NAME	Dr. Ashutosh Srivastava	
DESIGNATION	Assistant Professor (Grade III) and Coordinator	
EMAIL ID	Asrivastava4@amity.edu	
CONTACT NUMBER	9818818177	
RESEARCH INTERESTS	Nutrition, Aquatic toxicology and Marine Pharmacology	

EDUCATIONAL QUALIFICATIONS:

Name of College / University	Degree	Year
University of Delhi, Delhi	Ph.D	2006
Dr. Bhim Rao Ambedkar University, Agra	M.Sc (Biochemistry)	2000
Dr. Bhim Rao Ambedkar University, Agra	B.Sc	1997

Title of Ph.D. thesis:

"A Comprehensive Study on Mass Production, Biochemical Composition and Nutritional Enrichment of Some Live Fish Food Organisms".

EXPERIENCE (in chronological order): Total >15 Years Research & Teaching

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Coordinator (HOI),	Administration	Amity Institute of Marine Science and Technology (AIMST), AUUP, Noida	18th June 2011- till date
Asst. Professor (Grade III),	Teaching and research	Amity Institute of Marine Science and Technology (AIMST), AUUP, Noida and Amity Institute of Biotechnology- AUUP	June 2011- till date
Sr. Lecturer	Teaching and research	Amity Institute of Biotechnology- AUUP	June 2010- May 2011
Postdoctoral fellow	Research	National Institute of Nutrition and Seafood Research (NIFES), Bergen, Norway	September 2009 – June 2010
Lecturer	Teaching and research	Amity Institute of Biotechnology- AUUP, NOIDA,	June 2007- May 2010
Ad-hoc lecturer	Teaching	Department of Zoology, S.G.T.B.Khalsa College, University of Delhi, Delhi	August 2006 - March 2007
Scientist	Research	National Institute of Nutrition and Seafood Research (NIFES), Bergen, Norway	June 2005 - September 2005
Research Fellow	Research	National Institute of Nutrition and Seafood Research (NIFES), Bergen, Norway	August 2004 - June 2005
Senior Research Fellow,	Research	Department of Zoology, University of Delhi, Delhi-	Nov 2000 – Nov 2003

No. of Ph.D. students supervised	nil
No. of Post-Doc	nil

No. of M.Tech. Students supervised:	nil
No. of B.Tech. Students supervised:	>10

PUBLICATIONS

Publications profile

Orcid ID: https://orcid.org/0000-0001-7028-4596

Scopus Author ID: 7403492679

Book authored: 1

Book Chapters: 7

Research Reports: 2

Peer-reviewed research articles: 22

Abstracts in proceedings: 30+

Popular articles: 5

1 Mitochondrial genome submitted to Gene Bank

10 Gene sequences submitted to Gene Bank

Detailed 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. Stephen James, Saniya Arfin, Manish K Mishra, Arun Kumar, Niraj Kumar Jha, Saurabh Kumar Jha, Kavindra Kumar Kesari, Prabhanshu Kumar, Ashutosh Srivastava, Dhruv Kumar (2022). Role of arsenic in carcinogenesis. Ed.- Kesari KK & Jha NK in Book title Free Radical Biology and Environmental Toxicity. Book series "Molecular and Integrative Toxicology", Springer Nature. 149-169.
2. Bisaria K., Sinha S., **Srivastava A.,** Singh R. (2020) Marine Pharmacognosy: An Overview of Marine-Derived Pharmaceuticals. In: Nathani N.M., Mootapally C., Gadhvi I.R., Maitreya B., Joshi C.G. (eds) Marine Niche: Applications in Pharmaceutical Sciences. Springer, Singapore.
3. Arti Srivastava, **Ashutosh Srivastava** (2020). Microplastics: An Emerging Threat to the Aquatic Ecosystem. *In:* Environmental Biotechnology Volume 1, Environmental Chemistry for a Sustainable World 44,. Edited by Gothandam KN, Shivendu R, Gupta ND, Eric L. Publisher: Springer-Nature Switzerland AG. Page no: 113-143.
4. Surbhi Sinha, Tithi Mehrotra, **Ashutosh Srivastava,** Arti Srivastava, Rachana Singh (2020). Nanobioremediation technologies for potential application in Environmental Cleanup. *In:*

