

RKDF University, Bhopal
Faculty Profile



Basic Information				
Name	DR. MEENAKSHI SAMARTHA			
Date of Birth	31/10/1977			
Designation	Associate Professor			
Department	Faculty of Science			
Experience	12 (Research +Teaching) after Ph.D			
E mail ID	drmeenakshisamartha@gmail.com			
Contact No	9685362966			
EducationalQualifications				
Description	Year	%	Institute/University	
(UG)- B. Sc.	2000	65.2	University of Rajasthan, Jaipur	
(PG)- M. Sc. (Zoology)	2002	67.08	University of Rajasthan, Jaipur	
M. Phil.	-	-	-	
(Ph. D.) Science	2006		University of Rajasthan, Jaipur	
Post Doctorate	2006-2007	-	SRF,CSIR, New Delhi	
NET Qualified/GATE	-	-	-	
Experience Detail				
Experience (Teaching/Research)	Designation	Duration		Name of Institute/University
		From	To	
Research Experience	SRF (CSIR)	01.03.2006	28.02.2007	CSIR , New Delhi
Research	Scientist	17.04.2015	07.05.2015	Global Research and Welfare Society, Bhopal
Teaching +Research	Assistant Professor	09.09.2015	18.11.2024	RKDF University, Bhopal
Teaching +Research	Associate Professor	19.11.2022	Till Date	RKDF University, Bhopal

Publications				
No. of Papers Published (Attach Annexure of papers published in peer-reviewed or refereed journals)		31		
No. of Books Published		01		
Books Chapters Published (Provide print of 1stPage of Book		04		
No. of Patents Published/Grant		-		
Ph. D/M. Phil Project supervised				
ResearchProgram	Awa rd	Under Supervision	Name of Universit y	
Ph.D (Provide detail i.e. name, title etc)	02	1. Ms. Nidhi Singh Studies of some Haematological and Reproductive Parameters on threatened Fish species of upper Lake of Bhopal (2022) 2.Ms. Shazia Bashir Toxic effects and Bioaccumulation of Heavy Metal Zinc on Fresh water Fish (Channapanctatus). (2023)	RKDF Universit y, Bhopal	
M. Phil	-	-	-	
PG Thesis/Dissertation	04	1. Ms. Manisha Kujur (2024) Impact of human activities in Ghasidas National Park. 2. Ms. Shalu Shrivastava (2024) Impact of pollution in wild life on Pench National Park 3. Ms. Deeksha Gupta (2025) Exploration of different birds diversity around van vihar bhopal 4. Ms. Sheeba Khan (2025) Survey of knowledge and practice of mothers regarding care of children with seizure disorder in Betul, MP	RKDF Universit y, Bhopal	

Area of Expertise (100 words)

Life Sciences , (Zoology) specialization in cancer biology,

- **Biochemical estimation in blood and liver (LPO, GSH, SGOT, Protein, Fats and carbohydrates) using spectrophotometer.**
- **Cytogenetic studies: Chromosomal aberrations, Micronuclei preparations.**
- **Handling caring and drug administration to the mice.**
- **Maintaining animal house.**
- **Preparation of plant extract with the help of Soxhlet apparatus.**
- **Tumor models : 1. Two stage mouse skin carcinogenesis
2. Lung tumor model system (Yun's Model)**
- **Various instruments & techniques routinely used in hematological studies like Microscope, Centrifuge, Spectrophotometer, Stain preparations, laminar air flow etc.**
- **Evaluation of antioxidant activity (Radical Scavenging Activity)**

(DPPH and ABTS assays)

- **Blood Culture Techniques**
- **Histopathological Preparations: Tissue fixation, block making, cutting and staining, observations using light microscope and microphotography.**
- **Mushroom Cultivation technique**
- **Biofuel Production through Algae Route using Carbon Capture Pilot Plant**

