



REMIX-Winter School on Tissue Engineering and Regenerative Medicine:
Advanced Therapeutic Products and Their Translation to Practical Uses

14-18 January 2020
 Faculty of Engineering, Chulalongkorn University, Bangkok, THAILAND

Tuesday 14 January 2020

16.00 - 19.00 Registration Desk Open & Welcome Refreshment
1st floor, Engineering Centennial Building

Wednesday 15 January 2020

8.00 - 9.00 Registration
Auditorium, 2nd Floor, Engineering Centennial Building

9.00 - 9.45 **Opening Ceremony**
 A report by Sorada Kanokpanont, Local Chair, REMIX-Winter School 2020
 An Address by Claudio Migliaresi, International Chair, REMIX-Winter School 2020
 An Address by Antonella Motta, Head, the REMIX project
 An address by Toh Siew Lok, Chairman, IFMBE Education & Accreditation Committee
 An address by Chanchai Thaijiam, Secretary, Thai Biomedical Engineering Association
 Opening address: Supot Teachavorasinskun Dean, Faculty of Engineering, Chulalongkorn University
 Photo Session

SESSION # 1 *Auditorium, 2nd Floor, Engineering Centennial Building*
 Chair: Siriporn Damrongsakkul, Chulalongkorn University

9.45-10.30 Speaker 1: **From prostheses to tissue engineering**, Claudio Migliaresi, University of Trento, Italy

10.30-11.15 Speaker 2: **From biological complexity to simplify and interactive TE constructs**: Antonella Motta, University of Trento, Italy

11.15 - 11.30 Coffee Break *(foyer of the Auditorium)*

11.30 - 12.15 Speaker 3: **Biodegradable polymers as building blocks for medical devices**: Daniel Cohn, The Hebrew University of Jerusalem, Israel

12.15 - 13.00 Speaker 4: **Biomaterials, Porous Scaffolds, Functional Surfaces and Cells for Advanced Therapies**, Nuno Neves, University of Minho, Portugal

13.00 - 14.00 Lunch *(i-scale rooms, 4th floor, Engineering Centennial Building)*

SESSION # 2 *Auditorium, 2nd Floor, Engineering Centennial Building*
 Chair: Ratthapon Rangupan, Chulalongkorn University

14.00 - 14.45 Speaker 5: **Natural Origin Materials for Regenerative and Precision Medicine**, Rui Reis, University of Minho, Portugal



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| 14.45 - 15.30 | Speaker 6: 3D Printing in Tissue Engineering and Regenerative Medicine , <i>Pranesh B. Aswath, The University of Texas at Arlington, USA</i> |
| 15.30 - 15.45 | Coffee break |
| 15.45 - 18.00 | Young Researcher's Presentations Sessions <i>Chair, Chavee Laomephol, Chulalongkorn University</i> |
| 18.15 - 20.30 | Networking Reception Dinner <i>1st floor, Engineering Centennial Building</i> |
| Thursday 16 January 2020 | |
| 8.00 - 9.00 | Registration <i>Auditorium, 2nd Floor, Engineering Centennial Building</i> |
| SESSION # 3 9.00 - 9.45 | <i>Auditorium, 2nd Floor, Engineering Centennial Building</i> <i>Chair: Juthamas Ratanavaraporn, Chulalongkorn University</i> Speaker 7: Drug Delivery Systems for Biomedical and Life Science Applications , <i>Yasuhiko Tabata, Kyoto University, Japan</i> |
| 9.45 - 10.30 | Speaker 8: Design of hydrogels using biopolymers towards specific biomedical applications : <i>João F. Mano, University of Aveiro, Portugal</i> |
| 10.30 - 11.15 | Speaker 9: Use of polysaccharides for bioactive surface coatings and hydrogels , <i>Thomas Groth, Martin Luther University Halle-Wittenberg, Germany</i> |
| 11.15 - 11.30 | Coffee Break <i>(foyer of the Auditorium)</i> |
| 11.30 - 12.15 | Speaker 10: Enthesis regeneration using complex tissue engineering strategies : <i>Martijn van Griensven, MERLN Institute for Technology-Inspired Regenerative Medicine, The Netherland</i> |
| 12.15 - 13.00 | Speaker 11: Electrospun Nanofibers: Fabrication and Tissue Engineering Applications , <i>Lim Chwee Teck, Mechanobiology Institute, National University of Singapore, Singapore</i> |
| 13.00 - 14.00 | Lunch <i>(i-scale rooms, 4th floor, Engineering Centennial Building)</i> |
| SESSION # 4 14.00 - 14.45 | <i>Auditorium, 2nd Floor, Engineering Centennial Building</i> <i>Chair: Devid Maniglio, University of Trento</i> Speaker 12: Gelation and Properties of Thai Silk Fibroin: Implications for Medical Applications : <i>Siriporn Damrongsakkul, Chulalongkorn University, Thailand</i> |
| 14.45 - 15.30 | Speaker 13: Silk biomaterial for device fabrications : <i>Vamsi K. Yadavalli, Virginia Commonwealth University, USA</i> |
| 15.30 - 15.45 | Coffee Break <i>(foyer of the Auditorium)</i> |
| 15.45 - 18.30 | Young Researcher's presentations sessions <i>Chair, Yuejiao Yang, University of Trento</i> |

