INSTITUTE OF HOME ECONOMICS

UNIVERSITY OF DELHI

Name	Prof. (Dr) Radhika Bakhshi	**Photograph**
Designation	Director	
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Educational Qualifications:

- MSc (Biochemistry), University of Delhi.
- PhD (Biochemistry), AIIMS, New Delhi.

Post-Doctoral and Teaching Experience:

1. **Wayne State University**, **Detroit, USA,** Post-Doctoral Fellow: 3 yrs
2. **Sri Venkateswara College**, **University of Delhi, Lecturer**, Department. of Biochemistry: 3 yrs
3. **Shaheed Rajguru College of Applied Sciences for Women**, University of Delhi**,** Department of Biomedical Sciences: 18 yrs

Awards Received :

1. '**Best Teacher's Award**', by the Department of Higher Education, Govt. of NCT, Delhi in 2011.
2. JRF and SRF from Council of Scientific and Industrial Research (CSIR).
3. Qualified UGC-NET.

Research Interest: Cancer Biology

ORCID No: 0000-0002-1516-1339

Research Project :

Title	Funding Agency	Duration of the project
Mutational analysis of PPARα, ABCC8, KCNJ11 & CALPN10 genes in Type 2 diabetes patients in India.	University of Delhi - Innovation Project Scheme	1.5 Years
Unraveling the Genetic Basis of Acute Myeloid Leukaemia (AML)	University of Delhi - Innovation Project Scheme	01 Years

Book Chapters Published/E-Content :

1. 2023, **Biomarkers for Low-Dose Ionizing Radiation-Induced Cancer Risk: An Overview**, in the Book titled "Molecular Biomarkers in Cancer" : Techniques, Discoveries and Translational Applications, edited by Ranbir Chander Sobti, Haruhiko Sugimura and Awtar Krishan Ganju. ISBN(10) 1-4438-5758-0, ISBN (13): 978-1-4438-5758-1
2. 2016-17- **3 Modules in ePG Pathshala** (A UGC-MHRD initiative) for: Course - Biophysics, Paper-Thermodynamics of Living Systems and Bioenergetics.
3. 2004, **Recombinant DNA Technology**, in the Book titled "Essentials of Biotechnology for Students". ISBN 81-88-867-18-7

Research Publications Since 2010 :

1. Sharawat SK, **Bakhshi R,** Vishnubhatla S, Bakhshi S. Mitochondrial D-loop variations in Paediatric acute myeloid leukaemia: a potential prognostic marker. *Br J Haematol. 2010 May;149(3):391-8.*
2. Sharawat SK, **Bakhshi R,** Vishnubhatla S, Gupta R, Bakhshi S. *BAX/BCL2* RMFI ratio predicts better induction response in Pediatric patients with acute myeloid leukemia. *Pediatr Blood Cancer. 2013 Aug;60(8):E63-66.*
3. Sharawat SK, Gupta R, Raina V, Kumar L, Sharma A, Iqbal S, **Bakhshi R,** Vishnubhatla S, Bakhshi S. Increased coexpression of *c-KIT* and *FLT3* receptors on myeloblasts: independent predictor of poor outcome in Pediatric acute myeloid leukemia. *Cytometry B Clin Cytom. 2013 Nov-Dec;84(6):390-7.*
4. Sharawat SK, **Bakhshi R,** Vishnubhatla S, Gupta R, Bakhshi S. FLT3-ITD mutation in relation to FLT3 expression in Pediatric AML: a prospective study from India. *Pediatric Hematol Oncol. 2014 Mar;31(2):131-7.*
5. Sharawat SK, Raina V, Kumar L, Sharma A, **Bakhshi R**, Vishnubhatla S, Gupta R, Bakhshi S. Quantitative assessment of *BAX* transcript and flow cytometric expression in acute myeloid leukemia: a prospective study. *Hematology. 2014 Oct;19(7):404-11.*

6. Sharawat SK, Vishnubhatla S, **Bakhshi R,** Raina V, Kumar L, Sharma A, Bakhshi S. Relative receptor tyrosine kinases and anti-apoptotic transcripts hold potential for predicting inferior outcome in adult acute myeloid leukemia: a prospective pilot study. *Clin Lymphoma Myeloma Leuk. 2014 Dec;14(6):501-508.*

