

NAME Dr. Arunima Biswas (Basu)

MAIDEN NAME Dr. Arunima Basu

CONTACT ADDRESS

Address: 13 Maharaja Tagore Road, Flat no. 2B, Dhakuria,
Kolkata-700031, West Bengal, India

Phone: 91-9674686579 (Mobile)

E-mail: **mou_aru@yahoo.com**

CURRENT POSITION

Assistant Professor (WBCSC appointed) and Head
Department of Microbiology,
Raidighi College,
Raidighi,
South 24 Parganas, Pin-743383,
West Bengal
(since 7th April, 2014)

CURRENT RESPONSIBILITIES IN RAIDIGHI COLLEGE~

- **Head of the Department of Microbiology (since joining)**
- **Coordinator of NAAC Steering Committee of Raidighi College (since 2015)** [Raidighi College was successfully accredited by NAAC for the first time in 2016]
- **Member of Governing Body (since 2016)**
- **Member of Internal Quality Assurance Cell (since 2016) and Coordinator for 2018-19**
- **Convener of Women's Cell (since 2015)**
- **Member of Academic and Admission Committee (since joining)**
- **Currently also serving in several other sub-committees**

RECENT ACHIEVEMENTS/PROGRAMS CONDUCTED IN RAIDIGHI COLLEGE ~

1. As convener, organized "**Save Water Campaign**"—a community awareness program on Water Scarcity and Water Safety, inspired by Ministry of Human Resource Development, Govt. of India, and Chief Minister's Water Conservation Project, held on 12th September, 2019.
2. Organized a community awareness program on "**Say No to Plastics**", inspired by Ministry of Human Resource Development, Govt. of India, on 27th September, 2019.
3. As convener, organized "**One Day Faculty Development Programme on use of ICT & LMS in higher education and the new NAAC guidelines**", on 2nd May, 2019.

4. As convener, organized a 1-Day National Seminar on “**RECENT TRENDS AND SCOPES OF MODERN BIOLOGY**” on 27th March, 2018; Sponsored by: Department of Higher Education, Government of West Bengal
5. Obtained financial grant for minor research project entitled “Study of Sundarban honey from various botanical sources as a potential anti-microbial, anti-inflammatory, anti-oxidant and anti-cancer agent” from **Department of Higher Education, Government of West Bengal**, in February 2018.

EDUCATION

2006	Ph. D. from the Department of Biophysics, Molecular Biology and Genetics, (presently, the Department of Biophysics, Molecular Biology and Bioinformatics) University of Calcutta, Kolkata, India.
1999	M. Sc. from the Department of Biophysics, Molecular Biology and Genetics, (presently, the Department of Biophysics, Molecular Biology and Bioinformatics) University of Calcutta, Kolkata, India. [Passed with First Class; Degree officially awarded in 2000]
1997	B. Sc. with Botany (Hons.), Chemistry and Zoology (Pass), Presidency College, University of Calcutta, (presently, Presidency University), Kolkata, India. [Passed with First Class]

RESEARCH EXPERIENCE

(prior to joining Raidighi College)

Jadavpur University

Kolkata, India

Department of Life Science and Biotechnology

5th Dec 2011- 4th April 2014

Position: CSIR Senior Research Associate (Scientists' pool)

Research project

Project 1:

Title: Studies on Characterization of Interaction between the 60S Ribosome Biogenesis Factor eIF6 and Ca²⁺-dependent Calcineurin Phosphatase and the role of this interaction on 60S Ribosome Biogenesis in Mammalian Cells

Project 2:

Title: Study of eIF6 recycling in relation to Shwachman-Bodian-Diamond syndrome, an autosomal recessive disorder characterized by bone marrow failure and leukemia predisposition

Albert Einstein College of Medicine

New York, USA

Department of Medicine

July 2008 – Nov 2010

Position: Research Associate

PI: Prof. Sridhar Mani

Research Experience

- Studied the role of Pregnane X receptor (PXR, an orphan nuclear receptor) in colon cancer progression
- Studied post-translational modifications of human PXR
- Initiated a project to generate a somatic cell knockout of human PXR gene

- Developed a system of studying human colon cancer cells in three dimensional cultures

Supervisory Experience

- Supervised and trained summer students and new PhD students in laboratory
- Managed laboratory safety compliance as FDNY (New York City Fire Department) - certified supervisor of chemical laboratory

