



Neelam Yadav (Ph.D)

Assistant Professor (Raman Fellow, UGC)

Department of Biochemistry

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Employment/Position:

- **Assistant Professor** : Dept of Biochemistry, **Dr. R.M.L. Avadh University, Faizabad** (Since January 11, 2010 to till date)
- **Visiting Scientist**: **Albert Einstein College of Medicine, New York, USA** under Raman Fellowship Programme of **UGC, New Delhi** (Jan 08, 2014- Jan 05, 2015)
- **Post Doctoral Fellow** : Stem Cell Biology Lab, **National institute of Immunology, New Delhi, INDIA** (2005-2009)

Recipient of full Scholarship/Fellowship/Awards:

1. **Awarded Gold Medal** in M.Sc. Biochemistry (1998)
2. **UGC Awarded Raman Post doctoral Fellowship Award** (2013-2014) for USA visit for one year
3. **DST Awarded International Travel Grant (2011)** for attending Conference in Philadelphia, USA
4. **Travel Award for International Congress of Cell Biology Jan 27-31, 2018 at CCMB , Hyderabad**
5. **Indian Council of Medical Research & CSIR Scholarship**, New Delhi, INDIA
6. **National Eligibility Test (NET)** New Delhi, INDIA
7. **Department of Biotechnology, (DBT) Research Associate fellowship** (2005-2009)

8. **Best Achiever Award 2018 for outstanding contribution in the field of Academics , Dr. RML Avadh University, Faizabad**
9. **Best Oral presentation Award in International Conference on Sustainable Agriculture Production for Food, Nutritional and Livelihood Security: Challenges for Asian Farmers (Sept 25-27, 2019) at Pattaya, Thailand.**
10. **Invited Expert in Selection committee of Kishor Vaigyanic Protshan Yojana (KVPY 2019) , National Fellowship of Department of Science and Technology (DST), Government of India (February 13-15, 2019) at Allahabad.**
11. **Invited Expert in Selection committee of Kishor Vaigyanic Protshan Yojana (KVPY 2019) , National Fellowship of Department of Science and Technology (DST), Government of India (January 20-22, 2020) at Allahabad.**

Academic Qualifications:

Post doctoral in DBT project entitled “Mechanistic analysis for transdifferentiation of hematopoietic cells in to hepatocytes in hemophilia A mice model” **(Dec 2005 to Dec 2009) at National institute of Immunology, New Delhi (INDIA)**

- ❖ **Ph. D** thesis titled “Effect of *Picrorhiza kurroa* on cadmium induced hepato- and renal toxicity”, from **Indian Institute of Toxicology Research (CSIR Lab), Lucknow**, (Reg. Dr. R.M.L. Avadh University, Faizabad), **INDIA (2005)**
- ❖ **M.Sc. (Biochemistry)** **(Awarded Gold Medal)** from **Dr. R. M. L. Avadh University, Faizabad, INDIA (1998)**
- ❖ **B.Sc. (Zoology, Botany and Chemistry)** from **Allahabad University, INDIA (1996)**

Research interest & specialization

Stem Cell Biology & Regenerative Medicine:

Adult stem cell plasticity, liver regeneration by bone marrow-derived cells, Liver Cell Therapy, Biochemistry, Cell biology & Immunology, Toxicology, Molecular Biology, Protein Chemistry & Enzymology.

Patent:

- ❖ **Patent: USA** US 2011/0150843 A1

Pub. Date: Jun. 23, 2011, Patent Provisional # 61/280, 188 (30/10/2009)

METHOD FOR THE THERAPEUTIC CORRECTION OF HEMOPHILIA A BY TRANSPLANTING BONE MARROW CELLS

Life member:

1. Life Member from Aug 2010 Stem Cell Research Forum of India, Bangalore Society No. BLU-S125-2006-07 & PAN No. AAGTS3148D
2. Life Member of Society of Biological Chemist India, Bangalore Society Life Membership No. is 2491
3. Life Member of Indian Society of Cell Biology, Membership No. 2016040
4. Life Member of Society for Regenerative Medicine, New Delhi, India
5. Life Member Indian Society of Chemists and Biologists, Lucknow, India Life Membership No. is 903/18

Honours & Awards:

Invited Speaker in International Conferences:

1. International Conference & Exhibition on Cell Science and Stem Cell Research 29th Nov-1st Dec 2011 **Philadelphia, USA**
2. International Conference on Stem Cells and Cancer (ICSCC-2010) 11th to 14th December 2010, **Pune, INDIA**
3. 2nd World Congress on Biotechnology, 29th Nov-1st Dec 2011, **Philadelphia USA**
4. 3rd World Congress on Biotechnology, 13th- 15th Sept 2012, **Hyderabad, INDIA**
5. **3rd World Congress Cell Science & Stem Cell Research-2013** (20th Nov to 22nd Nov 2013) **Baltimore, USA.**
6. 3rd International Conference & Exhibition on Cell and Gene Therapy Oct 27- 29, **2014 Las Vegas, USA**
7. International Conference on Trends in Biochemical and Biomedical Research: Advances and Challenges (TBBR) **February 13-15, 2018 at Banaras Hindu University, Varanasi**
8. International Conference on Cell Death in Cancer and Toxicology (CDCT 2018) **February 20-22, 2018 at CSIR- Indian Institute of Toxicology Research, Lucknow.**
9. **Biosangam 2018:** An International Conference on Innovation & Translational Dimensions: Food, Health & Environmental Biotechnology to be held from

March 09-11, 2018 at Motilal Nehru National Institute of Technology (MNNIT), Allahabad.

- 10. National Conference on “Role of Modern Biological Sciences For Enhancing Farmer’s Economy & Welfare of The Society” November 12th -13th , 2018 at Ranvir Rananjay Post Graduate College Amethi (UP) India**
- 11. Organizing Secretary of National Conference on Interdisciplinary Advancement in Biochemistry (NCIAB- 2019) March 28th -29th, 2019 at R.M.L. Avadh University, Faizabad.**
- 12. International Conference on Sustainable Agriculture Production for Food, Nutritional and Livelihood Security: Challenges for Asian Farmers (Sept 25-27, 2019) at Pattaya, Thailand.**
- 13. In 8th International Translational Cancer Research Conference** at the Banaras Hindu University, Varanasi, India from **February 13-16, 2020.**
- 14. Biosangam 2020: “International Conference on Biotechnological Interventions for Societal Development, February 21-23, 2020 at Motilal Nehru National Institute of Technology (MNNIT), Allahabad.**

Administrative Experience:

- **Superintendent** of A.B.H. Girls Hostel, Dr. R.M.L. Avadh University, Faizabad (15.05.2015 to 07.8.19).
- **Superintendent** of A.N.D. Girls Hostel, Dr. R.M.L. Avadh University, Faizabad (08.8.19 to till date).
- **Assistant Dean of Student Welfare**, Dr. R.M.L. Avadh University, Faizabad.
- **Member of Board of Studies , Department of Biochemistry**, Dr. R.M.L. Avadh University, Faizabad
- **Member of Prevention of Sexual Haressment Cell** Dr. R.M.L. Avadh University, Faizabad
- **Member of Anti ragging committee ,** Dr. R.M.L. Avadh University, Faizabad

- **Observer** in various Dr. R.M.L. Avadh University, Faizabad Entrance Examinations (B. Ed., L.L.B. & PhD).

Research project Undertaken

1. **TITLE OF PROJECT:** CELL THERAPY FOR GENETIC DISEASES OF LIVER/HEMOPHILIA A FUNDING AGENCY: UNIVERSITY GRANT COMMISSION (UGC), NEW DELHI PERIOD: JAN 08, 2014 TO JAN 05, 2015 AMOUNT OF FUNDING: **25, 05,200/-**(RS. TWENTY FIVE LAKH FIVE THOUSAND TWO HUNDRED ONLY)
2. **TITLE OF PROJECT:**“MECHANISTIC ANALYSIS FOR TRANSDIFFERENTIATION OF HEMATOPOIETIC CELLS IN TO HEPATOCYTES IN HEMOPHILIA A MICE MODEL” 27/12/2005 to 29/12/2009

