

Curriculum Vitae

Rakesh Kumar, Ph.D.

Assoc. Professor

School of Biotechnology, SMVDU,

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Dec 2012-Present

Contact:

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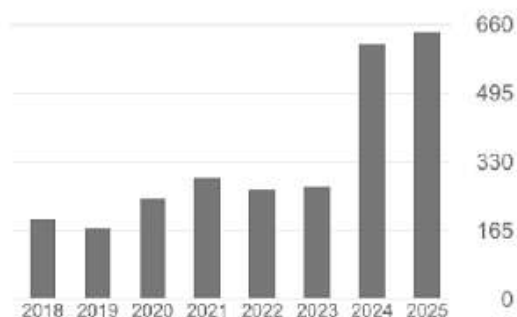
Supervisor- 14 Ph.D. (7 Awarded +2 Submitted+ 5 Ongoing) and 48 Masters students



Google Scholar Profile:

<https://scholar.google.com/citations?user=4jd2afMAAAAJ&hl=en>

Cited by	VIEW ALL	
	All	Since 2020
Citations	4300	2329
h-index	34	27
i10-index	52	43



Education:

- **Postdoctoral Research fellow** at **UTSW Medical Center** in Dallas, TX, USA (November 2009-Dec. 2102)
- **Postdoctoral Research Associate /Senior Research Tech.** at **Washington University School of Medicine**, St. Louis, MO, USA. (April 2008-Nov 2009)
- **Ph.D., All India Institute of Medical Sciences (AIIMS) in New Delhi, India (2004-2009)**
Mentor-Prof. Rima Dada. Title “Mitochondrial genome and Y-chromosome role in male infertility”. Date of Submission 11/4/2008, Date of Defense-14/2/2009
- **M.Sc. (Human Genetics), Guru Nanak Dev University in Amritsar, Punjab, India (2001-2003)**
- **BSc. (Biology) Jammu University, Jammu and Kashmir, India (1998-2001)**

Orientation/Refresher/FDP/MOOC Course:

- **NEP 2020** Orientation & Sensitization Programme under Malaviya Mission-Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-MMTTC, Shri Mata Vaishno Devi University, Katra, J&K from 09/12/2024 to 18/12/2024.
- **NEP 2020** Orientation & Sensitization Programme under Malaviya Mission-Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-MMTTC, Shri Mata Vaishno Devi University, Katra, J&K from 04/08/2024 to 14/08/2024.
- **Refresher Course RC-328** -(Inter-Disciplinary) Indian Traditional Knowledge and Ethics-HRDC-HPU-19th July-31st July 2021
- **Two Weeks-FDP-PMMMNMTT** (Online Faculty Development Program (FDP) on Entrepreneurship Development during (17th–30th June 2021)
- **MOOC-Coursera-Introduction to the Biology of Cancer**-July 27th 2020
- **MOOC-Coursera-Biochemical Principles of Energy Metabolism** 26th Nov 2019
- **Refresher Course** (Inter-Disciplinary)-Disaster Management HRDC-University of Jammu 10th Dec 16-30th Dec 2016
- **Orientation Programme-OP119**-HRDC-HPU-22nd June-18th July 15

Research Grants:

A) Research Projects

S. No	Title of Project	Type of Grant	Role	Funding Agency	Year	Amount (Lakhs)
1	Centre for Skill Development and Innovation in Therapeutic Nutrition Health Sciences at SMVDU	Centre	Principal Investigator	JK-HED	2025-2028	195.00
2	Trans Disciplinary Hub	Skill Research Centre	Co-Investigator and Co-Ordinator	JK-HED	2022-2027	1000.00
3	To study the genetic patterns among different cancers in Jammu and Kashmir population India.	Research Project	Principal Investigator	JK-DST	2021-2023	4.00
4	The genetics and epigenetics of infertility in humans by functional interrogation in animal models- a multi institutional study	Research Project	Principal Investigator	ICMR-Govt. of India	2023-2026	125.00 (Approx) Approved, sanction pending
5	Centre for Advanced Research-CAR (ICMR)-A multi-Institutional Project	Centre/ Research Project	Principal Investigator and Co-Ordinator	ICMR-Govt. of India	2018-2026	919.00
6	Molecular characterization of non-small cell lung carcinoma in patients from Jammu and Kashmir	Research Project	Principal Investigator	DST-Govt. of India	2017-2020	91.30
7	Genetic perspective of DNA Damage in breast cancer	Research Project	Principal Investigator	SERB-DST	2015-2018	24.90
8	Micro-RNA's in Breast Cancer patients	Research Project	Principal Co-Investigator	JK-DST	2012-2016	149.00

B) GRANTS AT SCHOOL LEVEL

S. No	Title of Project	Type of Grant	Role	Funding Agency	Year	Amount (Lakhs)
1	DBT-PG PROGRAMME	SCHOOL LEVEL	CO-ORDINATOR	DBT	2020-2025	250.00

C) WORKSHOP/CONFERENCE GRANTS

S. No	Title of Project	Type of Grant	Role	Funding Agency	Year	Amount (Lakhs)
1	Brainstorming on congenital disorders and still birth	Workshop	Convenor	JK-STIC	2023	1.00
2	ISSRF-2020	International Conference	Convenor	DST-SERB DST-JK CSIR MCI	2020	4.20
3	Brainstorming Meeting on “Maternal and Child Health”	Workshop	Convenor	JK-STIC	2018-19	1.50
4	Scientific Innovation and Intellectual Property Rights	Workshop	Convenor	JK-STIC	2017	1.00

Awards & Honors:

- Research Excellence Award, SMVDU, Katra-2024, Category 1
- Gold Medal-Research Excellence Award- SMVDU, Katra, 2024, Category II-
- Research Excellence Award, SMVDU, Katra – 2024, Category 1V
- Dr. GP Talwar Gold Medal Oration Award-ISSRF 2023/Ravenshaw University, Cuttak, Orrisa 2023
- Performance linked award by SMVDU for year 2018-2019
- Most Outstanding poster presentation. First place in Neuro-Texas Translational health Symposium in Austin, Texas, 2nd April 2011
- Young Scientist- Dr G. P. Talwar Gold Medal for Best oral presentation (ISSRF-07).
- Best paper of the year by Andrology Society of India (Dec. 15-16, 2007).
- Best oral presentation award in international free radical satellite meeting (Feb. 11-12, 2008 in New Delhi, India).
- SRF fellowship from Indian Council of Medical Research (2006-2008).

PUBLICATIONS:

