

DR. SISTER M. STUTI A.C.

Assistant Professor

Department of Zoology
Patna Women's College
Patna University, Patna

CAREER

- 2006- Present **Assistant Professor, Department of Zoology, Patna Women's College, Patna University.**
- 2016- Present **Member of Organizing Committee of Bihar Vigyan Congress 2017**

EDUCATION

- 2009 – 2012 **Ph.D.** 'Effects of food Additive Potassium Bromate on the Kidney and Haematological Parameters in Swiss Albino Mice'
- 2003 – 2005 **M.Sc. Zoology** (First class First), Vinobha Bhave University, Jharkhand, India
- 1997 – 1999 **B.Sc. in Zoology** (First class First), Patna University, Patna, India

Dr. Sister M. Stuti A.C is Assistant Professor in Zoology, and Director of the Central Research Laboratory, Patna Women's College, Patna University .She has her Doctoral degree in Ecotoxicology. Her expertise is Vermitechnology, Ecotoxicology and Entomology. She undertakes several small projects every year and has guided more than 20 batches of students under the CPE and BSR schemes of UGC .She has presented several research papers at National and International Seminars. She is in charge of the Science Departments of the College .She also in charge of the Apiary and the Genetic Nursery established in Patna Women's College.

RESEARCH FUNDING AND AWARDS

- 'College with Potential for Excellence' (CPE) funded by UGC
- Basic Scientific Research (BSR) Scheme funded by UGC

RESEARCH INTEREST

- Ecotoxicology, Vermitechnology, Economic Zoology, Development of Genetic Nursery

PAPERS PUBLISHED

- **Sister M.Stuti A.C (2018).** An impact of ICT in Secondary School Students of Patna District IJARS Journal of Humanities and Social Studies Volume IV Issue I (Jan /Feb)

- **Sister M.Stuti A.C (2017). Title of the book-Development and Management of Urban Infrastructure in India, ISBN-978-93-83684-38-0,Section-I Chapter 6**
Topic-Management of Urban Domestic Waste through Vermicomposting and vermifiltration
Year-2017,Published by-Sanjay Gupta,Publication-Rajesh Publication
- **Sister M. Stuti A.C and Joyita Das (2017).** Sustainable Management of solid waste for A greener earth. IJRETS – international journal of research in Engineering, Technology and Science volume VII, Special Issue..
- **Dr. Sister M. Stuti A.C and Dr. Sister Doris D'souza A.C. (2013).** Effects of Potassium Bromate on the kidney and haematological parameters of swiss Albino (Supplement on Toxicology) The Bioscan an International Quarterly journal of life science supplement on Toxicology) 1011 – 1014 .
- **Yasmin .S, Das J, Stuti M, D'souza (2011).** Sub Chronic Toxicity of Arsenic Trioxide on Swiss Albino Mice Int J. Environ Sci. 1(7) 1640-1647.

Explore and IRIS

- **Dr Stuti M, Sonam Rani,Amrita Kumari (2019).** Fauna Diversity Of Zooplankton Of Various Ponds Of Patna,Explore Vol. XI pp. **ISSN 2278-0297 (Print) ISSN 2278-6414 (Online).**
- Dr. Sister M. Stuti A.C, Sristi Sonam ,Sweta Kumari ,Shabistan Jabin (2019)**
Assessment of Groundwater quality and its vermifiltration of Slum Area- Adalatganj ,Patna, Bihar . Analysis of the Physiochemical parameters of the River Ganges at different Ghats in Patna, Bihar, *IRIS*, Vol. IX, pp. . **ISSN 2278 – 618X (Print) ISSN 2278 – 6384 (Online).**
- Dr. Sister M. Stuti A.C, Tasneem, Nandini, Diksha Bhanu (2018).** Bioremediation of Iron-spiked water by earthworm *Eisenia fetida*, *Explore*, Vol. X, pp.1-7. **ISSN 2278-0297 (Print) ISSN 2278-6414 (Online)**
- **Dr. Sister M. Stuti A.C, Kriti, Sr. Nivedita, Pallavi (2018).** Analysis of the Physiochemical parameters of the River Ganges at different Ghats in Patna, Bihar, *IRIS*, Vol. VIII, pp. 13-20. **ISSN 2278 – 618X (Print) ISSN 2278 – 6384 (Online).**