Award and Achievement

Name of Award	Description (With certified copy award)
National	<ol style="list-style-type: none"> 1. Research Excellence award (September, 2022) RKDF University, Bhopal. 2. Award of Excellence in Education, Research and Innovation (Nov-2022) by Resinnovative Science, MPCST, Vigyan Bhawan, Bhopal (MP)
International	<ol style="list-style-type: none"> 1. YRSA Delegate- Awarded "Young Radiation Scientists in Asia" to participate in the "The 1st Asian Congress of Radiation Research (ACRR)," Hiroshima-Japan (2005). 2. Provided with whole staying expenses by the Symposium Organization (The Korean Society of Ginseng) for the 9th International Symposium of Ginseng, South Korea. 3. Best Paper Award in ICSEEGT-2022, International Conference on sustainable Energy Environment and Green

technologies		
Conference/Seminar/Workshops/FDP		
Description	No.	
Conference/Seminar a p e r presentation	14	
Conference/Seminar attended/ organized	28	
Workshop attended/organized	03	
FDP Attended/organized	03	
Guest Talk	02	
Research Project		
Name of Project	Funding Agencies	Amount
1. Skin carcinogenesis induced by DMBA and Croton oil and its modulation in Swiss albino mice	LOTTO South Korea	Provided with chemo preventive drugs and chemicals
2. Antioxidant , Anticancer and antimutagenic activity of certain phytochemicals	CSIR	Fellowship 12,000/- per month + contingency
3. Seed money for Mushroom Cultivation Technology	Ayushmati Society, Bhopal	2,08835/-
4. Environmental pollution in reference of Kanha Reserve Forest due to tourism, social activities and accidental incidents.	School of interdisciplinary and trans-disciplinary Studies (SOITS), IGNOU, New Delhi.	-
5. Biofuel Production through algae route using carbon captures pilot plant.	MNRE and CPRI	-

Signature

List of Publications

1. **M Panwar**, M Kumar, R Samarth, A Kumar 2005: [Evaluation of chemopreventive action and antimutagenic effect of the standardized Panax ginseng extract, EFLA400, in swiss albino mice](https://onlinelibrary.wiley.com/doi/abs/10.1002/ptr.1584). *Phytotherapy Research* 19 (1), 65-71.
<https://onlinelibrary.wiley.com/doi/abs/10.1002/ptr.1584>
2. **M Panwar**, R Samarth, M Kumar, WJ Yoon, A Kumar 2005: [Inhibition of benzo \(a\) pyrene induced lung adenoma by Panax ginseng extract, EFLA400, in Swiss albino mice](https://doi.org/10.1248/bpb.28.2063). *Biological and Pharmaceutical Bulletin* 28 (11), 2063-2067
<https://doi.org/10.1248/bpb.28.2063>
3. A Kumar, M Kumar, **M Panwar**, RM Samarth, TY Park, MH Park, H Kimura 2006: [Evaluation of chemopreventive action of Ginsenoside Rp1](https://doi.org/10.1002/biof.5520260104). *Biofactors* 26 (1), 29-43.
<https://doi.org/10.1002/biof.5520260104>
4. S Verma, R Samarth, **M Panwar** 2006: [Evaluation of radioprotective effects of Spirulina in swiss albino mice](http://ajesjournal.com/PDFs/06-1/Shekhar%20Verma.pdf). *Asian J ExpSci* 20 (1), 121-126.
<http://ajesjournal.com/PDFs/06-1/Shekhar%20Verma.pdf>
5. RM Samarth, **M Panwar**, M Kumar, A Soni, M Kumar, A Kumar 2008: [Evaluation of antioxidant and radical-scavenging activities of certain radioprotective plant extracts](https://www.academia.edu/7361533/Evaluation_of_antioxidant_and_radical_scavenging_activities_of_certain_radioprotective_plant_extracts). *Food chemistry* 106 (2), 868-873.
https://www.academia.edu/7361533/Evaluation_of_antioxidant_and_radical_scavenging_activities_of_certain_radioprotective_plant_extracts
6. RM Samarth, **M Samartha** 2009: [Protection against Radiation-induced Testicular Damage in Swiss Albino Mice by Menthapiperita \(Linn.\)](https://www.academia.edu/5715903/Protection_against_Radiation_induced_Testicular_Damage_in_Swiss_Albedo_Mice_by_Menthapiperita_Linn). *Basic & clinical pharmacology & toxicology* 104 (4), 329-334.
https://www.academia.edu/5715903/Protection_against_Radiation_induced_Testicular_Damage_in_Swiss_Albedo_Mice_by_Menthapiperita_Linn
7. Kumar Manish, **Panwar Meenakshi**, Samarth Ravindra and Kumar Ashok 2009: Evaluation of radiomodulatory influence of *Tribulusterrestris* root extract against gamma radiation: hematological, biochemical and cytogenetic alterations in Swiss albino mice. *Pharmacologyonline* 1: 1214-1228. <https://pharmacologyonline.silae.it/files/archives/2009/vol1/121.Manish.pdf>
8. Gautam, Vibha; Sharma, Meenakshi; **Panwar Meenakshi**; Gautam, Naveen; Kumar, Ashok; Sharma, I. K.; Gautam, D. C. 2009: Synthetic Methodology, Spectral Elucidation, and Antioxidative Properties of Benzothianes and Their Sulfones. [Phosphorus, Sulfur, and Silicon and the Related Elements](https://www.ingentaconnect.com/content/tandf/gpss/2009/00000184/00000011;jsessionid=244tor515ka5s.x-ic-live-02), 184 (11), 3090-3109.
<https://www.ingentaconnect.com/content/tandf/gpss/2009/00000184/00000011;jsessionid=244tor515ka5s.x-ic-live-02>