Albert Einstein College of Medicine

New York, USA

Department of Developmental and Molecular Biology

Aug 2006 – June 2008

Position: Post Doctoral Research Associate

PI: Prof. Umadas Maitra

Research Experience

- Studied phosphorylation and dephosphorylation-mediated regulation of eukaryotic translation initiation factor eIF6, an essential ribosome biogenesis factor, in yeast and mammalian cell culture

Supervisory Experience

- Managed laboratory radiation safety compliance

Jadavpur University

Kolkata, India

Department of Life Science and Biotechnology

July 2005 – June 2006

Position: Post Doctoral Fellow; Funded by DBT, Govt. of India

PI: Prof. Subrata Pal

co-PI: Prof. Chanchal DasGupta (C.U.)

Research Experience

- Investigated the fourth step of protein translation, namely, disassembly of the post-termination complex, followed by ribosome recycling to enter a new round of translation

Calcutta University

Kolkata, India

Department of Biophysics, Molecular Biology and Genetics
(presently, Department of Biophysics, Molecular Biology and Bioinformatics)

Jan 2000 – June 2005

Position: Ph.D. Fellow; Funded by CSIR, Govt. of India

PI: Prof. Chanchal DasGupta

Research Experience

- PhD Project titled '**Studies on interaction of tRNA and Unfolded Protein with Ribosome**'

Supervisory Experience

- Supervised summer students and assisted junior colleagues in laboratory

- Assisted in M.Sc. laboratory courses

TEACHING EXPERIENCE

- 1) Assistant Professor, Head of the Department of Microbiology, Raidighi College (University of Calcutta) since April 2014 till date.
- 2) Was engaged in teaching in the M.Sc and Ph. D. Coursework offered by the Department of Life Science and Biotechnology, Jadavpur University, Kolkata, India (2012-15).
- 3) Acted as Guest Lecturer in the M.Sc Coursework offered by Dept. of Biotechnology, Presidency University, Kolkata, India (Aug 2011-Oct 2012).
- 4) Act regularly as Examiner, Paper-setter, Moderator in College and University level (B.Sc, M.Sc, PhD coursework exams) theory and practical exams.
- 5) Participate in Faculty Exchange Programs

PROFESSIONAL TRAINING / RELATED EXPERIENCE

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| 2019 | Participated in the One Day Symposium on “Environment: Issues and Impact”, organized by Advanced Research Centre and Dept. of Microbiology, Lady Brabourne College, on 7 th December, 2019. |
| 2019 | Participated in the NAAC sponsored National Seminar on “Opportunities and Challenges: The Role of IQAC in governance, Leadership and management”, organized by IQAC, Bijoy Krishna Girls’ College, Howrah, on 19 th September, 2019. |
| 2019 | Participated in 2-day Faculty Development Program on Development of Massive Open Online Course, organized by IQAC, Vijaygarh Jyotish Roy College and Educational Multimedia Research Centre, held on 29 th and 30 th August, 2019. |
| 2019 | Participated and organized “One Day Faculty Development Programme on use of ICT & LMS in higher education and the new NAAC guidelines”, on 2 nd May, 2019. |
| 2019 | Participated in Faculty Development Program on “ICT based teaching, learning and evaluation in higher education”, organized by IQAC, Vijaygarh Jyotish Roy College, held on <u>24th April, 2019</u> and a follow up program on Google classroom, Google form & online Audio Visual tutorial, held on <u>8th July, 2019</u> . |
| 2019 | Participated in UGC-HRDC-sponsored Refresher Course in Biological Sciences from Jan 02 - 22, 2019 and obtained ‘A’ grade. |
| 2018 | Participated in various Workshops on NAAC organized by Department of Higher Education, Govt. of West Bengal and IQAC, Ramakrishna Mission Vidyamandira and by Vijaygarh Jyotish Ray College |
| 2018 | Organized and participated in workshop on the newly introduced Semester based CBCS curriculum of University of Calcutta |
| 2017 | Participated in UGC-HRDC-sponsored Refresher Course in ‘Environmental Hazard and Disaster Management’ from Feb. 18 - March 10, 2017 and obtained ‘A’ grade. |

