

## Curriculum Vitae

Vinay Shukla, M.Sc., Ph.D.

Postdoctoral Fellow, Department of Obstetrics, Gynecology and Reproductive Sciences  
University of Maryland, School of Medicine

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### **Contact Information**

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Languages: English and Hindi

### **Education**

2007-2010 B.Sc. Chemistry and Zoology, DDU Gorakhpur University, Gorakhpur, UP, India  
2010-2012 M.Sc. Biotechnology, DDU Gorakhpur University, Gorakhpur, India  
2016-2019 Ph.D. Reproductive and Developmental Biology, CSIR -Central Drug Research Institute (AcSIR), Lucknow, UP, India, Thesis Advisor- Anila Dwivedi, "Title of thesis: Role of microtubule polymerization and related protein TPPP3 in the embryo implantation"

### **Post Graduate Education and Training**

2019-2024 Postdoctoral Fellow, University of Kansas Medical Center, Kansas City, KS  
Advisor- Dr. Michael Soares  
2024-present Postdoctoral Fellow, University of Maryland, School of Medicine, Baltimore, MD  
Advisor- Dr. Irina Burd

### **Biosketch**

Dr. Vinay Shukla is a Postdoctoral Fellow in the Department of Obstetrics, Gynecology, and Reproductive Sciences at the University of Maryland School of Medicine, Baltimore, USA. Dr. Shukla earned his undergraduate and master's degrees from DDU Gorakhpur University, India. He completed his Ph.D. at the CSIR-Central Drug Research Institute (AcSIR), India. Dr. Shukla has over 12 years of experience in Reproductive Biology. He is a member of several scientific organizations, including SRI, SSR, ISSRF, SRBCE, IISc, APA and DOHaD. Dr. Shukla has received numerous honors, including the Young Scientist Award from ISSRF, the BRTP Postdoctoral Award, NIH K-INBRE Postdoctoral Award, and the Top Reviewing Editor Award from the Society for the Study of Reproduction (SSR), USA.

## **Employment History**

### **Academic Appointments**

- 2013-2016 Project Fellow, Endocrinology, Central Drug Research Institute (CDRI), Lucknow, India
- 2016-2019 Senior Research Fellow, Endocrinology, Central Drug Research Institute (CDRI), Lucknow, India

### **Professional Society Membership**

- 2017-Present Trainee member, Society for the Study of Reproduction, USA
- 2017-Present Life member, Indian Society for the Study of Reproduction & Fertility, Jaipur, India
- 2017-Present Life member, Society for Reproductive Biology and Comparative Endocrinology, Chennai, India
- 2018-Present Life member, Animal Physiologists Association, India
- 2019-Present Life member, Indian Science Congress Association, Kolkata, India
- 2020-2021 Student/Trainee Member of American Heart Association, Dallas, TX, USA
- 2020-2021 AAAS (American Association for the Advancement of Science) member, Washington, D.C., USA
- 2021-Present Trainee member, Society for Reproductive Investigation, USA
- 2023-Present Associate Member of International Society for Developmental Origins of Health and Disease (DOHaD), London, UK
- 2025-Present Trainee member, American Society for Reproductive Immunology, USA

### **Honors And Awards**

- 2016 Senior Research Fellowship from Indian Council of Medical Research, New Delhi, India
- 2016 Senior Research Fellowship from Council of Scientific & Industrial Research, New Delhi, India
- 2017 Larry Ewing Memorial Trainee Travel Fund grant from the Society for the Study of Reproduction
- 2017 Department of Biotechnology (Government of India) International Travel Grant
- 2017 Indian Council of Medical Research International Travel Grant
- 2018 Best Poster Award from Animal Physiologists Association
- 2019 CSIR- Central Drug Research Institute Incentive Award for Publication
- 2019 Prof. S. S. Guraya Young Scientist Award from Indian Society for the Study of Reproduction and Fertility, India
- 2020 KU Medical Center - Biomedical Research Training Program (BRTP) Postdoctoral Award
- 2020 Kansas IDeA Network of Biomedical Research Excellence (K-INBRE) Postdoctoral Award, KS, USA
- 2020 Society for the Study of Reproduction Trainee Travel Award 2020