1. Bhawani Sharma, Rajeshwer Singh Jamwal, Gresh Chander, Minerva Sharma, Ruchi Shah, Raju Shankarayan, Sonali Bhan, Audesh Bhat, Ajaz A. Bhat, **Rakesh Kumar**. Genetic insight into idiopathic male infertility in North India: Role of telomere maintenance genes. **European Journal of Obstetrics and Gynecology and Reproductive Biology**, 2025, 313, September 2025, 114653 **Impact factor 1.9**
2. Inamu Khan, Sana Baba, Saud Almawash, **Rakesh Kumar**, Ammira Akil, Ajaz Bhat, Muzafar Macha, G Protein-Coupled Receptor Signaling: Implications and Therapeutic Development Advances in Cancers. **MedComm (2025) Accepted. Impact factor 10.7**
3. Sonali Bhan, Shreya Sopori, Partha Sarkar, Arti Dhar, **Rakesh Kumar** Audesh Bhat ACE I/D Polymorphism Distribution in the North Indian Population of Jammu and Kashmir and Its Positive Correlation with Male Infertility **Journal of Human Reproductive Sciences:2025 Accepted Impact factor 1.2**
4. Minerva Sharma, Sonali Verma, Vanshika Bhagat, Ziya Tufail, Rajeshwer Singh Jamwal, Bhawani Sharma, Gresh Chander, Ruchi Shah, Audesh Bhat, Manushi Dhar, Supinder Singh, and **Rakesh Kumar**. Evaluation of a novel MAGEC1 variant and susceptibility to ovarian cancer in the North Indian population. **Genetic Testing and Molecular Biomarkers**. 2025 **Volume 29, Issue 7 Impact factor 1.0**
5. Aarti Bhardwaj, Jitender Phogat, Manoj Yadav, Anshu Yadav, Vishal Panghal, Mayank Singh, Sapna Sharma, **Rakesh Kumar**, Mukesh Tanwar. Genetic and Bioinformatics Analysis of RHO and PRPH2 Variants in North Indian Retinitis Pigmentosa. **Japanese Journal of Ophthalmology** July 2025. **(Accepted) Impact factor 2.1**
6. Manoj Yadav, Sumit Sachdeva, Anshu Yadav, Aarti Bhardwaj, Vishal Panghal, Ankit Kumari, Ritu Yadav, **Rakesh Kumar**, Mayank Singh, Sapna Sharma, Mukesh Tanwar. The role of SIX6 gene in juvenile open-angle glaucoma: a subtle contributor to the mutational landscape. **Japanese Journal of Ophthalmology** May 2025. **Impact factor 2.1**
7. Minerva Sharma Sonali Verma, Rajeshwer Singh Jamwal, Ziy Tufail, Vanshika Bhagat, Sonia Nagyal, Gh. Rasool Bhat, Amrita Bhat, Bhanu Sharma, Ruchi Shah, Gresh Chander, Audesh Bhat, **Rakesh Kumar**: Exome sequencing identifies ADGRG4 G-Protein-Coupled Receptors Gene as a novel cancer biomarker in ovarian cancer patients from North India. **Journal of Biochemical and Molecular Toxicology** 2024 Mar;38(3):e23672. **Impact Factor 3.6**
8. Audesh Bhat, Sonali Bhan, Andriela Kabiraj, Rak K Pandita, Keneth S Ramos, Sandhik Nandi, Shreya Sopori, Partha Sarkar, Arti Dhar, Shruti Pandita, **Rakesh Kumar**, Chandrima Das, John A Tainer, Tej K Pandita: A predictive chromatin architecture nexus regulates transcription and DNA damage repair. **Journal of Biological Chemistry**: 108300, Feb 2025 **Impact factor 5.486**
9. Shreya Sopori, Kavinay Kavinay, Sonali Bhan, Shreya Saxena, Medha Medha, **Rakesh Kumar**, Arti Dhar, Audesh Bhat CLOCK Gene 3'UTR and Exon 9 Polymorphisms show a Strong Association with Essential Hypertension in a North Indian Population. **BMC Medical Genomics**. 2024 17:289 **Impact factor 2.5**
10. Pandita, Monika, Shoket Heena, **Kumar Rakesh**, Bairwa Narendra: Genetic interaction between F-box encoding UCC1 and RRM3 regulates growth rate, cell size, and stress tolerance in *Saccharomyces cerevisiae*: *Journal of Biochemical and Molecular Toxicology*. 2024 Dec **e70059 Impact Factor 3.6**
11. Anshu Yadav, Jitender Phogat, Manoj Yadav, Aarti Bhardwaj, Ritu Yadav, Manisha Nada, Manish Bhati, Supreme Goel, Rahul Thakar, **Rakesh Kumar**, Mukesh Tanwar Association of Interleukin-6 gene polymorphism with its serum levels in Indian age-related macular degeneration patients. **Molecular Vision** 2024 Dec 28;30:434-446. **eCollection Impact factor 2.2**

12. Manoj Yadav, Mukesh Kumar, Chand Singh Dhull, Sumit Sachdeva, Aarti Bhardwaj, Anshu Yadav, Vishal Panghal, Pradeep Sharma, Ankit Kumari, Ritu Yadav, Mayank Singh, **Rakesh Kumar**, Anupama Deora, Manisha Rathi, Punit Kaur, Mukesh Tanwar. Identification and structural analysis of pathogenic variants in MYOC and CYP1B1 genes in Indian JOAG patients **Japanese Journal of Ophthalmology** Jan 2025. **Impact factor 2.1** <https://doi.org/10.1007/s10384-025-01173-8>
13. Mudasir Kumar, Sadaf Baba, Hana Sadida, Sara Marzooqi, Jaykumar Jerobin, Faisal Altemani, Naseh Algehainy, Mohammad Alanazi, **Rakesh Kumar**, Ammira Al-Shabeeb Akil, Muzafar Macha, Rashid Mir, and Abdul-Badi Abou-Samra Ajaz, Bhat. Extracellular vesicles as tools and targets in therapy for diseases **Signal Transduction and Targeted Therapy** 2024. 9(27) **Impact factor 39.2**
14. Khalid Bashir Mir, Souneek Chakraborty, Tanzeeba Amin, Aviral Kumar, Abdul Rouf War, Yedukondalu Nalli, **Rakesh Kumar**, Lekha Dinesh Kumar, Asif Ali, Anindya Goswami Canonical DDR activation by EMT inducing agent 5-Fluorouracil is modulated by a cannabinoid based combinatorial approach via inducing autophagy and suppression of vimentin expression **2024-116126 Biochemical Pharmacology** **Impact factor 5.3**
15. Gh. Rasool Bhat, Itty Sethi, Hana Q. Sadida, Bilal Rah, Rashid Mir, Naseh Algehainy, Ibrahim Altedlawi albalawi, Tariq Masoodi, Gowtham Kumar Subbaraj, Farrukh Jamal, Mayank Singh, **Rakesh Kumar**, Muzafar A. Macha, Ammira S. Alshabeeb Akil, Ajaz A. Bhat*, Cancer Cell Plasticity: From Cellular, molecular, and Genetic Mechanisms to Tumor Heterogeneity and Drug Resistance **Cancer Metastasis Reviews** 2024 (Accepted) **Impact factor 9.2**
16. Minerva Sharma, Bhawani Sharma, Rajeshwer Singh Jamwal, Ruchi Shah, **Rakesh Kumar** Role of genetics, environmental, and lifestyle factors responsible for infertility– A review- - **Fertility Science and Research** 2023, 10 (3) 131-138
17. Gunjan Dagar, **Rakesh Kumar**, Kamlesh Yadav, Mayank Singh, Tej. Pandita. Ubiquitination and deubiquitination: Implications on cancer therapy- **Biochimica et Biophysica Acta (BBA)-Gene Regulatory Mechanisms**. 2023, 1866, 4, 194979 **Impact Factor 6.304**
18. Gunjan Dagar; Ashna Gupta; Tariq Masoodi; Sabah Nisar; Maysolun Merhi; Sheema Hashem; Ravi Chauhan; Manisha Dagar; Sameer Mirza; Puneet Bagga; **Rakesh Kumar**; Ammira S. Al-Shabeeb Akil; Muzafar A. Macha; Mohammad Haris; Shahab Uddin; Mayank Singh; Ajaz Bhat Harnessing the Potential of CAR-T Cell Therapy: Progress, Challenges, and Future Directions in Hematological and Solid Tumor Treatments. **Journal of Translational Medicine** 2023 21 (1) 449 **Impact Factor 8.8**
19. Asif Amin, Asif Lone, Umer Majeed Wani, Faizah Farooq, Ruchi Shah, Rakesh Kumar, Raies A. Qadri Ala307Thr variation modulates FSHR structure and impairs its binding affinity for FSH: Implications in polycystic ovarian syndrome 2023 **Cell Biochemistry and function** 2023 41(6) 633-641 **Impact Factor 3.9**
20. Gh. Rasool Bhat, Rajeshwar Jamwal, Itty Sethi, Amrita Bhat, Ruchi Shah, Sonali Verma, Minerva Sharma, Hana Q. Sadida, Sara K. Al-Marzooqi, Tariq Masoodi, Sameer Mirza, Mohammad Haris, Muzafar A. Macha, Ammira S. Alshabeeb Akil, Ajaz A. Bhat*, **Rakesh Kumar*** Associations Between Telomere Attrition, Genetic Variants in Telomere Maintenance Genes, and Non-Small Cell Lung Cancer Risk in the Jammu and Kashmir Population of North India **BMC Cancer** 2023 23 (1) 874 2023* **Equal Corresponding author. Impact Factor 4.4**
21. Minerva Sharma, Amrita Bhat, Rajeshwer Singh Jamwal, Bhawani Sharma, Gresh Chander, Ruchi Shah, Sonali Verma, Taruna Arora, Audesh Bhat **Rakesh Kumar**. Cisplatin-based combination therapy for cancer. **Journal of Cancer Research and Therapeutics** 2023 (Accepted) **UGC S.No. 171 Impact Factor 1.331**
22. Poonam Mehta, Arijit Chakraborty, Syed Waseem Andrabi, Bhawani Sharma, **Rakesh Kumar**, L V K S Bhaskar, Singh Rajender. COVID-19 vaccination does not affect male sexual functions **Reprod Biol Endocrinol**. 2023 Jan 13;21(1):3 **Impact Factor 4.982**
23. Sonali Verma, Ruchi Shah, Amrita Bhat, Gh. Rasool Bhat, Divya Bakshi, Bhanu Sharma, Ajay Wakhloo, Vikas Heer, Gresh Chander, Audesh Bhat, **Rakesh Kumar**: Genetic analysis of

