



St. Xavier's College

Dr. Camil Bulcke Path, Ranchi

Faculty Profile

Name of Faculty Member	:	Dr. Ritesh Kumar Shukla
Gender	:	Male
Email ID	:	riteshshukla@sxcran.org
Name of Department	:	Department of Zoology
Designation	:	Assistant Professor
Level of Teaching	:	Undergraduate and Postgraduate
Academic Qualification	:	M.Sc., Ph.D.
Total Teaching Experience	:	22 Years and 05 Months
UGC NET/SET Qualified	:	Yes

Research Papers Published:

- 1) Gautam LK, **Shukla RK** (2024), Promising mRNA vaccine technology in combating infectious disease: a boon to futuristic game changer in medical science, The Applied Biology & Chemistry Journal, Vol- 5(I): Pg. 1-3, eISSN: 2582-8789, <https://doi.org/10.52679/tabcj.2024.0001>
- 2) Dr. Shiv Shankar Prasad, **Dr. Ritesh Kr. Shukla** et.al. (23. 07.2023), Published a paper entitle "***Paenibacillus dendritiformis* strain SXCR2 16S ribosomal RNA gene, partial sequence**" on National Library of Medicine at National Centre for Biotechnology Information (NCBI, USA). Accession No. OR346237 (GenBank) (ncbi.nlm.nih.gov).
- 3) **Shukla Ritesh Kumar**, Rao NVA (2021), **CRISPR technology a silver lining in combating COVID-19 pandemic. *T Appl Biol Chem J*; 2(1):18-21.**
- 4) **Shukla Ritesh Kumar**, Rao NVA (2020), **Immunohistochemistry is an important tool for exploring the insights of various aspects of gastro-intestinal tract. *T Appl Biol Chem J*; 1(2):72-82.** <https://doi.org/10.52679/tabcj.2020.0009>
- 5) **Ritesh Kumar Shukla**, B. Chakraborty, NVA Rao and MF Ahmad (2015) "**Immunohistochemical Localization of Gastrin Cells (G-Cells) in the**

Alimentary Canal of a Skipper Frog, *Euphlyctis cyanophlyctis*, Schiedner, (Anura; Ranidae)". Proc Zool Soc.Springer. 68(1):45-51. DOI [10.1007/s12595-013-0092-1](https://doi.org/10.1007/s12595-013-0092-1)

- 6) NVA Rao and **Ritesh Kumar Shukla** (2014) "**Occurrence of Cannibalism in adult *Euphlyctis cyanophlyctis* (Anura; ranidae): Is it induced or Opportunistic?**". **International Research Journal of Natural and Applied Sciences (IRJNAS)**. Volume-1, Issue-6 ISSN: (2349-4077) Page 186-190. Website: www.aarf.asia. Email: editoraarf@gmail.com, editor@aarf.asia
- 7) NVA Rao and **Ritesh Kumar Shukla** (2013) "**Distribution of Gastrin Immune Reactive Cells in the Alimentary Canal of a Stomachless Hill Stream Loach, *Lepidocephalus guntea* (Hamilton): An Immuno-Histochemical study**". **Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. Springer. 83(4):603–607.** <http://dx.doi.org/10.1007/s40011-013-0163-0>
- 8) **Ritesh Kumar Shukla** and NVA Rao (2012) "**A comparative study of cryo and paraffin sections in localizing Gastrin cells (G-cells) in the stomach of *Rana cyanophlyctis* (Schneider) using immunocytochemical technique**". **The Bioscan. 7(1):149-152.**
- 9) NVA Rao, B. Chakraborty, **Ritesh Kumar Shukla** and PJ Rao (2012) "**Synthetic Glucocorticoid Dexamethasone alters the blood parameters in Albino rats: An evidence of the suppression of adaptive immunity**". **Columban J. Life Sciences. 13 (1&2):43-46.**
- 10) **Ritesh Kumar Shukla** and NVA Rao (2009) "**Effect of synthetic progesterone (depo-medroxy progesterone acetate) on blood calcium level in Guineapigs**". **Trans Zool. Soc. East. India. 13(1&2):93-99.**

Participation in UGC-HRDC Course/FDP/OC/RC:

- 1) National Training Programme on "**Freshwater Pearl Farming for Entrepreneurship Development- 1st Batch**", Organized by ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar during 13-17 September, 2022.
- 2) Virtual Training on "**Freshwater Pearl Culture**", Organized by ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar during 1-3 December, 2021.
- 3) One Week Faculty Development Program (FDP) Webinar On "**Digital Skills for Smart Teaching**", Organized by IQAC Don Bosco College, Maram- Manipur University, Manipur from 14th to 19th June 2021. Marks Obtained: 94%

