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| **Name of the Speakers** | | **Affiliation** | **Nature of the talk** | **Title of the talk** | **Start time (IST)** | **End Time (IST)** | **Willingness to record the talk :yes/no** |
|  | **Inaugural Function (BU, UOM In-charge)** | | | | 6.00pm | 6.30pm |  |
|  | **Session -1 (Regenerative Medicine)** | | | | | | |
| Cato T. Laurencin | | University of Connecticut, USA | CP Sharma Award Plenary Lecture | **Regenerative engineering - biomaterials, convergence, and grand challenges** | 6.30pm | 7.30pm | NO |

***DAY-1 (06.12.2020)***

***Chair: Prof. C.P. Sharma / Co-Chair: Prof. Veena Koul***

***DAY-2 (07.12.2020)***

***Session – 1 (Materials in Medicine)***

***Chair: Prof. Bikramjit Basu / Co-Chair: Prof. N.Rajendran and Prof. Geetha Manivasagam***

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| **Name of the Speakers** | **Affiliation** | **Nature of the**  **Talk** | **Title of the talk** | **Start time (IST)** | **End Time**  **(IST)** | **Willingness to record the talk :yes/no** |
| S. Raja Sabapathy | Ganga Orthopaedic Res. & Edu. Found. | Plenary Lecture | Tissue engineering in reconstructive surgery and what is in the horrison | 10.00am | 10.45am |  |
| Ashok Kumar | IIT, Kanpur  INDIA. | Keynote | Exosomes functionalised biomaterials: A promising therapeutic tool for diabetic secondary complications | 10.50am | 11.20am |  |
| S. Rajesekaran | Ganga Orthopaedic Res. & Edu Foun. | Plenary Lecture | The science of metallurgy regarding implants in orthopaedic surgery | 11.25am | 12.10pm |  |
| Anna Tampieri | ISTEC-CNR, Italy | Plenary Lecture | Nature inspires smart device for regenerative medicine and nanomedicine | 12.15pm | 1.00pm |  |

***Lunch Break***

***Day-2, Session-2 (Drug Delivery and Wound Care)***

***Chair: Dr. Naresh / Co-Chair: Dr. Nithu Singh and Dr Maya Nandkumar***

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| **Name of the Speakers** | **Affiliation** | **Nature of the**  **Talk** | **Title of the talk** | **Start time (IST)** | **End Time**  **(IST)** | **Willingness to record the talk :yes/no** |
| Aravind Sinha | CSIR-NML, Jamshedpur, India | Keynote | Biomaterials: An ongoing journey from biomimetics to biodegradable alloys | 1.30pm | 2.00pm |  |
| J. Venugopal | Universiti Malaysia Pahang, Malasiya | Invited Talk | Nanofibrous structured porous biomaterials scaffolds to mimic native ECM for regenerative medicine | 2.10pm | 2.30pm |  |
| Annabel Braem | KU Leuven, Belgium | Keynote | Anti-infective strategies for next generation dental implants | 2.40pm | 3.10pm |  |
| Prakriti Tayalia | IIT Bombay, India | Invited Talk | Biomaterial-based bioactive dermal patch for wound healing and platform for cancer immunotherapy | 3.20pm | 3.40pm |  |
| Samir Mitragotri | Harvard University, USA | Plenary Lecture | Cellular hitchhiking for targeted drug delivery | 3.50pm | 4.35pm |  |
| Rohit Srivastava | IIT Bombay, India | Keynote | Affordable healthcare technologies in sensing, drug delivery and therapy | 4.45pm | 5.15pm |  |
| Praveen Raj | GEM Obesity & Diabetes Surgery Centre, India | Invited Talk | Science behind surgical cure for diabetes | 5.20pm | 5.50pm |  |
| Shamik Sen | IIT Bombay, India | Invited Talk | Targeting the glycocalyx for diabetic wound healing | 5.55pm | 6.15pm |  |
| A. Maya Nandkumar | Sree Chitra Tirunal Inst. Med. Sci. & Tech. | Invited Talk | Nanoparticles and vaccine delivery | 6.20pm | 6.40pm |  |
| Lorenzo Moroni | Maastricht University, The Netherlands | Plenary Lecture | Biofabrication technologies to control cell fate | 6.45pm | 7.30pm |  |
| Prasad Shastri | University of Freiburg, Germany | Plenary Lecture | 3D-Bioprinting - Challenges and the Future | 7.40pm | 8.25pm |  |

