



CURRICULUM VITAE

Name : **Dr. A. SADIQ BUKHARI**
Designation : Assistant Professor
College Address : P. G. Department of Zoology
Jamal Mohamed College (Autonomous)
Tiruchirappalli - 620 020
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Date of Birth : 8th June 1976
Nationality : Indian
Marital Status : Married
Area of Specilization : Radiation Biology & Nano Toxicology

EDUCATIONAL QUALIFICATION : M.Sc., M.Phil., P.G.D.W.P.M., Ph.D.,

Exam passed	Board / University	Subjects	Year	Division / Grade
B.Sc	Jamal Mohamed College Bharathidasan University	ZOOLOGY	1997	I
M.Sc	Jamal Mohamed College Bharathidasan University	ZOOLOGY	2000	I
Ph.D	Jamal Mohamed College Bharathidasan University	ZOOLOGY	2004	HIGHLY COMMENDED
M.Phil	Petiyar University	BIOTECHNOLOGY	2009	I
P.G.D.W.P.M	Jamal Mohamed College Bharathidasan University	WATER POLLUTION	1999	I

RESEARCH EXPERIENCE:

Research Stage	Title of Work / Thesis	University where the work was carried out
M.Phil (Biotechnology)	Cultural and Biochemical Diversity of Pink- Pigmented Methylophilic Bacteria from Millipedes	Periyar University, Salem
Ph.D.	Studies on the Bioaccumulation of Natural Radionuclides in the Seafood Organisms and Dose Transfer to the Coastal Population of Palk Strait, South East Coast of India.	Jamal Mohamed College, Bharathidasan University, Tiruchirappalli

HANDS ON TRAINING :

S.No.	Name of the Training	Name of the sponsoring agency
1	Radiological Safety Aspects in the Research Application of Ionising Radiation	Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai & Indian Association for Radiation Protection
2	Introduction to Systems and Synthetic Biology for Scientists and Engineers	IIT, Bombay

AWARD:

Recipient of Har Godind Khorana Best Young Scientist Award 2012-13 by Bose Science Society.

SCHOLARSHIP :

Received scholarship from Department of Collegiate Education, Government of Tamil Nadu, for Ph.D., Research Study Ref. No. 27974/M2/02 dt. 30.01.2003.

TEACHING EXPERIENCE - 13 years

- Worked as lecturer in P.G.Department of Zoology, Jamal Mohamed College in the leave management vacancy December 2003 to July 2006.
- From August 2006 to till date working as in the P.G.Department of Zoology, Jamal Mohamed College, Govt. Aided Staff.

Subjects Handling for the students of Bachelor, Master of Science in Zoology :
Invertebrata, Chordata, Animal Physiology, Environmental Biology, Cell Biology, Radiation Ecology, Embryology, Microbiology, Nanotechnology.

For students of Master of Philosophy in Zoology : Environmental Biology

ORIENTATION / REFRESHER COURSES ATTENDED :

S.No.	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation Programme	UGC-Academic Staff College	Bharathidasan University, Tiruchirappalli 03-11-2009 – 30-11-2009
2	Refresher Course	UGC-Academic Staff College	Bharathidasan University, Tiruchirappalli 18-07-2014 to 07-08-2014
3	Refresher Course	UGC- HRDC, Academic Staff College	Pondicherry University, Pondicherry 27-06-2015 to 17-07-2015

RESEARCH PROJECTS CARRIED OUT:

Title of the Project Remarks	Name of the Funding Agency	Duration Amount
Principal Investigator:		
Evaluation of effects of Ionizing Radiation Dose on Aquatic Biota	Bhabha Atomic Research Centre, Department of Atomic Energy Government of India, Mumbai	2008-2012 Rs.28.7 Lakhs
Toxicological impact assessment of Nanoparticles of heavy metal ions (Zn, Cd, As, Al, Ti and Hg) on Aquatic biota – Algae (<i>Selenastrum</i> sp.), Zooplankton (<i>Daphnia</i> sp.) and Fish (<i>Oreochromis</i> sp.)	Bhabha Atomic Research Centre, Department of Atomic Energy Government of India, Mumbai	2014-2017 (On-going) Rs. 20 Lakhs
Co- Principal Investigator:		
Synergistic Effects and Health risk assessment of Radiation dose among tobacco users.	University Grants Commission New Delhi	2012-2015 (on-going) Rs.10.31 lakhs

RESEARCH ADVISOR:

Ph.D. Programme:

Recognised Guide of Bharathidasan University:
Ref. No. 27720/Ph.D- /Zoology/R.A/Date:19-10-2007.

