



JAIN
DEEMED-TO-BE UNIVERSITY

CENTRE FOR URBAN ECOLOGY,
BIO-DIVERSITY, EVOLUTION
AND CLIMATE CHANGE

A REPORT ON A TWO DAY WORKSHOP ON COMMUNICATING BIOLOGY RESEARCH

A Report on A Two Day Workshop on COMMUNICATING BIOLOGY RESEARCH

**Shalini T, Amith S J, KSC Nag, 2023. A Report on A Two Day Workshop
on Communicating Biology Research. CUBEC_Report_1**

Centre for Researcher Training and Administration (CRTA)
&
Center for Urban Ecology, Bio-Diversity, Evolution and Climate
Change (CUBEC)

TWO DAY WORKSHOP ON "COMMUNICATING BIOLOGY RESEARCH"



KARTHIK RAMASWAMY, PHD,
BENGALURU
BIOLOGIST, SCIENCE
COMMUNICATOR AND
EDUCATOR(IISC.)



NARMADA KHARE, PHD,
BENGALURU
SCIENCE TEACHER, WRITER,
EDITOR, COMMUNICATOR
(IISC.)

TOPIC AND DISCUSSION

Pre workshop preparation : note
attached

Day 1 - A short writing activity
using their literature survey.

Day 2 - Review of Essays written by
participants

**3rd & 10th
June 2023**

9.30 a.m. - 5 p.m.

School of Sciences, 1s Cross,
J C Road

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Objectives

- To train the research scholars to write in a clear, concise, and coherent manner while communicating their research work in conferences, journals, and thesis formats.
- To give an overview of the important aspects of Planning and organizing a research paper
- To identify the common mistakes that should be avoided in grammar and formatting.

Guest Speakers



KARTHIK
RAMASWAMY, Ph.D.,
BENGALURU
BIOLOGIST, SCIENCE
COMMUNICATOR
AND
EDUCATOR (IISc.)

Karthik Ramaswamy was a biologist in his former life, specializing in animal behavior and evolutionary biology. He got his undergraduate degree from St Joseph's College in Bangalore and his Master's from Pondicherry University.

After a stint as a Project Assistant at the Centre for Ecological Sciences, Indian Institute of Science (IISc), Bangalore, where he studied social behavior in ants, he obtained his Ph.D. from the University of Missouri-Columbia in the US, where he investigated the role of vibrational communication in mediating sociality in a group of insects called treehoppers.

He then taught at Augustana College, a liberal arts and science college, in the US. He moved back to IISc where he has been working as a science communicator and educator.

Guest Speakers



NARMADA KHARE,
Ph.D.,
BENGALURU
SCIENCE TEACHER,
WRITER,
EDITOR,
COMMUNICATOR
(IISc.)

Narmada Khare Over more than three decades looked at biology from several angles. Completed Bachelor's and master's degrees from Pune University.

Learnt genetic techniques using the fruit fly *Drosophila melanogaster* at the Tata Institute of Fundamental Research. Ph.D. at Lund University in Sweden, using the same organism to understand how organs develop. Was at Stanford University, studying how asymmetry inside cells can result in tissue-wide asymmetry when she developed a liking for teaching biology.

She spent five years at the Indian Institute of Science, teaching biology to undergraduates. Nowadays, she writes stories about and around scientific research and helps researchers effectively communicate their science.

People Behind the Event:

Organizing Committee:



Dr. Srikanta Swamy
Director

Centre for Researcher Training
& Administration (CRTA)
JAIN (Deemed-to-be-University)



Dr. Mythili P. Rao
Deputy Director

Centre for Researcher Training
& Administration (CRTA)
JAIN (Deemed-to-be-University)



Dr. Chetan Nag K S
Deputy Director & Associate
Professor

Centre for Urban Ecology,
Biodiversity, Evolution, and Climate
Change (CUBEC)
JAIN (Deemed-to-be-University)

Teaching Faculties Present :



Dr. Ramachandra Rao G
Associate Professor

Centre for Urban ecology,
Biodiversity, Evolution &
Climate change (CUBEC)
JAIN (Deemed-to-be-University)