- polymorphism rs10937405 of *TP63* gene in breast and ovarian cancer patients of North Indian Cohort. **Journal of Cancer Research and Therapeutics** 2023 Jan-Mar;19(2):214-217 UGC S.No. 171 **Impact Factor 1.331**
24. Bhat, A.; Ghatage, T.; Bhan, S.; Lahane, G.P.; Dhar, A.; **Kumar, R.**; Pandita, R.K.; Bhat, K.M.; Ramos, K.S.; Pandita, T.K. Role of Transposable Elements in Genome Stability: Implications for Health and Disease. **Int. J. Mol. Sci.** 2022, 23, 7802 **Impact Factor 6.274**
 25. Gh Rasool Bhat, Itty Sethi, Bilal Rah, **Rakesh Kumar**, Dil Afroze: Innovative In-silico approaches for characterization of Genes and proteins-**Frontiers in Genetics** 2022 13:865182 **Impact Factor 4.772**
 26. Minerva, Ruchi Shah, **Rakesh Kumar**: Role of genetic, environmental, and hormonal factors in the progression of PCOS: A-Review **Journal of Reproductive Healthcare and Medicine J Reprod Healthc Med** 2022;3:3
 27. Surbhi Gupta, Manoj Kumar Gupta, **Rakesh Kumar**: Computational Prediction of Cancer Diagnosis: A Multi-Neural Ensemble Approach-**Applied Artificial intelligence** E-print (2021) **UGC S.No. 3152 Impact Factor 2.777**
 28. Rajeshwer Singh Jamwal, Nikita Mahajan, Gh. Rasool Bhat, Amrita Bhat, Bhanu Sharma, Ruchi Shah, Minerva Sharma, Sonali Verma, Divya Bakshi, Rahul Sharma, Deepak Abrol, **Rakesh Kumar**. Audesh Bhat, REV3L gene variants rs1002481, rs462779, and rs465646 lead to increased susceptibility towards non-small cell lung cancer in the population of Jammu and Kashmir **Cancer Epidemiology** 2021, 75-102047 UGC S.No. 6472 **Impact Factor 2.89 #co-corresponding Author**
 29. Gh. Rasool Bhat, Itty Sethi, Amrita Bhat, Sonali Verma, Divya Bakshi, Bhanu Sharma, Muddasser Nazir, Khursheed A Dar, Deepak Abrol, Ruchi Shah, **Rakesh Kumar**: Evaluation of the genetic variants using MassARRAY in non-small cell lung cancer among North Indians. **Scientific Reports (Nature)** 11291 (2021) (e-Print)- <https://doi.org/10.1038/s41598-021-90742-1> **Impact Factor-4.996**
 30. Shashank Hambarde, Chi-Lin Tsai, Raj K. Pandita, Albino Bacolla, Anirban Maitra, Vijay Charaka, Clayton R. Hunt, **Rakesh Kumar**, Oliver Limbo, Remy Le Meur, Walter J. Chazin, Susan Tsutakawa, Paul Russell, Tej K. Pandita and John A. Tainer. EXO5-DNA Structure and BLM Interactions Control DNA Resection for Replication Restart. **Molecular Cell** (2021) 81, 1-18 UGC S.No. 4874 UGC S.No. 4893 **Impact Factor 19.328**
 31. Bhanu Sharma, Shabab Angurana, Sonali Verma, Divya Bakshi, Ghulam Bhat, Asif Amin, Rajeshwer Jamwal, Raies Qadri, Amrita Bhat Ruchi Shah, **Rakesh Kumar**-Genetic association of ARID5B with the risk of colorectal cancer within J&K, India: A prelude study: **Genes and Genetics Systems (In Press)**- **Impact factor 0.917**
 32. Bhanu Sharma, Sonali Verma, Divya Bakshi, Ghulam Bhat, Asif Amin, Rajeshwer Jamwal, Raies Qadri, Shabab Angurana, Amrita Bhat Ruchi Shah, **Rakesh Kumar**- Genetic Analysis of colorectal carcinoma using high throughput SNP genotyping technique within the population of Jammu and Kashmir. **Molecular Biology Reports** (2021) 48 (8), 5889-5895 <https://doi.org/10.1007/s11033-021-06583-8>- **Impact factor 2.742**
 33. Minerva, Ruchi Shah, Amrita Bhat, Sonali Verma, Gresh Chander, Gh Rasool Bhat, Namrata Thapa, Audesh Bhat, Ajay W Wakhloo, Ashraf Ganie, **Rakesh Kumar**. Role of genetic, environmental and hormonal factors in the progression of PCOS: A Review- **Journal of Reproductive Healthcare and Medicine** May 2021 (In Press)-
 34. Amrita Bhat, Gh. Rasool Bhat, Sonali Verma, Ruchi Shah, Monika Pandita, Divya Bakshi, Bhanu Sharma, Jyotsna Suri, Deepak Abrol, Rahul Sharma, Shabab Angurana, **Rakesh Kumar**: Genetic variant rs10937405 of *TP63* with Leukemia risk from Northern India population Submitted in 2021-African **Journal of health sciences** (2021) 21:3-1243-1249. UGC S.No. 1621 **Impact factor 0.923.**
 35. Amrita, Bhat, Gh Bhat, Sonali Verma, Bhanu Sharma, Divya Bakshi, Deepak Abrol, Supinder Singh, Raies Qadri, Ruchi Shah, **Rakesh Kumar**: Analysis of Seventeen genetic variants in association with