- 2016 Participated in NAAC Oriented Workshop and Interactive Seminar organized by IQAC and NAAC Steering Committee, Raidighi College, on Feb. 19th, 2016.
- 2016 Participated in Workshop on 'Student Orientation on Value Education' organized by IQAC and NAAC Steering Committee, Raidighi College, on Aug, 26th, 2016.
- 2015 Participated in UGC-HRDC-sponsored Orientation Program 112 (University of Calcutta) from Dec. 1- 30, 2015 and obtained 'A' grade.
- 2015 Participated in Workshop on NAAC organized by Department of Higher Education, Govt. of West Bengal and IQAC, Ramakrishna Mission Vidyamandira on July 13-14, 2015.
- 2009 Completed course on '**Fundamentals of Course Design and Teaching**', at Albert Einstein College of Medicine, New York.
- 2009 Obtained Certificate of Fitness as Chemical Laboratory Supervisor from the New York City Fire Department through Albert Einstein College of Medicine, New York.
- 1999 Completed 2 month M.Sc. summer project studying '**Membrane dynamics in Chinese Hamster Ovary Cells**' at the Center for Cellular and Molecular Biology, Hyderabad, India
PI: Dr Amitabha Chattopadhyay

PUBLICATIONS

NOTE: Most recent publications are shown first. Some publications are in the maiden name of **[Arunima Basu](#)**.

Published In peer-reviewed Journals [UGC recognized] ~

1. **Biswas, Arunima** (April 2018) "The autosomal ribosomopathy SBDS with inherited bone marrow failure is regulated by essential 60S Ribosome Biogenesis Factor eIF6". International Journal of Engineering, Science and Mathematics Vol. 7 Special Issue 4(1): 53-60. [Impact Factor: 6.765; ISSN: 2320-0294.]
2. **Biswas, Arunima** (January 2018) "Acetylation dependent regulation of the critical xenobiotic sensor Pregnane X Receptor". Education Research and Analysis, Vol. 5 (1.2) : 20-24 [ISSN: 2348-571X, UGC Journal No.64674]
3. Das, D., Samanta, D., Bhattacharya, A., **Basu, Arunima**, Das, A., Ghosh, J., Chakrabarti, A., Das Gupta, C. (2017) "A Possible Role of the Full-Length Nascent Protein in Post-Translational Ribosome Recycling" *PLOS ONE* 12 (1): e0170333. doi:10.1371/journal.pone.0170333 [PLOS ONE is an open access journal published by Public Library of Sciences online; *PLOS ONE* is based in San Francisco, California, and Cambridge, United Kingdom; Journal Impact Factor: 3.5; eISSN 1932-6203]
4. Pasquel, D., Dorcakova, A., Li, H., Kortagere, S., Krasowski, M., **Biswas, Arunima**, Walton, W., Redinbo, M., Dvorak, Z., Mani, S. (2016) "Acetylation of lysine 109 modulates pregnane X receptor DNA binding and transcriptional activity" *Biochimica et Biophysica Acta* (Gene Regulatory Mechanisms), Vol. 1859 (9): 1155-1169 [BBA is published by Elsevier; Journal Impact Factor: 6.33; ISSN: 1874-9399]
5. Wang, H., Venkatesh, M. Li, H., Goetz, R., Mukherjee, S., **Biswas, Arunima**, Zhu, L., Pullman, J, Whitney, K., O-kuro, M., Mohammadi, M. and Mani, S. (2011) "Pregnane X Receptor Activation Induces Fibroblast Growth Factor19 Dependent Tumor Aggressiveness in Humans and Mice" *The Journal of Clinical Investigation*, Vol. 121 (8) : 3220-3232.
[JCI is published by the American Society for Clinical Investigation; Journal Impact Factor: 12.6; ISSN: 0021-9738 (print), 1558-8238 (web)]