Workshop /Symposium/ Refersher courses attended

1. **Indo-US Symposium & Workshop on Application of Flow-Cytometry** in Clinical Research 8th to 12th October, 2011 at **Punjab University, Chandigarh**
2. **Workshop on Bioinformatics: Tools, Techniques and Applications** February 11- 12, 2012 at **Lucknow University, Lucknow**
3. **UGC sponsored Refresher Course with Grade “A”** in Biochemistry/ Chemistry/ Biotechnology/ Environmental science held at **University of Lucknow** from **February 02-23, 2015**.
4. **UGC sponsored Orientation Programme with Grade “A”** held at **University of Lucknow** from **February 16 to March 15, 2013**.
5. **Workshop on Flow Cytometry: Application in Research, Diagnostics and Health Care Innovation** December 15-21, 2015 at **MNNIT, Allahabad**.
6. **Three days Workshop on “Gene Cloning & Its Expression , to Produce Genetically Modified Organisms”** organized from 23rd to 25th October 2017, at the Department of Biochemistry, **Dr. R. L. Avadh University Faizabad** in association with **CytoGene Research & Development, Lucknow**.

7. **UGC sponsored Refresher Course with Grade “A” in Research Methodology December 1st – 22nd 2017 held at University of Lucknow.**
8. **One week Faculty development Program (FDP) on Environment Sustainability and Higher Education from June 04th to 11, 2018 organized by Internal Quality Assurance Cell (IQAC) & Faculty of Science at Dayal Singh College, University of Delhi .**
9. **One week Faculty development Program (FDP) on Internet of Things (IOT 2019) March 10-14, 2019 organized by Department of Information Technology, Institute of Engineering & Technology, Dr. R. L. Avadh University, Faizabad**
10. **One- Day Workshop on NAAC Awareness Programme (NAP) For Assessment & Accreditation Under Revised Accreditation Framework (RAF) March 14, 2019 at Dr. R. L. Avadh University, Faizabad**
11. **One week National Workshop on Research Methodology May 20-26, 2019 organized by Internal Quality Assurance Cell (IQAC) Dr. R. L. Avadh University, Faizabad in collaboration with Research for Resurgence Foundation (RFRF), Nagpur.**
12. **One week Workshop on MOOC, E-Content Development and Open Educational Resources July 12-18, 2019 at CPDHE (UGC HRDC) University of Delhi.**
13. **One week National Workshop on Molecular Analysis and its Application Sept 03 -09, 2019 organized by Department of Microbiology, Dr. R. L. Avadh University, Faizabad**
14. **One week Department of Science & Technology (DST) sponsored programme on “Integrated Scientific Project Management for Women Scientists and Technologists” to be held from January 06-10, 2020 at Hyderabad**
15. **One week faculty development programme on Environmental Impacts of Covid-19 Pandemic: Challenges and future Research May 27 – June 01, 2020 organized by Guru Gobind Singh Indraprastha University, New Delhi**

16. One week faculty development programme on ICT Learning and E- Content Development, July 20-26, organized by Dr. R. L. Avadh University, Faizabad
17. One week faculty development programme on E – Content creation for MOOCs and Moodles July 10-15, 2020 organized by Dr. R. L. Avadh University, Faizabad in collaboration with Spoken Tutorial IIT Bombay.
18. One week faculty development programme on Managing online classes and Co creating MOOCs 3.0 July25- Aug 10, 2020 organized by University of Delhi.

List of Publications

1. **Neelam Yadav**, Fadi Luc Jaber, Yogeshwar Sharma , Priya Gupta, Preeti Viswanathan and Sanjeev Gupta. Efficient reconstitution of hepatic microvasculature by endothelin receptor antagonism in liver sinusoidal endothelial cells. **Human Gene Therapy (2019) 30, 365-375. (Impact Factor 4.27)**
2. **N. Yadav**, S. K., T.K. Das and A. Mukhopadhyay “ Factor VIII can be synthesized in Hemophila A mice liver by bone marrow progenitor cell- derived hepatocytes and sinusoidal endothelial cells. **Stem Cell & Development (2012) 21,110-120 (Impact Factor 4.79)**
3. **N. Yadav** , S. K, S Kumar, R Saxena and A. Mukhopadhyay "Therapeutic effect of bone marrow-derived liver cells in phenotypic correction of murine hemophilia A." **Blood (2009) 114, 4552-4561 (This paper has been nominated for Royan International Research Award (2010)Tehran (Iran) (Impact Factor 16.56)**
4. **N. Yadav** , S. Rao and A. Mukhopadhyay "Transplanted bone marrow cells contribute in regeneration of HgCl₂- induced damaged tubular epithelium." **Ind J Med Res (2012)136,112-121 (Impact Factor 2.061)**
5. **N. Yadav** and S. Khandelwal “Therapeutic Efficacy of Picroliv in Chronic Cadmium Toxicity.” **Food & Chemical Toxicology (2009) 47, 871-879. (Impact Factor 3.8)**