9. Ravindra M Samarth, **Meenakshi Samartha**, Yoshihisa Matsumoto 2015: Utilization of cytogenetic biomarkers as a tool for assessment of radiation injury and evaluation of radiomodulatory effects of various medicinal plants-a review. Drug Design, Development and Therapy. 5355-5372. <https://pubmed.ncbi.nlm.nih.gov/26451089/>

10. Ravindra M Samarth, **Meenakshi Samartha** and Yoshihisa Matsumoto 2017: Medicinally important aromatic plants with radioprotection activity. Future Science OA <https://pmc.ncbi.nlm.nih.gov/articles/PMC5674267/>

11. Shazia Bashir, **Meenakshi Samartha**, Insha Showkat and Pragya Shrivastava 2020: Accumulation of Heavy Metals on Fresh Water Fishes. Studies in Indian Place Names .vol 40, issue 74- march 2020, ISSN no 2394-3114.

12. Nidhi Singh and **Meenakshi Samartha** 2021: Determination of Water Standards of Upper Lake, Bhopal, India, Uttar Pradesh Journal of Zoology, 42(7): 75-82

<https://mbimph.com/index.php/UPJOZ/article/view/2056>

13. Pooja Singh and **Meenakshi Samartha** 2021: Seasonal Abundance of Certain Zooplankton In Upper Lake, Bhopal, India, Uttar Pradesh Journal of Zoology, 42, issue17, page 102-108 <https://mbimph.com/index.php/UPJOZ/article/view/2406>

14. Shazia Bashir and **Meenakshi Samartha**2021: A study of Zinc acute toxicity in Lithuania's common freshwater fish, International Research Journal of Science Engineering and Technology , Issue 4, Volume 11, ISSN 2454-3195 (online)

<http://www.rjset.com/abstractview/13609>

15. Nidhi Singh and **Meenakshi Samartha**. 2022: Alteration in Hematological and Biochemical Parameters in Fresh water Catfish *Clarias batrachus* as compared to *Cyprinus Carpio*.International Journal of Fisheries and Aquaculture Sciences.Volume 12,Number 1 (2022), pp. 1-14.ISSN 2248-9975.© International Research Publication House.

http://www.irphouse.com/ijfas22/ijfasv12n1_01.pdf

16. **Meenakshi Samartha**, Ravi Kumar Singh Pippal, vinod Krishan Sethi (2022): Biofuel Production through Algae Routeusing Solar Assisted Carbon Capture Plant, IOP Conference series Earth and Environmental Sciences, 1084012030,10 1088/1755-1315/1084/1/012030, ICSEEGT, Published Scopus indexed IOP Publication.

https://www.researchgate.net/publication/357165037_IOP_Conference_Series_Earth_and_Environmental_Science

17. Shazia Bashir and **Meenakshi Samartha** 2022: Effect of sublethal Concentration of zinc on fresh water fish *Channapunctatus* . International Journal of Entomology Research. Volume 7, issue 9, ISSN: 2455-4758 pg no. 13-19.

