

## **Dr. Ashutosh Srivastava**

Coordinator and Assistant Professor (Grade III)

Amity Institute of Marine Science and Technology  
Amity University Uttar Pradesh  
Sec 125, Noida, INDIA

### **Carrier highlights**

**Research experience: >8 years (Post Ph.D); Teaching experience: >8 Years**

18 <sup>th</sup> June 2011- till date	<b>Coordinator</b> , Amity Institute of Marine Science and Technology, Amity University, Noida (U.P.) <b>India</b>
June 2011- till date	<b>Asst. Professor (Grade III)</b> , Amity Institute of Biotechnology, Amity University, Noida (U.P.) <b>India</b>
June 2010- May 2011	<b>Sr. Lecturer</b> , Amity Institute of Biotechnology, Amity University, Noida (U.P.) <b>India</b>
September 2009 – June 2010	<b>Postdoctoral fellow</b> at <b>NIFES, Bergen, Norway</b> for 10 months under <b>Norwegian Yggdrasil-young guest and doctoral researchers' Annual scholarship 2009-10.</b>
June 2007- May 2010	<b>Lecturer</b> , Amity Institute of Biotechnology, Amity University, Noida (U.P.) <b>India</b>
August 2006 - March 2007	<b>Ad-hoc lecturer</b> , Department of Zoology, S.G.T.B.Khalsa College, University of Delhi, Delhi-110007, <b>India</b>
June 2005 - September 2005	<b>Guest Scientist</b> at National Institute of Nutrition and Seafood Research (NIFES), Bergen, <b>Norway.</b>
August 2004 - June 2005	<b>Research Fellow</b> at National Institute of Nutrition and Seafood Research (NIFES),

Nov 2000 – Nov 2003      Bergen, **Norway** under **Norwegian Government**  
**Research Fellowship Programme (2004-05).**  
**Senior Research Fellow,** Department of  
Zoology, University of Delhi, Delhi-110007,  
**India.**

### **Academic qualification**

- 2006**      **Ph.D,** Faculty of Science, **University of Delhi,** Delhi, India.  
Research Area: Aquaculture nutrition.  
Thesis Title: *“A Comprehensive Study on Mass Production, Biochemical Composition and Nutritional Enrichment of Some Live Fish Food Organisms”.*
- 2000**      **M.Sc. (Biochemistry)-** Dr. B.R.A. University, Agra, India (**1<sup>st</sup> division with II Rank in University**).  
Dissertation title: *“Quantitative estimation of rRNA for rifampicin resistance in M. tuberculosis”.*
- 1998**      **B.Sc. (Zoology, Botany, Chemistry) 1998.** Dr. B.R.A. University, Agra, India (**1<sup>st</sup> Division**).

### **Research Interest**

Larval Nutrition, Marine Pharmacology and Fish Toxicology

### **Scholarship/Assistantship/ award**

- 2009-2010**      **Norwegian Yggdrasil- young guest and doctoral researchers'Annual scholarship 2009-10.**

- 2004-2005** Norwegian Government Research Fellow.
- 1998-2003** ICAR- Senior Research Fellow.
- 1998-2000** 2<sup>nd</sup> University rank holder in M.Sc (Biochemistry), **Dr. B.R. Ambedkar University, Agra**

### **Administration**

- As HOI, involved in all the administrative activities of the Amity Institute of Marine Science and Technology (Since June 2011)
- Developed course structure and curriculum for B.Sc (H) Marine Science and M.Sc Marine Science for Amity University Uttar Pradesh, Noida (July 2011)
- Involved in student counseling for the admission at AIMST and AIB
- Developed Aquabiotech Lab at Amity Institute of Biotechnology, Noida, India
- Worked as Lab Incharge Aquabiotech Lab, AIB Noida. ( 2009-July 2013)