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| 19.00 - 21.00 | | VIP Dinner (Speakers only) |
| Friday 17 January 2020 | | |
| 8.00 - 9.00 | Registration <i>Auditorium, 2nd Floor, Engineering Centennial Building</i> | |
| SESSION # 5 | | |
| <i>Auditorium, 2nd Floor, Engineering Centennial Building</i> <i>Chair: Suphansa Yodmuaeng, Chulalongkorn University</i> | | |
| 9.00 - 9.45 | Speaker 14: Biomechanical approach to Tissue Engineering , James Goh, <i>National University of Singapore, Singapore</i> | |
| 9.45 - 10.30 | Speaker 15: Biomaterials based therapeutic approaches stimulating stem cells for tissue regeneration : Lee Soo-Hong, Dongguk University, <i>South Korea</i> | |
| 10.30 - 11.05 | Speaker 16: The acquisition and application of stem cells in neural tissue engineering : Wei Sun, Chinese Academy of Sciences <i>Guangzhou, P.R. China</i> | |
| 11.05 - 11.20 | Coffee Break <i>(foyer of the Auditorium)</i> | |
| 11.20 - 11.55 | Speaker 17: Nanotopographical Cues for Engineering Cellular Behaviors , Jangho Kim, Chonnam National University, Republic of Korea | |
| 11.55 - 12.30 | Speaker 18: Extracellular Vesicles: Potential Roles in Regenerative Medicine , Wei Seong Toh, National University of Singapore, Singapore | |
| 12.30 - 14.00 | Lunch <i>(i-scale rooms, 4th floor, Engineering Centennial Building)</i> <i>(REMIX Steering Committee Meeting, 1st flr. Engineering Alumni Building)</i> | |
| SESSION # 6 | | |
| <i>Auditorium, 2nd Floor, Engineering Centennial Building</i> <i>Chair: Jittima Luckanagul, Chulalongkorn University</i> | | |
| 14.00 - 14.55 | Speaker 19: Rapid Treatment in Skin Wound Healing: An Experience in In vitro & In vivo : Mohd Fauzi Mh Busra, UKM Medical Centre, Malaysia Special Announcement for TERMIS AP 2020 | |
| 14.55 - 15.50 | Speaker 20: Regeneration of RPE and Cornea with BMSC and Functional Hydrogel & Announcement for the next REMIX School on TERM, Gilson Khang, Chonbuk National University, Republic of Korea | |
| 15.50 - 16.15 | School Closing <i>Claudio Migliaresi, University of Trento, Italy</i> <i>Sorada Kanokpanont, Chulalongkorn University, Thailand</i> | |
| 16.15 onwards | Coffee & Refreshment <i>(foyer of the Auditorium)</i> | |

Saturday 18 January 2020

8.00 - 18.00

Networking event at Ayutthaya province
Meeting point @ Faculty of Engineering Parking Lot
(VIP day trip to Ratchaburi province)

Young Researcher Presentation:

Students and young researchers are encouraged to discuss their research or interested topics with the experiences researchers during the summer school by;

- Submit your topics at registration and your abstract by December 15th, 2019
- Preparing 5 slides & Present & discuss 5 minutes
- Q & A and comments by the experienced researchers
- Slides and abstracts of your work will be published on the REMIX project web page at <https://r1.unitn.it/remix/projects/remix/>

All attendants participate in at least 5 sessions of the intensive lectures will receive certificates of REMIX-winter school attendant.