

Curriculum Vitae



- Name** : Dr. Sonia Bajaj
- Present post** : Dean of life Science
Head, Department of Zoology
Shri Shankaracharya Mahavidyalaya
Junwani, Bhilai (C.G.), 490020
- Residential Address** : Q.No.4/C, K Pocket, Maroda Sector,
Bhilai Durg, Chhattisgarh
Pin- 490006
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Email - soniabajaj51@gmail.com
- Education**
- High School Certificate, MP Board of Secondary Education, Bhopal – 1992
 - Higher Secondary School Certificate, MP Board of Secondary Education, Bhopal – 1994
 - Bachelor of Science (Biology), Pt. Ravishankar Shukla University, Raipur – (C.G.) 1997.
 - Master of Science (Zoology), Pt. Ravishankar Shukla University, Raipur - (C.G.) 1999
 - Doctor of Philosophy (Life Science) Pt.Ravishankar Shukla University, Raipur (C.G.) 2003.
 - Title of the Thesis: “Limnological Studies of Seasonal Pond With Special Reference to Fish Culture in Adbandha Tank of Durg, District”.
- Teaching Experience** : 15 years
- Fields of Research Interest** : Limnology, Ichthyology & Biodiversity
- Research Project** : **Minor Research Project of UGC-** one completed (2011)
- Ph.D. Supervisor** : Hemchand Yadav University, Durg (C.G.)

Member of Professional Bodies

- Visited Govt. Chandulchandraker art and science college, Patan as one of team member in Inspection committee appointed by Hemchand Yadav Vishvdaalaya Durg 2020.
- Member of **Inter Disciplinary Journal** of engineering science “Society for ecological & environmental development (SSED) –Bhilai, India-2012
- **Associate Editor** in the Multi-disciplinary National Refereed Research Journal Latur (MS)-2011
- Member of **Editorial Board** –Institutional Animal Ethics Committee in Shri Shankaracharya Institute of Pharmaceutical Science (Junwani)-2010

Publications:

Research / Review Papers:

- Nisreen Hussain , **Sonia Bajaj** , Majid Ali & Touseef Hussain (2021) Entomological characterization of some of the Butterfly Species of Papilionidae from Baster Division of Chhattisgarh, India. *International Journal of Trend in Scientific Research and Development*, 5(4):1338-1343
- **Sonia Bajaj** (2017) Aquaculture of fresh water fishes in maroda pond with references to the economic value. *International Research Journal Flora and Fauna*, 23:15-16. {**NASS: 4.55**}
- **Sonia Bajaj** (2017) Effect of environmental factors on fish growth. *Indian Journal of Scientific Research* 12(2): 87-91
- Vikas Chandra Sharma & **Sonia Bajaj** (2017) Benefits of having canis lupus familiaris as a part of life over Indian sub-continent. *Indian Journal of Scientific Research* 12(2):143-144
- Rachana Choudhary & **Sonia Bajaj** (2015) Screening of antimicrobial activity of some medicinal plants. *Indian Journal of life Science* 5(1):117-120
- Sumona Chakraborty, Rachana Choudhary & **Sonia Bajaj** (2014) Antibiotic Sensitivity test on *E.coli* Isolates from different sources. *International journal of Science & Research*, 3:448-449
- Vikas Chandra Sharma, **Sonia Bajaj** & Bhavika Sharma (2014) Microwave mediated green synthesis of Silver nanoparticles by using Vincarosea & its application in water pollution control. *Indian Journal of Scientific Research*, 4(1):145-148
- **Sonia Bajaj & Rachana Choudhary** (2013) Aloe Vera: A Boon for Healthy body & Healthy Mind. *Social Science Reporter* 3(1):35-36
- **Sonia Bajaj** (2012) Ichthyodiversity of Fresh Water of Maroda Pond, Durg. *Inter Disciplinary Journal of Engineering Sciences*, 4:22-24
- **Sonia Bajaj** & Rachana Choudhary (2012) Assessment of physico-chemical and microbiological parameter of Maroda pond of Bhilai. *Journal of Eco-biotechnology*, 4(2):104-106
- **Sonia Bajaj** (2010) Water Quality Testing for Fish Cultural Activity pond of Durg. *Vishwabharati*, 1(3) : 359-360
- **Sonia Bajaj** (2010) Seasonal Changes of A biotic factors in the pond of Durg. *Science Research link-71*, VIII (12): 29-31

- **Sonia Bajaj** & Deepali Shukla (2009) Percentage composition of Planktons in Adbandha pond of Bhilai. *Life Science*, 6(3): 355-356
- **Sonia Bajaj**, B.N. Sharma & U.Sahu (2009) Limnological Studies of Seasonal pond with special reference to fish Culture in Adbandha pond of Durg. *Life Science Bulletin*, 6:(3)363-368

National / International – Seminar / Conferences / Symposia / Webinar- Presented & Participation

International conference on “Environmental issues and Sustainable Development “organized by Govt.V.Y.T.PG Autonomous college, Durg (Feb 02-03, 2023).

