

Publications of Dr. ARUNIMA BISWAS (*nee* BASU) ~

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NOTE: Most recent publications are shown first. Some publications are in the maiden name of Arunima Basu.

Published In Journals~

1. 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]
2. 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]
3. 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)]
4. **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)]
5. 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]
6. **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)]
7. 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]

8. **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)]
9. 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)]
10. **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)]
11. **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)]
12. 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)]
13. 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]
14. **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]
15. Ghosh, J., **Basu, Arunima**, Pal, S., Chowdhury, S., Bhattacharya, A., Pal, D., Chatteraj, 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. "Tif6" (eIF6 or Eukaryotic translation initiation factor 6) (2012) **Biswas, Arunima**., Choudhuri, A., and Maitra, U. *Encyclopedia of Signaling Molecules* (Editor: S. Choi, Springer-Verlag publication) pg 1859-1866. ISBN: 978-1-4419-0460-7

2. 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, Novascience publications, New York) pg 377-400. ISBN: 978-1-61728-990-3

Manuscript submitted to journals:

1. "Novel link between Ribosome Biogenesis and Calcium Signaling via Eukaryotic Translation Initiation Factor 6" by **Arunima Biswas** and Umadas Maitra
2. "The Yin and Yang of Microorganisms in Environment Management" by **Arunima Biswas**

Book Chapter submitted (for online ebook edition):

"Tif3" (eIF3 or Eukaryotic translation initiation factor 3) 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

Manuscript in preparation:

Ribosome mediated protein folding is inhibited by tRNA molecules bound to the peptidyl transferase centre

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

Publication in Seminar Proceedings organized by Raidighi College:

'Physiological relevance of Pregnane X receptor acetylation in lipogenesis and obesity' by **Dr. Arunima Biswas** (main author and speaker), Dr. Sridhar Mani (co-author); Proceedings of UGC Sponsored National Seminar "Nutritional Deprivation in the Midst of Plenty" - An Attempt to Create Awareness; Page 10-13; ISBN: 978-93-83010-27-1