2021	Donald C. Johnson Trainee Travel Award, Institute for Reproduction and Perinatal Research, KU Medical Center, Kansas City, USA
2022	Donald C. Johnson Trainee Travel Award, Institute for Reproduction and Perinatal Research, KU Medical Center, Kansas City, USA
2023	Biology of Reproduction Top Reviewing Editor Award, by Society for the Study of Reproduction: Biology of Reproduction (Journal), Ottawa, Canada
2024	Hypertension (American Heart Association) Early Career Assistant Program

### **Administrative Service**

#### **Mentorship:**

2020-2021	Anna Galligos, BS, Undergraduate Research Intern, laboratory techniques, experimental design and analysis, peer reviewed co- mentor. Present position: PhD student, Stowers Institute for Medical Research, Kansas City, MO
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### **Institutional Service**

2021-2024	Oral and Poster Session Judge in the Student Research Forum, University of Kansas Medical Center, Kansas City, USA
2022-2024	Board Member, University of Kansas Medical Center Postdoctoral Association
2023-2024	Advisor, Cricket Club-University of Kansas Medical Center, Kansas City, USA
2024	Poster Session Judge in the 47th Medical Student Research Day, University of Maryland School of Medicine, Baltimore, MD, USA

### **Local and National Service**

2019-Present	Ad Hoc Reviewer, Biology of Reproduction, Biomedicines, Cells, Environmental Health Perspectives, European Journal of Obstetrics & Gynecology and Reproductive Biology, Frontiers in Cell and Developmental Biology, Frontiers in Endocrinology, Frontiers in Genetics, Frontiers in Medical Technology, Frontiers in Physiology, Frontiers in Psychology, Frontiers in Reproductive Health, Gene, Gene Reports, Organoids, International Journal of Environmental Research and Public Health, International Journal of Molecular Sciences, Journal of Clinical Medicine, Journal of Reproductive Immunology, Life Science Alliance, Medicina, Placenta, PLOS ONE, Reproductive Biology, Reproductive BioMedicine Online, Reproductive Medicine, Scientific Report- Nature, Stem Cell Reports- Cell, Toxics.
2021-Present	Review Editor, Frontiers in Physiology (Section: Developmental Physiology)
2021-Present	Review Editor, Frontiers in Reproductive Health (Section: Gynecology)
2021-Present	Review Editor, Frontiers in Medical Technology (Section: Regenerative Technologies)

2021	Poster Session Judge in the 19th Annual Kansas-IDeA Network of Biomedical Research Excellence Symposium, Kansas City, KS, USA
2022-Present	Review Editor, <i>Frontiers in Endocrinology</i> (Section: Reproduction)
2022-Present	Review Editor, <i>Frontiers in Global Women's Health</i> (Section: Maternal Health)
2022	Poster and Oral talk Abstract Reviewer, 69th Annual Meeting of Society for Reproductive Investigation, Denver, CO, USA
2022	Poster Session Judge, 69th Annual Meeting of Society for Reproductive Investigation, Denver, CO, USA
2024	Poster and Oral talk Abstract Reviewer, 57th Annual Meeting of Society for the Study of Reproduction, Dublin, Ireland
2025	Guest Editor Cells
2025	Guest Editor PLOS One

### Grant Support

#### Completed Grants:

2016-2019	PI: Vinay Shukla "Role of tubulin polymerization promoting protein 3 (TPPP3) in the embryo implantation and decidualization" Senior Research Fellowship, Indian Council of Medical Research, New Delhi, India, Total Costs: INR 1,128,000
2020-2020	PI: Vinay Shukla "Role of WNT Signaling in Trophoblast Cell Differentiation and Placental Disease" KUMC Biomedical Research Training Program Postdoctoral Award Total Costs: \$13,000
2020-2021	PI: Vinay Shukla "Role of WNT Signaling in Trophoblast Cell Differentiation and Placental Disease" Kansas IDeA Network of Biomedical Research Excellence (K-INBRE) Postdoctoral Award Total Costs: \$38,248

### Publications

1. Sahar Khoshravesh, Anguo Liu, **Vinay Shukla**, Jeffery Babischkin, Graham W Aberdeen, Gerald J. Pepe, Eugene D Albrecht, Jun Lei, Irina Burd. Estrogen Regulates Placental Immune Profile in Non-Human Primates (2025) *Biology of Reproduction* (BIOLRE-2024-0627R1 accepted).
2. **Vinay Shukla\***, Iqbal K, Okae H, Arima T, Soares MJ\*. Aryl Hydrocarbon Receptor Activation Drives 2-Methoxy Estradiol Secretion in Human Trophoblast Cell Development

(2025) *Human Reproduction*, deaf075 <https://doi.org/10.1093/humrep/deaf075> (\*co-corresponding author).