### **Supervision**

- Abhay Veer Singh. A study on acute toxicity of cadmium on fresh water fish *Channa punctatu*. Dissertation for the B,Tech Biotechnology (Completed) May 2013
- Pranay Pratap Singh. A study on acute toxicity of mixed heavy metals (As, Cd, Pb and Hg) on fresh water fish *Channa punctatu*. Dissertation for the B,Tech Biotechnology (Completed) May 2013
- Kunal Kanaujiya. Effect of Ascorbic acid (Vit C) on oxidative stress enzymes and protein profiling of freshwater fish *Channa punctatus* exposed with heavy metals(As &Hg). Dissertation for the B,Tech Biotechnology (Completed) May 2012.
- Kaustubh Sharma. A study on effect of heavy metals (Cd &Pb) on oxidative stress enzymes and protein profiling of freshwater fish *Channa punctatus* and the effect of vitamin C on fish Health Exposed to Heavy Metals. Dissertation for the B,Tech Biotechnology (Completed) May 2012.
- Guided more than 100 UG and PG students for term papers
- Guided B.Tech (Biotech) students for summer training

## Publications profile

### 1. Books

#### A. (Authored)

1. Srivastava, A. (2010). Live food: Mass Production, Biochemical profiling and Enrichment. LAMBERT Academic publishing, Germany. ISBN 13: 978-3-8433-6349-5.

#### B. Book Chapters

- 1) Ashutosh Srivastava, Arti Srivastava, Ananya Srivastava, Pranjali Chandra (2015). **Marine Biomaterials in therapeutics and diagnostics**. *In: Springer Handbook of Marine Biotechnology*, edited by Prof. Se-Kwon Kim. Chapter 56, Page no 1247-1263. ISBN 978-3-642-53970
- 2) Srivastava, P., Srivastava, A., Singh, S., Srivastava, A., (2014). The Effect of L-Ascorbic acid supplementation on the immune response of *Channa punctatus* (Bloch) exposed to lead and cadmium. “**Book of Abstracts**” Page no.452. **Published by Asian Fisheries Society and ICAR-NBFGR**. ISBN No: 978-81-905540-9-1.
- 3) Srivastava, A., Singh, S., Allen, T., Srivastava, A., (2014). Effect of Arsenic and Cadmium mixture on oxidative stress and metal accumulation in freshwater fish *Channa punctatus*. “**Book of Abstracts**” Page no.461. **Published by Asian Fisheries Society and ICAR-NBFGR**. ISBN No: 978-81-905540-9-1.
- 4) Morla, D.C., Rao, B.M., Srivastava, A., (2014). Edible Films Incorporated with antibacterial agents for extension of shelflife of shrimp and fish. “**Book of Abstracts**” Page no.534 **Published by Asian Fisheries Society and ICAR-NBFGR**. ISBN No: 978-81-905540-9-1.

### 2. Research Publications in peer-reviewed journals/ Special publications

- 1) Srivastava, P., Srivastava, A., Singh, S., Srivastava, A., (2015). The Effect of L-Ascorbic acid supplementation on the immune response of *Channa punctatus*

- (Bloch) exposed to lead and cadmium. *International journal of Applied Environmental science* 10 (2): 545-561.
- 2) Daniel R.S. and **Srivastava A., (2015)**. Tailoring nutritious microalgae for marine hatcheries. *Fishing chimes*, Vol 34 (12), March 2015.
  - 3) **Srivastava, A.,** Hamre, K., Stoss, J., Nordgreen, A., **(2012)**. A study on enrichment of rotifer *Brachionus* "Cayman" with iodine. **Aquaculture** 334-337: 82-88. ISSN : 00448486
  - 4) **Srivastava, A.,** Stoss, J., Hamre, K., **(2011)**. A study on enrichment of rotifer *Brachionus* "Cayman" with iodine and selected vitamins. **Aquaculture** 319: 430-438. ISSN : 00448486
  - 5) **Srivastava, A.,** Roy, D., Chakrabarti, R., **(2009)**. Phospholipid assay of *Daphnia carinata* using 1-D and 2-D NMR techniques. **International Journal of Biotechnology and Biochemistry** 5(2): 107-114. Online ISSN: 0974-4762
  - 6) Hamre, K., **Srivastava, A.,** Rønnestad, I., Mangor-Jensen, A., and Stoss, J., **(2008)**. Several micronutrients in the rotifer *Brachionus* sp. may not fulfil the nutritional requirements of marine fish larvae. **Aquaculture Nutrition**, 14: 51-60. ISSN: 1365-2095
  - 7) **Srivastava, A.,** Hamre, K., Stoss, J., Chakrabarti, R. and Tonheim, K. S., **(2006)**. Protein content and amino acid composition of the live feed rotifer (*Brachionus plicatilis*): with emphasise on the water soluble fraction. **Aquaculture**, 254: 534-543
  - 8) **Srivastava, A.,** Rathore, R. M. and Chakrabarti, R., **(2006)**. Effects of four different doses of organic manures in the production of *Ceriodaphnia cornuta*. **Bioresource Technology**, 97: 1036-1040. ISSN no 09608524
  - 9) Kumar, S., **Srivastava, A.,** Chakrabarti, R., **(2005)**. Study of digestive proteinases and proteinase inhibitors of *Daphnia carinata*. **Aquaculture**, 243: 367-372
  - 10) Hamre, K., **Srivastava, A.** and Stoss, J., **(2005)**. Micronutrients in the rotifer *Brachionus plicatilis* cultured on four different diets. *In: Lessons from the past to optimise the future, European Aquaculture Society Special Publication* No. 35. pp. 243-244.
  - 11) **Srivastava, A.,** Tonheim, S, K., Chakrabarti , R., Stoss, J. and Hamre, K., **(2005)**. Effect of four different diets on protein and amino acid profile of rotifers. *In:*

