Dr. Sanjay Kumar Raul

Designation: Assistant Professor Stage-II

Qualification: M.Sc., Ph.D. (Germany), Post-doctoral research

Date of Birth: 13th May 1981, Baliapal, Odisha

Date of Joining: 01.06.2018

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Area of Research Interest

- Exploring the novel bio-active natural phytochemicals of traditional medicinal plant and its products
- Utilizing the natural phytocompound for drug discovery of various human diseases, in particular, cancer and infectious diseases treatment
- Understanding its molecular mechanism(s) in cell culture and animal model system

Courses taught

Molecular Biology, Immunobiology and Immunotechnology, Bioprocess Engineering and Industrial Biotechnology, Analytical Techniques, Animal Biotechnology and Cancer Biology

Career

Assistant Professor, PG Dept. of Biotechnology, Rama Devi Women's University (RDWU), Vidya Vihar, Bhubaneswar, (June 2018 to Present)

Teaching Experience

06+ years

Research Experience

15+ years

- Post-Doctoral Fellow: Department of Biochemistry, Indian Institute of Science Bangalore (February 2017- May 2018)
- Research Scholar: Department of Tumor Biology, University Medical Center Hamburg Eppendorf, Germany (November 2012-March 2014)
- Research Scientist in Biotechnology Industry: IMGENEX India private limited, Bhubaneswar, India. (February 2006-September 2012)
- Project Assistant: Natural products division, Regional Research Laboratory (CSIR), Bhubaneswar, India. (March 2005-February 2006)

Administrative/Executive Experience

- Member of IQAC, Rama Devi Women's University (Since 2022)
- Member of Board of Studies in the Department of Biotechnology (Since 2018)
- Deputy Controller of Examination, Rama Devi Women's University (From 2018 to 2021)

Awards & Honors

- Young Scientists (YSS) Start-up research (PDF/2016/003272) grant-National Post-Doctoral Fellowship (NPDF) award from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India 2017
- Government of India awarded "National Overseas Scholarship" for higher studies in abroad for Ph.D. 2011

Membership in Scientific Societies

Life Member "The Society of Biological Chemists, India" since 2018

Research Guidance

- ✓ Ph.D thesis supervised : O (02-continuing)
- ✓ M.Tech/ M.Phil thesis supervised : 02 (Two)
- ✓ M.Sc. thesis supervised : 25 (Twenty-Five)

Research Grants (All research grants including seed funds)

S. No	Title of the project	Funding Agency	Amount	Sanction year & duration
1	Bioprospecting of *Ixora coccinea* plant extracts used by the tribal communities of Odisha for treatment of leucorrhea	Odisha State Higher Education Council, Govt. of Odisha	5.22 Lakhs	May 2022 (Two Years)
2	Bioprospecting of major phytochemical profile of *Coffea arabica* cultivated by the tribal communities of Koraput district of Odisha and its potential therapeutic effect	Science and Technology Department, Govt. of Odisha	9.96 Lakhs	September 2022 (Three Years).

Publications

Patents

Nill

Journal publications (Give the entire list of publication in Scopus/SCI-WoS/UGC care only)

1. Beura, P. and Raul, S. K. (2024) A comprehensive ethnophytopharmacological review on anti-leucorrhoeal medicinal plants from the Indian tribal region: towards future therapeutic research. Journal of Herbal Medicine (*In press*)
2. Ray, U., Raul, S. K., Gopinatha, V. K., Ghosh, D., Rangappa, K. S., Mantelingu, K., & Raghavan, S. C. (2020). Identification and characterization of novel SCR7-based smallmolecule inhibitor of DNA end-joining, SCR130 and its relevance in cancer therapeutics. Molecular carcinogenesis, 59(6), 618–628
3. Kari, V., Raul, S. K., Henck, J. M., Kitz, J., Kramer, F., Kosinsky, R. L., Übelmesser, N., Mansour, W. Y., Eggert, J., Spitzner, M., Najafova, Z., Bastians, H., Grade, M., Gaedcke, J., Wegwitz, F., &Johnsen, S. A. (2019). The histone methyltransferase DOT1L is required for proper DNA damage response, DNA repair, and modulates chemotherapy responsiveness. Clinical epigenetics, 11(1), 4. SK Raul contributed equally as a 1st coauthor to this paper
4. Kari, V., Mansour, W. Y., Raul, S. K., Baumgart, S. J., Mund, A., Grade, M., Sirma, H., Simon, R., Will, H., Dobbelstein, M., Dikomey, E., &Johnsen, S. A. (2016). Loss of CHD1 causes DNA repair defects and enhances prostate cancer therapeutic responsiveness.EMBO reports, 17(11), 1609–1623. SK Raul contributed equally as a 1st co-author to this paper
5. Rosenberg, Jonathan S.; Singh, Sujay; Raul, Sanjay; Tong, Zhimin; Guha, Sushovan. Pancreatic cancer screening by TLR phenotyping. Abstract 894. In: Proceedings of the 102nd Annual Meeting of the American Association for Cancer Research; 2011 Apr 2-6; Orlando, FL. Philadelphia (PA): AACR; Cancer Res 2011;71(8 Suppl): Abstract nr 894

Book/book chapter Publications

1. Pyari Payal Beura, Sanjay Kumar Raul; Biosurfactants: New Insights in Bioengineering and Bioremediation of Crude Oil Contamination, Biosurfactants: A Boon to Healthcare, Agriculture & Environmental Sustainability (2024) 1: 136. https://doi.org/10.2174/9789815196924124010010

2. Lisa Stein, DebashreeSahu, JavedAkhtar, Kody Andrew, Hyun-ku Lee, Satya Mishra, Payton Quintel, Sanjay Raul, Jonathan Rosenberg, M. Simple, Gita Singh, Sujay Singh, Jason Stampfl, Lauren Wardle. TOLL-LIKE RECEPTORS IMGENEX & Innate Immunity: The Story Toll'd OVERVIEW & HANDBOOK. FIRST EDITION• 2010 IMGENEX (www.imgenex.com) 11175 Flintkote Avenue, Suite E, San Diego, CA 92121.

Participation in Conferences & Seminars (as invited/plenary/chair)

Nil

Full paper in conference proceedings