Awarded : 3 Registered : 3

M.Phil., Programme:

Recognised Guide of Bharathidasan University Ref.
No.23934/M.Phil/RA/Zoology/2006/Dt.21-08-2006.

Awarded: 12 Registered : 2

SEMINARS , CONFERENCES AND SYMPOSIA ORGANIZED :

Sl. No	Seminar, Conference and Workshops	Sponsored	Dates
1	One day seminar on “Radiation and Human Welfare”	University Grants Commission, New Delhi	26-3-2010
2	Two day BRNS & IANCAS Workshop on “Radio Chemistry and Application of Radioisotopes”	Board of Research in Nuclear Sciences (BRNS) and The Indian Association of Nuclear Chemists and Allied Scientists (IANCAS)	18-9-2010 to 19-9-2010
3	National Conference on Current Challenges in Environment (NC3E-2013)	Association of Environmental Analytical Chemistry of India (AEACI), BARC, Mumbai	7-3-2013
4	Seminar of Environment and Resource Management	Bhabha Atomic Research Centre, Mumbai	19-9-2014

COUNTRY VISITED :

Birmingham, Oxford – United Kingdom.

MEMBERSHIP OF PROFESSIONAL BODIES :

1. Advisory Editorial board for International Journal of Pure and Applied Zoology Research Journal.
2. Association of Analytical Chemistry of India, BARC, Mumbai
3. Indian Society for Radiation Biology, Mumbai
4. Bose Science Society, Pudukkottai

PUBLICATION : Book - 1

Paper - Journals : 8 Proceedings - 9

BOOK:

Environmental Radioactivity Natural radionuclides in the soil. M. Saiyad Musthafa, **A. Sadiq Bukhari**, H.E. Syed Mohamed Lambert Academic Publishing. 2011, ISBN: 978-3-8465-3702-2.

JOURNAL: Papers

1. R.Krishnamoorthy, R., Syed Mohamed.H.E., **Sadiq Bukhari,A.**, Shahul Hameed,M.M., Shahul Hameed,P., Radiological Studies in Koraiyar River Ecosystem, Tiruchirappalli. J.Ecotocol. Environ. Monit. 18(6) 573-580 (2008). ISSN:0971-0965-08-18-573.
2. **A. Sadiq Bukhari**, H. E. Syed Mohamed, K.V. Broos, A. Stalin, R. K. Singhal, P. Venubabu., Histological variations in liver of freshwater fish *Oreochromis mossambicus* exposed to 60CO gamma irradiation. Journal of Environmental Radioactivity.113(2012) 57-62.
3. A. Stalin, K.V. Broos, **A. Sadiq Bukhari**, H.E. Syed Mohamed, R. K. Singhal,P. Vevu-babu., Morphological and Histological studies on freshwater prawn *Macrobrachium rosenbergii* (de man) irradiated with 60CO gamma radiation. Aquatic Toxicology, 144-145(2013) 36-49.
4. A. Stalin, K.V. Broos, **A. Sadiq Bukhari**, H.E. Syed Mohamed, R. K. Singhal,P. Vevu-babu., Effects of 60CO gamma irradiation on behavior and gill histoarchitecture of giant fresh water prawn *Macrobrachium rosenbergii* (de man)., Ecotoxicology and Environmental Safety 92(2013) 155-160.
5. K.V. Broos., A.Stalin, **A. Sadiq Bukhari**, H.E. Syed Mohamed., Haematological Alteration in *Oreochromis mossambicus* after Exposure to 60CO Gamma irradiation. Indian journal of Natural Science. Vol.4/Issue 25/August 2014. ISSN: 0976- 0997
6. Suganthi P, Murali M, **Sadiq Bukhari A**, Syed Mohamed HE, Basu H, Singhal R.K. Behavioural and Histological variations in *Oreochromis mossambicus* after exposure to ZnO Nanoparticles. International Journal of Applied Research 2015; 1(8): 524-531. ISSN Print:2394-7500 ,ISSN Online:2394-5869.
7. Suganthi P, Murali M, **Sadiq Bukhari A**, Syed Mohamed HE, Basu H, Singhal R.K., Haematological studies on freshwater *Tilapia* treated with ZnO nanoparticles. Journal of Advanced Applied Scientific Research-Vol-1-1-May-2015:41-67. ISSN:2454-3225.
8. Suganthi P, Murali M, **Sadiq Bukhari A**, Syed Mohamed HE, Basu H, Singhal R.K., Morphological and Liver Histological effects of ZnO Nanoparticles on Mozambique *Tilapia*. Journal of Advanced Applied Scientific Research - Vol-1-1-May-2015:68-83 . ISSN:2454-3225.