Lessons from the past to optimise the future, **European Aquaculture Society Special Publication** No. 35. pp. 425-426.

### **3. Research Publications in Conferences and Symposiums**

- 1) **Srivastava, A.**, Srivastava, A., Kackar, P. (2013). Marine Pharmacology: A promise for healthy future. Poster presentation at “Global R&D Summit 2013- Destination India” Organized by FICCI. 25-26<sup>th</sup> July 2013 at New Delhi.
- 2) **Srivastava, A.**, Srivastava, A., Singh, S., Morla, D.C. (2013). Global Warming: A Marine Prospective. Abstracts 2013. 2<sup>nd</sup> Biennial National Conference of IASN on “Global Warming: health Hazards & Mitigation Strategies. Agra (UP), India. 9<sup>th</sup> March 2013. Page no: 43.
- 3) Mukerji, A., Saxena, A., Srivastava, A., **Srivastava, A.** (2013). Global Warming: Threat to Marine Biodiversity. Abstracts 2013. 2<sup>nd</sup> Biennial National Conference of IASN on “Global Warming: health Hazards & Mitigation Strategies. Agra (UP), India. 9<sup>th</sup> March 2013. Page no: 42.
- 4) Mukerji, A., Srivastava, A., **Srivastava, A.** (2013). Effect of use of Pesticides in Coastal Agriculture on estuaries. Book of abstracts. National conference on Environmental Pollution, Soil, Health and Sustainable Agriculture, Noida, India. 15-17 Jan 2013. Page no 67.
- 5) Srivastava, A., **Srivastava, A.** (2013). Effect of Soil Quality on Aquaculture Production. Book of abstracts. National conference on Environmental Pollution, Soil, Health and Sustainable Agriculture, Noida, India. 15-17 Jan 2013. Page no 25.
- 6) **Srivastava, A.** Stoss, J., Hamre, K., Srivastava, A., Kapoor, A., Malhotra, R. (2011). A study on enrichment of rotifer Brachionus "Cayman" with iodine and selected vitamins. Book of Abstracts, "9th Indian Fisheries Forum 2011" Chennai, India, 19-23 December 2011, pp. 148..
- 7) Hamre, K., Penglase, S. J., **Srivastava, A.**, Nordgreen, A. (2011). How to produce nutritionally balanced rotifers. Presented at “Aquaculture Europe 2011” held at Rhodes, Greece on 18-21 October 2011.