- Leukemia within North Indian population using mass ARRAY Sequenom J Biochem Mol Toxicol. May 2021 e-22792- **Impact Factor 3.606**
36. Divya Bakshi, Bhanu Sharma, Ruchi Shah, Amrita Bhat, Sonali Verma, Gh. Rasool Bhat, Deepak Abrol, Rahul Sharma, Samantha Vashnavi, **Rakesh Kumar**. ANKLE-1 as new hotspot mutation for Breast cancer in Indian population and has a role in DNA Damage and repair in mammalian cells **2021- Front. Genet. 11:609758. Impact factor 3.647**
 37. Monika Pandita, Heena Shoket, Aayushi Rakwal, Shreya Wazir, Prabhat Kumar, **Rakesh Kumar**, Narendra Bairwa, Glyoxylate pathway regulator UCC1 and La-motif encoding SRO9 genes interact genetically to regulate stress response and apoptosis in *Saccharomyces cerevisiae* **J Biochem Mol Toxicol. 2021 Apr 2:e22781. doi: 10.1002/jbt.22781- Impact Factor 3.606**
 38. Sabah Nisar, Parvaiz Yousuf, Tariq Masoodi, Nissar Ahmad Wani, Sheema Hashem, Mayank Singh, Geetanjali Sageena, Deepika Mishra, **Rakesh Kumar**, Mohammad Haris, Ajaz Ahmad Bhat, Muzafar A. Macha. Chemokine-Cytokine Networks in the Head and Neck Tumor Microenvironment. **Int. J. Mol. Sci. 2021, 22, 4584. https://doi.org/ 10.3390/ijms22094584- Impact factor 5.923**
 39. Namrata Thapa, Sonali Verma, Gresh Chander, Amrita Bhat, Deepika Bhushan Raina, Shrutika Kachroo, Ruchi Shah, Rakesh Kumar. The Psychological Impact on Infertile Women – A Review. **2021 Journal of Reproductive Healthcare and Medicine 2021;2:10.- Impact factor**
 40. Bhanu Sharma, Ruchi Shah, Rajeshwar Singh, Sonali Verma, Amrita Bhat, Gh. Rasool Bhat, Divya Bakshi, Supinder Singh, Shabab Angurana, Audesh Bhat, Samantha Vaishnavi and **Rakesh Kumar**. Evaluation of Newly Identified IKZF1 Loci in Colorectal cancer-**2021 J Can Res Ther-2021; XX; XX-XX (e-Print) UGC S.No. 171 Impact factor 1.326**
 41. Deepika Bhushan Raina, Sonali Verma, Namrata Thapa, Gresh Chander, Shrutika Kachroo, Ruchi Shah and Rakesh Kumar Esophageal Cancer and Genetic Analysis Using High Throughput mass ARRAY technique-**2020-A Review Oncol Clin Res 2(1): 92-94**
 42. Sonali Verma, Varun Sharma, Indu Sharma, Ruchi Shah, Amrita Bhat, Gh. Rasool Bhat, Divya Bakshi, Ashna Nagpal, Bhanu Sharma, Deepak Abrol, Rahul Sharma, Audesh Bhat, **Rakesh Kumar** Association Analysis of Cancer Susceptibility Variants in Ovarian Cancer Patients- **Scientific Reports (Nature) 2020 Dec 3;10(1):21101. doi: 10.1038/s41598-020-76491-7. Impact factor 4.996**
 43. Amrita Bhat, Deepak Abrol, Gh. Rasool Bhat, Ruchi Shah, Sonali Verma, Divya Bakshi, Bhanu Sharma, Supinder Singh, Rakesh Raina, **Rakesh Kumar**. The Genetic variant rs2301721 of HOXA7 associated risk for Leukemia in Jammu region of North Indian Population- **2020 Polymorphism, 5, 68-76. Impact factor**
 44. Divya Bakshi; Ashna Nagpal, Varun Sharma, Indu Sharma, Ruchi Shah, Bhanu Sharma, Amrita Bhat, Sonali Verma, Gh. Rasool Bhat, Deepak Abrol, Rahul Sharma, Samantha Vashnavi, **Rakesh Kumar**. MassARRAY-based single nucleotide polymorphism analysis in breast cancer of North Indian Population. **2020-BMC Cancer- Sep 7;20(1):861. UGC S.No. 5269 Impact factor 4.638**
 45. Itty Sethi, Gh. Rasool Bhat, **Rakesh Kumar**, Ekta Rai, Swarkar Sharma; Dual Labeled Fluorescence Probe Based qPCR Assay to Measure the Telomere Length Gene, 145178 **Gene 2020- 145178- Impact Factor 2.9**
 46. Ashna Nagpal, Sonali Verma, Ruchi Shah, Gh. Rasool Bhat, Amrita Bhat, Divya Bakshi, Bhanu Sharma, Sandeep Kaul, and **Rakesh Kumar**. Genetic polymorphism of hOGG1 ser326cys and its association with breast cancer in North Indian Population. **Indian J Cancer. 2020 Apr-Jun;57(2):187-189. UGC S.No. 74 Impact Factor:1.22**
 47. Gh. Rasool Bhat, Sonali Verma, Amrita Bhat, Ruchi Shah, Itty Sethi, Khursheed A. Dar, Deepak Abrol, Audesh Bhat, Rakesh Raina, **Rakesh Kumar**; Genetic variant rs2494938 of LRFN2 gene is associated with non-small cell lung cancer risk in North-Indian population **3Biotech;2020 (10)-410 UGC S.No. 299 Impact Factor 2.40**

48. Ruchi Shah, Varun Sharma, Amrita Bhat, Hemender Singh, Indu Sharma, Sonali Verma, Gh Rasool Bhat, Bhanu Sharma, Divya Bakshi, **Rakesh Kumar** and Nazir Ahmed Dar: MassARRAY analysis of twelve cancer related SNPs in esophageal squamous cell carcinoma in the population of Jammu and Kashmir-India. **BMC Cancer**, 2020 Jun 1;20(1):497. **UGC S.No. 5269 Impact factor 4.638**
49. Ruchi Shah, Puja G. Khaitan, Tej K. Pandita, Adnan Rafiq Deepak Abrol, Jyotsna Suri, Sandeep Kaul, **Rakesh Kumar** and Swarkar Sharma; Gastric cancer in Jammu and Kashmir India: A Review of Genetic Perspectives **J Can Res Ther.** 2020- **UGC S.No. 171 Impact Factor:1.9**
1. Souneek Chakraborty, Mir Khalid, **Rakesh Kumar**, Debasis Nayak, Anindya Goswami Integration of EMT and cellular survival instincts in reprogramming of programmed cell death to anastasis **Cancer Metastasis Reviews** (2020) Jun;39(2):553-566- **Impact factor 9.264**
2. Sonali Verma, Divya Bakshi, Varun Sharma, Indu Sharma, Ruchi Shah, Bhanu Sharma, Amrita Bhat, G.R Bhat, Ajay Wakhloo, Jyotsna Suri, Sandeep Kaul, Vijeshwar Verma, **Rakesh Kumar**: Profiling of Newly Identified Genetic Variants at 7p15.3 and 6p21.1 in Ovarian and Breast cancer females of Jammu and Kashmir: A First Report; in **International Journal of Gynecology & Obstetrics** 148 (1), 118-122 Jan 2020- **UGC S.No. 5231 Impact factor 3.56**
3. Souneek Chakraborty, Aviral Kumar, Mir Faheem, Archana Katoch, Anmol Kumar Vijay Jamwal, Debasis Nayak, Aparna Golani, Reyaz Rasool, Mr. Syed Ahmad, Mr. Jedy Jose, **Rakesh Kumar**, Sumit Gandhi, Lekha Kumar Anandiya Goswami. Vimentin activation in early apoptotic cancer cells errands survival pathways during DNA damage inducer CPT treatment in colon carcinoma model. **Nature Cell death and Disease** (2019) 10:467- **Impact factor 8.469**
4. Siddharth Manvati, Kailash Chandra Mangalhara, Ponnuswamy Kalaiarasan, Rupali Chopra, Gaurav Agarwal, **Rakesh Kumar**, Sunil Kumar Saini, Monika Kaushik, Ankita Arora, Usha Kumari, Rameshwar Nath Koul Bamezai, Pawan Kumar Dhar (2019): miR-145 supports cancer cell survival and shows association with DDR genes, methylation pattern, and epithelial to mesenchymal transition. **Cancer Cell International** (2019) 19: 230- **Impact factor 6.429**
5. Gh. Rasool Bhat, Amrita Bhat, Sonali Verma, Itty Sethi, Ruchi Shah, Varun Sharma, Khursheed A Dar, Deepak Abrol, Subiya Kaneez, Sandeep Kaul, Ramesh Ganju, **Rakesh Kumar**. Association of newly identified genetic variant rs2853677 of TERT with Non-small cell lung cancer and Leukemia in population of Jammu and Kashmir, India. **BMC Cancer** (2019) 19:493- **UGC S.No. 5269 Impact factor 4.638**
6. Gh. Rasool Bhat, Amrita Bhat, Sonali Verma, Itty Sethi, Ruchi Shah, Varun Sharma, Minerva, Divya Bakshi, Bhanu Sharma, Sandeep Koul, Deepak Abrol, Audesh Bhat, **Rakesh Kumar**. Genetic variant rs10937405 of TP63 and susceptibility to lung cancer risk in North-Indian population. **Journal of Genetics** (2019) 98:59- **UGC S.No. 191 Impact Factor: 1.508**
7. Amrita Bhat, Ruchi Shah, Sonali Verma, Gh.Rasool Bhat, Varun Sharma, Indu Sharma, Monika Pandita, Divya Bakshi, Bhanu Sharma, Kohsheen Kamal, Jyotsna Suri, Deepak Abrol, Rahul Sharma, **Rakesh Kumar**; Association of ARID5B and IKZF1 variants with Leukemia from Northern India. **Genetic Testing and Molecular Biomarkers**, 2019 Mar;23(3):176-179- **Impact factor 1.736**
8. Sonali Verma, Varun Sharma, Ashna Nagpal, Amrita Bhat, G.R Bhat, Ruchi Shah, Ajay Wakhloo, Jyotsna Suri, Deepak Abrol, Sandeep Koul, Audesh Bhat, Vijeshwar Verma, **Rakesh Kumar**. DNA base excision repair (BER) genes variants rs25487 (XRCC1) and rs1052133 (hOGG1) With susceptibility to ovarian cancer in the population of Jammu Region- India. **J Cancer Res Ther.** 15 (6), 1270-1275. Oct-Dec 2019- **UGC S.No. 171 Impact factor 1.331**
9. Sonali Verma, Ruchi Shah, Gh. Rasool Bhat, Amrita Bhat, Rima Dada, **Rakesh Kumar**. A familial case of 13:22 Chromosomal translocations in a family with reproductive failure. **Balkan Journal of Medical Genetics** 21 (2), 173-78. (2018)- **UGC S.No. 4571 Impact factor 0.81**

