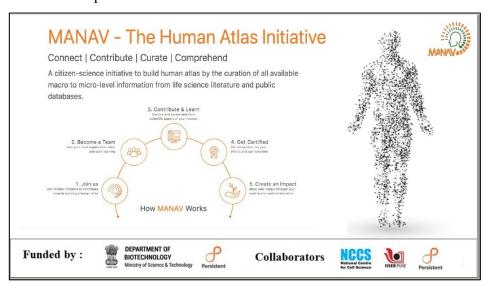
MANAV

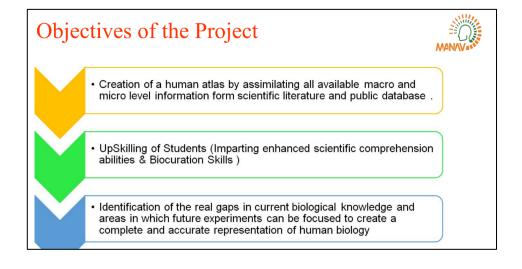
Project MANAV is a citizen science project by the Department of Biotechnology (DBT), Government of India. Co-funded by Persistent Systems Limited (PSL) and implemented through National Centre of Cell Science (NCCS), Indian Institute of Science, Education and Research (IISER) and PSL, Pune. This initiative aims to develop a proof-of-concept for constructing a biological map of the human body, by capturing and collating macro to micro-level data and knowledge available in the scientific literature and other domains. Further insights to the project are available on Manav website at https://manav.gov.in/.

E-mail: manav.iiserpune@gmail.com

MANAV: PHASE 1

As faculty coordinator, Dr. Arunima Biswas of Raidighi College successfully participated in "MANAV Scientific Reading and Comprehension Self-Assessment Module (for students)", in Microbiology, conducted by the Project MANAV – The Human Atlas Initiative [DBT, NCCS, IISER Pune, Persistent], with 11 students from the Dept.





Importance of Reading Scientific Literature



Scientific reading is important for students as it:

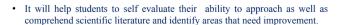


- Helps the students understand the process of science
- · Improves critical thinking abilities and knowledge about scientific facts.
- It enables students to design experiments, find solutions for a particular problem and learn/apply new methods/techniques/analysis in research projects
- Inspires student to pursue research as a career option

Manav aims to initiate students to Scientific Reading through Manav Scientific Reading & Comprehension Self-assessment Module

MANAV: Scientific Reading & Comprehension Self-assessment Module

Purpose of this module





 It aims to train students towards an efficient reading of scientific research papers and hence enhances their preparedness to contribute towards the building of Manay - The Human Atlas Platform.

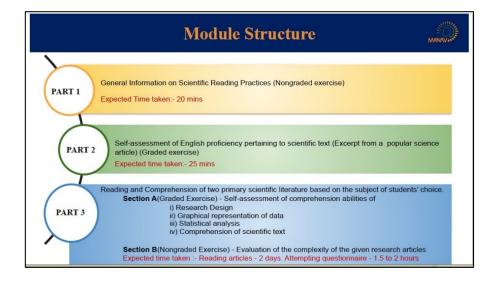


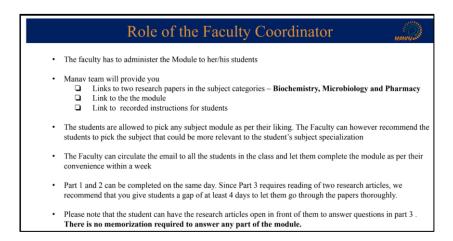
 The MANAV Human Atlas Initiative will pool this information that is received from thousands of contributors to develop, evaluate and validate the Manav platform.



 This module aims to collect general information on scientific reading practices and challenges faced by Indian Students







Assigned research articles:

Research Article 1

Analysis of Complete Genomes of *Propionibacterium acnes* Reveals a Novel Plasmid and Increased Pseudogenes in an Acne Associated Strain

Hindawi Publishing Corporation

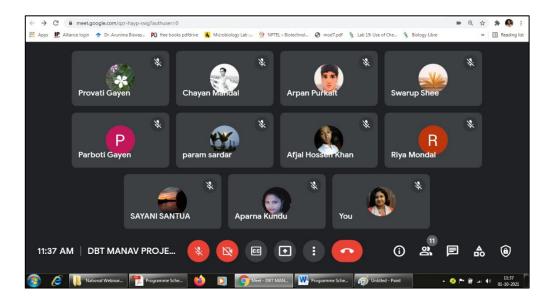
BioMed Research International, Volume 2013, Article ID 918320, 11 pages.