Dr. Asha Rajiv
Director
IQAC & School of Sciences
Professor - Physics

School Of Sciences
JAIN (Deemed-to-be-University)



Dr. Apurva Kumar R Joshi
Assistant Professor
Microbiology

School Of Sciences
JAIN (Deemed-to-be-University)

Volunteering Committee:



Mr. Suraj Nagtilak
Ph.D Scholar



Ms. Bramhi Chougule
Ph.D. Scholar



Ms. Sarmistha Ojha
Ph.D. Scholar



Ms. Shraddha Kumari K
Ph.D. Scholar



Mr. Amith S J
Ph.D. Scholar



Ms. Shalini Tudu
Ph.D. Scholar



Overview:

A two-day workshop on “COMMUNICATING BIOLOGY RESEARCH” was organized by the Centre for Researcher Training and Administration (CRTA) & Centre for Urban Ecology, Bio-Diversity, Evolution, and Climate Change (CUBEC) on the 3rd and 10th of June 2023 at School of Sciences and CMS Business School JAIN Deemed-To-Be University, J C Road campus, and J.P. Nagar campus, Bengaluru.

On the first day 3rd June 2023, the workshop was conducted at the School of Sciences JAIN Deemed-to-be University, J C Road Campus, Bengaluru. A total of 20 participants pursuing Ph.D. in life science field were allowed. The first half of the day was all about the inauguration ceremony. The guest speaker Dr. Karthik Ramaswamy and Dr. Narmada Khare along with the CRTA Director Dr. Srikanta Swamy, Deputy Director CUBEC Dr. Chetan Nag KS, HOD Life Sciences Department Dr. Asha Rajiv, Associate Professor CUBEC Dr. G R Rao, and other faculties were welcomed at the event. The program got underway at 10:00 am with a presentation by Dr. Chetan Nag KS on the goals of CUBEC, the necessity for the workshop, the importance of animals and the ecosystem, as well as the challenges they face, and the need to find solutions. At the end of the presentation, Dr. Chetan Nag KS, Dr. Srikanta Swamy, and Dr. Asha Rajiv honored the guest speakers. Followed by the honoring ceremony the CRTA Director Dr. Srikanta Swamy was invited to say a few words and motivate the participants. Dr. Srikanta Swamy laid down the importance of Research and encouraged the students to participate in such workshops which will help them communicate their Research better. Subsequently, Dr. Chetan Nag KS briefed the participants on the schedule of the day.

Dr. Karthik Ramaswamy took three sessions altogether in which he started his first session with an introduction round where he introduced himself to the participants and vice versa. The CRTA Director Dr. Srikanta Swamy, Dr. Chetan Nag KS, and Dr. G R Rao were also present. Dr. Karthik Ramaswamy's sessions focused mostly on the importance of writing, why writing well is required, the values of writing, the difference between good and bad writing, how to write in the form of a story, the elements of story writing, the "ABT" framework and how to be a productive writer. He discussed the above-mentioned by providing numerous writing samples and offering students the chance to write and read their work. He also spoke about the narrative and structure of writing including the clarity, flow, and conciseness of writing. He answered the doubts raised by the participants by giving apt examples. He also gave participants an assignment to bring in the next session on June 10, 2023.

At 5:00 pm, the day's workshop came to an end. After the workshop, Dr. Chetan Nag KS addressed the participants and struck up a conversation with them, asking them to reflect on the event and allowing them to ask any final questions or voice any unanswered concerns.

On the second day 9th June 2023, the workshop was conducted at the CMS Business School JAIN Deemed-to-be University, J.P. Nagar Campus, Bengaluru. The guest speaker Dr. Karthik Ramaswamy and Dr. Narmada Khare along with the CRTA Deputy Director Dr. Mythili Rao, Deputy Director CUBEC Dr. Chetan Nag KS, and Associate Professor CUBEC Dr. G R Rao were present. The First one and a half hours were taken by Dr. Karthik Ramaswamy. The participants submitted their assignment to Dr. Karthik Ramaswamy which was assigned in the last session on the 3rd of June 2023. Then Dr. Karthik Ramaswamy distributed the sheet having rubrics for writing the article assignment. He took the assignments and distributed them to the participants randomly and asked them to peer review them without being biased as this exercise would help individuals to grow in a better way in terms of writing skills.