6. **N. Yadav** and S. Khandelwal “Effect of Picroliv on Cadmium Induced Testicular Damage in Rat.” **Food and Chemical Toxicology** (2008) 46, 494-501
(Impact Factor 3.8)
7. **N. Yadav** and S. Khandelwal “Effect of Picroliv on Cadmium Induced Hepatic and Renal Damage in Rat”. **Human and Experimental Toxicology** (2006) 25, 581-591
(Impact Factor 2.17)
8. **N. Yadav** , R.K.S. Dogra, M.Y. Khan and S. Khandelwal “ Prevention of Acute Cadmium Toxicity by Picroliv”. **Human and Experimental Toxicology**(2005)24,529-536
(Impact Factor 2.17)
9. **N. Yadav** and S. Khandelwal “ Ameliorative Potential of Turmeric (*Curcuma longa*) against Cadmium Induced Hepatotoxicity in Mice. **Toxicology International** (2005) 12, 119-124 (Impact Factor 0.72)
10. **N. Yadav** Transplantation of Bone Marrow Stem Cell: A Promising Cell Therapy for Hemophilia A Disease (2016). News letter Volume 35:2 Sept 2016 Indian Society of Cell Biology (Regd) ISSN 2349:8307
11. Kochat, V.; Kanjirakkuzhiyil, S.; Baligar, P.; **Yadav, N.**; Nagarajan, P.; Mukhopadhyay, A. Peripheral Tolerance Allows Transdifferentiation of Allogenic Bone Marrow Cells into Liver Parenchyma/Mesenchyma Cells for Phenotype Correction of Hemophilia A Mouse. Cell Journal (Yakhteh) . Summer 2013 Supplement 1, Vol. 15 Issue Sup 1, p53-54.

Book Chapter Invited by Springer publishers

1. **Neelam Yadav*** “PHENOTYPIC CORRECTION OF MURINE HEMOPHILIA A USING CELL-BASED THERAPY” In: **Stem Cells & Cancer Stem Cell** (2014) Vol 12, 131-140, (Hayat MA,ed.) (Springer Science *Corresponding author ISSN 2215-0994 ISSN 2215-1001.
2. Prakash Baligar, **Neelam Yadav** and Asok Mukhopadhyay " THERAPEUTIC POTENTIAL OF BONE MARROW-DERIVED STEM CELLS IN TREATMENT OF GENETIC DISEASES OF THE LIVER" (Hayat MA,ed.) (2012) In: **Stem Cells & Cancer Stem Cells** Vol. 7, 95-106. Springer Science ISBN 9400742851 (electronic bk.) 9789400742857 (electronic bk.)

Book Chapter Invited by CRC press (USA), Taylor Fransis group, Nova Science Publishers NY (USA), & Bentham Science (USA)

1. **Neelam Yadav** and Pradeep K. Shukla (2020) Role of Oxidative stress in Neurodegeneration In: **Antioxidants and Functional Foods for Neurodegenerative**

- Disorders (Eds. Abhai Kumar & Debasis Bagchi). CRC Press (Taylor & Francis Group) In press.*
2. Yoganchal Mishra, Pradeep K. Shukla, Neelam Yadav* Bone Diseases in Elderly Population: Challenges and Management (2020) In: *Current Challenges and Management of Diseases of Elderly population In Press* “Nova Science Publishers” pp.141-156 *Corrospounding author
 3. Neelam Yadav* and Yoganchal Mishra, (2020)—Targeting the PI3K/AKT Signaling Pathway in Hepatocellular Carcinoma: Current State and future trends. In: *e-book titled “Recent Advances in Cancer Signal Transduction and Therapy”*. In Press Bentham Science In Press*Corrospounding author