10. Ruchi Shah, Sonali Verma, Ghulam Rasool Bhat, Amrita Bhat, Rima Dada, **Rakesh Kumar**. Pericentric Inversion of Chromosome 7 Associated with recurrent ICSI Failure-A case report. **Indian Journal of genetics and plant breeding** 78 (4): 515-518 (2018)- **Impact factor 0.5**
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16. Arun Gupta, Clayton R Hunt, Raj K. Pandita, Juhee Pea, Komal Komal, Mayank Singh, Jerry W. Shay, **Rakesh Kumar**, Walter N. Hittelman, Chandan Guha, Thomas Ludwig and Tej K. Pandita. Targeted deletion of males absent on the first (mMof) in T-cells blocks their differentiation and has a bystander effect on B-cell genomic instability. **Mutagenesis** (2013) May;28(3):263-70- **Impact factor 2.954**
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19. **Rakesh Kumar**, Clayton Hunt, Arun Gupta, Suraj Nannepaga, Raj Pandita, Jerry Shay, Robert Bachoo, Thomas Ludwig, Dennis Burns, Tej Pandita. Purkinje Cell Specific mMof Deletion Results in an Ataxia-Telangiectasia-Like Neurological Phenotype Including Backward Walking in Mice. **Proc Natl Acad Sci USA (PNAS)** 2011 108(9):3636-41 **Impact Factor 11.205**
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36. Dada R, **Kumar R**, Shamsi M B, R Kumar, Sharma R K, Gupta NP, K Kucheria. High incidence of Yq microdeletions in semen is better parameter than blood DNA. **Asian J Androl.**;9:720-2 (2007). **Impact Factor-3.285**
37. **Kumar R**, Bhat A, Bamezai RN, Shamsi MB, Kumar R, Gupta NP, Ammini AC, Aron M, Sharma RK, Dada R. Necessity of nuclear and mitochondrial genome analysis prior to assisted reproductive techniques/intracytoplasmic sperm injection. **Indian J Biochem Biophys.** 44:437-42 (2007). **UGC S.No. 72 Impact Factor 1.918**
38. Dada R, **Kumar R**, Ahmad M E, Kumar R, Sharma RS, Gupta NP, Mitra A, Gupta SK, Kucheria K. Klinefelter Syndrome: Clinical Implications of Expanding Phenotype. **Indian Journal of Practicing Doctors** 3: 01-02 (2007). **Impact Factor---**
39. Shamsi M B, T Mukesh, Dada R, **Kumar R**, Kumar R, Sharma R.K. and Kucheria K. Mosaic Status of Lymphocytes in Infertile Men with Klinefelter Syndrome **Int J Hum Genet**, 2:133-136 (2007)-
UGC S.No. 148 **Impact factor-0.205**
40. Dada R, **Kumar R**, Shamsi M B, Varshney A, Snighdha J, Singh H, Sharma R K Epimutations and genetic aberration adversely affect ART outcome-**Journal of endocrinology and reproduction** 1: 49-51 (2007). **Impact Factor- --4.669**
41. Rima Dada, **Kumar R**, M Bilal Shamsi, Sarabpreet Singh, Col R K Sharma. Implications of Cytogenetic Abnormalities and Azoospermia Factor Microdeletions in Assisted Procreation **Journal of Reproduction & Contraception** 18:1-6 (2007)- **Impact factor -3.051**
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43. Kumar R, Shamsi M B, Singh S, **Kumar R**, Kucheria K, Gupta N P, Dada R. Genetics and Reproductive Failure in Infertile Men with Severe Testiculopathy. Indian Journal of Practising Doctors 3:11-12 (2006).
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47. Kumar R, Dada R, Kiran Kucheria Importance of genetic analysis prior to ICSI. Obs & Gynae Today 11:8,461-463, (2006). **Impact Factor -1.226**
48. Kumar R, Kucheria K, Dada R Occupational environmental factors and male infertility Embryo Talk. 1: 86-99 (2006).
49. Dada R, Kumar R, Jena M, Kucheria K, Chromosomal aberrations and its association with reproductive failure. J. Anat.Soc.India 51: 77 (2005). **Impact Factor-2.921**
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CHAPTERS IN BOOKS:

1. Lahane, G. Trupati Ghatage, Jegadheeswari Venkadakrishnan, Twisha Dube, Dishank Arondekar, **Rakesh Kumar**, Arti Dhar, and Audesh Bhat (2024). **Role of Nanoparticle Formulation for the Combination Delivery of Multiple Antigens**. In: Rehman, S., Al-Suhaimi, E. (eds) Nanotechnology Based Microbicides and Immune Stimulators. Springer, Singapore. https://doi.org/10.1007/978-981-96-0397-8_
2. Amrita Bhat Ruchi Shah, Minerva, Kanak Mahajan, **Rakesh Kumar**: Role of genetic and epigenetic variants in Recurrent pregnancy loss-2025 **Immunogenetics: A Molecular and Clinical Overview, Vol. 3 ; 9780443136177**
3. Amrita Bhat Ruchi Shah, Minerva, Kanak Mahajan, **Rakesh Kumar**: **The current status and future trends in immunotoxicogenomics-Elsevier**
4. Ruchi Shah, Amrita Bhat, Raies Qadri, **Rakesh Kumar**-Immunogenetic mechanisms in the treatment of cancer- **Clinical Applications of Immunogenetics** Elsevier (In Press) ISBN 9780323902502
5. Amrita Bhat, Ruchi Shah and Rakesh Kumar: **Alternative Splicing Diagnostic, Prognostic and Therapeutic Potential in Cancers** CRC Press Taylor and Francis group (In press)
6. Sonali Verma, Gresh Chander, Deepika Bhushan Raina, Ruchi Shah and Rakesh Kumar- Evolution of Cancer Therapies- **Modern Cancer Therapies and Traditional Medicine: An Integrative Approach to Combat Cancers** 2021, 1-23 ISBN (Online): 978-981-4998-66-6. Bentham Science Publishers Limited, Singapore
7. Gresh Chander, Sonali Verma, Ruchi Shah, and Rakesh Kumar- **Conservation of Biodiversity and Freshwater Ecosystems- Biodiversity of Freshwater Ecosystems Threats, Protection, and Management**-Apple academic Press-**Hard ISBN: 9781774910023**, 2021
8. S. Venkatesh, Kumar R., D. Pathak, M.B. Shamsi, M. Tanwar, R. Deecaraman and R. Dada. Role of Environment, Occupational Exposure, LifeStyle and Diet on Free Radical Induced Mitochondrial DNA Damage and Reproductive Failure. Environmental & Occupational Exposures 78-101(2010)- **Publisher:** Daya Publishing House (July 6, 2010) **ISBN-10:** 9788170356462, **ISBN-13:** 978-8170356462

CONFERENCE PAPERS AND PROCEEDINGS CONGRESSES

1. Gh Rasool Bhat, Itty Sethi, Amrita Bhat, Sonali Verma, Ruchi Shah, Deepak Abrol, **Rakesh Kumar**. Identification of XRCC1 variant rs25487 involved in DNA repair pathway as a risk factor for Lung cancer in J&K population. (Accepted in International Journal of Advance research in science and Engineering, ISSN(O) :2319-8354, ISSN(P): 2319-8346) (2018)- Impact **factor1.21**
2. V Sundararajan, Kumar R, MB Shamsi, M Tanwar, M Kumar, D Pathak, **R Kumar**, N P Gupta, S Mukherjee, N Malhotra, TK Das, P Talwar, R K Sharma, and R Dada. Mitochondrial ATPase Gene Mutations Associated with Low Antioxidant Levels in Idiopathic Asthenozoospermic Indian Men. Perspectives in Cytology and Genetics;13: 263-272 (2007).
3. M Tanwar, V Sundararajan, MB Shamsi, M Kumar, D Pathak, **Kumar R**, Kumar R, NP Gupta, P Talwar, RK Sharma and R Dada. Infertility-Yq Micro-deletions and Implications in Assisted procreation. Perspectives in Cytology and Genetics;13: 273-287 (2007).
4. Dada R, **Kumar R**, R S Sharma, Kiran Kucheria. Assisted reproduction and genetics Perspectives in Cytology and Genetics, 12:493-495 (2006).
5. Dada R, **Kumar R**, AC Ammini, Kiran Kucheria. Hematological malignancy and Klinefelters syndrome. Perspectives in Cytology and Genetics 2:497-499 (2006).