- 8) **Srivastava, A.** and Raghav, S. (2008) Study of digestive proteinases and proteinase inhibitors of *B. Plicatilis*. Book of Abstracts, National conference-cum-seminar on "Emerging Trends in Biotechnology", January 18-19, 2008, **Ghaziabad (U.P.), India.**
- 9) **Srivastava, A.**, Hamre. K., Stoss, J. and Chakrabarti, R. (2007). A study on Lipid and fatty acid profile of Live food *Brachionus plicatilis* cultured with different diets. Abstract, **8<sup>th</sup> Asian Fisheries forum**, 20-23 November 2007, **Kochi, India.**  
Page no 360
- 10) Hamre, K., **Srivastava, A.**, og Stoss, J. (2006). Ernæringsmessig Sammensetning Av rotatoriar dyrket på fire forskjellige för. Programkonferanse HAVBRUK 2006, **Bergen, Norway**, 29-31 March 2006.
- 11) Chakrabarti, R., **Srivastava, A.** and Roy, D. (2005). Phospholipid assay of *Daphnia carinata* using 1-D and 2-D NMR techniques. Abstarcts. **Plankton symposium III**, 17-20 March 2005, held at **Figueira da Foz, Portugal.**
- 12) **Srivastava, A.** and Chakrabarti, R. (2002). Biochemical composition of *Brachionus calyciflorus* cultured in outdoor condition. Abstracts. The **Sixth Indian Fisheries Forum**, 17<sup>th</sup> - 20<sup>th</sup> December, 2002, held at CIFE, Versova, **Mumbai, India.**
- 13) **Srivastava, A.** and Chakrabarti, R. (2002). Culture of *Ceriodaphnia cornuta* using four different doses of organic manures. Abstracts. **Second Indian Fisheries Science congress**, 23<sup>rd</sup> -25<sup>th</sup> Oct. 2002. CIAE, **Bhopal, India.**
- 14) Chakrabarti, R. and **Srivastava, A.** (2002). Effects of culture medium dose manipulation in the production cycle of *Ceriodaphnia cornuta*. Book of Abstarcts. **World aquaculture 2002**, April 23<sup>rd</sup> -27<sup>th</sup>, 2002 **Beijing, China.**

#### 4. **Research Reports**

- |             |   |
|-------------|---|
| <b>2010</b> | Mineral requirements of Atlantic cod ( <i>Gadus morhua</i> ) larvae at first feeding. Report <b>submitted to Research Council of Norway</b> |
| <b>2005</b> | Nutrient composition of rotifers. Report <b>submitted to Research Council of Norway</b>   |

#### 5. **Popular articles/ Web Publications**

**1. Ashutosh Srivastava, Muthunayagam Rufus Kitto (2015).** A curricula from Marine Sciences to focused Biological Economies in the Ocean. **World Aquaculture** (Accepted). ISSN: 1041-5602

**2. Ashutosh Srivastava (2014).** An in-depth analysis on prospects in marine science. Published in Science on 19 March 2014 at <http://click4admission.com/>

Link:

<http://click4admission.com/Dr.-Ashutosh-Srivastava/An-in-depth-analysis-on-prospects-in-Marine-Science/Science-Articles/22>

**3. Ashutosh Srivastava, Kristin Hamre, Joachim Stoss, Andreas Nordgreen (2012).** Uttesting av ulikejodforbindelser til anrikning av rotatorier (Norwegian). Date of publication 24th Jan 2012 at <http://www.forskningsradet.no>.

Link:

<http://www.forskningsradet.no/servlet/Satellite?blobcol=urldata&blobheader=application%2Fpdf&blobheadername1=Content-Disposition%3A&blobheadervalue1=+attachment%3B+filename%3D%22Vedlegg7Uttestingavulikejodforbindelser.pdf%22&blobkey=id&blobtable=MungoBlobs&blobwhere=1274482751374&ssbinary=true>

## **6. Patent**

1. **Srivastava, A.** (2011). A diet supplement for the enrichment of rotifer with iodine. National patent Application Number: 2738/DEL/2011. Publication date: 22/3/2013.

## **Projects:**

1. Project title: "Mineral requirements of Atlantic cod (*Gadus morhua*) larvae at first feeding". (Project no: 195647/VII).

**Funded By: Research Council of Norway.** Project cost: NOK 1,37,000/-

Duration- September 2009-June 2010.

Work Place: NIFES, Bergen, Norway

Status- Completed

## **Membership**

1. "Life Member" of Indian Science Congress Association. (Since Nov 2014).



