

Brief Profile



Dr. Lavkush Dwivedi, Ph.D.

- **Coordinator**, UGC-STRIDE(I) Program, BU Jhansi
- **Co-Coordinator**, DST-Technology Enabling Centre
- **Co-Coordinator**, BU-Innovation Centre
- **Coordinator**- B.Sc.-MLT
- **Convener**, RDC, Biomedical Science
- **Coordinator**, Baidyanath Ayurved Research Program
- **Head**, Dept. of Biomedical Sc. (2015-2018)
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YouTube- [Immunity Talks by Dr. Lavkush Dwivedi - YouTube](https://www.youtube.com/channel/UC...)

Teaching & Research Areas:

- Immunology
- Human Physiology
- Human Health Risks Assessment & Management
- Natural Drug Research

Ph.D. Thesis Title:

"Development of predictive in-silico tool for Human Health Risk Assessment and Management"

Achievements @ Glance

- Awards : 20
- Ongoing Projects : 04 (Total layout- 562 Lacs)
- Completed Projects : 05 (DST & Baidyanath Group)
- Submitted Projects : 03
- Total Teaching & Research Experience : >14 Years
- Publications including Books, Chapters, Research & review articles, conference papers, Letter to Editors copyrights/patents etc. : >100
- Conferences/Trainings/ Workshops/FDPs underwent : 55
- Editorial Board Member of Research Journals : 11
- Conferences/Symposium/University Level Science Quizzes/Science Exhibition Organized : 36
- Lectures delivered as Invited Speaker/Resource Person : 18
- International Member of Scientific/ Academic Societies : 10
- Research Supervisor : 03 Ph.D. (ongoing) & 21 M.Sc.
- Member of various administrative and other students' welfare Committees of Bundelkhand University, Jhansi : >15

Qualifications:

- **Ph.D.** (Awarded in 2010)
 - ✓ **Thesis title-** 'Development of predictive in-silico tool for the human health risk assessment & management'
 - ✓ **Subject-** Biomedical Science
 - ✓ **Institute-** CSIR-Industrial Toxicology Research Centre (now- Indian Institute of Toxicology Research), Lucknow, **University-** Bundelkhand University, Jhansi
- **M.Sc.** (Biomedical Science)- Bundelkhand University, Jhansi, India – 2005 (69%)
- **B.Sc.** (Biology flow)- C.S.J.M. University, Kanpur, India – 2003 (68%)

Profile:

Dr. Lavkush Dwivedi is serving the Institute of Biomedical Sciences, Bundelkhand University, Jhansi since November 2011 as a faculty member of Immunology and Human Physiology. Before that, he worked as Lecturer & Guest Lecturer in the same department from 2006 to 2011.

Research:

Dr. Dwivedi did his Ph.D. on '*Development of a predictive in-silico tool for the Human Health Risk Assessment & Management of the Indian population*' from CSIR- Indian Institute of Toxicology Research, Lucknow under the able guidance of Prof. Aditya B. Pant & Prof. Rambir Singh and got the degree awarded in Biomedical Science by Bundelkhand University Jhansi in 2010. Considering the value and need of the work in COVID situations, the Uttar Pradesh Govt. funded him a R&D project on the same for developing a mobile application for effective health prediction. Further, he is working on phytochemical & physicochemical studies of medicinal plants for the identification of novel therapeutic compounds and industrial value addition for their cultivation as alternative cash crops in the Bundelkhand region. He completed a DST-funded major research project in collaboration with RLB Central Agriculture University, Jhansi on the same line in 2021. Observing the huge mining and heavy metals pollution in this region, his research interest is recently shifted to the Physico-chemical study of soil, water, and plants of different sources in Bundelkhand region for the quantitative & qualitative study of heavy metals and their remediation for reducing the risk of their movement into the food chain.

Therefore, broadly his interest lies in the area of herbal research & Human healthcare. Considering to which Shree Baidyanth Ayurved Bhawan Pvt. Ltd. has recently funded him a major project on promotion of Research in Ayurveda at PG & Ph.D. level through *Baidyanath Ayurved Research Fellowship Program* for three years; layout-42.0 Lacs.

Moreover, he is **Coordinating the Research Capacity Building & Human Resource Development program**, funded by UGC under the Scheme for Transdisciplinary Research for India's Developing Economy (STRIDE) Component-I to Bundelkhand University, Jhansi (the only University of Uttar Pradesh selected for this grant) in 2020 where participants are trained under 4 modules for understanding the advanced Research Methodology, developing the operational and application skills of high-end research equipment like GC-MS, X-RD, HPLC, AAS, FTIR, Real Time-PCR, Cell Culture techniques, Multimode, 2D Gel electrophoresis, project-based research training and data presentation and publication in an appropriate journal. So far, about 200 UG students, 200 PG students, 100+ Ph.D. Scholars and 100+ faculty members of different disciplines have been trained under the programme.