6. **Biswas, Arunima**, Pasquel, D., Tyagi, R, K. and Mani, S. (2011) "Acetylation of pregnane X receptor protein determines selective function independent of ligand activation." *Biochemical and Biophysical Research Communications*, Vol. 406 (3): 371-376. [BBRC is published by Elsevier; Journal Impact Factor: 2.3; ISSN 0006-291X (print);1090-2104 (web)]
7. Staudinger JL, Xu C, **Biswas Arunima**, Mani S. (2011) "Posttranslational Modification of Pregnane X Receptor" *Pharmacological Research* Vol. 64 : 4-10. [PR is published by Elsevier; Journal Impact Factor:4.82; ISSN: 1043-6618]
8. **Biswas, Arunima**, Mukherjee, S., Das, S., Shields, D., Chow, C and Maitra, U. (2011) "Opposing Action of Casein Kinase 1 and Calcineurin in Nucleo-cytoplasmic Shuttling of Mammalian Eukaryotic Initiation Factor eIF6." *Journal of Biological Chemistry*, Vol. 286 (4): 3129-3138. [JBC is published by the non-profit American Society of Biochemistry and Molecular Biology; Journal Impact Factor: 4.6; ISSN 1083-351X (online); ISSN 0021-9258 (print)]
9. Das, D., Samanta, D., Das, A., Ghosh, J., Bhattacharya, A., **Basu, Arunima**, Chakrabarti, A. and DasGupta, C. (2010). "Ribosome: The Structure-Function Relation and a New Paradigm to the Protein Folding Problem." *Israel Journal of Chemistry*, Vol. 50 (1): 109-116.[IJC is published by Wiley Online Library; Journal Impact Factor: 2.3; Online ISSN: 1869-5868]
10. **Biswas, Arunima**, Mani, S., Redinbo, M., Krasowski, M., Li, H., Ekins, S. (2009). "Elucidating the 'Jekyll and Hyde' Nature of PXR: The Case for discovering Antagonists or Allosteric Antagonists." *Pharmaceutical Research*, Vol. 26 (8): 1807-1815. [It is published by the American Association of Pharmaceutical Scientists; Journal Impact Factor: 3.26; ISSN: 0724-8741 (Print) 1573-904X (Online)]
11. Samanta, D., Das, A., Bhattacharya, A., **Basu, Arunima**, Das, D., DasGupta, C. (2009). "Mechanism of ribosome assisted protein folding: A new insight into rRNA functions." *Biochemical and Biophysical Research Communications*, Vol. 384: 137-140. [BBRC is published by Elsevier; Journal Impact Factor: 2.3; ISSN 0006-291X (print);1090-2104 (web)]
12. **Basu, Arunima**, Samanta, D., Bhattacharya, A., Das, A., Das, D. and DasGupta, C. (2008). "Protein folding following synthesis *in vitro* and *in vivo*: Association of newly synthesized protein with 50S subunit of *E. coli* ribosome." *Biochemical and Biophysical Research Communications*, Vol. 366 (2): 592–597. [BBRC is published by Elsevier; Journal Impact Factor: 2.3; ISSN 0006-291X (print);1090-2104 (web)]
13. **Basu, Arunima**, Samanta, D., Das, D., Chowdhury, S., Bhattacharya, A., Ghosh, J., Das, A. and DasGupta, C. (2008). "*In vitro* protein folding by *E. coli* ribosome: unfolded protein splitting 70S to interact with 50S subunit." *Biochemical and Biophysical Research Communications*, Vol. 366 (2): 598–603. [BBRC is published by Elsevier; Journal Impact Factor: 2.3; ISSN 0006-291X (print);1090-2104 (web)]
14. Samanta, D., Mukhopadhyay, D., Chowdhury, S., Ghosh, J., Pal, S., **Basu, Arunima**, Bhattacharya, A., Das, A., Das, D., and DasGupta, C. (2008). "Protein folding by Domain V of *E. coli* 23S r RNA: Specificity of RNA-Protein interactions." *Journal of Bacteriology*, Vol. 190 (9): 3344-3352. [It is published by the American Society for Microbiology; Journal Impact Factor: 2.7; ISSN: 0021-9193 (print), 1098-5530 (web)]
15. Das, D., Das, A., Samanta, D., Ghosh, J., DasGupta, S., Bhattacharya, A., **Basu, Arunima**, Sanyal, S., DasGupta, C. (2008). "Role of the Ribosome in Protein Folding." *Biotechnology Journal*, Vol. 3 (8): 999-1009.[It is published by Wiley Online Library; Journal Impact Factor:3.78; Online ISSN: 1860-7314]
16. **Basu, Arunima**, Ghosh, J., Bhattacharya, A., Pal, S., Chowdhury, S. and DasGupta, C. (2003). "Splitting of Ribosome into its subunits by unfolded polypeptide chains." *Current Science*, Vol. 84 (8): 1123-1125. [It is published by the Current Science Association along with the Indian Academy of Sciences; Journal Impact Factor:0.83; ISSN: 0011-3891]

