



Singapore-MIT Alliance for Research and Technology



SINGAPORE-MIT ALLIANCE FOR RESEARCH AND TECHNOLOGY CENTRE

1 CREATE Way, #10-01 CREATE Tower, Singapore 138602

Tel: +65 6516-8603 Fax: +65 6778-5654

BIOSYSTEMS AND MICROMECHANICS

An Interdisciplinary Research Group (BioSyM-IRG)

1, CREATE WAY, #04-13/14, Enterprise Wing, Singapore 138602

2016 BIOSYM SCIENTIFIC ADVISORY BOARD REVIEW

Scientific Advisory Board Participants:

Peter HUNTER (CHAIR): University of Auckland, Professor of Bioengineering

James BEST: Dean of LKC School of Medicine, NTU

James GOH: Department Head, Biomedical Engineering, NUS and Director

Luke LEE: University of California at Berkeley, Professor of Bioengineering

Viola VOGEL: ETH Zurich, Head, Laboratory of Applied Mechanobiology

NOTE:

- All events occur at the **NUS University Hall Auditorium, Level 2, UHall Lee Kong Chian Wing, 21 Lower Kent Ridge Road, Singapore 119077**
- RSVP/Questions: krystyn@mit.edu (BioSyM Lead PI); bala@smart.mit.edu (BioSyM Program Manager)

Day 1 (Thursday, 7 January 2016)

08:30 am LIGHT BREAKFAST

09:00 am WELCOME & BioSyM OVERVIEW (Krystyn VAN VLIET)

CROSS-THRUST INITIATIVE [CTI] OVERVIEWS (30 min + 10 min discussion, each)

09:30 am CTI A: Biofilm Ecomechanics: *Staffan KJELLEBERG [20 min] + Durgarao GUTTALA [10 min]*

10:10 am CTI B: Stem & Progenitor Cell Isolation: *Krystyn VAN VLIET [20 min] + Zhiyong POON [10 min]*

10:50 am TEA/COFFEE BREAK

11:10 am CTI C: Anti-Metastatic Cancer Maintenance: *Siew Cheng WONG [20 min] + Andrea PAVESI [10 min]*

TECHNOLOGY THRUST UPDATES [30 min + 10 min discussion]

11:50 am Molecular-Scale Tools Update (Thrust 1): *Matthew LANG [20 min]; DAI Liang [10 min]*

12:30 pm LUNCH BREAK

02:30 pm Multifunctional Cytometry Update (Thrust 2): *Jongyoon HAN [20 min]; Yin LU [10 min]*

03:10 pm *In-vitro* Cell Systems Update (Thrust 3): *ASADA Harry [20 min]; TAN Evan [10 min]*

03:50 pm TEA/COFFEE BREAK

04:10 pm *In-vivo* Systems Update (Thrust 4): *SO Peter [20 min]; ZHANG Zhengyun [10 min]*

SEED PROJECT UPDATES [15 min + 5 min discussion, each]

04:50 pm Does Repetition of Injury Cause Impairment of Stem Cell Regeneration *in vivo*? *Lisa TUCKER-KELLOGG*



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Self-reporting polymer materials for chemomechanical sensing of cells and biofilms: *Ali MISEREZ*

05:30 pm Day 1 Wrap-up: Krystyn Van Vliet

05:45 pm Depart for All-BioSym Team Dinner; *Bus Transport arranged to depart from UHall*

Day 2 (Friday, 8 January 2016)

08:30 am LIGHT BREAKFAST

09:00 am RAPID FIRE PRESENTATIONS (excluding update speakers on Day 1)

10:00 am POSTER SESSION I (even-numbered poster presentations)

11:00 am POSTER SESSION II (odd-numbered poster presentations)

12:00 pm CLOSING REMARKS with SAB (Krystyn Van Vliet & Peter Hunter)

12:30 pm Poster / Presentation AWARDS. LUNCH BREAK marking END OF SESSION FOR RESEARCHERS
- SAB Closed Door Meeting (UHall Meeting Room T101)

4:00 pm Private session with SAB, Lead PI, & SMART Director Hastings and SMART Executive Director Desforge

6:30 pm DINNER with SAB and ALL SMART BioSym MIT & SINGAPORE FACULTY
Transportation provided from CREATE, as needed.