PROGRAM SIPCD 2018

Worldhotel Grand DushuLake • Suzhou • China

14–17 September 2018

14 SEPTEMBER 2018 | FRIDAY

13:00–21:30 **REGISTRATION**

Main Building Lobby of Worldhotel Grand DushuLake

18:00–20:30 **WELCOME RECEPTION**

Grand Ballroom of Worldhotel Grand DushuLake

15 SEPTEMBER 2018 | SATURDAY

08:30–08:35 **OPENING CEREMONY** (Watson Auditorium)

Jan Feijen Soochow University, China /University of Twente, The Netherlands

08:35–10:15 **SESSION ONE** (Watson Auditorium)

Chairpersons: **Sung Wan Kim** University of Utah, USA
Andreas Lendlein Helmholtz-Zentrum Geesthacht, Germany

08:35–09:00 **Kinam Park** Purdue University, USA
PLGA microparticles: Very well-known but unexplored formulations

09:00–09:25 **Jeroen J.L.M. Cornelissen** University of Twente, The Netherlands
Protein cages as new tools for nanomedicine

09:25–09:50 **Yi Yan Yang** Institute of Bioengineering and Nanotechnology, Singapore
Macromolecular chemotherapeutics that mitigate resistance in cancer and prevent metastasis

09:50–10:15 **Patrick S. Stayton** University of Washington, USA
Engineering intracellular drug therapies

10:15–10:45 **COFFEE**

10:45–12:25 **SESSION TWO** (Watson Auditorium)

Chairpersons: **Emily Hu** John Wiley & Sons Inc (Beijing), China
Yong-Hee Kim Hanyang University, Korea

10:45–11:10 **Benzhong Tang** Hong Kong University of Science and Technology, Hong Kong
Theranostics based on AIEgens

11:10–11:35 **Theresa M. Reineke** University of Minnesota, USA
Controlled polymer synthesis and assembly to promote drug delivery and cellular gene editing

11:35–12:00 **Andreas Lendlein** Helmholtz-Zentrum Geesthacht, Germany
Multifunctional polymer systems for controlled drug release and transport

12:00–12:25 **Shaoyi Jiang** University of Washington, USA
Anti-PEG antibodies: Current issues and beyond PEGylation

12:25–13:30 **Lunch** (Grand Ballroom)

13:30–16:00 **SESSION THREE** (Watson Auditorium)

Chairpersons: **Theresa M. Reineke** University of Minnesota, USA
Zhuang Liu Soochow University, China

13:30–13:55 **Kazunori Kataoka** University of Tokyo, Japan
Self-assembled supramolecular nanosystems for smart diagnosis and targeted therapy of intractable diseases

13:55–14:20 **Bin Liu** National University of Singapore, Singapore
Organic nanoparticles for sensing, imaging and therapy

14:20–14:45 **Julien Nicolas** Université Paris-Sud, France
Drug-initiated synthesis of polymer prodrug nanocarriers for anticancer therapy

14:45–15:10 **Jianmin Fang** Tongji University, China
Antibody-drug conjugates for targeted delivery of high potency payloads

15:10–15:35 **Youngro Byun** Seoul National University, Korea
Polymeric nano-shielding of transplanted pancreatic islets for the prevention of immune reactions

15:35–16:00 **Mingdong Dong** Aarhus University, Denmark
Understanding of abnormal protein aggregation

16:00–18:30 **POSTER SESSION with Snacks and Wine**

Grand Ballroom

***Biomacromolecules* Poster Awards Selection Committee:** Timothy J. Deming (Chair), Haeshin Lee, Hai-Quan Mao, Julien Nicolas, Patrick S. Stayton, Richard Hoogenboom, Yi Yan Yang, Yong-Hee Kim

16 SEPTEMBER 2018 | SUNDAY

08:30–10:10 **SESSION FOUR** (Watson Auditorium)

Chairpersons: **Kinam Park** Purdue University, USA
Ruibing Wang University of Macau, China

08:30–08:55 **Ick Chan Kwon** Korea Institute of Science and Technology, Korea
Activatable molecular probes for drug delivery

08:55–09:20 **Jinming Gao** University of Texas Southwestern Medical Center, USA
Exploiting molecular cooperativity for precision medicine

09:20–09:45 **Wim E. Hennink** Utrecht University, The Netherlands
Modular core-shell polymeric nanoparticles mimicking viral structures for vaccination

09:45–10:10 **Zhiyong Qian** Sichuan University, China
Redox/pH dual-stimuli responsive camptothecin prodrug nanogels for "on-demand" drug delivery

10:10–10:40 COFFEE

10:40–12:15 SESSION FIVE (Watson Auditorium)

Chairpersons: **Giuseppe Battaglia** University College London, UK
Shaoyi Jiang University of Washington, USA

10:40–11:05 **Frank Caruso** The University of Melbourne, Australia
Hybrid functional materials from metal-phenolic networks