On the second day, Dr. Narmada Khare took overall four sessions in which she stressed “What is writing?”, the origin of the word “Science” and “Scientist”. She talked about famous scientists like Francis Bacon, The Royal Society of London, various journals including the first journal “Philosophical Transactions” and the need of writing a research paper or an article. Later she discussed the format of the research writing. She mentioned what a research paper contains and in detail explained the Title, Abstract, Introduction, Material and Method, Results, Discussion, acknowledgment, and Reference sections of the research paper. She had asked the participants to get a hard copy of a research article through which she asked the participants to compare what is required and what is not required in a paper. Toward the end of the workshop, she also discussed Research Ethics, Misconduct in Research, How to Tackle the Situation in a Case of Misconduct, and the various ways of communicating science through Poster presentations, PPT presentations, and Seminar presentations. Along with a small exercise on Elevator Pitches, she also stressed on how to make a Good Poster. She also answered the queries put in by the participants in an easy manner giving appropriate examples.

At 04:30 pm the session ended and the vote of thanks and feedback sessions started. Deputy Director CUBEC Dr. Chetan Nag KS and the Deputy Director CRTA Dr. Mythili P Rao addressed the gathering with a vote of thanks. The participants were asked to give feedback on the spot and fill out the feedback forms, the participants were also provided with a participation certificate, and a group photo was taken at the end.

List of Attendees:

SR. NO	USN	NAME	SUBJECT
1	20PHRSC0092	Sarmistha Ojha	Zoology
2	21PHRSC062	Shilpa Venkatesh	Biotechnology
3	22PHRSC022	Devaraju	Biotechnology
4	22PHRSC026	Bramhi Suresh Chougule	Biotechnology
5	22PHRSC038	Nagtilak Suraj Dilip	Biotechnology
6	22PHRSC008	Nuhu Bako Erena	Microbiology
7	22PHRSC019	Amith S J	Zoology
8	-	Drilipta Swain	Biotechnology/Genetics
9	-	Shahina Parveen	Forensic Science
10	20PHRSC0051	Maya G	Biotechnology
11	20PHRSC0091	Magdaline Christina R	Zoology
12	-	Shalini Tudu	Zoology
13	21PHRSC034	Anusha B A	Biotechnology
14	21PHRSC031	Parimala Karthik	Biochemistry
15	19PHRSC035	Shalmali Kamat	Microbiology
16	20PHRSC0076	Razia Sultana B	Microbiology
17	20PHRSC0093	Shraddha Kumari K	Zoology
18	22PHRSC003	Ghazala Jamil	Forensic Science
19	20PHRSC001	Vishwini V	Biotechnology
20	22PHRSC001	Afreen M S	Forensic Science

Abbreviation Of (-): Ph.D. First year Students From 2023 Batch

Feedback:

JGI JAIN
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COMMUNICATING BIOLOGY RESEARCH WORKSHOP- June 3rd & 10th, 2023
J P Nagar campus, Bengaluru
Participants feedback form

There are two sections to this form:

- Section I: Workshop Evaluation
- Section II: Outcome Evaluation

We ask that you take a moment to provide your feedback. Your responses are anonymous and will be used to improve future training methods. Your feedback is important to us.

Section I: Workshop Evaluation

This section helps us understand how future training may need to be adjusted to best respond to participants' needs.

On a scale of 1-4 where 1 is **strongly disagree** and 4 is **strongly agree**, please circle the most appropriate answer:

Strongly disagree - strongly agree

1. The workshop venue was:

a) Comfortable 1 2 3 **4**

b) Well located 1 2 3 **4**

Comments: Both the venues for workshop were good and comfortable.

2. The workshop content was:

a) Relevant 1 2 3 **4**

b) Comprehensive 1 2 3 **4**

c) Easy to understand 1 2 3 **4**

Comments: The content of workshop was totally justified with little of workshop. The resource persons were very clear about things for communication, so it was very easy to understand.

3. Workshop handouts/instructions:

a) Supported presentation material 1 2 3 **4**

b) Provided useful additional information 1 2 3 **4**

c) Were clear and well-organized 1 2 3 **4**

Comments: _____

4. The activities were useful learning experiences. 1 2 3 **4**

Comments: Very useful and helpful for me to work in future.