<https://www.entomologyjournals.com/assets/archives/2022/vol7issue9/7-7-45-192.pdf>

18. Sethi VK, Sohani SK, Pippal RKS and **Samartha M.** :2023 :Strategies of Installation of a Solar Integrated Carbon Capture and Sequestration (CCS) Plant on a 500MW Size Coal fired Thermal Power Plant in India. TRACE 2022: Recent Developments in Energy and Environmental Engineering pp 351-358

https://www.researchgate.net/publication/371707088_Strategies_of_Installation_of_a_Solar_Integrated_Carbon_Capture_and_Sequestration_CCS_Plant_on_a_500-MW_Size_Coal-Fired_Thermal_Power_Plant_in_India

19. Shazia Bashir and Meenakshi Samartha (2022): A Study on Few Physio-chemical Parameters of Water with Special Reference to Upper Lake of Bhopal, Applied Ecology and Environmental Sciences. Volume 10, 2022 - Issue 11. ISSN (Print): 2328-3912 ISSN (Online): 2328-3920.10(11), 679-684.

<https://www.sciepub.com/AEES/abstract/14826>

20. Ravindra M. Samarth, Devojit Kumar Sarma, vaishaliYadav, **Meenakshi Samartha** and KailashManda (2024): Assessment of Acrocentric Chromosome Association/ Satellite Associations in the human Healthy Conditions and Exposure to Genotoxic Agents: A Comprehensive , Journal of Radiation and Cancer research. Published by Wolters Kluwer- Medknow.

https://www.researchgate.net/publication/383795380_Assessment_of_Acrocentric_Chromosome_Association_Satellite_Associations_in_the_Human_Health_Conditions_and_Exposure_to_Genotoxic_Agents_A_Comprehensive_Review

BOOK CHAPTER: 04

1. Samarth, R. M., **Meenakshi Panwar**, Madhu Kumar and Ashok Kumar (2004): Phytochemicals in Radioprotection: A Review. In “*Herbal Drugs and Biotechnology*”. P. C. Trivedi (ed), Pointer Publishers, Jaipur, India, pp. 79-111.

2. Ashok Kumar, R M Samarth, **Meenakshi Samarth**, Madhu Kumar (2010): Harnessing Medicinal Plants for Cancer Chemoprevention. A Review: in “Herbal Medicine- A Cancer Chemopreventive and Therapeutic Perspective”. Rajesh Arora (Ed), Jaypee Publisher, pp.56-77.

https://www.researchgate.net/publication/233932137_Harnessing_Medicinal_Plants_for_Cancer_Chemoprevention_A_Review

3. Devojit K Sarma, Manoj Kumar, Swasti Shubham, **Meenakshi Samartha**, Pritom Chowdhary and Ravindra Samartha (2021): Utilization of Tea Polyphenols Against Pesticide Induced Toxicity: International and National Scenario. *Frontiers in Bioactive Compounds Vol3* , Chapter 10 Pg 215-232.

https://sciendo.com/2/download/PR8IF~hBsxCdzZB_HfpJo6pGIWG4OZQR4zVLFYMW_I.pdf

5. Nidhi Singh, Shazia Bashir, Pooja Singh, **MeenakshiSamartha**, and MeghaKhare (2023):Coronavirus (COVID-19) Origin: How it Spreads, Their Challenges, and the Way People Deal with Pandemic around the World. Covid-19 Pandemic challenges and Innovation. Published by Innovare Academic Science Pvt Ltd. Pg no 76-91

Book: 01

AnamikaPandey, Avijeet Jain and **Meenakshisamartha**, (2023): edited book on **Covid-19 Pandemic Challenges and it's innovations** , Published by Innovare Academic Science Pvt Ltd, Bhopal

REVIEW ARTICLE: 03

1. Ravindra M. Samarthand **MeenakshiSamarth** (2009): Radioprotective potential of *Menthapiperita* (Linn): Mechanisms and Future perspectives. Review Article. *Radiation Science Today*, January-March, 2009 Issue: 5, Year: 2009, pp5-11.(**eNewsletter: Radiation Science Today**).
https://www.researchgate.net/publication/233944601_Radioprotective_potential_of_Mentha_piperita_Linn_Mechanisms_and_Future_perspectives_Review_Article

2. RavindraSamartha, **MeenakshiSamartha** and YoshihishaMatsumoto (2017): Medicinally important aromatic plants with radioprotective activity. *Future Science OA*, Sep 21;3(4): FSO247. doi: 10.4155/foa-2017-0061.
<https://pubmed.ncbi.nlm.nih.gov/29134131/>