- 4) One Week National Level Online Workshop on "**E-Content Development**", Organized by St. Ann's College, Bodoland University, Kokrajhar, Assam from 7th to 12th June 2021. Marks Obtained: 94%
- 5) National Level Short Term Course on "**Graphics Design for Teachers**", Organized by: St. Mary's College, Thoothukudi, Tamil Nadu from 26th to 31st May 2021. Sponsored by: Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India. Marks Obtained: 87%
- 6) UGC-CPE sponsored Online 'Faculty Enrichment Programme' on "**COVID-19 & Life Beyond: Challenges and Issues**", Organized by IQAC Nirmala College, Ranchi University, Ranchi from 10th to 12th July 2020.
- 7) Online Faculty Development Program (FDP) on "**Yoga for Well Being and Life Skills Development**" from 21st to 25th June 2020, Organized by: Mahatma Gandhi Central University Bihar and Ranchi University, Ranchi.
- 8) Two-week "Faculty Development Program (FDP)" on **HTML and Exp EYES software, Spoken Tutorial**, on 14th May to 27th May, 2020. Organized by: Department of Physics of S.V.P. College, Bhabhua, Bihar and IIT- Bombay.
- 9) UGC-Sponsored Refresher Course in "**Life Science**", from 29.09.2012 to 19.10.2012. Organized by: UGC-Academic Staff College, Ranchi University, Ranchi. Obtained Grade "A",
- 10) Workshop on "**Scientific Paper Writing**" from October 22-24, 2011. Organized by: The National Academy of Sciences (NASI), Allahabad, India.
- 11) UGC-Sponsored Refresher Course in "**Life Science**" from 06.08.2010 to 26.08.2010, Organized by: UGC-Academic Staff College, Ranchi University, Ranchi. Obtained Grade "A"
- 12) UGC-Sponsored Refresher Course in "**Zoology**" from 05.07.2005 to 25.07.2005. Organized by: UGC-Academic Staff College, Ranchi University, Ranchi. Obtained Grade "A"
- 13) UGC-Sponsored Workshop in "**Practical Zoology**" from 18.05.2005 to 20.05.2005. Organized by: P.G. Department of Zoology, Ranchi University, Ranchi.
- 14) One-week Refresher Course on "**Bioinformatics**" from 30th August- 4th September 2004. Organized by: Department of Biotechnology, Birla Institute of Technology, Mesra, Ranchi.
- 15) Training Programme on "**Genetics and Molecular Biology Techniques**" from 15th to 21st July 2003. Organized by: Central Institute of Fisheries Education (CIFE) Deemed University, I.C.A.R. Versova, Mumbai, India.

- 16) UGC-Sponsored "**Orientation Programme**" from 03.05.2002 to 30.05.2002.
Organized by: UGC-Academic Staff College, Ranchi University, Ranchi,
Obtained Grade "A".

Paper Presented in Seminar/Conference (National/International):

- 1) **1st International Conference on Advances in Novel Materials: Towards Sustainable Future:** by Department of Physics, St. Xavier's College, Ranchi, Jharkhand from 20th-22nd January 2024, **Title:** Enhanced production of Exopolysaccharide by newly isolated microbes.
- 2) **International Conference on Environment, Aquaculture and Sustainable Agriculture, Organized: by** St. Xavier's College, Ranchi, Jharkhand and International Foundation for Environment and Ecology, Kolkata. Date: 22-23-24 September 2023, **Title:** Sustainable Uses of *Lamellidens marginalis* (Lamarck 1819): A Need of the Hour.
- 3) **Co-Presenter in Poster presentation, "Awarded Certificate of Appreciation": International Conference on Environment, Aquaculture and Sustainable Agriculture, Organized: by** St. Xavier's College, Ranchi, Jharkhand and International Foundation for Environment and Ecology, Kolkata. Date: 22-23-24 September 2023, **Title:** A Freshwater Ecosystem Engineer, *Lamellidens marginalis* (Lamarck 1819): It's Ecological Roles and Conservational Challenges
- 4) **Co-Presenter in Poster presentation: International Conference on Environment, Aquaculture and Sustainable Agriculture, Organized: by** St. Xavier's College, Ranchi, Jharkhand and International Foundation for Environment and Ecology, Kolkata. Date: 22-23-24 September 2023. **Title:** Freshwater Pearl Culture: A Blooming Sector in Aquaculture Practices in India.
- 5) **Co-Presenter in Poster presentation: International Conference on Environment, Aquaculture and Sustainable Agriculture, Organized: by** St. Xavier's College, Ranchi, Jharkhand and International Foundation for Environment and Ecology, Kolkata. Date: 22-23-24 September 2023, **Title:** Mussel feed Preparation: A Vital Step in Freshwater Pearl Culture technology.
- 6) **Co-Presenter in Poster presentation: International Conference on Environment, Aquaculture and Sustainable Agriculture, Organized: by** St. Xavier's College, Ranchi, Jharkhand and International Foundation for Environment and Ecology, Kolkata. Date: 22-23-24 September 2023, **Title:** Nucleus Implantation: A Vital Surgical Step in the Production of Cultured Pearls.