National webinar on “**Recombinants Technology**”, organized by Bhilai Mahila Mahavidyalaya Bhilai (June 20, 2022).

National webinar on “**Conservation of natural resources and sustainable development**”, organized by Govt. Digvijay Auto PG college Rajnandgaon (June 03-05, 2022)

National webinar on “**Discourse on Darwin**” organized by Department of zoology T.K.M. College of arts and science kollam and St. Thomas College Bhilai (Feb 12, 2022).

International e –conference on “Recent advance in biological science and opportunities in entrepreneurship”, organized by S.O.S Biotechnology & Pt.R.S.U, Raipur (Feb 07-08, 2022).

National webinar on “**Incorporating Human Values in Higher Education**” organized by Bhilai Institute of Technology (Dec.20-21, 2021)

National webinar on “**Advancing Science: The latest in Alzheimer’s Research &Health Approaches**”, organized by Rungta college of Science &Technology Bhilai (Sep.29, 2021)

National webinar on “**Fascinating World of Spiders**” organized by Govt.J.S.T.P.G.college, Balaghat (M.P.), (Sep. 25, 2021).

National webinar on “**Mahilaon ke kanooni adhikaravn jagrukta**”, organized by Govt. Digvijay Auto PG College Rajnandgaon, (Sep 23, 2021).

National webinar on “**Intellectual Property Rights**” organized by Shri Shankaracharya Mahavidyalaya Bhilai, (Sep.21, 2021).

International webinar on “Animal Diversity –Local to Global”, organized by Govt. N.P.G.college of Science, Raipur (C.G.) (June 14-16, 2021).

National webinar on “**Ecosystem Restoration**” organized by Govt.V.Y.T .P.G.autonomous College, Durg , (June 6-7 , 2021).

National webinar on “**Impact of COVID-19 on current status of Biodiversity and Environment**” organized by Govt. Nehru PG College, Dongargarh, Rajnandgaon (May28, 2021).

National webinar on “**Coping with COVID-19**” organized by Govt. Arts & Commerce Girls College, Raipur (May 22, 2021).

International webinar on “Recent, Advances in Science and Technology during the coronavirus pandemic” organized by Birla Institute of Technology, Mesra, and Ranchi, India (July 18-20, 2020).

International webinar on “Enhancing nitrogen fixing bio-fertilizer through diastrophic biofilms and synthetic biology” organized by Mandsaur university, Faculty of life science (July20, 2020).

National webinar on “**Biodiversity conservation and its management**”, organized by Govt. Girls PG college Ujjain, MP (July 15-16, 2020).

International webinar on “Exploring new possibilities during covid-19 crisis” organized by Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai (June 27th June, 2020).

International webinar on “Cybernetics in fitness with special reference to covid19 pandemic” organized by Shri Shankaracharya Mahavidyalaya, Junwani, and Bhilai (June 10th 2020).

International conference on “A New Micro biome Research Era for Human welfare &cure of infection Diseases” organized by Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai, (Feb. 28th-29th, 2020).

National webinar on Contribution of Chhattisgarh in “**Rastriya samarsata**” organized by Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai (Oct.29th, 2017).

National conference on “**Innovative Approaches in teaching, learning and Evaluation**” organized by Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai

National Seminar on “**Behavioral impact of animals and micro- organisms on human life and their environment**” organized by Govt .Dr.W.W. Patankar Girls P.G. College, Durg, (Feb 3rd-4th, 2017).

National conference on “**Tribal health and their nutritional status in Chhattisgarh –New Vistas**” organized by Govt. N.C.J.arts, science and commerce college, Dallirajhara, Balod, (Jan11th -12th, 2017).

National Seminar on “**Advance Technique in medical microbiology**” organized by Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai (Sep.08th -09th, 2016).

National Seminar on “**Medical plant research &its application in human health**” organized by BMM, Sector-9, Bhilai (Mar.2nd-3rd, 2015).

National conference on “**Integrative Genomics**” organized by Shri Shankaracharya Mahavidyalaya, Sector-6, Bhilai, (Feb 11th -12th, 2014).

National conference on “**Better Education through ICT technology**” organized by Shri Shankaracharya Mahavidyalaya, Sector-6, Bhilai, (Jan 15th -16th, 2014).