Research Experience:

1. Session Chair-Life style changes in women with polycystic ovarian syndrome. International Conference on Emerging Trends in Biosciences and Chemical Technology-3rd-5th December 2022 at SMVDU
2. Co-ordinator-Hands on training Microarray Workshop (22-25th Nov 22)
3. Member DST-FIST PPG
4. Co-Coordinator: DBT-MSc Biotechnology Programme
5. Attended-National Workshop-IIT Guwahati-Environmental Genomics and Genome Editing 23rd-27th 2021
6. Organizing Secretary- World Congress on Reproduction Health with Emphasis on Reproductive Cancers, Infertility and Assisted Reproduction & 30th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility (ISSRF-2020), 14-16th Feb 2020
7. Co-Convenor-International Conference on Applied Biology (ICAB 2019)
8. Chairperson- ICRATET-SMVDU, Katra 16-18th Jan 2020
9. Organized- National Workshop on “Trends in Genomics and Proteomics” on 29th March 2019.
10. Organized-One day Brain Storming Session of Maternal and Child Health, sponsored by JKDST on 12th March 2019.
11. Reviewer-8th Ramalingaswami conclave, NIPGR, New Delhi 14-17 Feb 2018
12. Organized Two-day workshop on “Diagnostic Cytogenetics” 26-27th Feb. 2018, SMVDU
13. Organized Two-day workshop on “Scientific Drawings for Biological Specimens” 20th and 21st Feb, 2018, SMVDU
14. Co-organized two-day Crab-e-Con Thirtya held at Hotel Fortune Sep 9th and 10th 2017.
15. Organizing Committee-JK Medical science Congress, SKICC, Srinagar (10-13th May 2017)
16. Co-convenor-Two days National Symposium on “Recent Trends in Biotechnology and Drug Discovery” on 30th and 31st March 2017 SMVDU, Katra
17. Organizer-One day National Workshop on “Scientific innovation and intellectual property rights” sponsored by Jammu and Kashmir science technology and innovation council on 27th March 2017 at SMVDU, Katra.
18. Organizer-One day National Workshop on “Bio-molecular Visualization and Drug Discovery” sponsored by DBT, Govt. of India” on 17th March 2017 at SMVDU, Katra.
19. Organizing Committee Member-National Science Day 28th Feb 2017, SMVDU, Katra
20. Three Week-Refresher Course on Disaster Management by HRDC, Jammu University 7-29th Dec 2016.
21. Co-organized and Organizing secretary of ONE day Crab-e-Con DWITYA held at Hotel Fortune Sep 3rd 2016.
22. Organizer- Two days workshop on “Genomics, Proteomics and System Biology” on 10th and 11th March 2016

23. Organizer- Two days advance workshop on “Applications of Flow Cytometry in Biomedical Research” was held in SMVDU from 18th -19th Feb 2016
24. Attended two days workshop on IPR at Central University Jammu on 14th and 15th January 2016.
25. Attended Indian international Science Festival-4-7th December 2015, IIT Delhi-Represented J&K State
26. Co-organized and Organizing secretary of two-day Crab-e-Con held at Hotel Fortune 24th-25th October 2015.
27. Attended workshop on “Bioinformatics-Approaches in OMICS Era” dated 10-11 March 2015
28. Attended a Hands-on training workshop “Applications of the Mass array System”, on April 8-10 2015.
29. Organized workshop on modern developments and applications in imaging techniques date- May 26-27, 2015.
30. Organized and attended-Bioinformatics workshop -“Bioinformatics –approaches in OMICS Era” 10-11th March 2015
31. Panel Member-Colloquium-Managing Cancer involving All Stake Holders-Organized by Radiation of Hope-4th Feb 2015, Hotel Fortune, Jammu
32. Bioinformatics workshop organized and attended-Genomics and Proteomics-26-27th March 2014
33. Senior Research Fellow at ICMR/AIIMS in New Delhi, India. (2006-2008)
34. Research Assistant at ICMR/AIIMS in New Delhi, India. (2003-2006)
35. Participated in “Genetics in Obstetrics” symposium as Resource Scientist conducted by DBT (Government of India). (April 7th, 2007)
36. Participated in the fourth Workshop as resource scientist on Prenatal and Postnatal Diagnosis of Genetic Disorders using Molecular Methods. (January 14th-29th, 2006)
37. Participated in the fourth Workshop on Prenatal and Postnatal Diagnosis of Genetic Disorders using Molecular Methods. (January 17th-31st, 2005)
38. Participated in the third Workshop on Prenatal and Postnatal Diagnosis of Genetic Disorders using Molecular Methods. (March 16th-30th, 2004)
39. Summer training at RRL Jammu (Department of Pharmacology), India on “In-vitro Screening of Anti-Cancer drugs and their possible molecular mechanism—Apoptosis.” (June-July 2002)

PRESENTATIONS/INVITED LECTURES:

1. Invited Lecture-MMTTC-**Developing leadership as a researcher in context of higher education in India** 26th June 2025
2. Invited lecture-Role of ANKLE1 in DNA Damage and repair in Breast cancer. **International Breast Cancer Conference 2024**, organized by the **Department of Bioresources, University of Kashmir**, from **October 22 to 24, 2024**.
3. Invited lecture-Genetic patterns among different cancers in Jammu and Kashmir-**JK Science Congress Amar Singh college Sringar** 21-22 October 2024
4. **Invited Lecture-** UGC-Malaviya Mission Teacher Training Centre (MMTTC), University of Kashmir 89th Gurudakshita Faculty Induction Programme on the 18th July 2024.

5. Two extension lectures (in Online mode) in Chronological Genetic Updates 2024 Series-4 on 13th Feb 2024-MDU Rohtak
6. **Invited lecture-** 8th International Conference on Stem Cells and Cancer (ICSCC-2023). AIIMS, New Delhi 20-22nd Dec 2023
7. **Invited Lecture-**Sharda University-New Breast Cancer Hotspot Mutation of ANKLE1 and its direct role in DNA Damage and Repair in Mammalian Cells. International Conference on Recent Trends in Biotechnology and Applied Bioinformatics 27th – 29th April 2023 Venue: Sharda University, Greater Noida, Uttar Pradesh, India
8. Dr. GP Talwar Gold Medal oration award-ISSRF 2023 (23-26th Feb 2023) Ravenshaw University, Cuttak, Orrisa
9. **Invited lecture-**Capacity building programme-18-19th August 22, University of Kashmir
10. **Invited Lecture-**National Conference on Reproductive Health and disease 17th August 22, University of Kashmir
11. **Invited Lecture-**Advances in Molecular diagnostics and precision Medicine (AMDP-2022) in association with Cancercon 2022-15th -17th September 2022-Anna University Chennai
12. **Invited Lecture-**IFS-Paternal Genomics and recurrent Implantation Failure-6th August 2021-Webinar
13. **Invited Lecture-**GDC Anantnag, Jammu and Kashmir, “Inculcating scientific temper and innovation among young minds-Major Challenges ”9th June 21- Webinar
14. **Invited Lecture-**School of Philosophy, SMVDU-“Plagiarism and Scientific Ethics”3rd June 21- Webinar
15. **Invited Lecture-** Department of Genetics-MDU Rohtak-Characterization of novel genomic alterations in Cancer among Indian populations-23rd Feb 21. Webinar
16. **Invited Lecture-**Carrier Point University, Hamirpur, HP Cancer How and Why? Dr. Rakesh Kumar World Cancer Day-4th Feb 2021 Webinar
17. **Invited Lecture-** Mitochondrial Genome and Ultrastructural Defects in Male Infertility, Global Conference on Reproductive Health with Focus on Occupational, Environmental and Lifestyle Factors during 22nd-24th February 2019 at JNU Convention Center, Jawaharlal Nehru University, New Delhi.
18. **Keynote Lecture-** 5th-International Conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET) to be held at Shri Mata Vaishno Devi University, Katra, India from 25-26 October 2018.
19. **Invited Lecture-**Ayurveda and Human Health (SMVDU, Katra, 20th April 2018)
20. **Invited Lecture-** National Seminar on "Recent Trends in Genomics & Metabolomics" on March 17-18th, 2017 at School of Biotechnology, Jammu University, Jammu.
21. **Invited Lecture-**Refresher course on Life Sciences-HRDC Jammu University
22. **Invited lecture-**Crab-e-Con held at Hotel Fortune 24th-25th October 2015
23. **Invited Lecture-**J&K Science Congress-14-16th March 2015, Jammu University
24. **Invited lecture-** International conference future and challenges on computational and integrated sciences, Nov. 7-8 14, Jalandhar, Punjab
25. **Invited Talk-** MOF and histone H4 acetylation at lysine 16 are critical for DNA damage response and double-strand break repair-June 21, 2013,11:00 am. RCB, Gurgaon