PROCEEDINGS: Papers

1. Shahul Hameed, M.M., **Sadiq Bugari,A.**, Masilamani,V., Ravikumar, S., and Shahul Hameed, P., 2002. Bioaccumulation of Polonium-210 in the chosen organisms of Thondi Coast, Palk Strait. Proceedings of Eleventh Nat.Sym. Env., Udaipur. pp. 75-78.
2. **Sadiq Bugari, A.**, Shahul Hameed, M.M., Ravimankam ., Shahul Hameed. P., 2003 Radiation Ecology of Palk Strait, Journal of Radiation Protection and Environment Vol. 26,(1-2): 473 - 477.
3. Krihnamoorthy.R, **Sadiq Bukhari.A**, Ravi Kumar.S and Shahul Hameed. P., 2004. "A study on the distribution of naturally occurring radionuclides in the ecosystem of Athangarai estuary, Palk Strait." Proceeding of National Seminar on New Frontiers in Marine Biosciences Research (Allied publication), Chennai. 187-194.
4. Shahul Hameed, M.M., **Sadiq Bukhari, A.** Shahul Hameed. P., Study on the bioaccumulation of Polonium - 210 and Lead - 210 in the abiotic and biotic components of Palk Strait, South East Coast of India. Proceeding of the 11th International congress of the International Radiation Protection Association (IRPA 11) .
5. Raja.P., **Sadiq Bukhari,A.**, Krishnamoorthy.R., Shahul Hameed. M.M., and Shahul Hameed. P., 2004. A study on the distribution of alpha emitting radionuclides, Polonium-210 in the Pitchavaram mangrove forest, Southeast coast of India (Bay of Bengal). Proceeding of the 12th National Symposium on Environment.
6. Shahul Hameed, P., **Sadiq Bukhari,A.**, Shahul Hameed, M.M., Measurement of Primordial Radionuclides Distribution in the Coastal Sediments of Palk Strait, South East Coast of India. Journal of Environmental Geochemistry, Vol. 8 No. 1&2, pp. 372-374, 2005.
7. **Sadiq Bukhari,A.**, Krishnamoorthy.R., Syed Mohamed, H.E., Rajasekaran, T., Raja, P., Shahul Hameed. M.M., and Shahul Hameed. P., Thermal Tolerance Study in the fresh water mussel *Lamellidens Marginalis* Proc. of Nat. Sem. Atom. Energ. Env. Human Wel. 2005, pp 68-70.
8. Ravimanickam, T., Krishnamoorthy.R., **Sadiq Bukhari,A.**, Shahul Hameed. M.M., and Shahul Hameed. P., A study on the distribution of natural radionuclides Polonium-210 in the ecosystem of Mandapam coast (Palk Strait) Proc. of Nat. Sem. Atom. Energ. Env. Human Wel. 2005, pp 73-76.

9. Shahul Hameed. M.M., **Sadiq Bukhari,A.**, Firoz.O., Saiyad Mustafa, M., and Shahul Hameed. P., Measurement of Ambient Gamma Radiation levels in Tiruchirappalli City Proc. of Nat. Sem. Atom. Energ. Env. Human Wel. 2005, pp 80-82.
10. Saiyad Musthafa.M., Shahul Hameed,M.M., **Sadiq Bukhari.A.**, Shahul Hameed.P., A study on the Distribution of Primordial Radionuclides in Soil Samples of Tiruchirappalli City Environment, India. Environmental Geochemistry, Vol.9,No.2,pp13-20,2006.