http://dx.doi.org/10.1155/2013/918320

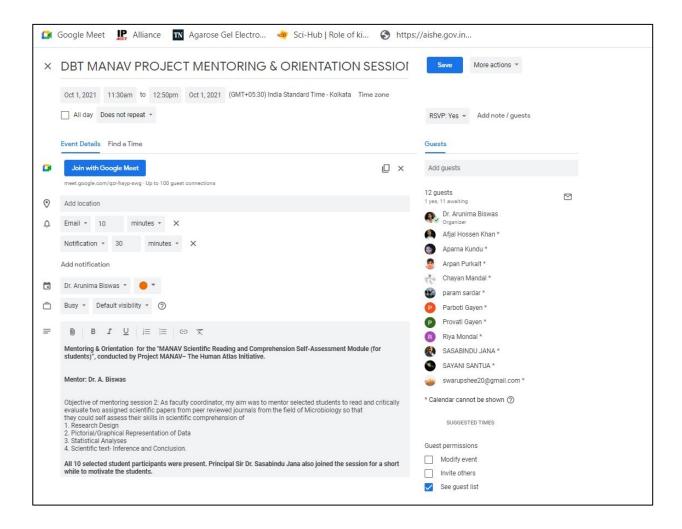
Research Article 2

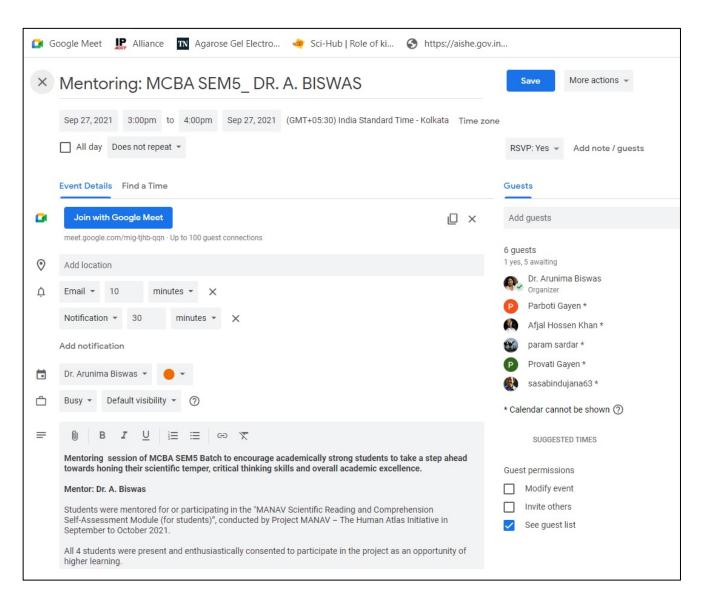
TLR-2 Recognizes *Propionibacterium acnes* CAMP Factor 1 from Highly Inflammatory Strains PLOS ONE | November 30, 2016

DOI:10.1371/journal.pone.0167237

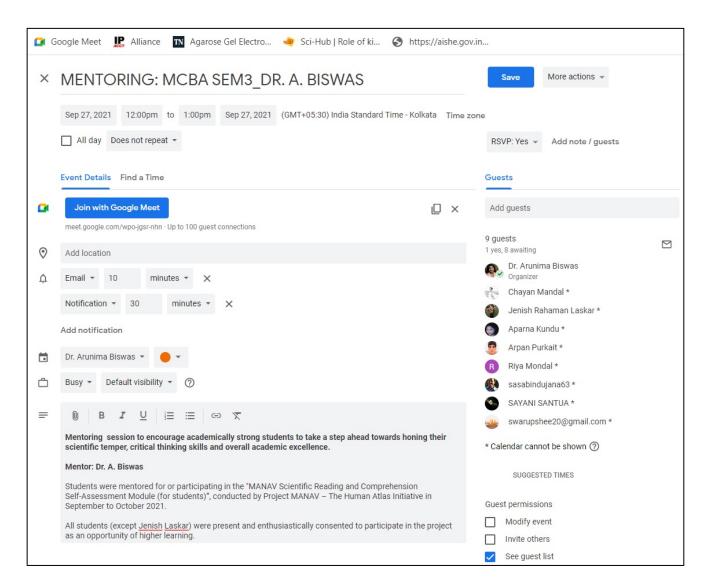


Orientation of students





Mentoring session



Mentoring session



Certificate of Appreciation

Is presented to

Dr. Arunima Biswas

Raidighi College

For participating as a Faculty Coordinator for the "MANAV Scientific Reading and Comprehension Self-Assessment Module (for students)", conducted by Project MANAV- The Human Atlas Initiative in September to October 2021.