26. **Invited lecture**-37th Annual Conference of Environmental Society of India-KIIT University, Bhubaneswar Odisha, 23-26th Feb. 2012
27. **Invited lecture**-Prevention Genetics, Marshfield, Wisconsin, USA 6TH -8TH Feb 2012
28. **Poster presentation** -Dallas Multiplex-day-3rd Feb. 2012
29. **Poster presentation**-DNA Damage response symposium-May 14-15 2011. Toledo, Ohio, USA
30. **Poster presentation** in Neuro-Texas Translational Health Symposium in Austin, Texas, 2nd April 2011
31. **Poster presentation** in PDA symposium, Feb 10-16 2011, UTSW, Dallas, Texas, USA.
32. **Oral presentation** in International free radical satellite meeting (Feb. 11-12, 2008, in New Delhi, India).
33. **Oral presentation** in Andrology Society of India, held at National Institute of Health and Family Welfare, Munirka, New Delhi (Dec. 15-16, 2007).
34. **Oral presentation** in Recent advances and challenges in reproductive health research, from 19-21, February, 2007 (ISSRF-07) organized by ICMR/NIRRH, New Delhi.
35. **Poster presentation** in International Symposium on Human Genomics and Public Health / XXXI Annual Conference of Indian Society of Human Genetics, February 27-March 1, 2006 New Delhi.
36. **Poster presentation** in International Symposium on Stem Cells: Premises & Promises for Research & Therapeutics at Hotel Grand Hyatt, Mumbai, September 18-21, 2005
37. **Attended**-Trends in Molecular and Applied Approaches to Reproduction and the 15th Annual Meeting of the Indian Society for the Study of Reproduction & Fertility. Organized by Indian Institute of Chemical Biology, Kolkata February 4-6, 2005.

Member of Center /Cell

- President-Board of cultural activities (BCA)
- Start up coordinator-Institute Innovation council
- Member-Research Review Committee, SMVDU
- Member-DST FIST Committee for SMVDU
- Co-coordinator DBT-PG Programme
- Nodal officer-MHRD-MGNCRE for SMVDU
- Member Secretary-Institute Ethics and Research Board (2021-24)
- Member Secretary, School Research Committee (2020-21)
- Convenor Biosafety Committee-SoBT-SMVDU-Katra
- Member-External Expert-Biosafety Committee-Central University of Jammu
- Member Secretary, School Research Committee (2018-19) (2020-21)
- Vice-President, Board of Cultural Activities, SMVDU
- Member of Nanotechnology Center-SMVDU, Katra
- Bureau Chief-CRAB (Cancer Research and Analysis Bureau) Matrika, Jammu and Kashmir
- Member Board of Studies, School of Biotechnology
- Coordinator-GATE entrance Committee

Research Training:

- **Assistant Editor-JBMT (2025-2028)**
- Radiation Safety Course (Qualified to use gamma-irradiator).
- Animal handling, breeding, and aseptic surgery.
- Environmental Health & Safety
- Occupational Health
- **Editorial Board Member-JBMT (2023-2026)**
- **Associate Editor-Frontiers in Oncology (2021-23)**

Reviewer

Journal of Human Reproduction	BMC Cancer	Fuels
Journal of Andrology	Journal of Cell Biology	Heliyon
Journal of Molecular Vision	JBMT	Medicina
Andrologia	JHRM	Scientific Report
Journal of Assisted Human Reproduction	Cancer letters	Journal of the Renin-Angiotensin-Aldosterone System.

Memberships:

- American Association of Cancer Research (AACR)
- JK Society of Biologists
- ISSRF

Extracurriculars:

- Chair-Web committee-PDA, UTSW Medical center, Dallas, Texas, USA (2010).
- Hindi Puruskar (Award for penning and reciting poem about Hindi language on Indian national language Day), Hindi Day, AIIMS, India (2005).
- President of Human Genetics Society GNDU. Amritsar, India (2002-2003).
- Treasurer of Human Genetics Society GNDU. Amritsar, India (2001-2002).

Supervision (PhD/MSc/B.Tech)

Ph.D. Research Supervision:	
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S. No.	Name of the Student (s)	Registration Year and Status (Full Time/Part-time)	Title of the Topic	Co-Supervisors (If any)	Remarks	Present Position
1	Dr. Ashna Nagpal	08/2013 PT	Genetic perspective of DNA Damage in breast cancer		Awarded 20/11/20	Postdoc, University of Pittsburg Medical Centre, USA
2	Dr. Sonali Verma	8/14 FT	Genetic Analysis of Ovarian Cancer Patients in Jammu and Kashmir Population	Prof. V. Verma	Awarded (04/09/19)	Scientist C-GMC Jammu
3	Dr. Amrita Bhat	8/14 FT	Advanced molecular analysis of Leukemia in North Indian population.		Awarded (22/09/20)	Scientist-Shri Gangaram Hospital, New Delhi
4	Dr. Gh. Rasool Bhat	8/14 FT	Genetic Characterisation of Non-Small Cell Lung Carcinoma in Patients from Jammu and Kashmir		Awarded (25/09/20)	Post-doctoral Fellow, Department of Genetics, University of Virginia, USA
5	Dr. Divya Bakshi	8/15 FT	Genetic Characterization of DNA Damage In Breast Tumorigenesis	Dr. Samantha Vashnavi.	Awarded 21/10/20	Lecturer (Contract) Degree college for women, University of Jammu
6	Dr. Monika Pandita	8/14 FT	Genome stability regulators, F-Box motif encoding gene	Dr. Rakesh Kumar	Awarded 7/9/22	Assistant Professor (Contract) Institute of Human genetics, University of Jammu
7	Dr. Bhanu Sharma	8/15 FT	Genetic analysis of colorectal carcinoma	Dr. Samantha Vashnavi.	Awarded 18/7/22	Senior Resident AIIMS, Jammu
8.	Ms. Minerva	19DBT006 FT	Genetic and Epigenetic Characterization of Ovarian Carcinoma		Submitted	
9.	Mr. Rajeshwar Singh Jamwal	20/FT	Characterisation of DNA damage associated genes in non-small cell lung cancer		Submitted	SRF-CSIR
10.	Mr. Bhawani Sharma	20/FT	Genetic characterisation of Male Infertility in Jammu & Kashmir		In progress	
11.	Mrs. Pushpa Oraon	22/PT	A comparative study to assess the effectiveness of Emotional intelligence training module versus Progressive relaxation technique and their association to academic performance among nursing		In progress	Assoc. Professor SMVDCoN

			students in selected nursing colleges of Punjab			
12	Mr. Ashish Chaudhary	25/FT	Role of Genetics in NAFLD			
13	Ms. Swati Misri	25/FT	Role of Genetics in NSCLC			
19	Sheen	25/FT		Dr. Rakesh Kumar		