2. **Life member of Indian Fisheries Association.**
3. **Chairman** of the **AREA ADVISORY BOARD** for Marine science and technology stream of Bio sciences and Biotechnology domain at Amity Institute of Marine Science and Technology, Amity University, Noida (Since 16<sup>th</sup> May 2014).
4. **Chairman** of the **IQAC** for Amity Institute of Marine Science and Technology Amity University, Noida (Since 22<sup>nd</sup> April 2014).
5. **Member secretary- Board of Studies-** Amity Institute of Marine Science and Technology, Amity University, Noida, India (Since 2011).
6. **Reviewer-Systematics and Biodiversity–Taylor and Francis**; Impact Factor: 1.884 (Since Sep 2013).
7. **Reviewer-Aquaculture Nutrition –Wiley Publication House**, Impact Factor: 1.688 (Since 2008).
8. **Member of the editorial board of : International Journal of Agriculture Innovations and Research”** (ISSN: 2319-1473)
9. **Member of the editorial board of : International Journal of Innovation in Science and Mathematics”** (ISSN : 2347 – 9051)
10. **Member of the editorial board of : International Journal of Research in Agricultural Sciences”** (ISSN : 2348 – 3997)
11. Member of the **scientific committee and editorial review board** (Medical and Biological Sciences) of **World Academy of Science, Engineering and Technology.**
12. Member of the **Admission Board** for AIMST (Since 2012).
13. Member of the **Question Paper moderation Board**, Amity University Uttar Pradesh (Since 2012).
14. Appointed as **External evaluator for Ph.D thesis** at **PRIST University Tamilnadu** (2012-13).
15. **Senior member** of **APCBEEES** (Asia-Pacific Chemical, Biological and Environmental Engineering Society).

### **Conferences / Symposiums/forum attended / paper presented**

- 1) 10<sup>th</sup> Indian Fisheries and Aquaculture Forum, organized by Asian Fisheries society -Indian Branch (AFSIB) at NBFGR, **Lucknow, India**, 12-15 Nov **2014**.

- 2) 5th Global Symposium on Gender in Aquaculture and Fisheries (GAF5), organized by Asian Fisheries Society at NBFGR, **Lucknow, India**, 13-15 Nov **2014**.
- 3) Journals Editorial Roundtable **2014**- The author- Impact, engagement and Social Media, Organized by Taylor and Francis Group on 10<sup>th</sup> Nov 2014 at Claridge Hotel, **New Delhi, India**.
- 4) E2E- Education to Employment Summit- Fostering Employability and Entrepreneurship **2014**, Organized by CII- 17<sup>th</sup> October 2014, **Noida, India**.
- 5) Indo- Global education Summit **2013**- Organized by The Indus Foundation- 9<sup>th</sup> Nov 2013 at IHC **New Delhi, India (Special Invitee)**.
- 6) Global R&D Summit **2013**- Destination India” Organized by FICCI. 25-26<sup>th</sup> July 2013 at New Delhi **(Special Invitee)**.
- 7) National Technology Summit, **10<sup>th</sup> Dec 2012**, IHC **New Delhi, India**.
- 8) International conference on “Perspectives in Phyllosphere Biology” 15<sup>th</sup> -17<sup>th</sup> Feb **2012, Noida, India**.
- 9) 9th Indian Fisheries Forum 2011., 19-23 December **2011, Chennai, India**.
- 10) International symposium on “Ecosystem approach to fisheries in the Bay of Bengal Large Marine Eco-system” conducted by BOBLME on 21<sup>st</sup> December **2011 at Chennai, India**.
- 11) Symposium on “Fisheries Management for sustainable livelihoods” on 20<sup>th</sup> Dec **2011 at Chennai, India**
- 12) Global Education & Skill Summit 2011, 28-30 Sep. **2011, New Delhi, India**
- 13) “16<sup>th</sup> Technology summit and Technology platform”, 7-8 Dec. **2010, New Delhi, India**.
- 14) National conference-cum-seminar on “ Emerging Trends in Biotechnology”, January 18-19, **2008, Ghaziabad (U.P.), India**
- 15) 8<sup>th</sup> Asian Fisheries forum, 20-23 November **2007, Kochi, India**.
- 16) Programkonferanse HAVBRUK, 29-31 March **2006. Bergen, Norway**.
- 17) 4<sup>th</sup> fish and shellfish larviculture symposium “Larvi 2005”, 5-8 September **2005, Ghent, Belgium**.
- 18) International conference” Aquaculture Europe 2005”, 5-9 August **2005, Trondheim, Norway**.
- 19) Plankton symposium III, 17-20 March **2005**, held at Figueira da Foz, **Portugal**.