3. **Vinay Shukla\***, Ayelen Moreno-Irusta, Kaela M. Varberg, Marija Kuna, Anna M. Galligos, Khursheed Iqbal, John D. Aplin, Rahul H. Choudhury, Hiroaki Okae, Takahiro Arima, and Michael J. Soares\*. NOTUM mediated WNT signaling drives extravillous trophoblast cell lineage development. (2024). *Proceedings of the National Academy of Sciences*, 121 (40) e2403003121 (\*co-corresponding author).
4. **Vinay Shukla\***, Michael J Soares\*. Modeling trophoblast cell-guided uterine spiral artery transformation in the rat. (2022) *International Journal of Molecular Sciences*, 23(6):2947. (\*co-corresponding author).
5. Pooja Popli, **Vinay Shukla**, Jyoti B Kaushal, Rohit Kumar, Kanchan Gupta, Anila Dwivedi. Peroxiredoxin 6 Plays Essential Role in Mediating Fertilization and Early Embryonic Development in Rabbit Oviduct. (2021) *Reproductive Sciences*. 23:1-7.
6. Jyoti B Kaushal, **Vinay Shukla**, P. Sankhwar, Rajesh K Jha, Anila Dwivedi. Targeted inhibition of TAK1 abrogates TGF $\beta$ 1 non-canonical signaling axis, NF $\kappa$ B/Smad7 inhibiting human endometriotic cells proliferation and inducing cell death involving autophagy. (2021) *Cytokine* 148:155700.
7. **Vinay Shukla**, Jyoti B Kaushal, Rohit Kumar, Pooja Popli, Promod K Agnihotri, Kalyan Mira, Anila Dwivedi. Microtubule depolymerization attenuates WNT4/CaMKII $\alpha$  signaling in mouse uterus and leads to implantation failure. (2019) *Reproduction* 158 (1), 47-59.
8. **Vinay Shukla**, Jyoti B Kaushal, Pushplata Sankhwar, Murli Manohar, Anila Dwivedi. Inhibition of TPPP3 attenuates  $\beta$ -catenin/NF- $\kappa$ B/COX-2 signaling in endometrial stromal cells and impairs decidualization. (2019) *Journal of Endocrinology* 240, 1-14.
9. **Vinay Shukla**, Pooja Popli, Jyoti B Kaushal, Kanchan Gupta, Anila Dwivedi. Uterine TPPP3 plays important role in embryo implantation via modulation of  $\beta$ -catenin. (2018) *Biology of Reproduction* 99, 982-999.
10. Jyoti B Kaushal, Pooja Popli, Pushplata Sankhwar, **Vinay Shukla**, Anila Dwivedi. Sonic hedgehog protects endometrial hyperplasial cells against oxidative stress via suppressing mitochondrial fission protein dynamin-like GTPase (Drp1). (2018) *Free Radical Biology and Medicine* 129:582-599.
11. Kanchan Gupta, Vijay K. Sirohi, Suparna Kumari, **Vinay Shukla**, Manohar M, Pooja Popli, Anila Dwivedi. Sorcin is essential for blastocyst implantation via VEGF/PI3K/Akt pathway in mouse endometrium. (2018) *Journal of Molecular Endocrinology* 60(2):119-132
12. Vijay K Sirohi, Kanchan Gupta, Rohit Kumar, **Vinay Shukla**, Anila Dwivedi. Selective estrogen receptor modulator Ormeloxifene suppresses embryo implantation via inducing miR-140 and targeting insulin-like growth factor 1 receptor in rat uterus. (2018) *Journal of Steroid Biochemistry Molecular Biology* pii: S0960-0760(18)30007- 4.
13. Jyoti B Kaushal, Pushplata Sankhwar, Suparna Kumari, Pooja Popli, **Vinay Shukla**, Mohd Hussain, Kanchan Hajela, and Anila Dwivedi. The regulation of Hh/Gli1 signaling cascade involves Gsk3 $\beta$ - mediated mechanism in estrogen-derived endometrial hyperplasia. (2017) *Scientific Reports* 7(1):6557.
14. Pooja Popli, Vijay K Sirohi, Murli Manohar, **Vinay Shukla**, Jyoti B Kaushal, Kanchan