- **Dr. Sister M. Stuti A.C, Awantika, Akanksha, Sadiya Zeb (2017).** Municipal Solid Waste Management and Vermiremediation using *Eudrilus eugeniae* and *Eisenia fetida*, *Explore*, Vol. IX, pp.1-7.
- **Dr. Sister M. Stuti A.C, Snigdha Krishna, Suruchi (2017).** Evaluation of the larvicidal Effect of Coelomic fluid on *Eudrilus eugeniae* on *Aedes* Larvae, *IRIS*, Vol. VII, pp. 19-25.
- **Dr. Sister M. Stuti A.C, Neha Singh, Noopur Kumari, Simran Kumari (2016).** Biological Response of Earthworm, *Eisenia fetida* to the insecticide, Coragen, *Explore*, Vol. VIII, pp. 1-5.
- **Dr. Sister M. Stuti A.C, Shilpi Toppo, Bharti, Nutan Jyoti (2016).** Treatment of Wastewater of Domestic and Dairy Industry using various Eco-friendly methods, *IRIS*, Vol. VI, pp.15-19.
- **Dr. Sister M. Stuti A.C, Roshni Pathak, Jyoti, Shubam Singh, (2015).** Comparative Study of Vermicompost and Vermiwash of *Eisenia fetida* and *Perionyx excavatus* and their Effect on Growth and yield of Okra (*Abelmoschus esculentus*), *Explore*, Vol. VII, pp. 1-6.
- **Dr. Sister M. Stuti A.C, Nisha Kumari, Rosa Murmu (2015).** Influence of different media and temperature on growth and reproduction of composting earthworms, *Eisenia fetida* and *Eudrilus eugeniae*, *IRIS*, Vol. V, pp.12-18.
- **Dr. Sister M. Stuti A.C., Vijya Laxmi, Kumari Varsha, Nandini Kumari (2014).** Chemical Nutrient Analysis of different Vermicompost and their Effect on the Growth of *Zea Mays*, *Explore*, Vol.VI, pp. 9-11.
- **Dr. Sister M. Stuti A.C. (2013).** Effect of Potassium Bromate on the Liver of Swiss Albino Mice (2013), *Explore*, Vol. V, pp. 12-16.
- **Dr. Sister M. Stuti A.C. (2013).** Effect of Potassium Bromate on Thyroid of Swiss Albino Mice, *IRIS*, Vol. III, pp.11-14.

Seminar / Conference / Workshop / Symposium attended

1. National Symposium on “Impact of Environmental Pollutants on Health and fertility”. **Organized by** IEPHF-2010
Date: 13th march.
Place: Mahavir Cancer Sansthan, Patna
2. Workshop on INFLIBNET: Awareness workshop for college of Bihar
Organized by: Department of Computer Science
Date: 18th February, 2011
Place: Patna Women’s College
3. GENOMICS 2012- National Seminar on ‘New frontiers in Environmental Polluted, Health & Application of molecule genetics.
Organized by: Mahavir Cancer Research Centre
Sponsored by: DST, Govt. of India, New Delhi
Date: 21st & 22nd January, 2012
Place: Mahavir Cancer Sansthan, Patna
4. National Seminar on Urban Poverty: Issues and Challenges- National Seminar.
Organized by: Department of Geography
Sponsored by: UGC
Date: 24th & 25th January, 2012
Place: Patna Women’s College
5. National Seminar on Educational Technology in teaching and learning prospects
Organized by: Department of Education
Date: 3rd March, 2012
Place: Patna Women’s College
6. National Seminar on ‘Ethics in Animal Experiments, Statutory and Technical Requirements.’
Organized by: CPCSEA and Life Science Intelligentsia
Date: 11th May, 2012
Place: Hotel Chanakya, Patna
7. Training of Trainers (TOT) Programme on MSW and Plastic Waste Management
Organized by: Bihar State Pollution Control Board and EPTRI, Hyderabad (Andhra Pradesh)
Date: 26th & 27th July, 2012
Place: Beltron Bhawan, Patna
8. National Seminar on “Academic Leadership For Heads Of Departments”
Organized by: Centre of Education Beyond Curriculum (CEDBEC)
Date: 26th & 28th September, 2012
Place: Christ University, Bengaluru