Environmental Biotechnology Volume 2, Environmental Chemistry for a Sustainable World 45, Edited by Gothandam KN, Shivendu R, Gupta ND, Eric L. Publisher: Springer-Nature Switzerland AG. Page No : 53-73. ISBN 978-3-030-38196-7

5. Subhasha Nigam, Surbhi Sinha, Arti Srivastava, **Ashutosh Srivastava** (2020). Cultivation and Production Techniques of Marine Algae. *In.* Encyclopedia of Marine Biotechnology, Volume 1, Chapter 9, edited by Prof. Se-Kwon Kim (- Wiley-Blackwell Publication- ISBN: 978-1-119-14377-2
6. Arti Srivastava, **Ashutosh Srivastava** (2017). Oxidative stress mediated human diseases. *In:* Oxidative stress: Diagnostic methods and application in medical science, Edited by Pawan Kumar Maurya and Pranjal Chandra. Publisher: Springer, Singapore. ISBN No: 978-981-10-4711-4, page 141-151
7. **Ashutosh Srivastava,** Arti Srivastava, Ananya Srivastava, Pranjal 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. Research Publications in peer-reviewed journals/ Special publications

1. Namita Bedi, Dhaval Srivastava, Arti Srivastava, Supratim Mahapatra, Pranjal Chandra, **Ashutosh Srivastava.** Marine Biological Macromolecules as Matrix Material for Biosensor fabrication. Authorea. January 17, 2022. DOI: 10.22541/au.164242212.26602085/v1
2. Singh, A., Gupta H., Srivastava, A., **Srivastava, A.,** Joshi, R.C., Dutta, M.K. (2021). A novel pilot study on imaging-based identification of fish exposed to heavy

metal (Hg) contamination. Journal of Food Processing and Preservation, 45 (6): e15571

3. Chandel, V., Srivastava, M., **Srivastava, A.,** Asthana, S. and Kumar, D. (2020). In-silico interactions of active phytochemicals with c-MYC EGFR and ERBB2 oncoproteins. Chemical Biology Letters, 7(1): 47-54.
4. Issac, A., Srivastava, A., **Srivastava, A.** and Dutta M.K. (2019). An automated computer vision based preliminary study for the identification of a heavy metal (Hg) exposed fish- *Channa punctatus*. Computers in Biology and Medicine, August 2019,111:103326.
5. R.S.Daniel and **A. Srivastava.** 2017. Collaboration between private fish/shrimp hatcheries and academia for never educational programmes. Fishing Chimes, 37 (9): 44-46.
6. R.S.Daniel and **A. Srivastava.** 2017. Woes of interdisciplinary home-bound scientists in India, CURRENT SCIENCE, 112, NO. 904- 905
7. R. S. Daniel and **A. Srivastava** (2016). The Science of augmenting marine finfish larval abundance is poorly studied in Indian Seas. Aquaculture Europe, 41(2): 32-35.
8. A. Pathak, E. Danish, **A. Srivastava** (2016). Optimisation of *Thalassiosira weissflogii* culture regimes with reference to nitrogen inputs. Journal of Plant Development Sciences, 8(4): 197-199.
9. R.S. Daniel and **A. Srivastava** (2016). A disc brush fluidized- bed pack photosynthetic system for epipsammic diatom (*Amphora ovalis*) in marine hatcheries. Aquaculture Europe, 41 (1): 40-41
10. R.S. Daniel and **A. Srivastava** (2016). Cell productivity of *Nannochloropsis gaditana* CCAP 849/5 in varied reactor types with different culture light paths and light regimes. J. Algal Biomass Utln., 7 (1): 12- 20.
11. Srivastava, A., Iqbal, P., **Srivastava, A.,** Allen, T., Singh, S. (2016). Melanophore index as an indicator for

joint heavy metal toxicity in fresh water fish *Channa punctatus*. International Journal of Pharma and Bio sciences 7(2): (B) 95-103.