- 7) **Co-Presenter in Poster presentation: International Conference on Environment, Aquaculture and Sustainable Agriculture, Organized by** St. Xavier's College, Ranchi, Jharkhand and International Foundation for Environment and Ecology, Kolkata. Date: 22-23-24 September 2023, **Title:** *Lamellidens marginalis*: A Super Bio-filter of Freshwater Ecosystem.
- 8) **Two-Day National Conference (Multidisciplinary) & Symposium on Climate Change: Challenges and Opportunities, Organized by:** University Department of Zoology, Ranchi University, Ranchi on 25-26th May 2023, **Title:** Multidisciplinary Approach to Bloom the Sustainable Aquaculture Practice of Freshwater Pearl Culture for the Attainment of SDGs.
- 9) **An Interdisciplinary International Conference on Emerging Sustainable Technologies, Policies and Methodologies (IICESTPM-2023), Organized by:** Marwari College, Ranchi University Ranchi. 12-13 May, 2023, **Title:** Freshwater Pearl Culture Technology Using *Lamellidens marginalis*: A Silver lining for Achieving Sustainable Development.
- 10) **International Conference on Environment, Forestry and Sustainable Agriculture**
Organized: By International Academy of Science and Research and St. Xavier's College, Ranchi, Jharkhand Date: 14-15-16 November 2022, **Title:** "Freshwater Pearl Farming: An Emerging Trend in Sustainable Agricultural Practice".
- 11) **International e-Conference** on "Recent Advances in Life Sciences with Reference to Diseases, Disorders and Adaptations" from 26-27th July 2021. Organized by the University Department of Zoology, Lalit Narayan Mithila University, Darbhanga, Bihar, **Topic:** *Role of Immunohistochemistry in Providing Insights of 'Gut Health'*
- 12) **International Symposium** on "Advances in Comparative Endocrinology and Behavioral Ecology" from 1st-3rd July, 2021. Organized by the Department of Zoology, Savitribai Phule Pune University, Pune, **Topic:** *Study of gut endocrinocytes using immunohistochemistry: an innovative molecular tool.*
- 13) **National Webinar** on "Pandemic Covid -19: Reshaping Higher Education and Green-Industries" from 10th- 11th June 2020. Organized by Nirmala College, Ranchi University, Ranchi, **Topic:** *"Green industry: A silver lining for sustainable development in the Perspective of COVID-19".*
- 14) **International Conference** on "Advances in Environmental and Agricultural Biotechnology"-22nd-24th 2018, **Organized by:** St. Xavier's College, Ranchi and Indo Global chamber of Commerce, Industries and Agriculture, **Topic:**

Immunocytochemistry: An innovative tool for studying the behavior of entero-endocrinocytes. (Best Presentation Award in the oral session).

- 15) **International Symposium** on "Reproductive Biology and Comparative Endocrinology" February 25-27, 2015, **Organized by:** Department of Zoology, Centre of Advanced Study, **Banaras Hindu University (BHU)** Varanasi, India, **Topic:** *Occurrence of Gastrin immunoreactivity in the intestine of an agastric fish *Lepidocephalus guntea* (Hamilton); Cobitidae.*
- 16) **National Seminar** on "Urbanization and Changing State of Environment", Sept. 24-25, 2012. **Organized by:** **St. Xavier's College**, Ranchi and ICSSR, New Delhi, **Topic:** *Immunocytochemical localization of 'G' cells in the gut of a hill-stream fish in response to changing state of aquatic environment.*
- 17) **National Seminar** on 'Urbanization and Changing State of Environment", Sept. 24-25, 2012. **Organized by:** **St. Xavier's College**, Ranchi and ICSSR, New Delhi, **Topic:** *Temperature alteration induces change in Polytene Chromosomal Puffing pattern in Chironomous larva.*

