LIST OF PUBLICATIONS

Journals:

1. **Vajanthri KY**, Sidu RK, Mahto SK. Micropatterning and Alignment of Skeletal Muscle Myoblasts Using Microflowed Plasma Process. IRBM. 2020;41(1):48–57.
2. **Vajanthri KY**, Sidu RK, Poddar S, Singh AK, Mahto SK. Combined substrate micropatterning and FFT analysis reveals myotube size control and alignment by contact guidance. Cytoskeleton. 2019;76(3):269–85.
3. **Vajanthri KY**, Yadav P, Poddar S, Mahto SK. Development of optically sensitive liver cells. Tissue and Cell. 2018; 52:129–34.
4. Agarwal PS, Poddar S, Varshney N, Sahi AK, **Vajanthri KY**, Yadav K, et al. Printability assessment of psyllium husk (isabgol)/gelatin blends using rheological and mechanical properties. Journal of Biomaterials Applications. 2020;0885328220979473.
5. Varshney N, Sahi AK, **Vajanthri KY**, Poddar S, Balavigneswaran CK, Prabhakar A, et al. Culturing melanocytes and fibroblasts within three-dimensional macroporous PDMS scaffolds: towards skin dressing material. Cytotechnology. 2019;71(1):287–303.
6. Sahi AK, Varshney N, Poddar S, **Vajanthri KY**, Mahto SK. Optimizing a detection method for estimating polyunsaturated fatty acid in human milk based on colorimetric sensors. Materials Science for Energy Technologies. 2019;2(3):624–8.
7. Poddar S, Parasa MK, **Vajanthri KY**, Chaudhary A, Pancholi UV, Sarkar A, et al. Low-density culture of mammalian primary neurons in compartmentalized microfluidic devices. Biomedical microdevices. 2019;21(3):67.

8. Poddar S, Agarwal PS, Sahi AK, **Vajanthri KY**, Singh KN, Mahto SK. Fabrication and cytocompatibility evaluation of psyllium husk (Isabgol)/gelatin composite scaffolds. Applied biochemistry and biotechnology. 2019;188(3):750–68.
9. Bandyopadhyay A, Dewangan VK, **Vajanthri KY**, Poddar S, Mahto SK. Easy and affordable method for rapid prototyping of tissue models in vitro using three-dimensional bioprinting. Biocybernetics and Biomedical Engineering. 2018;38(1):158–69.
10. Vijayakumar MR, **Vajanthri KY**, Balavigneswaran CK, Mahto SK, Mishra N, Muthu MS, et al. Pharmacokinetics, biodistribution, in vitro cytotoxicity and biocompatibility of Vitamin E TPGS coated trans resveratrol liposomes. Colloids and Surfaces B: Biointerfaces. 2016; 145:479–91.
11. Vijayakumar MR, Kumari L, Patel KK, Vuddanda PR, **Vajanthri KY**, Mahto SK, et al. Intravenous administration of trans-resveratrol-loaded TPGS-coated solid lipid nanoparticles for prolonged systemic circulation, passive brain targeting and improved in vitro cytotoxicity against C6 glioma cell lines. RSC advances. 2016;6(55):50336–48.
12. Pawde DM, Viswanadh MK, Mehata AK, Sonkar R, Poddar S, Burande AS, et al. Mannose receptor targeted bioadhesive chitosan nanoparticles of clofazimine for effective therapy of tuberculosis. Saudi Pharmaceutical Journal. 2020;28(12):1616–25.

National and international conferences:

1. **Kiran Yellappa Vajanthri**, Suruchi Poddar, Ajay Sahi, Sanjeev Kumar Mahto, Understanding the dynamics of Skeletal muscle differentiation and myotube-myotube interaction in vitro, Fifth international conference on Microfluidics and LAB-ON-CHIP, Mumbai, India 17-18 January 2018.

2. **Kiran Yellappa Vajanthri**, Shivani Saxena, Suruchi Poddar, Anurag Periwal, Piyush Agarwal, Ajay Sahi, Fabricating functional Skeletal Muscle tissue constructs using decellularized matrices, Sanjeev Kumar Mahto. Indian Medical Device Expo, a joint initiative by IIT Bombay, COE Pune and VNIT Nagpur, 8th-10th April, 2016, College of Engineering, Pune.