**DAY-3 (08.12.2020)**

**Session -1 (Nanobiotechnology in Healthcare)**

***Chair: Prof. Biman B Mandal / Co-Chair: Dr. Gnanamani and Dr. Deepa P Nambiyar***

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| **Name of the Speakers** | **Affiliation** | **Nature of the**  **Talk** | **Title of the talk** | **Start time (IST)** | **End Time**  **(IST)** | **Willingness to record the talk :yes/no** |
| Tejal Desai | University of California, San Francisco | Plenary Lecture | Therapeutic biomaterials:  engineering material “Structure” to modulate biologic delivery | 9.00am | 9.45am |  |
| B D Malhotra | Delhi Technological University, India | Keynote | Nanostructured metal oxides-enabled biosensors for oral cancer detection | 9.55am | 10.25am |  |
| P Padmanabhan | Nanyang Technological University, Malasiya | Keynote | Nano-technological approach for the early detection of Alzheimer's disease | 10.35am | 11.05am |  |
| Atsushi Suzuki | Yokohama National University, Japan | Plenary Lecture | Recent advances in gelation techniques of PVA gels for medical applications | 11.15am | 12.00pm | YES |
| Dr. Yashveer Singh | IIT Ropar, India | Invited Talk | Diphenylalanine-based self-assembled peptide gels for biomaterial-associated infections | 12.05pm | 12.25pm |  |
| Arulselvan | Royal Care Super Speciality Hospital | Keynote | Brain-Nanotechnology | 12.30pm | 1.00pm |  |

***Lunch Break***

***Day-3, Session-2 (Bioactive Ceramics and Glasses)***

***Chair: Dr. H.K. Varma / Co-Chair: Dr.T.M. Sridhar and Dr. Sasikumar***

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| **Name of the Speakers** | **Affiliation** | **Nature of the**  **Talk** | **Title of the talk** | **Start time (IST)** | **End Time**  **(IST)** | **Willingness to record the talk :yes/no** |
| Ashutosh Kumar Dubey | IIT (BHU), Varanasi, India | Invited Talk | Piezobiomaterials: New generation prosthetic orthopedic implants | 1.30pm | 1.50pm |  |
| Artemis Stamboulis | University of Birmingham, UK | keynote | Antimicrobial methodology for orthopaedic applications | 2.00pm | 2.30pm |  |
| Aldo R Boccaccini | Univ. of Erlangen-Nuremberg, Germany | Plenary Lecture | Bioactive glasses and biofabrication in tissue engineering: Achievements and new developments | 2.40pm | 3.25pm | *No* |
| Rupak Dua | Hampton University, USA | Invited Talk | Novel approaches to develop and evaluate biomimetics surfaces on orthopedic implants to provide inherent anti-bacterial and enhanced osseointegration properties | 3.35pm | 3.55pm |  |
| Pamela Habibovic | Maastricht University, Netherlands | Plenary Lecture | Applying novel design- and screening tools to advance the field of organ and tissue regeneration | 4.05pm | 4.50pm |  |
| SBAOI-MAHE "YOUNG SCIENTIST AWARD CONTEST" | | | | 5.00pm | 6.00pm |  |

***DAY-3, Session-3 (Biomedical Implants in Healthcare)***

***Chair: Prof. Deerendra katti / Co-Chair: Dr.A.M.Ballamurugan and Dr. S.Kannan***

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| **Name of the Speakers** | **Affiliation** | **Nature of the**  **Talk** | **Title of the talk** | **Start time (IST)** | **End Time**  **(IST)** | **Willingness to record the talk :yes/no** |
| R. Jayakumar | Amrita Vishwa Vidyapeetham, India | Invited Talk | Vasoconstrictor and coagulation activator incorporated chtiosan hydrogel for rapid and effective hemostasis | 6.05pm | 6.25pm |  |
| Suresh S Pillai | Baby Memorial Hospital, India | Invited Talk | Evolution and present status  of implants in spine surgery | 6.30pm | 6.50pm |  |
| Subrata Saha | University of Washington, Seattle | Keynote | Ethical challenges in biomaterials research & practice | 7.00pm | 7.30pm |  |
| Khalil El Mabrouk | Euromed University, Morocco | Invited Talk | 3D metallic porous structure coated with bioactive glass for orthopaedic application | 7.40pm | 8.00pm |  |