17. Ghosh, J., **Basu, Arunima**, Pal, S., Chowdhury, S., Bhattacharya, A., Pal, D., Chattoraj, D. K. and DasGupta, C. (2003). "Ribosome-DnaK interactions in relation to protein folding". *Molecular Microbiology*, Vol. 48 (6): 1679-1692.[It is published by Wiley Online Library; Journal Impact Factor: 3.76; Online ISSN: 1365-2958]

Published As Book Chapters:

1. Tif3" (eIF3 or Eukaryotic translation initiation factor 3) (2018) by Avik Choudhuri,# Anirban Ray,# **Arunima Biswas**,# and Umadas Maitra. *Encyclopedia of Signaling Molecules 2nd edition* online (Editor: S. Choi, Springer-Verlag publication); Print + eBook ISBN 978-1-4939-6800-8. #equal contribution
2. "Tif6" (eIF6 or Eukaryotic translation initiation factor 6) (2012) **Biswas, Arunima.**, Choudhuri, A., and Maitra, U. *Encyclopedia of Signaling Molecules* First Edition (Editor: S. Choi, Springer-Verlag publication) pg 1859-1866. ISBN: 978-1-4419-0460-7 ***
3. Ribosome Assisted Protein Folding: Some of its Biological Implications (2011) Samanta, D., Das, A., Das, D., Bhattacharya, A., **Basu Arunima**, Ghosh, J. and DasGupta, C. *Protein Folding*, (Editor: Eric C. Walters, Nova science publications, New York) pg 377-400. ISBN: 978-1-61728-990-3

*** The same book chapter has been republished in the Second Edition in 2018

Publication with ISBN resulting from papers presented in UGC Sponsored National Seminars

1. 'Physiological relevance of Pregnane X receptor acetylation in lipogenesis and obesity' by **Dr. Arunima Biswas** (speaker), Dr. Sridhar Mani; Proceedings of UGC Sponsored National Seminar on "Nutritional Deprivation in the Midst of Plenty"- An Attempt to Create Awareness (organized by Raidighi College and Sarsuna College in 2015); Page 10-13; ISBN: 978-93-83010-27-1
2. 'Novel Link between Ribosome Biogenesis and Calcium Signaling via Eukaryotic Translation Initiation Factor 6' by **Dr. Arunima Biswas** (speaker) and Dr. Umadas Maitra ; "Collection of Papers from UGC Sponsored National Seminar on 'Recent Advances in Biological Sciences' (organized by CSIR-IICB, Gurudas College and Dum Dum Motijheel College in 2017); Page 99; ISBN:978-93-86526-31-1

Publication with ISBN resulting from paper presented in UGC-HRDC Sponsored Refresher Course

'The Yin and Yang of Microorganisms in Environment Management' by **Arunima Biswas**; 'Combating Environmental Hazards and Disasters: Issues and Approaches' ~ Anthology of papers in UGC-HRDC Sponsored Refresher Course in Environmental Hazards and Disaster Management, 2017. Page 18-21. ISBN: 978-93-5268-753-4

Manuscript communicated and accepted for publication in 2019:

- Studies on interaction of tRNA and unfolded protein with Ribosome
- Post-translational modification of eukaryotic translation initiation factor 6 plays a role in 60S ribosome biogenesis
- Occupational Health Risks and environmental risks associated with small scale shrimp processing industry ~ a pilot study

Scientific Publications in Raidighi College magazine Srijani :

2014-15: Small World with Big Scope
2015-16: Antibiotic Resistance ~ A growing menace
2016-17: The New 'Spicy' Antibiotics
2017-18: Martian microbes...myth or reality

PROFESSIONAL AFFILIATIONS (outside Raidighi College)

- Member of National Postdoctoral Association, USA
- Member of the New York Academy of Sciences, USA
- Member of RNA Group, India

AWARDS and FELLOWSHIPS

- **CSIR Senior Research Associateship (Scientists' Pool)** awarded in 2011 by the Council of Scientific and Industrial Research, India (availed till April 4th, 2014 and then resigned to join Raidighi Colege)
- **Institutional fellowship from Albert Einstein College of Medicine, New York, USA** (from AUG 2006-NOV 2010)
- **DBT-Postdoctoral Fellowship** awarded in 2005 by the Department of Biotechnology under the Ministry of Science and Technology, India (availed for 1 year and then resigned to join **Albert Einstein College of Medicine, New York, USA**)
- Qualified **CSIR-NET** in 1999; Fellowship (JRF and SRF) awarded by the Council of Scientific and Industrial Research, India (2000-2005)
- Qualified the **Graduate Aptitude Test Examination** (1999) conducted by the Indian Institute of Technology, India