3. **Kiran Yellappa Vajanthri**, Shivani Saxena, Suruchi Poddar, Anurag Periwal, Piyush Aggarwal, Sanjeev Kumar Mahto, Fabricating functional skeletal muscle tissue constructs using decellularized matrices, Institute day 2-3rd April, 2016, Indian Institute of Technology (Banaras Hindu University), Varanasi.

4. **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Microfluidic Platforms for Skeletal Muscle Tissue Engineering, INUP Familiarization Workshop on Nanofabrication Technologies conducted at the Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore, India, 2015.

5. Suruchi Poddar, Piyush Sunil Agarwal, Ajay Kumar Sahi, **Kiran Yellappa Vajanthri** and Sanjeev Kumar Mahto, Stabilization and Characterization of Psyllium Husk (Isabgol) Scaffolds for Wound Care Applications, International Conference on BioMaterials, BioEngineering and BioTheranostics (BiomET 2018) in association with SBAOI and STERMI 24-28th July 2018, Vellore Institute of Technology, India.

6. Suruchi Poddar, **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Neuromuscular Synaptogenesis on a Microfluidic Chip, Institute Day 24-26th February, 2017, Indian Institute of Technology (Banaras Hindu University), Varanasi.

7. Sanjeev Kumar Mahto, Suruchi Poddar, **Kiran Yellappa Vajanthri,** Development of Microfluidic Tools for Neuromuscular Synaptogenesis and Nanotoxicological Studies, INSPIRE Faculty Monitoring-cum Interaction Meet, IISER Pune, Maharashtra, India, 2017.

8. Parul Yadav, **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Development and Characterization of Optically Sensitive Skeletal Muscle Cells, National Conference on Biotechnology and Environment (NCOBE-2017), Jamia Millia Islamia, New Delhi, India, 2017.

9. Suruchi Poddar, **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Fabrication of Microfluidic Device for Neuromuscular Junction Modeling, National Conference on Biotechnology and Environment (NCOBE), 10-11th April 2017, Jamia Millia Islamia, New Delhi.

10. Fahad Abdulla Fazjar, Kazi Arshad Aslam, **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Design and fabrication of a cage incubator for live cell microscopy, Institute day 2018, Indian Institute of Technology (Banaras Hindu University), Varanasi, 2018.

11. Rakesh Kumar Sidu, **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Controlling Skeletal Muscle Cell Behaviour using Topologically Controlled Environment, International Symposium on Emerging Areas in Biosciences and

Biomedical Technologies (eBBT-2018), Indian Institute of Technology, Indore, India, 2018.

12. Yashasvi, Bandari Pranaya, Rakesh Kumar Sidu, **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Development of portable mini microscope, Institute day 2018, Indian Institute of Technology (Banaras Hindu University), Varanasi, 2018.

13. Rakesh Kumar Sidu, **Kiran Yellappa Vajanthri**, Sanjeev Kumar Mahto, Mimicking structural organisation of skeletal muscle cells by using micropatterning, Institute day 2018, Indian Institute of Technology (Banaras Hindu University), Varanasi, 2018.

Workshops and hands-on-trainings:

1. Hands on Workshop on "Real Time PCR" conducted by Agilent Technologies and Molecular Biology unit, IMS Banaras Hindu University, Varanasi, 17-18 July 2018.

2. **Training program in generation and maintenance of Human iPS cells** (ASHD – CiRA program) organized Accelerating the application of Stem cell technology in Human Disease." (ASHD) program, India and The Centre for iPS Cell Research and Application (CiRA) at Kyoto University, Japan 29th November – 1st December 2017.

3. Workshop on "Emerging Trends in Drug Designing & Molecular Modelling" IIT(BHU) Varanasi, 19-21 July 2017.

4. A GIAN course on "Mechanobiology" organized by Department of Mechanical Engineering, IIT Ropar during 24-28th May, 2017.

5. Short Term Course on "Research Methods and Skills" during 4-5th December, 2015 at IIT (BHU), Varanasi (U.P.), India.

6. Two days course on “Advanced Microscopy and Imaging Techniques” jointly organized by DSS Imagetech Pvt. Ltd., Olympus Medical Systems India Pvt. Ltd. And Photometrics (USA) along with IIT, BHU from 7-8th August 2015.

7. INUP Hands-on Training Workshop on “Nanofabrication Technologies”. Training on PDMS Microfluidics and Micro and Nano Characterization techniques conducted at the Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore, from 3-12th February 2015.

8. INUP Familiarization Workshop on “Nanofabrication Technologies”, conducted at the Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore, from 28-30th January 2015.