List of papers accepted & presented in Conferences

1. **Oral** presentation paper entitled “*Bone Marrow Cells contribute to the renal repair from acute tubular epithelial injury in mice*” in **International Conference on Stem Cells, Tissue Engineering & Regenerative Medicine** (“ICSCRM 2007) 30 Nov to 02 Dec, 2007 at Frontier Lifeline, **Chennai, INDIA**
2. **Poster** presentation paper entitled “*Transplanted bone marrow cells correct the phenotype in hemophilia A mice*” in **Indo-US Conference on Translational Medicine and Infectious Diseases** (2008) at National Institute of Immunology, **New Delhi**
3. Participated in **International Conference on Functional Genomics: Prospects and Challenges Oct 2-4, 2010** at Banaras Hindu University, **Varanasi**.
4. **Oral** presentation paper entitled “*Phenotypic Correction of Murine Hemophilia A by Bone Marrow- Derived Liver Cells*” In **2nd Annual Meeting of Stem Cell Research Forum of India (SCRFI)** 8-11 Feb, 2011 **Bangalore**
5. **Oral** presentation paper entitled “*Transplanted Bone Marrow Cells Differentiate in to Factor VIII Producing Liver Cells and Correct the Phenotype of Hemophilia A Mice*” in **International Conference on Stem Cells and Cancer (ICSCC-2010)** 11th to 14th December 2010 at International Institute of Information Technology, **Pune**

6. **Oral** presentation paper entitled “*Stem Cell Therapy for Bleeding Disorder*” during 21-23 March 2011 at **World Congress on Biotechnology, Hyderabad**
7. **Oral** presentation paper entitled “Factor VIII Can Be Synthesized in Hemophilia A Mice Liver by Bone Marrow Progenitor Cell-Derived Hepatocytes and Sinusoidal Endothelial Cells” in **International Conference on Stem Cells and Cancer (ICSCC-2011)** 15th to 18th October 2011, **Pune**
8. **Oral** presentation paper entitled “*Phenotypic Correction of Murine Hemophilia A by Bone Marrow-Derived Liver Cells*” at **Cell Science & Stem Cell Research-2011** (29th Nov to 1st Dec 2011) **Philadelphia, USA**
9. **Oral** presentation paper entitled “*Stem Cell Transplantation for Inherited Factor VIII Deficiency*” at **2nd World Congress on Biotechnology**, (29th Nov to 1st Dec 2011) **Philadelphia, USA**
10. **Poster** presentation paper entitled “*Phenotypic Correction of Murine Hemophilia A by Bone Marrow Cell Therapy*” in **80th Annual Meeting of Society of Biological Chemist (SBCI)** 12th to 15th Nov 2011, **Lucknow**
11. **Oral** presentation paper entitled “*Bone marrow stem cells contribute to tubular epithelium regeneration following acute kidney injury induced by mercuric chloride*” during 13-15 Sept 2012 at **3rd World Congress on Biotechnology, Hyderabad**
12. **Oral** presentation paper entitled “*Bone Marrow Progenitor Cell-Derived Hepatocytes and Sinusoidal Endothelial Cells Can Synthesized Factor VIII in Hemophilia A Mice Liver*” in **International Conference on Stem Cells and Cancer (ICSCC-2012)** 27th to 30th October 2012, **New Delhi**
13. **Oral** presentation paper entitled “*Cell Therapy for Murine Hemophila A*” in **81st Annual Meeting of Society of Biological Chemist (SBCI)** 8th to 11th Nov 2012, **Kolkata**
14. **Poster** presentation paper entitled “*Cell Therapy for Murine Hemophila A*” in **81st Annual Meeting of Society of Biological Chemist (SBCI)** 8th to 11th Nov 2012, **Kolkata**
15. **Oral** presentation paper entitled “*Bone marrow cells contribute to tubular epithelium regeneration following acute kidney injury induced by mercuric*

chloride” in **International Conference on Stem Cells and Cancer (ICSCC-2012)** 19th to 22nd October 2013, **Mumbai**