- Gupta, Anila Dwivedi. Regulation of cyclooxygenase-2 expression in rat oviductal epithelial cells: evidence for involvement of GPR30/Src kinase- mediated EGFR pathway. (2015) *Journal of Steroid Biochemistry Molecular Biology* 154:130-41
15. **Vinay Shukla**, Vishal Chandra, P. Sankhwar, Pooja Popli, Jyoti B Kaushal, Vijay K Sirohi, Anila Dwivedi. Phytoestrogen genistein inhibits EGFR/PI3K/NF- $\kappa$ B activation and induces apoptosis in human endometrial hyperplasial cells. (2015) *Royal Society of Chemistry Advances* 5, 56075-56085.
  16. M Manohar, H Khan, **Vinay Shukla**, V Das, A Agarwal, Amita Pandey, Waseem Ahmed Siddiqui and Anila Dwivedi. Proteomic Identification and Analysis of Human Endometrial Proteins Associated Unexplained Infertility. (2014) *Journal of Proteomics & Bioinformatics* 7: 359-366.
  17. B. Sathish Kumar, Amit Kumar, Jyotsna Singh, Mohammad Hasanain, Arjun Singh, Kaneez Fatima, Dharmendra K. Yadav, **Vinay Shukla**, Suaib Luqman, Feroz Khan, Debabrata Chanda, Jayanta Sarkar, Rituraj Konwar, Anila Dwivedi, Arvind S. Negi. Synthesis of 2-alkoxy and 2-benzyloxy analogues of estradiol as antibreast cancer agents through microtubule stabilization. (2014) *European Journal of Medicinal Chemistry* 86 740-751.

### **Major Invited Speeches**

1. 2025, Role of Aspirin in Modulating Immune Responses and Reducing CMV Transmission in Pregnancy, 72nd Annual Scientific Meeting of the Society for Reproductive Investigation, Charlotte, North Carolina, USA.
2. 2024, July 30, "Caffeine exposure impacts human trophoblast cell development" in the International Conference of Nanochemistry and Theragnostic, Lalit Naryan Mithila University, Darbhanga, India
3. 2022, March 17, "Involvement of EPAS1/HIF2A in Trophoblast Lineage and Placental Development" in the 69th Annual Meeting of Society for Reproductive Investigation, Denver, CO, USA
4. 2021, January 14, "Role of WNT Signaling in Trophoblast Cell Differentiation and Placental Disease" in K-INBRE Mentoring Core Meeting, Kansas City, KS, USA.
5. 2020, October 8-9 "NOTUM-dependent Modulation of WNT Signaling in Extravillous Trophoblast Cell Lineage Development" in 17th Annual Greenwald Symposium, Kansas City, KS, USA
6. 2019, February 24 "Novel role of TPPP3 in blastocyst implantation and decidualization" in 29th annual meeting of Indian Society for the study of Reproductive & Fertility (ISSRF), JNU Convention Center, Jawaharlal Nehru University, New Delhi, India (Awardee).
7. 2018, December 23 "Microtubule depolymerization attenuates WNT4/CaMKII $\alpha$  signaling in mouse uterus and leads to implantation failure" in Animal Physiologists Association (APACON-2018), ICAR-Indian Veterinary Research Institute, Izatnagar; UP, India

### **Contributions to Science**

#### **1. WNT signaling in trophoblast stem cell development:**

Extravillous trophoblast (EVT) cells play a critical role in transforming the uterine environment into a supportive organ facilitating embryonic/fetal development. Insufficient EVT cell-dependent uterine transformation can lead to obstetrical complications, including early pregnancy loss, preeclampsia, intrauterine growth restriction, and preterm birth. These complications carry a significant burden of morbidity and mortality for both the mother and the fetus. Notum, palmitoleoyl-protein carboxylesterase, a WNT signaling antagonist, is involved in promoting and maintaining EVT cell differentiation. This process is essential for the proper development of the placenta and is crucial for a healthy pregnancy.