11:05–11:30 **Guanghui Ma** Institute of Process Engineering, CAS, China
Preparation of uniform particles and employed as chassis for constructing composite virus-like particles by assembling antigen on it

11:30–11:55 **Haeshin Lee** Korea Advanced Institute of Science and Technology, Korea
Polydopamine coating and TANNylation: Mussel and plant-inspired biomaterial studies

11:55–12:15 **Maarten van Twisk** Elsevier, The Netherlands
How to write a great paper (Author Workshop)

12:15–13: 30 Lunch (Grand Ballroom)

13:30–15:20 SESSION SIX (Watson Auditorium)

Chairpersons: **Jan Feijen** Soochow University, China
Wim E. Hennink Utrecht University, The Netherlands

13:30–13:55 **Rainer Haag** Freie Universität Berlin, Germany
Multifunctional graphene-based nanosystems for virus capture and tumor therapy

13:55–14:20 **Hai-Quan Mao** Johns Hopkins University, USA
Controlled polyelectrolyte assembly and therapeutic delivery

14:20–15:20 BIOMACROMOLECULES FORUM

14:20–14:26 **Huabing Chen** Soochow University, China
Photoactive nanoparticles for cooperative cancer phototherapy

14:26–14:32 **Christian Wischke** Helmholtz-Zentrum Geesthacht, Germany
Polymer network carriers that switch their shape

14:32–14:38 **Jianzhong Du** Tongji University, China
Polymer vesicles for biomedical applications

14:38–14:44 **Jing Sun** Qingdao University of Science and Technology, China
Functional bioinspired polypeptide/peptoid-based polymers

14:44–14:50 **Jianshu Li** Sichuan University, China
Controlled delivery systems of calcitonin for anti-osteoporosis therapy

14:50–14:56 **Chuanliang Feng** Shanghai Jiao Tong University, China
Bioinspired chiral supramolecular hydrogels

14:56–15:02 **Haijun Yu** Shanghai Institute of Materia Medica, CAS, China
Stimuli-responsive nanoparticles for cancer immunotherapy

15:02–15:08 **Edgar H. H. Wong** University of New South Wales, Australia
Novel formulations of antimicrobial polymers and small molecule compounds for synergistic action against (multidrug-resistant) bacteria

15:08–15:14 **Wei Li** The Second Military Medical University, China
Nano physical pharmaceutics (NPP): the overlooked powerful tool for promoting in vivo performance of nano formulations

15:20–15:50 COFFEE

15:50–17:30 SESSION SEVEN (Watson Auditorium)

Chairpersons: **Rainer Haag** Freie Universität Berlin, Germany
Weiping Gao Tsinghua University, China

15:50–16:15 **David Kaplan** Tufts University, USA
Engineering silk protein delivery systems

16:15–16:40 **Xuesi Chen** Changchun Institute of Applied Chemistry, CAS, China
Tumor selective hypoxia induced by vascular disrupting agents: Towards highly enhanced hypoxia-activated prodrug therapy in metastatic breast carcinoma

16:40–17:05 **Giuseppe Battaglia** University College London, UK
Precision targeting nanomedicines: principles and applications

17:05–17:30 **Richard Hoogenboom** Ghent University, Belgium
Poly(2-oxazoline)s as potent(ial) biomaterials

17:30–17:35 CLOSING OF SYMPOSIUM (Watson Auditorium)

Zhiyuan Zhong Soochow University, China

19:00–21:30 BANQUET & *BIOMACROMOLECULES* POSTER AWARDS

Grand Ballroom

17 SEPTEMBER 2018 | MONDAY

09:00–14:00 City Tour (Optional)

Route 1: Humble Administrator's Garden and Suzhou First Silk Factory Tour

Route 2: Tongli Watery Town Tour

SIPCD 2018 Abstract Book

350 Combined administration of DOX and TGF-β receptor inhibitor by nanoparticle: an effective treatment against insufficient chemotherapy promoted metastasis
Zifu Li, Xiangliang Yang

351 Synthesis of L-cysteine modified ZnO for biomedical applications
Ziyu Zhou, Jiaolong Wang, Lina Wang, Lan Liao, Xiaolei Wang, Junchao Wei, Yiwang Chen

352 Cell-loaded self-healing hydrogel releasing zoledronate to enhance the osseointegration of 3D printing porous titanium alloy in osteoporotic bone defect
Zuhao Li, Chenyu Wang, Chuangang Peng, Zhonghan Wang, Chenyu Shi, Chaohua Gao, Yi Leng, Liu He, Jincheng Wang

353 Endogenous and exogenous combinational oxidative stress generating nanoparticles for ROS therapy
Zujian Feng, Pingsheng Huang, Weiwei Wang, Anjie Dong

Note:

1. The posters are listed in an alphabetic order of the presenting author's name.
2. The PDF version of abstract book can be downloaded at www.sipcd.com