SEMINARS / CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED

INTERNATIONAL :

1. Participated in the **International Conference on Effects of Low Dose Radiation, The Future for Radiation Protection** - 2009, Nuclear Institute, London, Birmingham, United kingdom. 3-2-2009 – 5-2-2009.

NATIONAL:

1. Participated in the **National Science Day Celebration** Conducted by Bharathidasan University at Baharathidasan University, Tiruchirappalli on 10th July. 2001
2. Participated in the **National Seminar on Atomic Energy, Ecology and Environment**, sponsored by the Board of Research in Nuclear Sciences, Department of Atomic Energy and Atomic Energy Regulatory Board, Govt. of India at Jamal Mohamed College, Tiruchirappalli during February, 8 - 9, 2001.
3. Participated in the **“National Workshop on Radiochemistry and Application of Radioisotopes “**, sponsored by board of research in nuclear sciences ,DAE .held at St.Joshope College Tiruchirappalli during March 29 – April 7 , 2001.
4. Participated in one day workshop on **“Earth quake hazard awarness”** conducted by Department of Geology, Bharathidasan University, at Bharathidasan University, Tiruchirappalli on 24th November 2001.
5. Participated in state level U.G.C sponsored seminar on **“water pollution and public health”** conducted by Department of Botany, H.H. Raja’s college, Pudukkottai 14th and 15th , December 2001.
6. Participated in the **National Symposium on Thermal Ecology**, sponsored by the Board of Research in Nuclear sciences, Department of Atomic Energy, Mumbai, at Sri Paramakalyani Centre for Environmental Sciences, Manonmanium Sundaranar University, Tirunelveli during February 1-2, 2002.

7. Participated in the **National Seminar on Coastal Environment**, sponsored by the University Grants Commission, New Delhi at Department of Geology, National College, Tiruchirappalli during February, 15 - 16, 2002.
8. Participated and presented a paper in the **National conference on Radiation Exposure control at Nuclear Fuel cycle Facilities Radiation Installations**. Organized by Indian Association for Radiation Protection (Kalpakkam chapter), in Kalpakkam (IGCAR) during March 5-7 , 2003
9. Participated in the UGC sponsored workshop on “**Electrophoretic and Immunological Techniques** ” from 2-12th June 2004 organised by P.G. Department of Zoology, Jamal Mohamed College, Tiruchirppalli.
10. Participated in the AICTE sponsored one day workshop on “ **Environment and pollution awarness** conducted by Shri Angalamman College of Engineering and Technology Siruganoor , Tiruchirappalli on 10th July 2004.
11. Participated and presented a paper in the **Fourteenth National Symposium on Environment (NSE-14)** Organized by Department of Physics, Osmania University, Hyderabad and Health, Saftey & Environment Group, Bhabha Atomic Research Centre, Mumbai at Osmania University, Hyderabad, during June 5-7, 2005
12. Participated and presented a paper in the **National Seminar On Atomic Energy, Environment and Human Welfare** Organized by Environmental Research Centre, P.R.Engineering College, Thanjavur sponsored by Atomic Energy Regulatory Board, Board of Research in Nuclear Sciences, Dept. of Atomic Energy, Mumbai during August 25-26, 2005.
13. Participated in the one day state level seminar on **Recent trends in microbiology** organized by Kurinji College of Atrs and Science, Tiruchirappalli during 3rd February 2006.
14. Participated in the UGC-SOSIP sponsored “**one day seminar on biotechnology and bioinformatics** conducted by Rajah Serfoji Government College , Thanjavur on 10th feb 2006
15. Participated in the **National on human perspectives of Biotechnology**, conducted by Mahendra Arts and science college, Kalippatti, Namakkal during February 11-12, 2006.
16. Participated in Three days workshop on “**Curriculum Development and Evaluation**” organized by UGC-Academic staff college Bharathidasan University conducted by Jamal Mohamed College during 2-4 March 2006.
17. Participated in the **Traning programme in application of GIS and RS in environmental management** , sponsored by ISRO-NNRMS and conducted Bharathiar University Department of Environmental Sciences Coimbatore during 20th June - 3rd July 2006.