Dr. Dwivedi has published more than 100 items including research, review articles, Books, Book Chapters/articles edited in special issue, Conference papers, and letter to editor etc. He has delivered several invited talks in about **55 conferences/workshops/Training Programmes** underwent so far. Dr. Dwivedi has been organizing convenors of several national conferences/symposia/training programs/Faculty development programs at Bundelkhand University. He is one of the Lead Auditors of ISO 9001:2015 Quality Management System duly certificated by the International Register of Certificated Auditors (IRCA), SGS Academy, England UK. Also, he is a **Technical Editor/Reviewer of reputed journals like** PLOS One, *International Journal of Immunology Research*, *Journal of Environmental Chemistry and Ecotoxicology*, *International Journal of Pharmaceutical Science and Research*, *Immunology Innovation*, *South Asian Journal of Experimental Biology (SAJEB)*, *WebmedCentral* etc. He has been **Guest Editor** of 02 special issues on

'Immunomodulation & Therapeutic Approaches against the Infectious Diseases' published by the South Asian Journal of Experimental Biology (Online ISSN: 2230-9799) in the years 2011 & 2013. Dr. Dwivedi is a constituent member (Educationist) of the Vidyalaya Management Committee (VMC) of Kendriya Vidyalaya-II Jhansi along with several other international scientific societies like the Indian Science Congress, The World Association of Young Scientists (WAYS), International Chemical Biology Society (ChEMBL), The World Society of Interdisciplinary of Anti-Aging Medicine (WOSIAM), UK and ITHEA International Scientific Society, Bulgaria, etc.

Teaching & Administrative:

For 13 years as a teacher, Dr. Dwivedi has made committed efforts to impart quality education to the students by widening his horizon and coming up with advancements in his teaching methods. As a result, out of 500+ students he taught so far, 80+ qualified CSIR-UGC NET exam and pursuing Ph.D. from national & international research institutes in India & abroad, 50+ are doing Govt. Jobs as Scientist/Professor in various institutes, 125+ working in the R&D section of pharmaceutical companies like CIPLA, CADILA, Ranbaxy, Sun Pharma, etc. Being Coordinator of the Innovation Centre (a high-end research instrumentation facility) of Bundelkhand University Dr. Dwivedi has been a leading organizer of FDP, Skill Development Programs, Conferences, Seminars, workshops etc. He is the convener of the Research Degree Committee (RDC) of Biomedical Sciences from March 2021 and has been **HOD & Convenor of BoS of Biomedical Sciences during 27.03.2015 - 07.08.2018**. Also, he served as Assistant Proctor of the University in session 2015-16. Presently, he is a member of more than 15 different administrative Committees of Bundelkhand University.

Key inputs/Contribution in Teaching, Research, and Students Empowerment:

- Coordinated training to about 400 UG & PG students, research scholars and faculty members on advanced scientific research equipments at the Innovation Centre, BU Jhansi.
- To date, organized >40 Conferences/Seminars/FDPs/Training Programs/ Science Quizzes, etc. for students, research fellows and faculty members.
- Supported in NAAC Accrediation of the University (fourth cycle) as a Dy. Coordinator of NAAC Criteria-3 (Research, Innovation & Extension).
- Developed a predictive mobile application '**Healthकुंडली**' for online self health risks assessment and management.
- Published ~100 articles in reputed journals.
- Developed software for digitized compilation of students' attendance and monitoring of teachers punctuality in the classes. Implimented same in the department.
- Introduced paperless online student feedback system driven modulation in teaching methadology.
- Introduced class seminars & Group Discussion at UG & PG level as mandatory practice of internal assessment for developing a presentation & communication skill in students.
- Introduced concept of punctuality, discipline & sincerity based assessment of students.
- Started trend of Parents- Teachers Interactive Meet at higher education level and felicitation of highest attendee and annual toppers of the class for encouragement & motivation of the students.
- Designed & developed ordinance, curriculum & detailed syllabi of B.Sc. Medical Laboratory Technology (Techniques) and established the course in Dept. of Biomedical Sciences from session 2021-22 (*duly approved by UP state Medical Faculty & UP Government*).

- Designed & developed CBCS Complied ordinance, curriculum & detailed syllabi of M.Sc. Life Sciences and established the course in Dept. of Biomedical Sciences from session 2019-20.
- Designed & developed CBCS Complied ordinance, curriculum & detailed syllabi of M.Sc. Biomedical Science and established the course in Dept. of Biomedical Sciences from session 2018-19.
- Organized University & Schools/Colleges bridging programs (~12) like science Quizzes, Science Exhibition.
- Explored students' extracurricular activities under students' journal club developed in the department.
- Introduced practice of video based concept learning in class seminars.
- Emphasized on ppt. lectures (including audio, videos) & demonstration based, students oriented class room teaching.
- Organized 06 Science Quizzes (based on CSIR-UGC Life Sciences syllabus) consisting of audio-visual rounds for students' preparation of NET examination.

His teaching and research efforts have been recognized by about 20 awards including *Excellent Teacher, Academic Excellence, Research Excellence, Nature Care Award, Promising Educator, Hon'ble Jury Mention Faculty, Young Faculty, Young Scientist, Excellence in Teaching & Research, Hon'ble Mention Certificate, Certificate of Appreciation and Bright Educator Awards in the last five years*. Moreover, he received many best presentation awards during national/international conferences.

For further details may kindly like to visit www.lkdbiomedical.webs.com.