- 20) The Sixth Indian Fisheries Forum, 17<sup>th</sup> - 20<sup>th</sup> December, **2002**, held at CIFE, Versova, **Mumbai, India**.
- 21) Second Indian Fisheries Science congress, 23<sup>rd</sup> -25<sup>th</sup> Oct. **2002**. CIAE, **Bhopal, India**.
- 22) World aquaculture 2002, April 23<sup>rd</sup> -27<sup>th</sup>, **2002 Beijing, China**.

### **Workshops attended**

- 1) **International Workshop** on Aquatic Animal Disease Surveillance, Organized by Asian fisheries Society at NBFGR, Lucknow on 14-15 **Nov 2014**.
- 2) **FDP on Innovation and Commercialization of Technologies in Life Sciences**, Organized by Amity Academic Staff College in collaboration with AIB, AUUP, **Noida on 23-24 May 2013**.
- 3) **FDP on Interdisciplinary Approach to Bioscience Research**, Organized by Amity Academic Staff College in collaboration with AIB, AUUP, **Noida on 8-10 May 2013**.
- 4) **FDP on Research Methodology**, Organized by Amity Academic Staff College, AUUP, **Noida on 28-29 Jan 2013**.
- 5) Attended workshop on “ National information Day in Food, Agriculture and Fisheries, and Biotechnology” organized by Jawaharlal Nehru University, New Delhi together with Amity Institute of Microbial Technology, Amity University, **Noida, India on 15<sup>th</sup> May 2012**.
- 6) Attended Workshop on "**Pollution Prevention Paradigm**" organized by Amity Institute of Environmental Toxicology, Safety and Management, Amity University Uttar Pradesh, **Noida on 11<sup>th</sup> May 2012**.
- 7) Workshop on Biofloc Technology: An Eco-friendly Technology for intensive Production of Fish and Prawn” held on **13-16<sup>th</sup> September 2011**, Department of Zoology, University of Delhi, **India**
- 8) International rotifer workshop, **9 September 2005, Ghent University, Belgium**.
- 9) Workshop on Probiotics in Larviculture, **7 September 2005, Ghent University, Belgium**.

10) Workshop on Larviculture & Restocking, **6 September 2005, Ghent University, Belgium.**

11) International workshop "Aquaculture Recirculation technology workshop" **9-10 August 2005, Trondheim, Norway**, organised by European Aquaculture Society and Aquaculture Engineering Society.

### **Trainings**

1) Successfully completed ICAR Sponsored Short Course on "Recent advances in Molecular Markers and Population Genomics" at **NBFGR, Lucknow**, held on **March 10-19, 2015.**

2) Training for rotifer enrichments at **Stolt Sea Farm, Øyestranda, Norway** during April 2005.

3) Training for rotifer culture at **Stolt Sea Farm, Øyestranda, Norway** during September 2004.

4) Training for various vitamins, minerals, fatty acids, nitrogen analysis and other techniques related with protein chemistry, at **NIFES, Bergen, Norway** during 2004-05.

5) Summer training on "Contemporary Techniques for Mycobacterial Diseases" from **Central JALMA Institute for Leprosy, Agra, INDIA**, during June 2000.

### **Organizing activities**

1) Actively participated in organizing International conference on "Perspectives in Phyllosphere Biology" 15<sup>th</sup> -17<sup>th</sup> Feb 2012, **Noida, India.**

2) Actively participated in organizing "International Symposium on Ciliate Biology" at **S.G.T.B. Khalsa College, University of Delhi, Delhi, India**, 6-7 Feb 2007.

3) Organized "Lab to Land Meet 2006", **Department of Zoology, University of Delhi, Delhi-110007, India.** 5<sup>th</sup> May 2006.