9. Workshop on 'CONNECT' Emotional Intelligence, Stress Management, Motivation, Winning Negotiation and Teaching Ethics.

Organized by: SOCIATRIX Consultancy Service Pvt. Ltd., Patna.

Date: 3rd to 8th October, 2012

Place: Patna Women's College

10. National Workshop on 'Institutional Healthy Practices: Opportunities and Strategies.

Organized by: IQAC, Patna Women's College

Sponsored by: NAAC

Date: 20th February 2013

Place: Patna Women's College

11. State Level Workshop on 'Community College'

Organized by: Patna Women's College

Sponsored by: Department of Education, Govt. of Bihar

Date: 13th April, 2013

Place: Patna Women's College

12. Training Programme for Ph.D. in some advanced techniques in Histopathology, Hematology & Biochemistry.

Topic: 'Effects of Potassium Bromate a Food Additive on Haematological parameter and Kidney Tissue of Swiss Albino Mice.

Organized by: Mahavir Cancer Research Centre, Patna

Date: March-2013 to June-2013

Place: Mahavir Cancer Sansthan

13. Training Programme on 'Biochemic Medicine in Homeopathy'

Organized by: Alternative System of Medicine

Date: 17th November, 2013

Place: Kurji Holy Family Hospital, Patna

14. Workshop on Awareness of National Mission on Education Technology through ICT (NMEICT)

Organized by: NIIT Patna & Patna Women's College

Date: 17th & 18th January, 2014

Place: Patna Women's College

15. National Seminar on 'Water Management in the Service of Mankind'.

Organized by: Jagannath Jain College, Jhumritelaiya (Jharkhand)

Date: 18th & 19th February, 2014

Place: J.J. College, Jhumritelaiya, Vinoba Bhave University (Jharkhand)

16. National 79th Orientation Programme

Organized by: UGC-Academic Staff College, Ranchi University

Sponsored by: UGC

Date: 24th & 25th January, 2012

Place: Ranchi University, Ranchi (Jharkhand)

17. National Seminar on ICT and Women Empowerment

Organized by: Department of Computer Science

Date: 22nd January, 2015

Place: Patna Women's College

18. National Symposium on 'Role of Molecular Diagnostics in Cancer Treatment'.

Organized by: Mahavir Cancer Research Centre, Patna

Date: 12th March, 2015

Place: Mahavir Cancer Sansthan, Patna

19. National Seminar Cum Workshop on 'Transformational Teaching'

Organized by: St. Xavier's College, Digha, Patna

Date: 14th to 16th May, 2015

Place: St. Xavier's College, Digha, Patna

20. *National seminar*– **Seminar in Higher Education for Apostolic Carmel Congregation (ACC)**

Organized by Center for Education Beyond Curriculum(CEDBEC).Christ (Deemed to be University) Bangalore

Venue: Christ College Campus

Date: 24th-31st October

21. **UGC Sponsored Refresher Course- Disaster Management**

Organized by: Jawaharlal Nehru University

Venue:HRDC JNU

Date: 17th -21st 2018

Place: JNU, New Delhi

Papers Presented

1. National Seminar on 'Chemistry is Life'

Topic: Health Risk Assessment of Portable Water Disinfectants Calcium Hypochlorite and Sodium Hypochlorite on the Kidney on Swiss Albino Mice.