National Seminar on “**Conservation of economically important endangered plant species of C.G.**” organized by BMM, Sector-9, and Bhilai (Oct.25th -26th, 2013).

International conference on “Shaastraarth” organized by Rungta college of Engineering & Technology Bhilai, (Feb. 8th -9th, 2013).

National Seminar on “**Conservation of Bio resources**” organized by DBS College Gondia (M.H.), (Jan 27th, 2013).

National conference on “**Conservation of biodiversity in India, some issues**” organized by Girls College Devendra nagar, Raipur (Oct.16th-17, 2012).

National conference on “**Importance of medicinal plants in toxicology and reproductive endocrinology**” organized by BMM, Sector-9 Bhilai (Jan 20th-21th, 2012).

National conference on “**Bioresource-its implication, alteration and management for the welfare of living kingdom**” organized by Govt. V.Y.T .P.G.College, Durg (Oct.11th-12th, 2011).

National Seminar on “**Effect of pollution on global health**” organized by Shri Shankaracharya Mahavidyalaya, Sector-6, Bhilai, (Nov. 11th-12th, 2011).

National conference on “**Role of IQAC in Reaccreditation**” organized by Shri Shankaracharya Mahavidyalaya, Sector-6, Bhilai (Jan.14th-15th, 2011).

National Seminar on “**Recent trends in plant & microbial sciences**” Govt. V.Y.T .P.G.College, Durg, (Nov.26th-27th, 2011).

National conference on “**Climate change and its effect on biodiversity**” organized by BMM, Sector-9, and Bhilai (Feb. 5th-6th, 2011).

National Seminar on “**Issues & challenges of global warming in biotechnology**” organized by **RIT. Raipur** (Feb.15th, 2010).

National Seminar on “**Environmental science & its application towards water treatment**” organized by **BIT Durg** (July15th-16, 2010).

National Seminar on “**Citizen Empowerment through e-learning**” organized by Shri Shankaracharya Mahavidyalaya, Sector-6, and Bhilai (Jan.8th-9th, 2010).

2ndChhattisgarh young scientist congress “Limnological studies of seasonal pond with special reference to fish culture in adbandha pond of Durg” organized by GGU, Bilaspur (Feb. 28th-29th, 2004).

National Seminar on “**Science technology & water problems and solution for C.G.**” organized by Pt.RSU, Raipur (April29th-30th, 2002)

Workshop Participation

- National Workshop on Seven Criteria’s of “**New NAAC Accreditation frame work and awareness**” Organized by Govt. Digvijay Auto PG college, Rajnandgaon, (7th to15th June2022).
- National Workshop on “**Biodiversity & Conservation**” Govt. Dr.W.W.P.Girls PG College, Durg Chhattisgarh (15th to21st Nov.2021).
- National Workshop on Seven Criteria’s of “**New NAAC Accreditation Framework, Health Hygiene and Legal Awareness Program**” Organized by Hemchand Yadav Vishwavidyalaya Durg (7th May to 16th 2021).
- National Workshop on “**Intellectual Property Rights**” Organized by Govt. V.Y.T. PG. Autonomous College, Durg (03 to 09 May 2021).
- National Workshop on “**Trends in Solid Waste Management & Biology: Approaches to a Serene World**” organized by Shri Shankaracharya Mahavidyalaya Bhilai. (3rd to 9th Dec. 2019).
- National Workshop on “**Science and technology for harnessing natural resources forward sustainable development**” organized by Dr. Radhabai Govt Navin Kanya Mhavidyalaya, Raipur, C.G. (10th March 2018).
- National Workshop on “**Enzymology and its Applications (Isolation, Purification and Immobilization of Enzyme-Amylase and Lipase)**” organized by Bhilai Mahila Mahavidyalaya Bhilai (12-18 Jan.2018).
- National Workshop on “**Alternativas of disección and animales experimentación in Zoology**” organized by Mahila Mahavidyalaya Bhilai (27th Jan- 2nd -Feb2018).
- National Workshop on “**Isolation and identification of aero biomolecules**” Conducted by Bhilai Mahila Mahavidyalaya Bhilai (2-4 Nov. 2015.)
- National Workshop on “**Quality base education-Road map in Durg district**” Govt. VYT PG Science college Durg (25th June2015).
- National Workshop on “**Future Aspect: Forensic Science & Serology And Recent Advancement in Biological Science**” Conducted by Shri Shankaracharya Mahavidyalaya Bhilai.(16-17 Dec. 2013).
- National Workshop on “**Development of Healthy Education for Women in Society**” Conducted by Shri Shankaracharya Mahavidyalaya Bhilai.(14-15 Dec.2012)
- National Workshop on “**Science Art**” Conducted by Shri Shankaracharya Mahavidyalaya Bhilai.(26 Sep 2011)