3. Samarth RM, **Samarth M.** and Matsumoto Y. (2015): Utilization of Cytogenetic Biomarkers as Tool for Assessment of Radiation Injury and Evaluation of Radiomodulatory Effects of Various Medicinal Plants- A Review. *Drug Design, Development and Therapy*, 9:5355-72. doi: 10.2147/DDDT.S91299.
<https://pubmed.ncbi.nlm.nih.gov/26451089/>

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS: 04

1. Samarth, R. M., **MeenakshiPanwar**, Madhu Kumar and Ashok Kumar (2005):"Radiomodulatory influence of *Menthapiperita* (Linn) leaf extract on hepatic antioxidant status and lipid peroxidation in Swiss albino mice". Proceedings of Seventh International Symposium of the Society for Radiological Protection, Cardiff, UK, pp. 344-349.
https://www.researchgate.net/publication/259470078_Radiomodulatory_influence_of_Mentha_piperita_Linn_leaf_extract_on_hepatic_antioxidant_status_and_lipid_peroxidation_in_Swiss_albino_mice

2. Samarth, R. M., **Panwar, M.**, Kumar, M., Yoon, Y.J., Kumar, A. and Park, M.H. (2006): “Chemopreventive action and antimutagenic effect of Panax ginseng in Swiss albino mice induced by benzo(a)pyrene in newborn mice” . Proceedings of The 9th International Symposium on Ginseng, Geumsan, Korea, pp. 355-369.
 3. Ashok Kumar, Madhu Kumar, **MeenakshiPanwar**, Samarth, R. M., Tae Yoon Park, Myung Hwan Park, TokioTerado and Hiroshi Kimura (2006): “Evaluation of anticancer action of ginsenoside Rp1 and its molecular mechanisms”. Proceedings of The 9th International Symposium on Ginseng, Geumsan, Korea, pp. 370-389.
 4. Vinod Krishna Seth and **MeenakshiSamartha** (2024): Solar Integrated Post Combustion Carbon Capture (PCCC) Plant on a mega size Thermal Power plant towards Mitigation of Climate Change. Annual International Congress on Renewable Energy, September 3-5 2024, Oxford, United Kingdom.
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PAPERS PRESENTED IN INTERNATIONAL CONFERENCES: 12

1. Ashok Kumar, Madhu Kumar, **Meenakshi Panwar**, Ravindra Samarth, TokioTerado, Hiroshi Kimura and Myung Hwan Park (2003): Evaluation of Chemopreventive Action of Ginsenoside Rp1. In **'International Joint Meeting on Food Factors and Free Radicals in Health & Disease' FFFR2003, December 4-7, 2003, Kyoto, Japan**, P21, pp. 102.
2. **Meenakshi Panwar**, Madhu Kumar, Ravindra Samarth and Ashok Kumar (2005): Evaluation of chemopreventive and antimutagenic effect of the standardized Panax ginseng extract EFLA 400, in Swiss albino mice. **'International Conference on Antioxidants & Free Radicals in Health-Nutrition & Radio-protectors' and IV Annual Conference of the Society for Free Radical Research in India (SFFR)**, January 10-12, 2005, Bangalore, India. P171, pp.158.
3. R M Samarth and Meenakshi Panwar : "Radiomodulatory influence of *Mentha piperita* (Linn) leaf extract on hepatic antioxidant status and lipid peroxidation in Swiss albino mice" Seventh **International Symposium of the Society for Radiological Protection: Change and Continuity in Radiation Protection' June 12-17, 2005, Cardiff, UK.**
4. **Meenakshi Panwar**, Shilpi Sharma, Madhu Kumar, Ravindra Samarth and Ashok Kumar (2005): Interaction of Lead and Radiation in Swiss albino mice: teratogenic effects. In **proceedings of The 48th Meeting of The Japan Radiation Research Society, The 1st Asian Congress of Radiation Research, November 15-17, 2005, Hiroshima, Japan**, P-B-042 ACRR, pp. 159.
5. Ravindra M Samarth, **Meenakshi Panwar**, Sameena Yasmeen, Madhu Kumar and Ashok Kumar (2005): Evaluation of radical scavenging activity and radiomodulatory influence of *Menthapiperita* (Linn) leaf extract on hepatic antioxidant status and lipid peroxidation in Swiss albino mice. In **proceedings of The 48th Meeting of The Japan Radiation Research Society, The 1st Asian Congress of Radiation Research, November 15-17, 2005, Hiroshima, Japan**, P-B-080 ACRR, pp. 167.
6. Samarth, R. M., **Panwar, M.**, Kumar, M., Yoon, Y.J., Kumar, A. and Park, M.H. (2006): "Chemopreventive action and antimutagenic effect of Panax ginseng in Swiss albino mice induced by benzo(a)pyrene in newborn mice" . The 9th International Symposium on Ginseng, pp. 46.
7. Ashok Kumar, Madhu Kumar, **Meenakshi Panwar**, Samarth, R. M., Tae YoonPark, Myung Hwan Park, TokioTerado and Hiroshi Kimura (2006): "Evaluation of anticancer action of ginsenoside Rp1 and its molecular mechanisms". The 9th International Symposium on Ginseng, pp. 48.
8. **Panwar, M.**, Samarth, R. M., Kumar, M. and Kumar, A. (2006): "Inhibitory effects of Panax ginseng extract against 7, 12-dimethyl benz(a)anthracene induced skin papillomagenesis, mutagenesis and oxidative stress in Swiss albino mice" The 9th International Symposium on Ginseng, pp. 118-119.
9. **Samartha Meenakshi**, Samarth RM, Kumar M, Kumar A (2009): Chemo modulatory effects of panax ginseng against 7, 12 – Dimethyl Benz (a) Anthracene in Swiss albino mice: Skin Papilloma genesis, genotoxicity and oxidative stress
10. **Samartha Meenakshi**, Manpreet Kaur, kavita Singh, Megha Khare and CBS Dangi (2015): Indian Medicinal plants for cancer chemoprevention, Global Cancer Summit-2015, Nov 18th-20th, Bangalore.
11. **Samartha Meenakshi, Ravi kumarsingh Pippal and Vinod Krishna sethi, ICSEEGT-2022, International Conference on sustainable Energy Environment and Green technologies,**