**Day-4 (09.04.2020)**

**Session-1 (Regenerative approaches in Healthcare)**

***Chair: Dr.Santanu Dhara / Co-Chair: Dr.S.Kanagaraj and Dr. Kavitha***

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| **Name of the Speakers** | **Affiliation** | **Nature of the**  **Talk** | **Title of the talk** | **Start time (IST)** | **End Time**  **(IST)** | **Willingness to record the talk :yes/no** |
| P. Ravi Selvaganapathy | McMaster University, Canada | Keynote | Biofabrication techniques for tissue engineering and cultivated meat | 9.30am | 10.00am |  |
| Kaushik Chatterjee | IISc Bangalore, India | Invited Talk | Nanoscale surface engineering of metallic biomaterials for orthopedic applications | 10.05am | 10.25am |  |
| Nathaniel S. Hwang | Seoul National University, Korea | Keynote | Injectable and anti-inflammatory hydrogel for tissue repair | 10.35am | 11.05am |  |
| Abhijit Chakraborty | Guru Nanak Institute of Dental Sc. & Res. | Invited Talk | Journey of nanobioceramics in functional and aesthetic dentistry | 11.15am | 11.35am |  |
| P.R.Harikrishna Varma | Sree Chitra Tirunal Insti. Med. Sc. and Tech. | Keynote | In search of ideal biomaterials | 11.40am | 12.10am |  |
| Subhadip Bodhak | CSIR-CGCRI, Kolkata, India | Invited Talk | Functional biomaterials for spinal reconstruction applications | 12.15pm | 12.35pm |  |
| Anuya Nisal | CSIR-NML-Pune, India | Invited Talk | Comparative studies of silk fibroin and calcium ceramic in bone void filling | 12.40pm | 1.00pm |  |

**Lunch Break**

**Day-4, Session-2(Additive Manufacturing of Biomaterials)**

***Chair: Prof. T.S. Sampath Kumar / Co-Chair: Prof.R.Jayakumar and Dr.C..Viswanathan***

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| Name of the Speakers | Affiliation | Nature of the  Talk | Title of the talk | Start time (IST) | End Time  (IST) | **Willingness to record the talk :yes/no** |
| Santanu Dhara | IIT Kharagpur, India | Keynote | Design, development and validation of customized Implants using ethically sourced material | 1.30pm | 2.30pm |  |
| Mauro Petretta | Regen HU, Switzerland | Invited Talk | The 3D bioprinting revolution – expanding the horizons of biomedical science | 2.10pm | 2.30pm |  |
| Joseph Buhagiar | University of Malta, Malta | Invited Talk | A paradigm shift: A low-wearing novel hip joint prosthesis | 2.40pm | 3.00pm |  |
| Bharath Raja Guru | Manipal Institute of Technology, India | Invited Talk | Targeting cancer cells for their over expressed receptors using biodegradable nanoparticles for the therapy | 3.10pm | 3.30pm |  |
| Debrupa Lahiri | IIT Roorkee, India | Invited Talk | Bioengineered smart trilayer skin tissue substitute for efficient deep wound healing | 3.40pm | 4.00pm |  |
| Sumant Bhutoria | Alfatek Systems, India | Invited Talk | 3D bioprinting - revolutionizing healthcare and medicine | 4.10pm | 4.30pm |  |
| Bala Vaidhyanathan | Loughborough University, UK | Plenary Lecture | Additive manufacturing of nanostructured bioceramic implants | 4.40pm | 5.25pm |  |
| SBAOI-BAJPAI-SAHA "STUDENT AWARD" CONTEST | | | | 5.30pm | 6.30pm |  |

**Day-4 , Session-3 (Organoids and Bio-Engineering)**

***Chair: Prof.N.Ponpandian / Co-Chair: Prof.D.Gopi and Dr.Ravichandran***

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| Name of the Speakers | Affiliation | Nature of the  Talk | Title of the talk | Start time (IST) | End Time  (IST) | Willingness to record the talk :yes/no |
| Ipsita Banerjee | University of Pittsburgh, USA | Keynote | Bioengineering pancreatic islet organoids from HPSCs for regenerative therapy and disease modeling applications | 6.35pm | 7.05pm |  |
| Francis B Fernandez | Sree Chitra Tirunal Inst. Medical Sci. & Tech. | Invited Talk | Engineered bioceramic matrices for sustained active factor delivery | 7.15pm | 7.35pm |  |
| Aline Miller | BIOGEL, UK | Invited Talk | Tuneable Peptide Hydrogels for 3D cell culture and 3D bioprinting | 7.40pm | 8.00pm |  |
| Valedictory and Annoucement of Awards (IISc, IITs In charge) | | | | 8.05pm | 8.35pm |  |