18. Participated in the National Seminar on "**Environmental Biosensor**"- 2007 Loyola Institute of Frontier Energy(Life), Loyola College, Chennai- 600 034. Loyola College, Chennai- 600 034. 11 and 12 January 2007.
19. Participated in the One day workshop on "**Environmental Laws**" -2008 C.P.R.Environmental Education Centre Jamal Mohamed College- (Autonomous) Tiruchirappalli, 29-02-2008.
20. Participated in the The National Symposium on '**Challenging Aspects in Environmental & Molecular Biotechnology**'- BIO 'X' POSE '08 Pavendar Bharathidasan College of Arts & Science, Tiruchirappalli. -620 024, 08 February 2008.
21. Participated in the **Workshop on Promotion of Research and Faculty development in Technical Institutions (WPRFD-2008)** Anna University- Tiruchirappalli Catalized by Tamilnadu State Council for Science and Technology, Chennai. Environmental Research Centre and Entrepreneurship Development Cell, J.J. College of Engineering and Technology, Tiruchirappalli. 07 February 2008.
22. Participated in the International Conference on "**Peaceful Uses of Atomic Energy**"-2009 Department of Atomic Energy, India, International Atomic Energy Agency and India Nuclear Society. Vigyan Bhavan, New Delhi. September 29- October 1, 2009.
23. **IWWA- Chennai Water Convention 2011"** Indian Water Association (IWWA) Mumbai First Regional Awareness Conference at Tiruchirappalli. 17.07.2010.
24. Participated in the National level seminar- "**Quality enhancement in teaching, Research and Extension in higher education institutions- Prospects and Problems**"-2010 Jamal Mohamed College-(Autonomous), Tiruchirappalli-20 April 15 & 16, 2010.
25. Participated in the State Level Seminar on "**Examination Reforms**"- 2010 University Grants Commission, New Delhi Jamal Mohamed College- (Autonomous) Tiruchirappalli-20. March 12, 2010.
26. Participated in the One day workshop on "**Environmental Laws**" -2010 C.P.R. Environmental Education Centre , Jamal Mohamed College- (Autonomous) Tiruchirappalli -20. 16 February, 2010.
27. Participated in the "**Three day workshop on Training of Placement officers**"- 2010 Jamal Mohamed College-(Autonomous), Tiruchirappalli-20 , Guidance, Counseling and UGC Coaching centre. 1 to 3 February 2010.

28. Participated in the Seminar on **“Creating Competitiveness to excel in higher education- a TQM approach”-2010** Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli-20. 8 December 2010.
29. Participated in the National Seminar on **“Current Scenario in Environmental Biotechnology” (ENVIBIO-2011)** Department of Zoology, Jamal Mohamed College, Tiruchirappalli-20. 23 & 24, February, 2011.
30. Participated in the **“Recent Advances in Molecular Biology Techniques”- 2011** Bharathidasan University, Tiruchirappalli-620 024. Microbial Biotechnology Laboratory, Department of Marine Biotechnology, Bharathidasan University, Tiruchirappalli. 12 September 2011.
31. Participated in the **35th Annual Conference of Ethological Society of India (ACESI-2011) & Symposium on Chemical Signals in Animal Welfare (CSAW-2011)** CSIR, UGC, Bharathidasan University & Ethological Society of India. Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli 15 and 16 December, 2011.
32. Participated in the **National Seminar on Environmental changes and Biowealth - (NECB-2012)**, P.G. Department of Zoology, Jamal Mohamed College, Trichy 31-1-2012.
33. Participated in the **Workshop on Techniques in collection and Rearing of Biocontrol Insects (WOCRBI-2012)** P.G. Department of Zoology, Jamal Mohamed College, Trichy on 1-2-2012.
34. Participated in the **3rd International Conference on Sediment Management - 12SM-2012** Association of Environmental Analytical Chemistry of India, BARC, Mumbai, Parakruti Resorts Ltd., Alibaugh, Mumbai 20-3-2012 to 23-3-2012.
35. Participated in the VI Academic Conference on **“Crises in higher education- An Indian perspective”- 2013** Aided College Teacher’s Association- (ACTA) Tamilnadu. Jamal Mohamed College, Tiruchirappalli, 06 April 2013.

A.SADIQ BUKHARI