Title: “Biofuel Production through Algae Route using Solar Assisted Carbon Capture Plant”

Organized by Poornima college of Engineering, Jaipur 24-25th June 2022.

12. Vinod Krishna Seth and **Meenakshi Samartha** (2024): Solar Integrated Post Combustion Carbon Capture (PCCC) Plant on a mega size Thermal Power plant towards Mitigation of Climate Change. Annual International Congress on Renewable Energy, September 3-5 2024, Oxford, United Kingdom. (Online)

PAPERS PRESENTED IN NATIONAL CONFERENCES: 08

1. **Meenakshi Panwar**, Madhu Kumar, Ravindra Samarth and Ashok Kumar (2004): Evaluation of chemopreventive action of *Panax ginseng* in Swiss albino mice. In **‘National Conference on Recent Trends in Radiation Biology and Cancer Research NCRTRBCR, 17-19 October 2004, Bikaner, India**, pp.56.
2. **M. Panwar**, R. Samarth, M. Kumar and A. Kumar (2005): Modulatory Effects of *Panax ginseng* against 7,12- dimethyl benz (a) anthracene on skin papillomagenesis, genotoxicity and oxidative stress in mice. **Journal of Cell and Tissue Research.5(3): 11 (O19)**. 7th Annual Conference of Society of Science and Environment, Department of Zoology Mohan Lal Sukhadia University, Udaipur (RAJ).
3. R. M. Samarth, **M. Panwar**, M. Kumar and A. Kumar (2005): Evaluation of radical scavenging activity and radioprotective influence of *Menthapiperita* (Linn) against gamma radiation in Swiss albino mice. **Journal of Cell and Tissue Research.5(3): 12 (O23)**.
4. R. M. Samarth, **M. Panwar**, M. Kumar and A. Kumar (2005): Protective effects of *Menthapiperita* on lung tumor incidence, genotoxicity and oxidative stress in benzo(a)pyrene treated mice. **Journal of Cell and Tissue Research.5(3): 36 (P-35)**.
5. Ravindra M Samarth, **Meenakshi Samarth** and Yoshihisa Matsumoto (2017): Role of certain medicinally important aromatic plants in radioprotection. National Seminar on Cancer prevention and treatment strategies. Dec 22-23, Jaipur.
6. Shazia Bashir and **Meenakshi Samartha** (2020): Heavy metal pollution and their toxic effects on fresh water fish. National Conference on “Emerging trends and innovations in sciences”. Jan 28, 2020, Bhopal.
7. Nidhi Singh, Poojasingh and **Meenakshi Samartha** (2020): General Survey on Reproductive Biology Of Threatened Ichthyofauna of upper lake. National Conference on “Emerging trends and innovations in sciences”. Jan 28, 2020, Bhopal.
8. Pooja Singh, nidhi Singh and **Meenakshi Samartha** (2020): General Impact of Zooplankton on the Water Body Of Upper Lake. National Conference on “Emerging trends and innovations in sciences”. Jan 28, 2020, Bhopal.