**Shukla V\***, Moreno-Irusta A, Varberg KM, Kuna M, Galligos AM, Iqbal K, Aplin JD, Choudhury RH, Okae H, Arima T, Soares MJ\* 2024. NOTUM mediated WNT signaling drives extravillous trophoblast cell lineage development. *Proceedings of the National Academy of Sciences*, 121 (40) e2403003121. (\*co-corresponding author).

## **2. Regulatory mechanism of endocrine disruptors (TCDD and BaP) and AHR signaling in trophoblast lineage development:**

The primary interface between mother and fetus, the placenta, serves two critical functions: extraction of nutrients from the maternal compartment and facilitation of nutrient delivery to the developing fetus. This delivery system also serves as a barrier to environmental exposures. The aryl hydrocarbon receptor (AHR) is an important component of the barrier. Human trophoblast cell responses to TCDD were dependent upon AHR signaling and possessed the potential to shape development and function of the human placentation site.

**Shukla V\***, Iqbal K, Okae H, Arima T, Soares MJ\*. Aryl Hydrocarbon Receptor Activation Drives 2-Methoxy Estradiol Secretion in Human Trophoblast Cell Development (2025) Human Reproduction, deaf075 <https://doi.org/10.1093/humrep/deaf075> (\*co-corresponding author).

## **3. Aryl hydrocarbon receptor nuclear translocator (ARNT/ HIF1B) and EPAS1/HIF2A in trophoblast lineage placental development:**

In this study, we explored the role of ARNT in trophoblast stem (TS) cell development and placentation, employing a CRISPR/Cas9-edited Arnt mutant rat model and rat TS cells. Additionally, we examined the function of EPAS1/HIF2A in trophoblast lineage development and placentation through loss-of-function approaches in both rat and human TS cells. To generate the EPAS1/HIF2A mutant rat model, we utilized CRISPR/Cas9 genome editing, while lentiviral-mediated delivery of short hairpin RNAs was used to silence EPAS1/HIF2A in human TS cells

**Shukla V**, Iqbal K, Galligos AM, Muto M and Soares MJ 2021 Role of aryl hydrocarbon receptor nuclear translocator in placental development. 54th Annual Meeting of the Society for the Study of Reproduction, St. Louis, MO.

**Shukla V**, Varberg K, Iqbal K, Galligos AM, Muto M, Soares MJ 2022 Involvement of EPAS1/HIF2A in trophoblast lineage and placental development. 69th Annual Meeting of the Society for Reproductive Investigation, Denver, CO.

## **4. Identify roles for microtubules and the microtubule related protein TPPP3 in the establishment of pregnancy**

The hierarchical landscape of molecular pathways governing early pregnancy remains largely unexplored. We demonstrated the novel role of microtubule polymerization and cytoskeletal protein TPPP3 in blastocyst implantation and decidualization using appropriate in-vivo and in-vitro functional model systems. Microtubule depolymerization impaired the WNT4/CaMKIIα

signaling and suppressed the secretion of prostaglandins PGE2 and PGF2 $\alpha$  in endometrial epithelial cells which may be responsible for implantation failure in mice. Apart from this, TPPP3 is important for embryo implantation through modulation of  $\beta$ -catenin in mice. We found that the inhibition of TPPP3 led to the suppression of  $\beta$ -catenin/NF- $\kappa$ B/COX-2 axis, induced mitochondria-dependent apoptosis in human endometrial stromal cells and impaired their decidualization.

**Shukla V**, Kaushal JB, Kumar R, Popli P, Agnihotri PK, Mitra K, Dwivedi A 2019 Microtubule depolymerization attenuates WNT4/CaMKII $\alpha$  signaling in mouse uterus and leads to implantation failure. *Reproduction* **158**:1,47-59.