ADDITIONAL INFORMATION:

(Papers presented in conference/seminar by Arunima Biswas (Basu) and/or by co-authors)

A few are mentioned below ~

- Paper entitled "Occupational Health Risks and environmental risks associated with small scale shrimp processing industry ~ a pilot study" presented by Arunima Biswas in **National Seminar** on "Emerging Environmental issues – retrospect and prospect" (organized by Vijaygarh Jyotish Ray College on Feb 19th, 2019).
- Poster entitled "Importance of Sundarban Honey: A potential anti-microbial, anti-inflammatory, anti-oxidant, anti-cancer agent" was presented by Arunima Biswas in the Sunderban Mukti Exhibition 2019, Raidighi, held from Jan 23-27, 2019.

- Poster entitled 'Studies on interaction of tRNA and unfolded protein with Ribosome' was presented by Arunima Biswas in **National** Seminar on "Recent Trends and Scopes of Modern Biology", (Sponsored by Department of Higher Education, Government of West Bengal & Raidighi College on 27th March, 2018)
- Paper entitled "The autosomal ribosomopathy SBDS with inherited bone marrow failure is regulated by essential 60S Ribosome Biogenesis Factor eIF6" was presented by Arunima Biswas in UGC-CPE sponsored **International** Conference on 'Facets of Basic Sciences and Applications' (organized by Bijoy Krishna Girls' College, Howrah on Feb 5-7, 2018)
- Paper entitled "Acetylation dependent regulation of the critical Xenobiotic sensor Pregnane X Receptor" was presented by Arunima Biswas in the **International** Seminar on Multidisciplinary Research (organized by Vijaygarh Jyotish Ray College and Education Research and Analysis, Kalyani Foundation for Media Science and Community Research on Jan 29th, 2018)
- Poster entitled "Novel link between Ribosome Biogenesis and Calcium Signaling via Eukaryotic Translation Initiation Factor 6" was presented by Arunima Biswas in UGC Sponsored **National** Seminar on 'Recent Advances in Biological Sciences' (organized by CSIR-IICB, Gurudas College and Dumdum Motijheel College on Feb 17-18th, 2017)
- Paper entitled 'Physiological relevance of Pregnane X receptor acetylation in lipogenesis and obesity' was presented by Arunima Biswas in UGC Sponsored **National** Seminar on "Nutritional Deprivation in the Midst of Plenty- An Attempt to Create Awareness", (organized by the Department of Food & Nutrition, Raidighi College on 22nd and 23rd September 2015 in collaboration with Department of Botany, Raidighi College and Department of Microbiology, Sarsuna College)
- Invited Talk at JIS University on 'Studying gene functions by creating gene knock-outs' on 23rd May 2016
- Invited talk at **All India RNA Group Meeting** held at IICB, Kolkata on 6th March, 2014 on 'eIF6 and Ribosome biogenesis'.
- Poster entitled 'Accumulation of Werner protein at sites of double strand breaks via its HRDC domain' was presented in National Seminar on Emerging trends in Cell and Molecular Biology organized by Dept. of Life Science and Biotechnology, Jadavpur University, on Dec 14th, 2012.
- Invited Talk at **National** Workshop on "Structural Bioinformatics and QSAR" organized by DBT Centre for Bioinformatics, Presidency University, Kolkata in collaboration with APT Software Avenues Pvt Ltd., hosted by Presidency University, Kolkata (4th March 2011): Invited Talk (1 hour) on 'Biology of Ribonucleic Acid': by Arunima Biswas (Basu)
- Paper presented at Sixth **International** Congress on Shwachman-Diamond Syndrome organized and hosted by the New York Academy of Sciences, USA (June 28-30, 2011): Oral presentation (1 hour) by Prof. Umadas Maitra (principal author) of paper entitled "eIF6 and 60S ribosome biogenesis" by Umadas Maitra and Arunima Biswas (Basu)
- Paper presented at Symposium on "From Innovations of nucleic acids research to regulation of biological processes" organized and hosted by Indian Institute of Science, Bangalore (Dec 17-19, 2011): Oral presentation (1 hour) by Prof. Umadas Maitra (principal author) of paper entitled "eIF6 and 60S ribosome biogenesis" by Umadas Maitra and Arunima Biswas (Basu)
- Paper presented at Biophysics & Molecular Biology Departmental Seminar, organized and hosted by University College of Science, Rajabajar campus, University of Calcutta, Kolkata, India (2011): Oral Presentation (1 hour) by Arunima Biswas (Basu) of paper entitled 'Opposing Action of Casein Kinase 1 and Calcium- dependent Calcineurin Phosphatase on the Regulation of Mammalian Translation Initiation Factor eIF6 and Ribosome Biogenesis': work done by Arunima Biswas (Basu) and Umadas Maitra
- Work presented at Albert Einstein College of Medicine, New York, USA, Molecular Genetics Departmental Seminar (2010): Oral Presentation (30 minutes) by Arunima Biswas (Basu) of paper entitled 'Generating a