- National Workshop on “**Research Methodology**” Conducted by Shri Shankaracharya Mahavidyalaya Bhilai (4th-6th March 2011).
- National Workshop on “**Aquatic Biodiversity**” Conducted by Shri Shankaracharya Mahavidyalaya Bhilai.(7 Jan. 2011)
- National Workshop on “**Enhancement of Technical Skills**” Conducted by Shri Shankaracharya Mahavidyalaya Bhilai.(22-23 Oct. 2010).
- National Workshop on “**Biotechnology & Bioinformatics**” Conducted by Disha Life Science Ahmadabad at Swami Swaroopanand Institute Bhilai.(22-24 Dec. 2009).
- National Workshop on “**Recombinant DNA Technology & Immunology**” Conducted by Bangalore genei at Shri Shankaracharya Mahavidyalaya Bhilai.(12-13 Jan 2008).

Contribution in Books

Published in Books

- Sushma Solanki & **Sonia Bajaj** (2018) “**Prayogik Chordata Jantu Vigyan B.Sc. -I**” Pt. **Sundarlal Sharma** (open) **University Chhattisgarh Bilaspur**, ISBN: (978-93-88407-49-6).
- **Sonia Bajaj** (2018) “**Prayogik Chordata Jantu Vigyan B.Sc.-II**” Pt. **Sundarlal Sharma** (open) **University Chhattisgarh Bilaspur**, ISBN: (978-93-88407-50-2).
- Akanksha Jain, **Sonia Bajaj**, Varsha Yadav, Sonal Khandelwal & Rachana Tiwari (2021) Textbook of Biotechnology, B.Sc. –I year, Probcell Press ISBN: (9788195354498). **Google Kindle Edition**
- Akanksha Jain, **Sonia Bajaj**, Sushma solanki , Shweta agniwanshi & Suchitra Panigrahy (2022) Textbook of Biotechnology, B.Sc. –II year, Probcell Press (ISBN: 9788195677054). **Google Kindle Edition**
- Akanksha Jain, **Sonia Bajaj**, Sushma solanki , Shweta agniwanshi, varshayadav & Rachana Tiwari (2022) Textbook of Biotechnology, B.Sc. –III year, Probcell Press (ISBN: 9788195677016). **Google Kindle Edition**

Translation in Books

- **Sonia Bajaj** (2021) “**Human Anatomy & Physiology**” Diploma in Pharmacy First Year, (ISBN: 978-81-953544-3-6). **Google Kindle Edition**
- **Sonia Bajaj** (2021) “**Pharmaceutical Chemistry**” Diploma in Pharmacy First Year, (ISBN: 978-81-953544-2-9). **Google Kindle Edition**

Chapters in Book

- Deepali Shukla & Sonia Bajaj (2011) “**Environmental Issue and Awareness for our Society**” “page97-100, ISBN: 978-81-87364-44-3, Environment protection.
- Sonia Bajaj & Rachana Tiwari (2022) “**Environmental Hazards and its impact on human health**” 155-163, ISBN: 978-81-959099-0-2, Perspective of Environmental Science (GAS).

- Sonia Bajaj & Rachana Tiwari (2023) "Therapeutic Nutrition in Different Health Condition" page 90-98, (ISBN:978-93-92108-27-3), Eat Right with Right to Eat.

Resource Person/Guest Lecture Delivered

- Guest Lecture on "Asteries- Water Vascular System" Govt. Dr. Babasaheb Bhimrao Ambedkar PG College, Dongargaon. 15 February 2023.
- Guest Lecture on "Anatomy & Physiology of ear" Sai Mahavidyalaya, 11 February 2023.
- National webinar on "New National Education Policy 2020", Department of Microbiology, Bharti Vishwavidyalaya, Durg, Chhattisgarh 16 August, 2022. **(Keynote Speaker)**
- **DBT Sponsored** Guest Lecture on "Transgenic Animal" Govt. Dr. W.W. Patankar Girls P.G College, Durg, Chhattisgarh 04 August 2022.
- **DBT Sponsored** Guest Lecture on "Structure and Function of Ear" Govt. Dr. W.W. Patankar Girls P.G college, Durg, Chhattisgarh 03 August 2022.
- National workshop on "Instrumentation – Chromatography and its Application", Department of Botany & Zoology, Govt. Shivnath Science college Rajnandgaon Chhattisgarh 27-29 June 2022, **(Resource Person)**
- National workshop on "Biodiversity and Conservation- Hot Spots Biodiversity"- Department of zoology, Collaboration with Govt. Digvijay PG College Rajnandgaon & Mahila Mahavidyalaya Bhilai 15-21 November 2021. , **(Resource Person)**
- CCOST "National science day celebration" Govt. Danveer Tularam PG College Utai, Durg, **(Resource Person)** 23 Feb 2016.
- Guest Lecture on "Genetics Disease in human life" Mahila Mahavidyalaya Bhilai 21 November 2015.