The students under your mentorship, read and critically evaluated two scientific papers from peer reviewed journals from the field of Microbiology/ Biochemistry / Pharmacy.

They were able to self assess their skills in scientific comprehension of

- 1. Research Design
- 2. Pictorial/Graphical Representation of Data
- 3. Statistical Analyses
- 4. Scientific text- Inference and Conclusion

Your mentorship helped students take a step ahead towards the honing their scientific temper, critical thinking skills and overall academic excellence.

We appreciate your efforts towards facilitation of this program and look forward to your continued engagement with Project MANAV.

Best wishes,

Prof M. V. Krishna Sastry

Project Co-Ordinator & Principal Investigator, Scientist G, NCCS, Pune

Dr. Nagaraj Balasubramanian Dr. Anamika Krishanpal

Principal Investigator, Associate Professor, IISER, Pune

Principal Investigator, Senior Domain Specialist, Persistent LABS, Pune









Certificate of Appreciation

Is presented to

Raidighi College

For participating in the "MANAV Scientific Reading and Comprehension Self-Assessment Module (for students)", conducted by Project MANAV - The Human Atlas Initiative in September to October 2021.

The students from your College read and critically evaluated two scientific papers from peer reviewed journals from the field of Microbiology/ Biochemistry / Pharmacy.

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Best wishes,

Prof M. V. Krishna Sastry

Project Co-Ordinator & Principal Investigator, Scientist G, NCCS, Pune Dr. Nagaraj Balasubramanian Dr. Anamika Krishanpal

Principal Investigator, Associate Professor, IISER, Pune

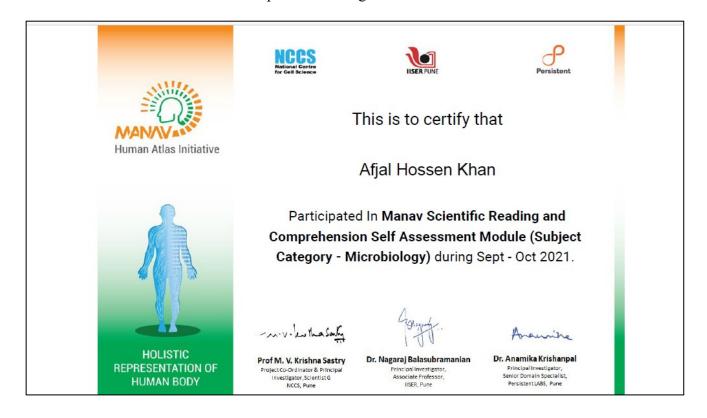
Principal Investigator,

Senior Domain Specialist, Persistent LABS, Pune





Sample certificate given to students



MANAV: PHASE 2

MANAV - Faculty Level Survey

What is it about?

It aims to collate teacher's general opinions on students' reading habits, capabilities, and challenges pertaining to reading scientific literature. We would also like to know about the challenges that teachers faced and the strategies they adopted for teaching science in an online mode during the pandemic.

The survey has following sections:

SECTION I - Personal Details

SECTION II – Teacher's evaluation of students' scientific reading habits and the infrastructure available at their institution to facilitate the same

Section III - Teaching Science in an online mode

MANAV Human Atlas Initiative will use your evaluations with those received from thousands of other participants to further develop the evaluation and annotation systems being created for the MANAV Human Atlas Platform.

PS: The Manav Platform 1.0 is being opened via "Invitation to access" to a set of chosen users in a sequential manner.

Your participation will be greatly appreciated.



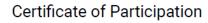
HOLISTIC REPRESENTATION OF

HUMAN BODY





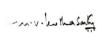




Dr. Arunima Biswas

Participated in 'Manav Faculty Level Survey on scientific reading practices, capabilities and challenges of undergraduate and postgraduate students' conducted by Project Manav.

Date of Issue: 21st Feb 2022



Prof M. V. Krishna Sastry
ProjectCo-Ordinator & Principal
Investigator, Scientist G
NCCS, Pune





Dr. Anamika Krishanpal Principal Investigator, Senior Domain Specialist, Persistent LABS, Pune