5. The Resource Persons were:

a) Knowledgeable 1 2 3 **4**

b) Well-prepared 1 2 3 **4**

c) Responsive to participants' questions 1 2 3 **4**

Comments: _____

6. What did you like best about this workshop? Very helpful suggestions were given and very interactive, very engaging.

7. What did you like least about this workshop? Time. We need more workshops like these in future.

8. Would you recommend this workshop to someone else?

Yes ☒ No ☐

Why/why not: Communicating Science is very important for students like us (PhD students) when we are in the process of our research.

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On a scale of 1-4 where 1 is **strongly disagree** and 4 is **strongly agree**, please circle the most appropriate answer:

Strongly disagree - strongly agree

1. The workshop venue was:

a) Comfortable 1 **2** 3 4

b) Well located 1 2 **3** 4

Comments: _____

2. The workshop content was:

a) Relevant 1 2 3 **4**

b) Comprehensive 1 2 3 **4**

c) Easy to understand 1 2 3 **4**

Comments: Content was most apt for our need of writing a scientific paper in a workshop.

3. Workshop handouts/instructions:

a) Supported presentation material 1 2 3 **4**

b) Provided useful additional information 1 2 **3** 4

c) Were clear and well-organized 1 2 3 **4**

Comments: _____

4. The activities were useful learning experiences. 1 2 3 **4**

Comments: _____

5. The Resource Persons were:

a) Knowledgeable 1 2 3 **4**

b) Well-prepared 1 2 3 **4**

c) Responsive to participants' questions 1 2 3 **4**

Comments: _____

6. What did you like best about this workshop? The interactions & assignments.

7. What did you like least about this workshop? -

8. Would you recommend this workshop to someone else?

Yes ☒ No ☐

Why/why not: Many of fellow research scholars unable while writing especially, scientific writing.

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On a scale of 1-4 where 1 is **strongly disagree** and 4 is **strongly agree**, please circle the most appropriate answer:

1. The workshop venue was:
- a) Comfortable 1 2 3 4
- b) Well located 1 2 3 4
- Comments: Very good, homely.

2. The workshop content was:
- a) Relevant 1 2 3 4
- b) Comprehensive 1 2 3 4
- c) Easy to understand 1 2 3 4
- Comments:

3. Workshop handouts/instructions:

- a) Supported presentation material 1 2 3 4
- b) Provided useful additional information 1 2 3 4
- c) Were clear and well-organized 1 2 3 4
- Comments: Well prepared

4. The activities were useful learning experiences. 1 2 3 4
- Comments:

5. The Resource Persons were:

- a) Knowledgeable 1 2 3 4
- b) Well prepared 1 2 3 4
- c) Responsive to participants' questions 1 2 3 4
- Comments: They were very practical, passionate persons, kept simple language, very interesting.

6. What did you like best about this workshop? practice writing assignment
7. What did you like least about this workshop? practice makes perfect. Relating to English to NIMET.

8. Would you recommend this workshop to someone else?

Yes ☒ No ☐

Why/why not: workshop is more practical and informal. New learning for the scholars.

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On a scale of 1-4 where 1 is **strongly disagree** and 4 is **strongly agree**, please circle the most appropriate answer:

1. The workshop venue was:
- a) Comfortable 1 2 3 4
- b) Well located 1 2 3 4
- Comments: As it was over campus, it's easy to commute.

2. The workshop content was:
- a) Relevant 1 2 3 4
- b) Comprehensive 1 2 3 4
- c) Easy to understand 1 2 3 4
- Comments:

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Section I: Workshop Evaluation

This section helps us understand how future training may need to be adjusted to best respond to participants' needs.

On a scale of 1-4 where 1 is **strongly disagree** and 4 is **strongly agree**, please circle the most appropriate answer:

1. The workshop venue was:
- a) Comfortable 1 2 3 4
- b) Well located 1 2 3 4
- Comments:

2. The workshop content was:
- a) Relevant 1 2 3 4
- b) Comprehensive 1 2 3 4
- c) Easy to understand 1 2 3 4
- Comments: Excellent workshop with many take-aways.