**Shukla V**, Kaushal JB, Sankhwar P, Manohar M, Dwivedi A 2019 Inhibition of TPPP3 attenuates  $\beta$ -catenin/NF- $\kappa$ B/COX-2 signaling in endometrial stromal cells and impairs decidualization. *Journal of Endocrinology* **240**:1-14.

**Shukla V**, Popli P, Kaushal JB, Gupta K, Dwivedi A 2018 Uterine TPPP3 plays important role in embryo implantation via modulation of  $\beta$ -catenin. *Biology of Reproduction* **99**:982-999

## **5. Explore the effects and molecular mechanism of action of genistein, a phytoestrogen, in human endometrial hyperplasia**

Endometrial hyperplasia is a condition of excessive and abnormal proliferation of the endometrial glands, or inner lining of the uterus through actions of estrogenic hormones. Endometrial hyperplasia is a significant risk factor for the development of endometrial cancer. Prolonged unopposed estrogenic stimulation and chronic disorders such as obesity, diabetes, polycystic ovarian syndrome and delayed childbearing are risk factors for endometrial hyperplasia and endometrial cancer. Our research explored the effects of genistein on cell growth and EGFR-mediated signaling in endometrial hyperplasia.

**Shukla V**, Chandra V, Sankhwar P, Popli P, Kaushal JB, Sirohi VK, Dwivedi A 2015 Phytoestrogen genistein inhibits EGFR/PI3K/NF- $\kappa$ B activation and induces apoptosis in human endometrial hyperplasia cells. *Royal Society of Chemistry Advances* **5**:56075-56085.

## **6. Maternal inflammation and CMV transmission in pregnancy**

Cytomegalovirus (CMV) infection during early pregnancy poses significant risks to both the fetus and the mother, often leading to congenital CMV infection with potential long-term complications. The placenta plays a critical role in mediating the vertical transmission of CMV from mother to fetus, influencing the severity of the infection. Immunomodulatory responses during pregnancy can impact the maternal immune system's ability to control viral replication and placental invasion. This study proposes the use of aspirin to modulate immune responses and reduce the risk of CMV infection during pregnancy.

**Shukla V**, Khatoon S, Khoshravesh S, Liu A, Lei J, Burd I, 2025 Role of Aspirin in Modulating Immune Responses and Reducing CMV Transmission in Pregnancy, 72nd Annual Scientific Meeting of the Society for Reproductive Investigation, Charlotte, North Carolina, USA.

**Shukla V**, Khatoon S, Khoshravesh S, Liu A, Lei J, Burd I, 2025 Aspirin as an immunomodulator in CMV Transmission and Placental Function in Pregnancy, 44<sup>th</sup> Annual Meeting of American Society for Reproductive Immunology, St Paul, Minnesota, USA

## **Poster presentation:**

- 2025 Presented a poster in the 44th Annual Meeting of American Society for Reproductive Immunology, St Paul, Minnesota, USA
- 2024 Presented a poster in the SRI 71st Annual Scientific Meeting, Vancouver, BC, Canada.
- 2023 Presented a poster in the 20th Annual Gilbert S. Greenwald Symposium on Reproductive and Developmental Sciences, University of Kansas Medical Center, Kansas City, KS, US
- 2023 Presented a poster in the 7th Annual US DOHaD Meeting, Kansas City, MO
- 2022 Presented a poster in the 19th Annual Gilbert S. Greenwald Symposium on Reproductive and Developmental Sciences University of Kansas Medical Center, Kansas City, KS, US
- 2021 Presented a poster in 54th Annual Meeting of the Society for the Study of Reproduction, St Louis, MO, US
- 2021 Presented a poster in the 2021 meeting of the International Federation of Placenta Associations (IFPA), Amsterdam, Netherlands (Virtual).
- 2021 Presented a poster in the 68th Annual Meeting of the Society for Reproductive Investigation (SRI), Boston, MA, US.
- 2020 Presented a e-poster in 53rd Annual Meeting of the Society for the Study of Reproduction, Ottawa, Canada (Virtual).
- 2019 Presented a poster in the 16th Annual Gilbert S. Greenwald Symposium on Reproduction and Perinatal Research, University of Kansas Medical Center, Kansas City, USA
- 2018 Presented a poster in the Animal Physiologist Association conference, ICAR Indian Veterinary Research Institute, Izatnagar, Bareilly, Uttar Pradesh, INDIA
- 2018 Presented a poster in "The World Congress on Reproductive Health with Emphasis on Family Planning and Assisted Reproductive Technology & 28th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility" held at CSIR-IICT, Hyderabad, India
- 2017 Presented a poster in the 50th Annual Meeting of the Society for the Study of Reproduction, Washington D.C., US.
- 2017 Presented a poster in the International Conference on Reproductive Health with Emphasis on the Strategies for Infertility, Assisted Reproduction and Family Planning & 27th Annual Meeting of the Indian Society for the study of Reproduction and fertility, All India Institute of Medical Sciences, New Delhi, India.
- 2016 Presented a poster in the International Symposium on Integrative Physiology and Comparative Endocrinology & 34th Annual Meeting of the Society for Reproductive Biology and Comparative, Banaras Hindu University, Varanasi, Uttar Pradesh, India.