Other Conferences/ workshop/Seminar attended/participated (National and international): 19

1. 23rd Annual Conference of Association of Medical Physicists of India (AMPI) on **Medical Physics & Radiation safety**, SMS Medical College & Hospital, Jaipur, 15-17th November 2002.

2. National Seminar **on application of Nuclear Techniques** in Science Teaching (Sponsored by the (UGC), University Maharaja's College , Jaipur, 28th -29thSeptember, 2002.
3. *National Conference on Recent Trends in Radiation Biology and Cancer Research NCRTRBCR*, 17-19 October 2004.
4. *International Conference on Antioxidants & Free Radicals in Health-Nutrition & Radioprotectors' and IV Annual Conference of the Society for Free Radical Research in India (SFFR)*, January 10-12, 2005, Bangalore, India.
5. **The 1st Asian Congress of Radiation Research, November 15-17, 2005, Hiroshima, Japan**
6. **7th Annual Conference of Society of Science and Environment**, Department of Zoology Mohan Lal Sukhadia University, Udaipur (RAJ). 17-18th September 2005.
7. Diamond Jubilee Celebration, Centre for Advanced studies, Department of Zoology, University of Rajasthan, Jaipur, National Symposium on **AIDS-Awareness and Prevention Strategies** December 1st 2006.
8. National Symposium on **Cancer: Diagnosis, Awareness & Treatment**, Centre for Advanced Studies, Department of Zoology, University of Rajasthan, Jaipur, 24th February 2007.
9. International Conference on **"Free Radicals & Natural Products in Health"** (FRPH-2008) and 7th Annual Meeting of the Society of Free Radical Research, India, Department of zoology University of Rajasthan, Jaipur, 14th to 16th February, 2008
10. Seminar on **Radiation Hazards and Protection SRHP**, SMS Medical College and Hospital, Jaipur 15th and 16th March 2008.
11. Hands-on practical training in Symposium on **'New Frontiers in Translational Biotechnology** sponsored by Madhya Pradesh Biotechnology council, Bhopal and organized by Department of Research Bhopal Memorial Hospital and Research Center, Bhopal 24th September to 26th September 2013
12. International Conference on **Fight Against Cancer (FACCON)** , 5th to 7th October Chatrapati Shahu Ji Maharaj University, Kanpur India. Participated as **Programme Director of the scientific session** on October 7, 2017.
13. National Seminar on **cancer prevention and treatment strategies**, organized by Department of Zoology, Centre for advanced studies, University Of Rajasthan, Jaipur and International Society for life sciences (ISLS), December 22 to 23.2017
14. Symposium on **"Awareness and Preparedness for Radiation Disaster"** conducted by Department of Research, Bhopal Memorial Hospital and Research center, 6th July.2019
15. National Symposium on: **"Cyber Security and challenges in Digital Economy"**, Faculty Of law RKDF University, Bhopal 25th December 2019.
16. National Conference on **"Emerging trends and innovations in sciences"**. Jan 28, 2020, Bhopal.
17. **Resinnovative 2: National Conference on Emerging Trends and Innovations in Applied and Pharmaceutical Sciences organized by scan Research Laboratories and Research Innovation Foundation** , Bhopal on 13th Nov 2022 at MPCST, vigyanBhawan, Bhopal, India
18. **5th Asian Congress of Radiatiuon Research (ACRR)& 3rd Biennial Meeting of Society for Radiation Research (SRR)** organized by Bio-Science Group, Bhabha Atomic Research Centre,

Mumbai, India in association with SRR- **India and Asian Association for Radiation Research (AARR) at DAE Convention Centre** , Anushaktinagar , Mumbai , November 17-20,2022.