Faculty Development & Training Programme-

- Attended Five days FDP organized by Govt. Art and Commerce Girls college, Raipur on **Promoting Research Culture** , (09 to 13 June 2022).
- Attended Five days FDP organized by MGNCRE-Department of higher education ministry of education ,govt. of India on **Mentoring for institutional social responsibility and facilitation for community engagement** , (02 to 06 February 2022).
- Attended Seven days FDP organized by Govt. Nehru PG College Dongargarh, Rajnandgaon on **Research and Teaching Methodology**, (01 to 05 Sep. 2021).
- Attended Seven days FDP organized by Govt. Dr. Baba saheb bhimrao ambedkar PG College, Dongargaon from **Development of Skill for Research & Publication**, (22 to 28 September 21).
- Attended Seven days FDP organized by Govt. Nehru PG College Dongargarh, Rajnandgaon on **Community Health & Nutrition**, (23 to 29 August 2021).

- Attended IFDP organized by Govt. Vishwanath Yadav Tamashkar P.G. Autonomous College, Durg on **Research and Teaching Methodology**, (05 to 11 July 2021).
- Attended ten days FDP Jointly Organized by Hemchand Yadav University Durg (C.G.) and Govt. Vishwanath Yadav Tamashkar P.G. Autonomous College, Durg on **Online Education: Boon for Upliftment of Higher Education Institutions**, (22 July 2020 to 31st July 2020).
- Attended Seven day IFDP organized by Rabindranath Tagore University, Bhopal and CV Raman University, Bilaspur on **Alternative Education: Possibilities Challenges and Solution in Post Covid Era** ,(22 to 28 June 2020).
- Attended One day Faculty knowledge program organized by IBS (ICFAI business school) on **Modern teaching technique's & tools for under graduate students** , (27 July 2017).
- Attended UGC- Sponsored 4-week **Orientation Programme** organized by UGC- Academic Staff College, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, (28 January to 24 February 2012).

Seminar/Conference Organized

- National Workshop & training programme on “**Health and Nutrition: Mushroom Cultivation and Spawn Production**”, 09th Nov. Dec. to 08th Dec 2021 (Organizing Secretary).
- CCOST sponsored International Conference on “**A New Micro biome Research Era for Human Welfare and Cure of Infectious Diseases**”, 28th & 29th February 2020 (Co-Convener).
- National Workshop on “**Trends in Solid Waste Management & Biology: Approaches to a Serene World**” 3rd to 9th Dec 2019 (Convener).
- National science Day on “**Science and its impact towards society**” 28thFeb 2019 (Co-Convener).
- CCOST sponsored National science Day on “**Inspiration of Day**” 28thFeb 2018 (Co-Convener).
- National science Day on “**Science & Technology for Especially abled person**” 28thFeb 2017 (Convener).
- CCOST sponsored National science Day on “**Make in India**” 28thFeb 2016 (Convener).
- National level workshop on “**Recent Advancement in biology Science**” 16th-17th Dec.2013 (Co-Convener).
- National level workshop on “**Aquatic Bio-diversity**” 16th-17th Dec.2013 (Convener).

Awards

- **Global Eminent Educator Award** 2021.
- International women day (Jansunwai foundation) to award **Shakti Parve**, 8th march 2018.
- **Best Teacher Award** on the occasion of Teachers Day by International Rotary club of Bhilai, Utkrith Shiksha Samman, 9TH Sep.2017.
- Utkrith Shiksha Samman, **World Environment Day** Rally, 5Th june2017.
- International women day (Jansunwai foundation) to award **Nari Samman meraabhiman** 8th march 2017.
- International Rotary club of Bhilai city to award **performance and excellence in community service** 2014.

- Yuvakhel or sanskritymandalBhilai to award **Utkrist Shikshak Sammam** 2007.

Personal

Date of birth: August 08, 1976

Place of birth: Bangalore, India

Parents: Smt, Bimla Sisodia & Mr., J.S. Sisodia

Spouse: Mr. Vikas Bajaj

Son: Rishabh Bajaj

Son: Rithwik Bajaj