Attended in Seminar/Conference (National/International):

- 1) International Conference on "**Advances in Environmental and Agricultural Biotechnology**", 22nd-24th Sep 2018, Organized by: St. Xavier's College, Ranchi University, Ranchi and Indo Global chamber of Commerce, Industries and Agriculture.
- 2) National Seminar cum Exposition on "**Modern Microscopes and Their Applications**" from April 8th-9th, 2010, Organized by: University Science Instrumentation Centre the University of Burdwan.
- 3) Conference on "**Endocrinology**", 2000, Organized by: Department of Zoology, St. Xavier's College, Ranchi University, Ranchi.
- 4) **National Webinar** on "Interface between Chemistry and Environment" on July 10, 2020, **Organized by:** Department of Chemistry, **Dr. Shyama Prasad Mukherjee University, Ranchi.**
- 5) **National Webinar** on "Role of Teacher & Students of Biotechnology in Developing Career & Research for Pandemic Management (COVID 19)" 8th July 2020, **Organized by:** Shri Cloth Market Institute of Professional Studies, Indore. (M.P.)

- 6) **International webinar** on "Role of Biotechnology and Bioinformatics during the era of COVID -19", 7th July 2020, **Organized by:** Hans Raj Mahila Mahavidyalaya, Jalandhar, Punjab.
- 7) **National Webinar** on "Energy and Environment problems facing the third world and their probable solutions for sustainable development and poverty alleviation", On 6th July 2020, **Organized by:** Sun Rise Academy, Alwar, Rajasthan.
- 8) **National Webinar** on "Geography in COVID and Post COVID India" July 3rd 2020 (4:00 PM). **Organized by:** Department of Geography, **St. Xavier's College**, Ranchi.
- 9) **National Webinar** on "Science & Technology for Sustainable Development in current scenario", on 3rd July, 2020. (10:00 AM), **Organized by:** Department of Physics, Institute of Higher Learning, BPSMV, Sonapat, Haryana.
- 10) **Webinar** on "Educational Transition during COVID-19 pandemic: Opportunities and Challenges of Online Education", 2nd July 2020. **Organized by:** **St. Xavier's College**, Ranchi.
- 11) **National Webinar** on "Science and Technology Scenario in India after COVID-19". On 23th June 2020, **Organized by:** SSNM Institute of Management and Technology, **Rani Durgavati Vishwavidyalaya**, Jabalpur, MP.
- 12) **National Webinar** on "Environment Impact Assessment with special reference to Water resource projects" on 22nd June 2020, **Organized by:** Department of Civil Engineering, Federal Institute of Science and Technology, Kerela.
- 13) **7 Days International Level Webinar Series** on "Yoga" titled "YOGA WEEK – India Fights Back Corona", 15-21st June 2020, **Organized by:** NSS Unit and Sports & Physical Education Department of Vedanta College, Vithalwadi, **(University of Mumbai)** and **Patanjali Yog Samiti**, Mumbai.
- 14) **International webinar** on "Origin of Universe: Scientific and Vedic Perspectives", 12th June 2020, **Organized by:** Physics Society, Bhaskaracharya College of Applied Sciences, **University of Delhi**.
- 15) **National Webinar** on "Pandemic COVID -19: Reshaping Higher Education and Green-Industries" from 10th- 11th June 2020, **Organized by:** Nirmala College, **Ranchi University**, Ranchi.
- 16) **International Virtual Conference** on "the People, Environment, Science and Pandemic", 5th -7th June 2020, **Organized by:** The Research Cell and the Department of Environmental Sciences, of Bhagini Nevidita College, **University of Delhi**.

- 17) **Indo-Iranian Webinar** on “Evolving Perspectives of COVID-19: Health and Global and Landscape”, 30th May 2020, **Organized by:** University Institute of Health Sciences, **CSJM University, Kanpur** and Swami Vivekanand Cultural Centre, Embassy of India, Tehran, Iran.
- 18) **International E-Quiz** on “*Van-Mahotsava-2020*”, **Organized by:** KLE Society's Science & Commerce College Kalamboli, Navi Mumbai, India.
- 19) **Online General Awareness Quiz** on 07th July -2020, **Organized by:** Seth R. C. S. Arts & Commerce College, **Hemchand Yadav Vishwavidyalaya** Durg (C.G)

Chapter(s) Contribution in Book:

- 1) Chapter 16, “**Green Industry: A silver lining for sustainable development, in the perspective of COVID-19 pandemic**”, By **Dr. Ritesh Kumar Shukla** and Ruchira Shukla. pp 149-154, Quam Vita Life Beyond, 2021, Disha International Publishing House. ASIN: B092STK39J