7. Sharawat SK, **Bakhshi R,**Vishnubhatla S, Bakhshi S. High receptor tyrosine kinase (*FLT3, KIT*) transcript versus anti-apoptotic (*BCL2*) transcript ratio independently predicts inferior outcome in pediatric acute myeloid leukemia. *Blood Cells Mol Dis. 2015 Jan;54(1):56-64.*

8. Sharawat SK, Raina V, Kumar L, Sharma A, **Bakhshi R,**Vishnubhatla S, Gupta R, Bakhshi S. High fms-like tyrosine kinase-3 (FLT3) receptor surface expression predicts poor outcome in FLT3 internal tandem duplication (ITD) negative patients in adult acute myeloid leukaemia : A prospective pilot study from India. *Indian J Med Res. 2016 May;143(Supplement):S11-S16*.

9. Tyagi A, Pramanik R, Vishnubhatla S, Ali S, **Bakhshi R,** Chopra A, Singh A, Bakhshi S. Pattern of mitochondrial D-loop variations and their relation with mitochondrial encoded genes in pediatric acute myeloid leukemia. *Mutat Res. 2018 Jul;810:13-18.*

10. Tyagi A, Pramanik R, Vishnubhatla S, **Bakhshi R**, Bakhshi S. Prognostic impact of mitochondrial DNA D-loop variations in pediatric acute myeloid leukemia.*Oncotarget. 2019 Feb 12;10(13):1334-1343.*

11. *Tyagi A, Pramanik R, Bakhshi R,Vishnubhatla S, Bakhshi S. Apoptosis: A biomarker of high-risk phenotype in pediatric acute myeloid leukemia? Int J Lab Hematol. 2019 Feb;41(1):141-147.*

12. Tyagi A, Pramanik R, **Bakhshi R,** Singh A, Vishnubhatla S, Bakhshi S. Expression of mitochondrial genes predicts survival in pediatric acute myeloid leukemia. *Int J Hematol. 2019 Aug;110(2):205-212.*

13. Tyagi A, Pramanik R, **Bakhshi R,**Vishnubhatla S, Bakhshi S. Genetic Landscape of Mitochondrial Regulatory Region in Pediatric Acute Myeloid Leukemia: Changes from Diagnosis to Relapse. *J Pediatr Genet. 2019 Dec;8(4):193-197.*

14. Maan K, Tyagi R, Dutta A, **Bakhshi R,** Rana P. Comparative metabolic profiles of total and partial body radiation exposure in mice using an untargeted metabolomics approach*. Metabolomics. 2020 Nov 27;16(12):124.*

15. Chaudhary S, Ganguly S, Palanichamy JK, Singh A, **Bakhshi R**, Jain A, Chopra A, Bakhshi S. PGC1A driven enhanced mitochondrial DNA copy number predicts outcome in pediatric acute myeloid leukemia*. Mitochondrion. 2021 May;58:246-254.*

16. Chaudhary S, Ganguly S, Singh A, Palanichamy JK, Chopra A, **Bakhshi R,**Bakhshi S. Mitochondrial complex II and V activity is enhanced in pediatric acute myeloid leukemia. *Am J Blood Res. 2021 Oct 15;11(5):534-543.*

17. Maan K, Baghel R, **Bakhshi R**, Dhariwal S, Tyagi R, Rana P. An integrative chemometric approach
and correlative metabolite networking of LC-MS and NMR based urine metabolomics for radiation signatures. *Mol Omics. 2022 Mar 28;18(3):214-225.*

18. Chaudhary S, Ganguly S, Singh A, Palanichamy JK, **Bakhshi R**, Chopra A, Bakhshi S. Mitochondrial biogenesis gene POLG correlates with outcome in pediatric acute myeloid leukemia*. Leuk Lymphoma. 2022 Apr;63(4):1005-1008.*

19. Kumari K, Singh KS, Singh K, **Bakhshi R,** Singh LR. TMAO to the rescue of pathogenic protein variants. *Biochim Biophys Acta Gen Subj. 2022 Nov;1866(11):130214.*

20. Chaudhary S, Ganguly S, Palanichamy JK, Singh A, Pradhan D, **Bakhshi R,** Chopra A, Bakhshi S. Mitochondrial gene expression signature predicts prognosis of pediatric acute myeloid leukemia patients*. Front Oncol. 2023 Feb 9;13:1109518*

Association with Professional Societies

Member of Society of Biological Chemists (India)