12. 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.
13. Daniel R.S. and **Srivastava A.,** (2015). Tailoring nutritious microalgae for marine hatcheries. Fishing chimes, Vol 34 (12), March 2015:53-55.
14. **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
15. **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
16. **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
17. 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
18. **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 emphasis on the water soluble fraction. Aquaculture, 254: 534-543
19. **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

20. Kumar, S., **Srivastava, A.,** Chakrabarti, R., (2005). Study of digestive proteinases and proteinase inhibitors of *Daphnia carinata*. Aquaculture, 243: 367-372
21. 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.
22. **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) Jangpangi, D., **Srivastava, A.** and Das, S.P. (2020). Genome editing and progress in plasmid technology. Lectures & Abstarcts -3rd international symposium on gensomics in aquaculture (ISGA-III 2020), published by CIFA-ICAR, page no 92.
2) Krishnan, R., Das, S.P. and **Srivastava, A** (2020). Methods involved in production of transgenic fish. Lectures & Abstarcts -3rd international symposium on genomics in aquaculture (ISGA-III 2020), published by CIFA-ICAR, page no 97.
3) Bhattacharjee, S., **Srivastava, A.** and Das, S.P. (2020). Role of IoTs in the smart aquaculture system. Lectures & Abstarcts -3rd international symposium on genomics in aquaculture (ISGA-III 2020), published by CIFA-ICAR,

page no 157.

4) Kumar S. and **Srivastava A.** (2019). Novel Compounds from the Sea: Current Status. *In:* Proceedings of 1st International Conference Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019). Page no 72. ISBN no. 978-93-5351-396-2.
5) Sharma A., Maniyambath A., **Srivastava A.,** Kumar D. Biopharmaceutical drug development: Inception. *In:* Proceedings of 1st International Conference Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019). Page no 196. ISBN no. 978-93-5351-396-2.
6) Kumar S. and **Srivastava A.** (2019). Novel Molecules from the Sea: Current Status. Proceedings of the International Conference on Science. Technology, Engineering and Mathematics (STEM). Page no 209. ISBN No. 9789388296618.
7) Kumar S. and **Srivastava A.** (2018). Recent advancement in marine pharmacology. "Abstract Book- National conference on disease and drugs: Emerging trends and challenges" (Student Best Oral Presentation award). Page no 74.
8) Srivastava A. and **Srivastava A.** (2018). Marine Pharmacology: A Promising Wave for Novel Drug Development. "Abstract Book - National conference on disease and drugs: Emerging trends and challenges" Page no 59.
9) Srivastava A, Singh S, Allen T, **Srivastava A** (2016). Oxidative Damage and Histological Response of Arsenic and Mercury Exposed Fresh Water Fish *Channa punctatus.* "New insights &Multidisciplinary Approaches in Toxicological studies- Book of Abstracts" edited by Prof Tanu Jindal, published by Excell India Publishers, (ISBN NO: 978-93-85777-87-5) Page no.60-61.
10) 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.

11) 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.

12) 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.

13) **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. 25-26th July 2013 at New Delhi.

14) **Srivastava, A.,** Srivastava, A., Singh, S., Morla, D.C. (2013). Global Warming: A Marine Prospective. Abstracts 2013. 2nd Biennial National Conference of IASN on "Global Warming: health Hazards & Mitigation Strategies. Agra (UP), India. 9th March 2013. Page no: 43.

15) Mukerji, A., Saxena, A., Srivastava, A., **Srivastava, A.** (2013). Global Warming: Threat to Marine Biodiversity. Abstracts 2013. 2nd Biennial National Conference of IASN on "Global Warming: health Hazards & Mitigation Strategies. Agra (UP), India. 9th March 2013. Page no: 42.

16) 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.

17) Srivastava, A., **Srivastava, A.** (2013). Effect of Soil Quality on Aquaculture Production. Book of abstracts. National conference on Environmental Polution, Soil, Health and Sustainable Agriculture, Noida, India. 15-17 Jan 2013. Page no 25.

18) **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..

19) 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.

20) **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.

21) **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, 8th Asian Fisheries forum, 20-23 November 2007, Kochi, India. Page no 360

22) 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.

23) 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.

24) **Srivastava, A.** and Chakrabarti, R. (2002). Biochemical composition of *Brachionus calyciflorus* cultured in outdoor condition. Abstracts. The Sixth Indian Fisheries Forum,

17th - 20th December, 2002, held at CIFE, Versova, Mumbai, India.

25) **Srivastava, A.** and Chakrabarti, R. (2002). Culture of *Ceriodaphnia cornuta* using four different doses of organic manures. Abstracts. Second Indian Fisheries Science congress, 23rd -25th Oct. 2002. CIAE, Bhopal, India.

26) 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 23rd -27th, 2002 Beijing, China.