INVESTIGATIONAL/DISSERTATION PROJECT (M.SC & B-TECH BIOTECHNOLOGY) 2013-20

S.No	Title of the Project	Name of the students with entry No.		Name of the supervisor/Co-Supervisor	
		Name	Entry No.	Supervisor/s	Co-Supervisor/s
1	Genetic mutation in genes CALR and JAK2V617F which are responsible for Myeloproliferative Disorders	Sakshi Raina		Dr. Samantha Vaishnavi	Dr. Rakesh Kumar
2	Genetic mutation in genes CALR and JAK2V617F which are responsible for Myeloproliferative Disorders	Ankita Sharma		Dr. Rakesh Kumar	
3	Effect of Pig amniotic fluid as serum substitute in -vitrification solutions and maturation medium on meiotic maturation of dog oocytes	Aman Sharma		Dr. Rakesh Kumar	Dr. B. Samba Siva Rao (CCMB) Hyderabad
4	Characterization of XRCC1 gene in leukemia patients from Jammu and Kashmir population	Vaishali	14MBT19	Dr. Rakesh Kumar	
5	Genetic polymorphism in Base excision repair gene XRCC1 G>A Codon 399(Arg.Gln) in lung cancer patients from ethnic population of J&K -A pilot study	Urvashi Sangotra	14MBT20	Dr. Rakesh Kumar	
6	DNA damage and repair (XRCC1) mutation codon 399Arg.GLn in ovarian cancer patients of Jammu and Kashmir -A pilot study	Sonia Choudhary	14MBT05	Dr. Rakesh Kumar	
7	DNA damage and repair (XRCC1) mutation codon 399Arg.GLn in ovarian cancer patients of Jammu and Kashmir -A pilot study	Nayan Tiwari	2014BIB2	Dr. Rakesh Kumar	
8	Clinical strains of Mycobacterium Tuberculosis	Ms. Pehu Kohli	2013EBT10	Dr. Deepak K Saini/ Dr. Rakesh Kumar	
9	Variations in response regulator interactions due to prevalent mutations found in Clinical strains of Mycobacterium Tuberculosis	Ms. Upasana Gupta	15BIB008	Supervisor: Dr. Deepak K Saini IISc, Bangalore	Dr. Sharada Potukuchi & Dr. Rakesh Kumar
10	Underlying genetic mechanism of Ataxia telangiectasia.	Shilpa Raina	15MBT00	Dr. Rakesh Kumar	Arvind Yadav
11	Genetic polymorphism in nucleotide excision repair gene ERCC2/XPD A>C Codon 751 (Lyn-Gln) and its role in	Sheetal	15MBT022		

	susceptibility to lung cancer patients from ethnic population of J&K A-PILOT STUDY			Dr. Rakesh Kumar	
		Shivam Shukla			
12	Role of Myeloproliferative disorders			Dr. Rakesh Kumar	
13	XRCC1 in Breast Cancer	Ishan Tiwari		Dr. Samantha Vaishnavi	Dr. Rakesh Kumar
				Dr. Rakesh Kumar	
14	Genetic screening of ALS patients from Jammu region	Nipunta	15MBT025		
15	Telomere length variation and its role in lung cancer.	Minerva	16MBT005	Dr. Rakesh Kumar	
16	Gene expression analysis of PdtA and PdtR of two component system in <i>Smegmatis</i>	Kosheen Kamal	14BIB006	Dr. Rakesh Kumar	
17	GTP effect on Human and Rice Translin protein	Ms. Ananya Kher	17MBT002	Dr. Alka Gupta Bhabha Atomic Research Centre, Bombay	Dr. Rakesh Kumar
18	Characterisation of alpha synuclein aggregates	Ms. Dhanishta Sagotra	15BIB011	Dr. Swasti Raychaudhuri CCMB, Hyderabad	Dr. Rakesh Kumar
19	Isolation and Cloning of outer membrane protein in <i>Synechosystis</i> PCC 6803 and its protein characterization"	Ms. Vishali Sharma	17MBT022	Dr. Rachna Agarwal, Bhabha Atomic Research Center, Mumbai	Dr. Rakesh Kumar
20	Bromodomain protein 4(BRD4) Isoforms Regulation by FUS in HeLa Cells. Effect of BRD4 Overexpression on alternative splicing of mini gene CD44 in HeLa cells	Priyanka Anand	17MBT015	Bhabha Atomic Research Center, Mumbai	Dr. Rakesh Kumar
21	The polyphosphate kinase (PPK) from the filamentous cyano bacterium <i>Anabaena</i> PCC 7120: Isolation , over expression and purification. 2.cloning over expression and characterization of Metal binding Domain (MBD) of PIB-Type ATPase in <i>Chryseobacterium</i> sp. Strain PMSZPI	Diksha Devi	17MBT010	Dr. Celin Acharya Bhabha Atomic Research Center, Mumbai	Dr. Rakesh Kumar
22	REV3L gene variants rs1002481, rs462779, and rs465646 lead to increased susceptibility towards non- small cell lung cancer in the population of Jammu and Kashmir	Ms. Nikita Mahajan	18MBT009	Dr. Arvind Kumar Yadav	Dr. Rakesh Kumar
23	REV3L gene variants rs1002481, rs462779, and rs465646 lead to increased susceptibility towards non- small cell lung cancer in the population of Jammu and Kashmir	Mr. Rajeshwar Singh	18MBT013	Dr. Rakesh Kumar	
24	Screening of exonic Variation of DNAH11 gene in ovarian cancer	Ms. Parul Pandita & Ms. Garima Slathia	18MBT012& 18MBT032	SMVDU	Dr. Rakesh Kumar
25	Genetic analysis of rs462779 and rs11153292 of rev3l in leukemia patients from J&K region.	Ms. Anandita Malhotra	16BIB005	SMVDU	Dr. Rakesh Kumar
26	Genetic analysis of rs462779 and rs11153292 of rev3l in leukemia patients from J&K region.	Ms. Hinan	16BIB013	Dr. Arvind Kumar Yadav	Dr. Rakesh Kumar
27	"Potential role of P13KCA gene and variant rs2699887 towards increasing the susceptibility of NSCLC in the Jammu and Kashmir population".	Ms. Sabra Praveen	19MBT019		Dr. Rakesh Kumar
28	To Investigate the Association Between Luteinizing hormone/ Choriogonadotropin receptor (LHCGR) gene polymorphisms and Polycystic Ovary Syndrome	Ms. Preetika	19MBT017		Dr. Rakesh Kumar

29	To Investigate the Association Between Luteinizing hormone/ Choriogonadotropin receptor (LHCGR) gene polymorphisms and Polycystic Ovary Syndrome	Ms. Meenakshi Thakur	19MBT010		Dr. Rakesh Kumar
30	Investigation of correlation between gene variant rs1056836(CYP1B1) and Non-Small Cell Lung cancer incidence in Jammu and Kashmir based population	Mr. Shubham Gupta		Dr. Rakesh Kumar	Dr. Waheeta Hopper, SRM
31	To Evaluate the Association of Genetic Variant rs2242652 of TERT with Non-Small Cell Lung Cancer in Jammu and Kashmir Population.	Ms. Mehak Slathia	(20MBT043)	Dr. Rakesh Kumar	
32	To evaluate the role of ADGRG4 (rs5930932) and maged3 (rs176036) with ovarian cancer in the population of Jammu and Kashmir	Ms. Ziya Tufail	(20MBT028)	Dr. Rakesh Kumar	
33	to evaluate the role of ADGRG4 (rs5930932) and maged3 (rs176036) with ovarian cancer in the population of Jammu and Kashmir	Ms. Vanshika Bhagat	(20MBT031)	Dr. Rakesh Kumar	
34	“To elucidate the genetic reason of polycystic ovarian syndrome among female population of jammu and kashmir”	Kritika sharma	21mbt006	Dr. Rakesh Kumar	
35	“To elucidate the genetic reason of polycystic ovarian syndrome among female population of jammu and kashmir”	Swati	21mbt028	Dr. Rakesh Kumar	
36	“To elucidate the genetic reason of polycystic ovarian syndrome among female population of jammu and kashmir”	Pallvi sharma	21mbt014	Dr. Rakesh Kumar	
37	To Evaluate the Association of Genetic Variant rs4135385 of CTNNB1 with Non-Small Cell Lung Cancer in Jammu and Kashmir Population.”	Mr. Shubhash Chandra Chaurashiya	22mbt029	Dr. Rakesh Kumar	
38	Genomic Exploration of Male Infertility: Investigating H2BFWT In Jammu & Kashmir Population”	Mr. Shahid Khurshid	22mbt022	Dr. Rakesh Kumar	
39	Genetic analysis of CYP11B2 gene (rs1799998) in PCOD females of Jammu and Kashmir.	Shivani	22mbt025	Dr. Rakesh Kumar	
40	“Machine Learning: Artificial Intelligence- driven software for genomic data analysis and cancer risk prediction”	Amook Sharma	20IBO002	Dr. Rakesh Kumar	
41	Genetic characterization of SERPING1 Mutations in Hereditary Angioedema within population of District Reasi, Jammu and Kashmir.	Anshu Sharma	20IBO006	Dr. Rakesh Kumar	
42	Genetic Characterization of Sarcoglycan B Mutations in Limb-Girdle Muscular Dystrophy Patients - A Report from Reasi District of Jammu and Kashmir.	Khushboo Aeja Lone	23MBT005	Dr. Rakesh Kumar	