#### **Training / Courses:**

- 2022 Data Carpentry Genomics Workshop" (February 15-17), University of Kansas, Lawrence, KS, USA
- 2021 OHSU Developmental Origins of Health and Disease (DOHaD) Summer Course" (August 5,12, and September 8) Center for Developmental Health, Oregon Health & Science University, Portland, OR, USA
- 2021 Certified Peer Reviewer Course, Researcher Academy (Elsevier)
- 2021 Focus on Peer Review, Nature masterclasses (Nature)

- 2020 Research Ethics GSMC 850-859 IGPBS (Fa2019-Sp2020) University of Kansas Medical Center, Kansas City, KS, USA
- 2017 Workshop on “VenturEast-CDRI Workshop on Entrepreneurship Development in the Pharmaceutical sector” (December, 15), CSIR-Central Drug Research Institute, Lucknow, UP, India
- 2017 Science and Technology Sensitization Program (October, 27-28), The National Academy of Sciences, India (NASI), Allahabad, along with NASI Lucknow Chapter and CSIR-National Botanical Research Institute, Lucknow, UP, India
- 2017 Workshop on “Invitrogen Attune Nxt Flow Workshop” (August, 2-4), CSIR-Central Drug Research Institute in collaboration with Thermo Fisher Scientific, Lucknow, UP, India
- 2016 Workshop on “Biological Electron Microscopy” (August, 20-21), CSIR-Central Drug Research Institute in collaboration with Thermo Fisher Scientific, Lucknow, UP, India
- 2016 Workshop on “Bio-Entrepreneurship And Bio-Enterprise Creation” (September, 16-17), Biotech Consortium India Limited (BCIL), New Delhi and Biotech Park, Lucknow, UP, India
- 2016 Workshop on “Mass spectrometry based proteomics” (January, 19-21), CSIR- Central Drug Research Institute, Lucknow, UP, India
- 2015 Scientific and Technical Awareness Programme in Animal Experimentation (STAP) (November, 18-20), National Laboratory Animal Center (NLAC), CSIR-Central Drug Research Institute, Lucknow, UP, India
- 2015 Workshop on “Confocal Microscopy” (September, 28-30), CSIR-Central Drug Research Institute, Lucknow, UP, India
- 2015 Workshop on “Intellectual Property Rights : Issues & Challenges” (July, 21), Indira Gandhi National Open University, Lucknow and University of Lucknow, Lucknow, UP, India
- 2011 Training “Two dimensional polyacrylamide gel electrophoresis of human uterine tissue for detection of proteins” (May 10 - September 02), CSIR- Central Drug Research Institute, Lucknow, UP, India

#### **Complete List of Published Work in My Bibliography:**

<https://www.ncbi.nlm.nih.gov/myncbi/1dsEzujediPQEI/bibliography/public/>

<https://www.webofscience.com/wos/author/record/AAZ-4961-2021>

[https://scholar.google.com/citations?user=l2B\\_1h0AAAAJ&hl=en](https://scholar.google.com/citations?user=l2B_1h0AAAAJ&hl=en)

<https://www.medschool.umaryland.edu/profiles/shukla-vinay/>

<https://loop.frontiersin.org/people/1106586/overview>