3. Workshop handouts/instructions:

- a) Supported presentation material 1 2 3 4
- b) Provided useful additional information 1 2 3 4
- c) Were clear and well-organized 1 2 3 4
- Comments: Extremely well-organized and well-put sessions.

4. The activities were useful learning experiences. 1 2 3 4
- Comments: We should. Now I believe I can distinguish between good and badly written articles.

5. The Resource Persons were:
- a) Knowledgeable 1 2 3 4
- b) Well prepared 1 2 3 4
- c) Responsive to participants' questions 1 2 3 4
- Comments: Simply put, they were wonderful!

6. What did you like best about this workshop? I can read and analyse the writing better, also try to learn better.

7. What did you like least about this workshop? I would have preferred if lunch was provided as break time was short. Reg for

8. Would you recommend this workshop to someone else? could have covered it.

Yes ☒ No ☐

Why/why not: It is important for researcher to know how to write well and communicate your research in a powerful way.

3. Workshop handouts/instructions:

- a) Supported presentation material 1 2 3 4
- b) Provided useful additional information 1 2 3 4
- c) Were clear and well-organized 1 2 3 4
- Comments:

4. The activities were useful learning experiences. 1 2 3 4
- Comments:

5. The Resource Persons were:

- a) Knowledgeable 1 2 3 4
- b) Well prepared 1 2 3 4
- c) Responsive to participants' questions 1 2 3 4
- Comments:

6. What did you like best about this workshop? Started from basics.

7. What did you like least about this workshop? Time shortage, could have learnt more.

8. Would you recommend this workshop to someone else?

Yes ☒ No ☐

Why/why not: Definitely.

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On a scale of 1-4 where 1 is **strongly disagree** and 4 is **strongly agree**, please circle the most appropriate answer:
Strongly disagree – strongly agree

1. The workshop venue was:

a) Comfortable 1 2 3 **4**

b) Well located 1 2 3 **4**

Comments: Sound was disturbing, projector connection was not good.

2. The workshop content was:

a) Relevant 1 2 3 **4**

b) Comprehensive 1 2 3 **4**

c) Easy to understand 1 2 3 **4**

Comments: Amazing way of conveying everything.

Very easy to understand and learnt a lot.

3. Workshop handouts/instructions:

a) Supported presentation material 1 2 3 **4**

b) Provided useful additional information 1 2 3 **4**

c) Were clear and well-organized 1 2 3 **4**

Comments: _____

4. The activities were useful learning experiences. 1 2 3 **4**

Comments: Very useful

5. The Resource Persons were:

a) Knowledgeable 1 2 3 **4**

b) Well-prepared 1 2 3 **4**

c) Responsive to participants' questions 1 2 3 **4**

Comments: Very beautifully clarified everything.

It was very good.

6. What did you like best about this workshop? To know what's necessary & what's not

7. What did you like least about this workshop? 1st venue of workshop.

8. Would you recommend this workshop to someone else?

Yes ☒ No ☐

Why/why not: It is very important & representative

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Strongly disagree – strongly agree

1. The workshop venue was:

a) Comfortable 1 2 3 **4**

b) Well located 1 2 3 **4**

Comments: _____

2. The workshop content was:

a) Relevant 1 2 3 **4**

b) Comprehensive 1 2 3 **4**

c) Easy to understand 1 2 3 **4**

Comments: _____

3. Workshop handouts/instructions:

a) Supported presentation material 1 2 3 **4**

b) Provided useful additional information 1 2 3 **4**

c) Were clear and well-organized 1 2 3 **4**

Comments: _____

4. The activities were useful learning experiences. 1 2 3 **4**

Comments: _____

5. The Resource Persons were:

a) Knowledgeable 1 2 3 **4**

b) Well-prepared 1 2 3 **4**

c) Responsive to participants' questions 1 2 3 **4**

Comments: _____

6. What did you like best about this workshop? Overall planning & execution.

7. What did you like least about this workshop? _____

8. Would you recommend this workshop to someone else?

Yes ☒ No ☐

Why/why not: I feel it is a needed workshop for all phd scholars, must be made compulsory/an optional during course work

Picture Gallery:











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