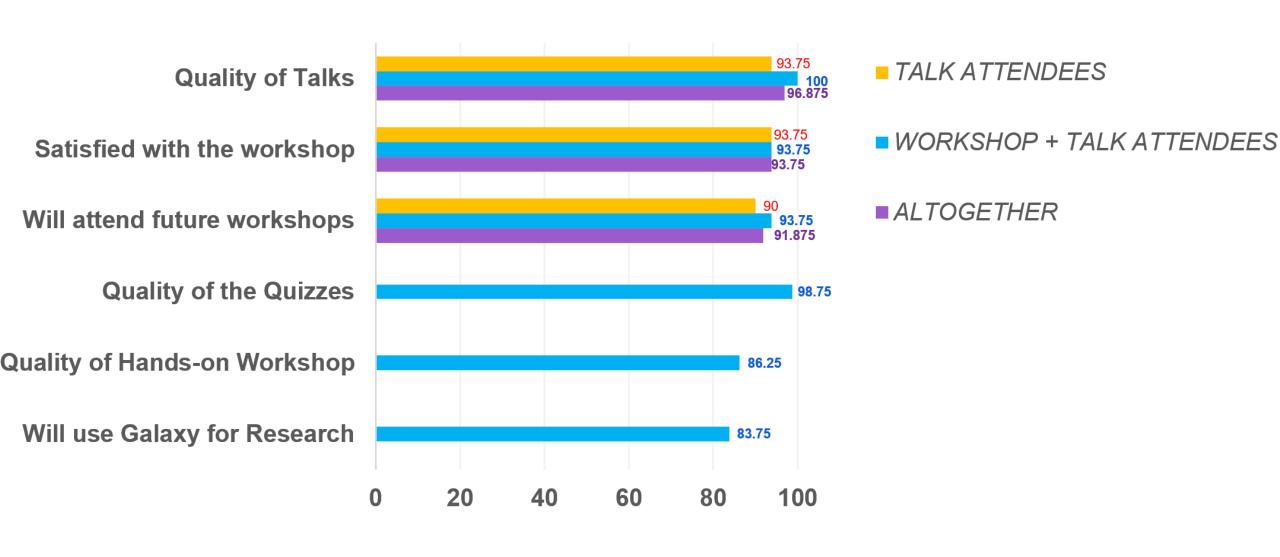
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https://galaxyproject.org/events/2021-11-microbiomes/home/



- BACKGROUND
- WHAT DID YOU LEARN?
- HOW WILL YOU USE THIS IN YOUR RESEARCH/CAREER?
  - FEEDBACK ON THE WORKSHOP
    - FOLLOW UP

#### **Positives:**

- Registered attendees learnt about Galaxy platform, metagenomics, metatranscriptomics and metaproteomics.
- GTN as a Resource for learning about tools and workflows.
- Great opportunity to listen to eminent scientists ('learning from artisans').
- Quiz sessions were great and educational!

# **Room for Improvement:**

- The workshop levels can be BASIC, INTERMEDIATE AND ADVANCED with opportunity to analyze your own data.
- Follow up workshops with 'hackathon', 'Meet the Speakers" as themes.
- Running and completing workflows was challenging for some (However, could complete it later).