4. Research Reports

2010 Mineral requirements of Atlantic cod (*Gadus morhua)* larvae at first feeding.

Report submitted to Research Council of Norway

2005 Nutrient composition of rotifers. Report submitted to Research Council of Norway

5. Popular articles/ Web Publications

1. R. S. Daniel and **A. Srivastava** (2017). Optimizing culture of the weissflogii diatom. Global Aquaculture Advocate. 3 January 2017.

   Link : http://advocate.gaalliance.org/optimizing-culture-of-the-weissflogii-diatom/

2. R.S.Daniel, **A.Srivastava** (2016). Novel Reactor for Indoor, High-Density Production of Diatoms, Global Aquaculture Advocate. April 2016.

   Link:http://advocate.gaalliance.org/novel-reactor-developed-for-indoor-high-density-production-of-diatoms/

3. R. Shibu Daniel and **Ashutosh Srivastava** (2016). Unconventional Live Feeds: Opportunities and Constraints. Hatchery Feed Guide & Year Book 2016 from Hatcheryfeed.com.
4. **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 5. **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=ContentDisposition%3A&blobheadervalue1=+attachment%3B+filename%3D%22Vedlegg7Uttestingavulikejodforbindelser.pdf%22&blobkey=id&blobtable=MungoBlobs&blobwhere=1274482751374&ssbinary=true
PATENTS ***(total no.): 1***	**1.** Srivastava, A. A diet supplement for the enrichment of rotifer with iodine. National patent Application Number: 2738/DEL/2011. Publication date: 22/3/2013. (**In order for grant under section 43, awaiting NBA approval)**
RESEARCH PROJECTS Completed: ***(total no.): 1*** Ongoing: ***(total no.): nil***	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
AWARDS & HONOURS/ DISTINCTIONS	**Scholarship/Assistantship/ award** 3rd Octo 2021 "ESDA Senior Scientist Award 2021" By Environmental and Social Development Association (ESDA) at World Environmental Summit 2021, India International Centre, New Delhi.

	13th Sep 2016 "Research Excellence Award" By Indus Foundation US. 2009-2010 Norwegian Yggdrasil- young guest and doctoral researchers'Annual scholarship 2009-10. 2004-2005 Norwegian Government Research Fellow. 2000-2003 ICAR- Senior Research Fellow. 1998-2000 2nd University rank holder in M.Sc (Biochemistry), Dr. B.R. Ambedkar University, Agra
MEMBERSHIP with Professional/ Academic bodies	**<u>Membership</u>** 1. Patron Member Environment & Social Development Association (ESDA) (Since Sep 2021) 2. "Life Member" of Indian Science Congress Association. (Since Nov 2014). 3. Life member of Indian Fisheries Association. 4. Member secretary- **Board of Studies (BoS)-** Amity Institute of Marine Science and Technology, Amity University, Noida, India (Since 2011). 5. 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 16th May 2014). 6. Chairman- **IQAC** for Amity Institute of Marine Science and Technology Amity University, Noida (Since 22nd April 2014). 7. Member **Domain IQAC**- Faculty of Biosciences and Biotechnology, AUUP, Noida 8. Member -Special Committee to examine the minutes of meetings of Area Advisory Board (AAB) & Course Curriculum for programs of Bio Sciences & Biotechnology Domain (12th April 2016-June 2018). 9. Chairperson: Examination Committee- AIMST 10. Chairperson: Institutional NTCC Committee- AIMST

	11. **Reviewer** – 3Biotech- Springer, Impact Factor-3.203 (Since 2020) 12. Reviewer-Systematics and Biodiversity–Taylor and Francis; Impact Factor: 1.884 (Since Sep 2013). 13. Reviewer-Aquaculture Nutrition –Wiley Publication House, Impact Factor: 2.410 (Since 2008). 14. Member of the editorial board of : International Journal of Agriculture Innovations and Research" (ISSN: 2319-1473) 15. Member of the editorial board of : International Journal of Innovation in Science and Mathematics" (ISSN : 2347 – 9051) 16. Member of the editorial board of : International Journal of Research in Agricultural Sciences" (ISSN : 2348 – 3997) 17. Member of the scientific committee and editorial review board (Medical and Biological Sciences) of World Academy of Science, Engineering and Technology. 18. Senior member of APCBEES (Asia-Pacific Chemical, Biological and Environmental Engineering Society).