Experience of Ph, D, Guidance:

- 1) Research Scholar named Atiya Darakshan (CSIR-UGC NET-JRF) is registered under my supervision for Ph.D. degree on 22nd Dec 2023. Research Topic: **Immunohistochemical Mapping of CCK Immunoreactive Cells in Some of the Vital Organs of *Clarias batrachus*, a Freshwater Teleost.**
- 2) Research Scholar named Abhishek Kumar Pattak (CSIR-UGC NET-JRF) is registered under my supervision for Ph.D. degree on 4th Sep 2024. Research Topic: **Immunohistochemical Localisation of Ghrelin Immuno-Reactive Cells in Vital Organs of a Freshwater Teleost *Channa punctatus* (Bloch, 1973).**

Patent Awarded from The Patent Office, Govt. of India:

Date: 11-0-2023

Design Patent For: ANIMAL SHELL UPCYCLING MACHINE

Design Number: 39818-001

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|----------------------------|-----------------------------------|
| 1. Dr. Akalesh Kumar Verma | 2. Dr. Ritesh Kumar Shukla |
| 3. Dr. Sweta Singh | 4. Dr. Shiv Shankar Prasad |
| 5. Dr. Rezina Ahmed | |

Guest Lecture/Special Lecture Delivered:

- 1) **Delivered a Lecture Series as an Invited Subject expert in a training program on “Pearl Culture & Its Production”** at a Fish Farmer Training Centre, Ranchi, Directorate of Fisheries, Govt. of Jharkhand from 23.09.2024 to 27-09-2024.
- 2) **Delivered an Invited Lecture on “Freshwater Pearl Culture Technology”** in the department of Botany and Zoology, Kartik Oraon College, Gumla (Ranchi University, Ranchi) on 7th August 2023.
- 3) **Delivered an Invited Lecture on “Carrier Opportunities in Life Sciences”** for students of Botany and Zoology at RLSY College, Ranchi University Ranchi on 21st August 2023.
- 4) **Invited as Young Scientist Speaker to deliver a talk on “Freshwater pearl culture technology: a step towards sustainable development”** at International Conference on Entrepreneurship, Innovation and Research for Environmental Sustainability & Planetary Health 07-08th April, 2022, Organized by B. N. College, **University of Delhi**.
- 5) Invited as a Speaker to deliver a Plenary Lecture on the **Topic: ‘Immunohistochemical localization of some entero-endocrine cells in the gastro-intestinal tract of two anamniotes’** at the **Applied Biology Research and Innovation Conference, Dec 18 -20, 2021.** Organized by: **Indian Consortium for Research & Innovation in Biology (ICRB) and The Applied Biology & Chemistry Journal.**
- 6) **Invited as a Resource Person** to deliver a lecture in the Refresher Course in Life Sciences. **Organized for the college teachers, by UGC-Human Resource Development Centre, Ranchi University, Ranchi,** during 1st to 14th September 2020. Topic: **“Recombinant DNA Technology: Heart of Bio-techno Era”.**
- 7) **Invited as young scientist speaker** to deliver a talk in an International Virtual Conference on the People, Environment, Science and Pandemic, from 5-7th June 2020. **Organized by:** Department of Environmental Sciences, of B. N. College, **University of Delhi.** Topic: **“Use of Immunohistochemical technology and other molecular tools in revealing the pathogenesis of COVID-19 pandemic”.**
- 8) **Invited as a Resource Person** to deliver a lecture in the Refresher Course in Life Sciences. **Organized for the college teachers, by UGC-Human Resource Development Centre, Ranchi University, Ranchi,** in the month of August 2018. Topic: **“Metabolite binding Riboswitches: A Novel Discovery of the ancient most mechanism of Gene Regulation”.**

- 9) **Invited as a Resource Person** to deliver a lecture in the Refresher Course in Life Sciences. **Organized for the college teachers, by** UGC-Academic Staff College, **Ranchi University**, Ranchi, in the month of September 2013. Topic: **“DNA Dependent RNA Synthesis”**

Any Special Award/Achievement:

- 1) **Editor and Reviewer**, The Applied Biology & Chemistry Journal (TAB CJ), ISSN: 2582-8789 (online)
- 2) **Subject Expert and Member of Board of Studies**, Designed the Certificate Course in Pearl Culture in Jamshedpur Women's University, Jamshedpur.

[Dr. Ritesh Kumar Shukla]