#### My experience of using galaxy

**Command line interphase** 

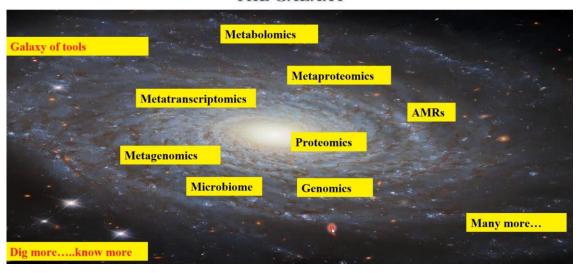
Galaxy







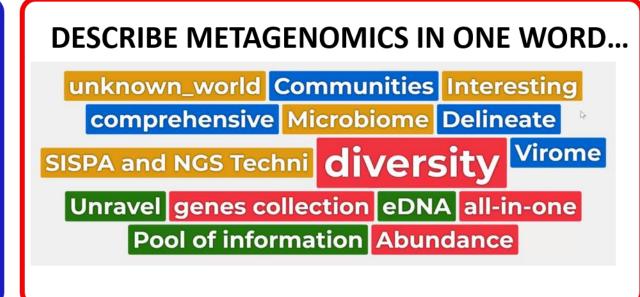
#### THE GALAXY





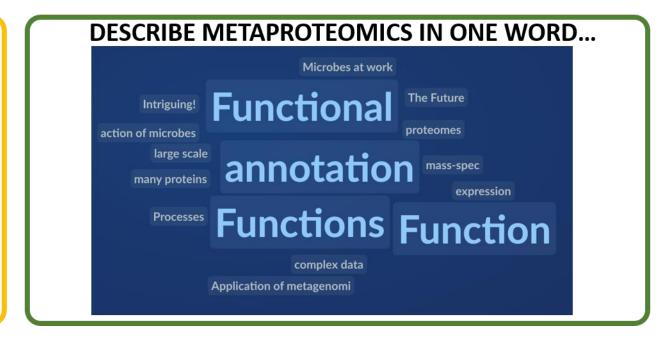
IF YOU ASK, YOU WILL NEVER KNOW. BUT, IF YOU KNOW, YOU NEED ONLY ASK...





# Master of Dry Lab RNA pool RNAiome Collective analysis half way metaRNA community expressions Functional expression activity yet-to-learn RNA expressional profiling Microbes action plan Expression

DESCRIBE METATRANSCRIPTOMICS IN ONE WORD...



10days cowabunga journey!

Box in a box information

**Exploration** 

**Galaxomics** 

Illuminating



functional micro-omics

Microbiome

interactive

**Enriching** 

**Outstanding** 

**Educational** 

Happy to be a part

functional meta-omics

statisfied

Interdisciplinary

**Eminently Excellent** 

Helpful

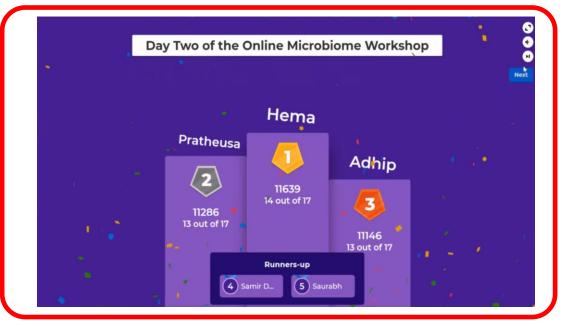
**Exciting** 

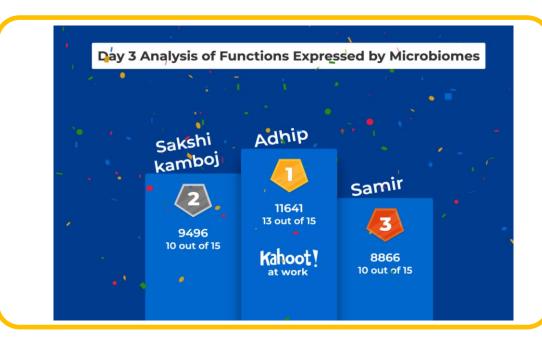
# **FUTURE PLANS**

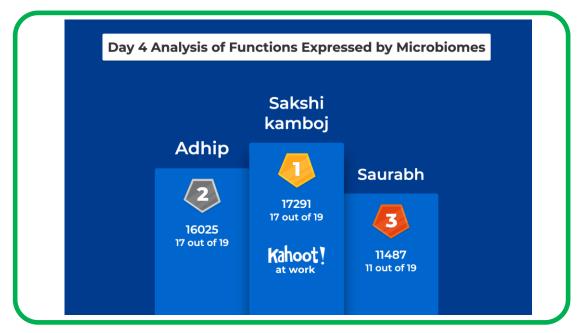
- Continued access to the training material and Slack channel.
- Follow up with research groups for some dataintensive projects.
- Follow-up workshop after 3 to 6 months or a year.
- Project-driven hackathon?
- Basic workshop for college students?
- Workshop in other parts of the world?

# **QUIZ WINNERS!**









## THANK YOU!







# **RESEARCHERS WHO ATTENDED TALKS & WORKSHOP**







INSTRUCTORS & SPEAKERS