16. **Oral** presentation paper entitled “*Efficiency of bone marrow-derived stem cells transplantation in treatment of genetic diseases of the liver presentation*” in **3rd World Congress Cell Science & Stem Cell Research-2013** (20th Nov to 22nd Nov 2013) **Baltimore, USA**
17. **Oral** presentation paper entitled “*Bone Marrow Stem Cell Therapy for Hemophilia A Disease*” in **3rd International Conference & Exhibition on Cell and Gene Therapy** Oct 27- 29, 2014 **Las Vegas, USA**
18. **Oral** presentation paper entitled “*Prior Disruption of Native Endothelial cells as well as Endothelin-1 Receptor Blockade in Donor Cells Benefits for Liver Repopulation with Transplanted Liver Sinusoidal Endothelial Cells (LSEC)*” in **6th International Conference on Stem Cells and Cancer (ICSCC-2015)** 2nd to 5th October 2015, **Pune**
19. **Oral** presentation paper entitled “*Transplantation of Bone Marrow Cells Corrects the Phenotype in Hemophilia A mice*” in **XL All India Cell Biology Conference & International Symposium on Functional Genomics and Epigenomics** November 17-19, 2016, **Jiwaji University, Gwalior**
20. **Oral** presentation paper entitled “*Repopulation of Liver with Transplanted Liver Sinusoidal Endothelial Cells (LSEC) Benefits from Prior Disruption of Native Endothelial cells as well as Endothelin-1 Receptor Blockade in Donor Cells*” in **First Indo-Russian Meet and Second International Conference on Biotechnological Advancement in Free Radical Biology and Medicine (ICBAFM-2017)** January 23-25, 2017, **Integral University, Lucknow.**
21. **Poster** presentation paper entitled “*Blockade of endothelin-1 receptors prior to transplantation improves engraftment and proliferation of endothelial cells*” in **International Congress of Cell Biology (ICCB-2018)** from January 27-31, 2018 at **CCMB , Hyderabad**
22. **Oral** presentation paper entitled “*Transplantation of Bone Marrow Stem Cell: A Promising Cell Therapy for Hemophilia A Disease*” in **International Conference on Trends in Biochemical and Biomedical Research: Advances**

- and Challenges (TBBR) February 13-15, 2018 Banaras Hindu University, Varanasi.**
- 23. Oral presentation paper entitled “Endothelin receptor antagonism advances proliferation of mouse liver sinusoidal endothelial cells by protection from inflammation-induced mitochondrial impairment and DNA damage” in International Conference on Cell Death in Cancer and Toxicology (CDCT 2018) February 20-22, 2018 at CSIR- Indian Institute of Toxicology Research, Lucknow.**
 - 24. Oral presentation paper entitled “Cell-Based Therapies for the Treatment of Genetic Diseases of the Liver” in Biosangam 2018: An International Conference on Innovation & Translational Dimensions: Food, Health & Environmental Biotechnology from March 09-11, 2018 Motilal Nehru National Institute of Technology (MNNIT), Allahabad**
 - 25. Oral presentation paper entitled “Transplantation of Bone Marrow-Derived Stem Cells for Treatment of Genetic Diseases of the Liver” in National Conference on “Role of Modern Biological Sciences For Enhancing Farmer’s Economy & Welfare of The Society” November 12th -13th , 2018 at Ranvir Rananjay Post Graduate College, Amethi (UP) India**
 - 26. Oral presentation paper entitled “Survival and proliferation improves of liver sinusoidal endothelial cells transplanted in mice by endothelin receptor antagonism in 25th ISCB International Conference (ISCBC- 2019) Trends in Chemical and Biological Sciences: Impact on Health and Environment From January 12th -14th , 2019 at Hotel Golden Tulip, Lucknow**
 - 27. Oral presentation paper entitled “Efficient reconstitution of hepatic microvasculature by endothelin receptor antagonism in liver sinusoidal endothelial cells” National Conference on Interdisciplinary Advancement in Biochemistry (NCIAB- 2019) March 28th -29th , 2019 at R.M.L. Avadh University, Faizabad.**
 - 28. Oral presentation paper entitled “Role of Biotechnology in the development of Medicine for Human Health” International Conference on Sustainable Agriculture Production for Food, Nutritional and Livelihood Security: Challenges for Asian Farmers (Sept 25-27, 2019) at Pattaya, Thailand.**
 - 29. Oral presentation paper entitled “Efficient reconstitution of hepatic microvasculature by endothelin receptor antagonism in liver sinusoidal endothelial cells by protection from inflammation-induced mitochondrial impairment and DNA damage” In:**

8th International Translational Cancer Research Conference at the Banaras Hindu University, Varanasi, India from **February 13-16, 2020**.

- 30. Oral** presentation paper entitled “Efficient Reconstitution of Hepatic Microvasculature by Endothelin Receptor Antagonism in Liver Sinusoidal Endothelial Cells. **In: Biosangam 2020:** “International Conference on Biotechnological Interventions for Societal Development, **February 21-23, 2020 at Motilal Nehru National Institute of Technology (MNNIT), Allahabad.**