Organized by: Department of Chemistry & Sri Krishna Science Centre, Patna

Date: 23rd & 24th February, 2012

Place: Magadh Mahila College, Patna

2. International Conference on 'Anthropogenic Impact on Environment and Conservation Strategy

Topic: Effect of Potassium Bromate on the Kidney and Haematological Parameters in Swiss Albino Mice

Organized by: Department of Zoology, Ranchi University & St. Xavier's College, Ranchi

Date: 2nd – 4th November, 2012

Place: St. Xavier's College Ranchi University, Ranchi (Jharkhand)

3. Workshop on 'Issues in Solid Waste Management'
Topic: Comparative Effect of Vermicompost and Vermiwash on the growth of Okra.
Organized by: Centre for Energy and Environment, IIT Patna
Date: 11th October, 2014
Place: IIT, Patna

 4. National Seminar on 'Bioscience for the Welfare of Mankind'
Topic: Pesticide Induced Toxicity on Earthworms and Effective Soil Management through Vermicomposting
Organized by: Department of Zoology, Patna University
Date: 14th & 15th March, 2015
Place: Patna University, Patna

 - 5 National Seminar on 'Teaching Strategies to Enhance Innovative Learning Process'
Topic: 'Scientific Research and its Role in Effectively Enhancing Teaching Learning Process'
Organized by: IQAC, Loyola College of Education, Jamshedpur (Jharkhand)
Date: 27th & 28th March, 2015
Place: XLRI, Jamshedpur (Jharkhand)

 - 6 National Seminar on 'Knowledge Society for Sustainable Development'
Topic: Nurturing Nature through Genetic Nursery
Organized by: St. Xavier's College, Digha, Patna
Date: 11th & 12th April, 2015
Place: St. Xavier's College, Digha, Patna

 7. National Seminar on 'Sustainable Solution to Waste Water and Solid Waste Management'
Topic: Sustainable Management for Kitchen Waste through Vermicomposting
Organized by: Department of Environmental Science , A.N. College, Patna
Date: 8th & 9th May, 2015
Place: A.N. College, Patna
-
- *National seminar on – Knowledge society for sustainable development*
Organized by St. Xavier's College, Patna
Venue: St. Xavier's College, Patna
Date: **11th -12th April 2015**
Paper Presented
Topic: **Nurturing Nature through Genetic Nursery**

 - *National seminar on – Sustainable Solution to wastewater and solid waste management*
Organized by Dept. of Environmental Science

Venue: A.N. College, Patna

Date: **8th to 9th May 2015**

Paper Presented

Topic: **Sustainable Management of Kitchen Waste through Vermicomposting**

➤ *Teacher's Orientation*

Resource Person – Father George Nedumattam

Organized by Patna Women's College

Venue: Patna Women's College

Date: 21st August 2015

➤ *National seminar on – Environmental Pollutants: Safety measures and management*

Organized by Dept. of Chemistry M.M.C in collaboration with P.G. Environmental Sc. Dept. A.N. College, Patna

Venue: Magadh Mahila College, P.U Patna

Date: **5th -6th December 2015**

Paper Presented

Topic: **Pesticides as Biopollutant and Sustainable Management of Soil through Vermicomposting**

Awarded Best Poster Presentation

➤ *National seminar UGC Sponsored – Development and Management of URBAN INFRASTRUCTURE in India: Growth, Constraints and Prospects*

Organized by Dept. of Geography in Collaboration with the deptt of Geography Kissan College, Sohsarai, M.U

Venue: Patna Women's College

Date: **18th -19th January 2016**

Paper Presented

Topic: **Management of Urban Domestic Waste through Vermicomposting and Vermifiltration.**