somatic cell knock out for human Pregnane X Receptor gene in LS174T cell line using novel Zinc Finger Nuclease technology' : work done by Arunima Biswas (Basu) and Sridhar Mani

- Work presented at Albert Einstein College of Medicine, New York, USA, Academic Showcase (2009): Poster Presentation by Arunima Biswas (Basu) entitled "Post-translational modification of Pregnane X Receptor" : work done by Arunima Biswas (Basu) and Sridhar Mani
- Work presented at Albert Einstein College of Medicine, New York, USA, Molecular Genetics 1-day Retreat Conference in Mohawk Hall, NY (2009): Oral presentation (1-hour) by Sridhar Mani (co-author) of paper entitled "PXR activation induces FGF-19 dependent tumor aggressiveness": work done by Sridhar Mani, Hong Wei Wang, A. Madhukumar and Arunima Biswas (Basu)
- Work presented at Albert Einstein College of Medicine, New York, USA, Developmental & Molecular Biology Departmental Seminar (2008): Oral Presentation (1 hour) by Arunima Biswas (Basu) of paper entitled 'Nucleo-cytoplasmic Shuttling of Eukaryotic Translation Initiation Factor eIF6, an essential ribosome biogenesis factor' : work done by Arunima Biswas (Basu) and Umadas Maitra
- Work presented at **International** Seminar on Frontiers of Basic and Applied Molecular Biology, organized by University of Calcutta, held at Science City, Kolkata, India (2003):
 - Posters Presented by Arunima Biswas (Basu) entitled ~
- * Splitting of Ribosome into its subunits during protein folding
- * Ribosome-DnaK interactions in relation to protein folding: Work done by Arunima Biswas (Basu) and coauthors [eventually, paper presented by Dr. Jaydip Ghosh, co-author, on winning best poster]
- Have written regular Science columns in local magazines to promote scientific awareness

ACADEMIC REFERENCES

1) Dr. Umadas Maitra

Professor,
Department of Developmental & Molecular Biology,
Albert Einstein College of Medicine,
1300 Morris Park Avenue,
Bronx, NY 10461, USA

e-mail: umadas.maitra@einstein.yu.edu

2) Dr. Chanchal DasGupta,

INSA Senior Fellow
Department of Life Science and Biotechnology
Jadavpur University,
188 Raja S. C. Mullik Road,
Kolkata-700032, West Bengal, India

(Retired Professor and Chairman,
Department of Biological Sciences;
IISER-Kolkata, West Bengal, India

&

Former Professor,
Dept. of Biophysics, Molecular Biology and Bioinformatics
University of Calcutta,
Kolkata, West Bengal, India)

e-mail: chanchaldg2000@yahoo.com

3) Dr. Sridhar Mani

Professor,
Department of Medicine,
Albert Einstein College of Medicine,
1300 Morris Park Avenue,
Bronx, NY 10461, USA

e-mail: sridhar.mani@einstein.yu.edu

4) Dr. Uma B. DasGupta

Emeritus Scientist ,
Department of Life Sc & Biotechnology,
Jadavpur University,
188 Raja S. C. Mullik Road,
Kolkata-700032, West Bengal, India

(Retired Professor,
Dept. of Biophysics, Molecular Biology and Bioinformatics
University of Calcutta,
Kolkata, West Bengal, India)

e-mail: ubdgh@yahoo.com, dasgupta.uma@gmail.com

5) Dr. Chi Wing Chow

Associate Professor,
Albert Einstein College of Medicine of Yeshiva University
1300 Morris Park Avenue,
Bronx, NY 10461, USA

e-mail: chi-wing.chow@einstein.yu.edu