19. Hands-on Workshop on **Systematic Review and Meta-analysis under SARANSH** (Systematic Reviews and Networking Support in Health) **12th- 16th November, 2024**.

Faculty Development Program: 03

1. **One Week Online Faculty Development Program on Biosafety, Bioethics and IPR** organized by the Department Of Microbiology, Ram Lal Anand College from 24th to 28th August, 2020 under the DBT star college scheme.

2. **Faculty Development Program (FDP, one week)**, Attended online on Implementation of NEP 2020 in higher Education. Feb 17th – 22nd, 2022, organized by RKDF University, Bhopal.

3. **Faculty Development Program (FDP, one week):** 24th- 28th February 2025 organized by Faculty of Agriculture , RKDF University, Bhopal on Nutrition and Organic Kitchen Gardens for Nutrition Development and Management.

Webinars: 07

1. Webinar on the **Response of the DBT's Autonomous Institutes to Covid-19 - Part 1**, August 21st 2020

2. DBT webinar on **showcasing Demonstrated Waste-To-Value Technologies**, October 1st 2020

3. Webinar on the **Response of the DBT's Autonomous Institutes to Covid-19 – Part-3**, October 15 2020

4. Webinar on **the Response of the DBT's Autonomous Institutes to Covid-19 – Part-4**, November 19th 2020

5. Online webinar titled **“The amazing Migratory Journeys of Butterflies”** Organized by Department of Zoology, Stella Maris College Chennai (Tamil Nadu) on 26th September 2020.

6. One- day Workshop on **“Technological Advancements and Challenges of Radiation based Techniques in Diagnosis and Therapy of Cancer”** event jointly organized by VidyalkarInstitute of Technology, Mumbai and Society for Radiation Research (SRR, India) 20th March 2021.

7. International Conference on Environment and Human Health organized by Department of zoology M.S.J.Govt. P.G. College, Bharatpur, rajasthan, India (In association with NASI & IFB). !1-12 March 2022.

Other Activities and Awards

1. **Research Excellence Award** on the basis of recommendation of Board of management of RKDF University on 05/09/2022 (Teacher's Day).

2. **Award of Excellence in Education ,Research and Innovations** at the Resinnovative 2: National Conference on Emerging Trends and Innovations in Applied and Pharmaceutical Sciences organized by scan Research Laboratories and Research Innovation Foundation , Bhopal on 13th Nov 2022 at MPCST, vigyanBhawan, Bhopal, India.

3. **Guest Speaker** for one day International Webinar on “**Impact of Pandemic on Agri Education and Research**” organized by School of Agriculture, Eklavya University, Damoh (M.P.) on 15th July, 2021. Topic of guest talk :**Impact of Covid-19 on Research work .**
4. **Guest Speaker** in 16th India-Japan Bilateral Virtual Conference (BICON-2021) on “**Recreating Higher Education in the Post-Pandemic World**” to be organized from 14th December 2021 to 18th December 2021. Topic: “**Virtual Laboratory Work and Its Challenges after COVID 19**”.
5. Appointed as **External Examiner for pre PhD thesis submission.** in Department of Life Science at Rabindranath Tagore University, Bhopal 14th July 2022.
6. **External Examiner for course M.Sc. 4th sem, Zoology, University Examination (Viva-Voce) of Fresh Water Fish Culture, 29/8/20** in Department of Life Science at Rabindranath Tagore University, Bhopal
7. **External examiner for MSc. Course of Agronomy, Barkatullah University , Bhopal**
8. Appointed as **External Examiner for MSc.Zoology and BSc.Zoology at SAM Global university, Bhopal** on 01/08/2022

9. **External Examiner for Final Viva Voce of PhD thesis submitted by Ms. Anjali Bhargawa enrollment no: AU172265.** in Department of Life Science at Rabindranath Tagore University, Bhopal 22nd December 2022.

10. Thesis evaluated PhD scholar of **Sant Gadge Baba Amravati University** entitled **Ecology and Diversity of Beetles in Pench, Maharashtra.**September 2024.

11. Thesis evaluated PhD scholar of School of Basic and Applied Sciences **Nirwan University, Jaipur, Rajasthan** entitled “**Study on physical properties of Ayurvedic Nanocrystalline bhasma by employing modern scientific tools and approach for cancer treatment**” February 2025