➤ *1st International Conference on Human Implications of Biotechnology (ICHIB-2016)*

Organized by Centre for Biological Sciences, Central University of South Bihar, Patna in Collaboration with Central University of Jharkhand

Venue: Central University of south Bihar, Patna

Date: **12th -14th February 2016**

Attended

➤ *UGC- Sponsored Refresher Course in – LIFE SCIENCE (Botany and Zoology)*

Organized by UGC-Human Resource Development Centre Ranchi University, Ranchi

Venue: UGC-Human Resource Development Centre Ranchi University, Ranchi

Date: **4th -24th March 2016**

Grade: 'A'

- *Faculty development Programme: **Self-Transformation for personal effectiveness –Resource person- Mr.Stan Lobo.***

Organized by –St Xaveir’s College, Digha Patna

*Date: **24th-28th May 2016***

Resource Person-Mr.Stan Lo

- *1st International Workshop on “**Bio-entrepreneurship and Bio-enterprise Creation**”*

Organized by National Academy of Sciences, India Biotech Consortium Indian Limited, New Delhi.

Venue: Biotech Park, Lucknow.

*Date: **16th -17th September 2016***

Attended

- *National seminar UGC Sponsored – **Chemical Pollutants: Effect on Environment on Health***

Organized by Dept. of Chemistry PWC in Collaboration with the dept of Chemistry P.G. M.M. College, P.U Patna

Venue: Patna Women’s College

*Date: **9th -10th December 2016***

Paper Presented

*Topic: **Pesticides as Environmental Pollutants and the use of Vermicompost as a Safety Measure.** Rapporteur in Inaugural Session Chaired Technical Session II B.*

- *National seminar UGC Sponsored – **Management of the Environment Pollution in Context to the Growing Industries (MEPCGI-2017)***

Organized by Deptt. Of Botany, St. Xavier’s College, Ranchi, in association with International Foundation for Environment and Ecology, Kolkata, in Collaboration with Confederation of Indian University, New Delhi.

Venue: RVS College of Engineering and Technology, Jamshedpur, Jharkhand

*Date: **10th -11th February 2017***

Paper Presented

*Topic: **Sustainable Management of Solid waste for a Greener Earth.***

- *International Conference on **Environment and Ecology ICEE 2017***

Organized by Deptt. Of Science and Humanities RVSCET, Jamshedpur

Venue: St. Xavier’s College, Ranchi

*Date: **27th -29th March 2017***

Paper Presented

*Topic: **Oral of ETF a student Body in Bioremediation of Solid Waste and Water Contaminant through Vermitechnology***

*Awarded **Best Oral Presentation***

- **National Seminar on Sarve Bhavantu Sukhinah: Revisiting Paradigms of Wellness. An Inter-disciplinary Perspective.**

Organized by St. Xavier's College, Patna

Venue: St. Xavier's College of Management and Technology, Patna

Date: **8th -9th April 2017**

Paper Presented

Topic: **From Inorganic to Organic Farming through Vermicomposting: A Step towards a Greener Life**

- National seminar– Seminar in Higher Education for Apostolic Carmel Congregation (ACC)*

Organized by Center for Education Beyond Curriculum(CEDBEC).Christ (Deemed to be University) Bangalore

Venue: Chist College Campus

Date: **24th-31st October**

- **National Seminar-New Horizons of Biological Sciences: Advantages and Challenges**

Organized by Deptt. Of Botany and IMB Patna Women's College

Date: **27th and 28th November**

Paper Presented

Topic: **Efficacy of Biofertilizers in the Growth of Cereals and Biocontrol in its Storage**

- **National Seminar- The Indian Science Congress Association**

Organized by Deptt. Of Botany and IMB Patna Women's College

*Venue;*Indira Gandhi Planetarium,Patna

Date: **10th December**

Paper Presented

Topic: **Improving water quality of Contaminated water through Vermifiltration technique in Adalatgang Area,Patna**