



PROGRAM SIPCD 2014

16–19 September 2014 | Garden Hotel • Suzhou • China



16 SEPTEMBER 2014 | TUESDAY

WHOLE DAY Garden Hotel Main Building Lobby

09:00–21:00 **REGISTRATION**

EVENING Garden Hotel Western Restaurant

17:30–21:30 **WELCOME RECEPTION**

17 SEPTEMBER 2014 | WEDNESDAY

MORNING Garden Hotel Grand Ballroom

08:30–08:45 **OPENING CEREMONY**

Chair: **Zhiyuan Zhong** Soochow University, China

08:45–10:15 **SESSION ONE**

Chairs: **Yong-Hee Kim** Hanyang University, Korea
Min-Hui Li Institut Curie, France

08:45–09:25 **Sung Wan Kim** University of Utah, USA
Functional and biodegradable polymer for gene delivery (Opening Lecture)

09:25–09:50 **Rainer Haag** Freie Universität Berlin, Germany
Multivalent dendritic polyglycerol sulfates as highly anti-inflammatory and antiviral drugs

09:50–10:15 **Harm-Anton Klok** Ecole Polytechnique Federale de Lausanne, Switzerland
DNA delivery with hyperbranched polylysine

10:15–11:10 **COFFEE / GROUP PHOTO**

11:10–12:30 **SESSION TWO**

Chairs: **Ivan Kempson** University of South Australia, Australia
Guanghui Ma Institute of Process Engineering, CAS, China

11:10–11:40 **Krzysztof Matyjaszewski** Carnegie Mellon University, USA
Nanostructured biomaterials prepared by ATRP (Leading Lecture)

11:40–12:05 **Teruo Okano** Tokyo Women's Medical University, Japan
Intelligent surfaces for cells sheets and their layered 3D vascularized tissue

12:05–12:30 **Jianjun Cheng** University of Illinois at Urbana-Champaign, USA
Helical polypeptides mediated non-viral gene and siRNA delivery

12:30–14:00 **Lunch** (Garden Hotel Chinese or Western Restaurant)

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AFTERNOON Garden Hotel Grand Ballroom

14:00–15:45 **SESSION THREE**

Chairs: **Won Jong Kim** Pohang University of Science and Technology, Korea
Na Zhang Shandong University, China

14:00–14:30 **Ben Zhong Tang** The Hong Kong University of Science & Technology, China
Hyperbranched polymers loaded with aggregation-induced emission luminogens (AIEgens) for controlled drug delivery (Leading Lecture)

14:30–14:55 **Jindřich Kopeček** University of Utah, USA
Self-assembly of nanoconjugates triggers cancer cell suicide

14:55–15:20 **Chae-Ok Yun** Hanyang University, Korea
Extended release of oncolytic adenovirus by injectable alginate gel matrix system

15:20–15:45 **Changyou Gao** Zhejiang University, China
Uptake of polymeric carriers and their influences on cell functions

15:45–16:20 **COFFEE / SETTING UP POSTERS**

16:20–18:20 Garden Hotel Baiyun & Qinglian Meeting Rooms (Above Grand Ballroom)

POSTER SESSION with Snacks and Drinks

Biomacromolecules Poster Awards Selection Committee: Harm-Anton Klok
(Chair), Xuesi Chen, Suzie H. Pun, Yong-Hee Kim, Antonios G. Mikos, Rainer Haag

18 SEPTEMBER 2014 | THURSDAY

MORNING Garden Hotel Grand Ballroom

08:30–10:00 **SESSION FOUR**

Chairs: **Niveen M. Khashab** King Abdullah University of Science and Technology, Kingdom of Saudi Arabia
Edvani C. Muniz State University of Maringá, Brazil

08:30–09:10 **Antonios G. Mikos** Rice University, USA
Injectable, dual gelling hydrogels for stem cell delivery for craniofacial tissue engineering (Special Lecture on Tissue Engineering)

09:10–09:35 **James M. Anderson** Case Western Reserve University, USA
In vivo biocompatibility studies of implantable drug delivery systems

09:35–10:00 **Jun Wang** University of Science and Technology of China, China
Drug delivery with nanoparticles for cancer stem cell therapy

10:00–10:30 **COFFEE**

10:30–12:15 **SESSION FIVE**

Chairs: **Mime Egami** Tokyo Women's Medical University, Japan
Wenguang Liu Tianjin University, China

10:30–11:00 **Molly M. Stevens** Imperial College London, UK
Designing materials for regenerative medicine and ultrasensitive biosensing (Leading Lecture)

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11:00–11:25	Ki Dong Park	Ajou University, Korea <i>Enzyme-mediated, in situ forming hydrogels for drug and cell delivery</i>
11:25–11:50	Xiqun Jiang	Nanjing University, China <i>Tumor accumulation and penetration of polymer nanoparticles</i>
11:50–12:15	Jeroen J.L.M. Cornelissen	University of Twente, The Netherlands <i>Virus capsid-based nanocontainers as multimodal delivery vehicles</i>

12:15–13: 50 **Lunch** (Garden Hotel Chinese or Western Restaurant)

AFTERNOON Garden Hotel Grand Ballroom

13:50–15:20 **SESSION SIX**

Chairs: **Nan Ma** Freie Universität Berlin, Germany
Chien-Wen Chang National Tsing Hua University, Taiwan

13:50–14:30	Kam W. Leong	Duke University, USA <i>Advancing direct cellular reprogramming with biomaterials and bioengineering approaches</i> (Special Lecture on Direct Cellular Reprogramming)
14:30–14:55	You Han Bae	University of Utah, USA <i>New in vitro and in vivo models for extravasation and intratumoral transport</i>
14:55–15:20	Yaping Li	Shanghai Institute of Materia Medica, China <i>Succinobucol loaded nanoassembly suppresses lung metastasis of breast cancer by inhibition of VCAM-1 expression</i>

15:20–15:50 **COFFEE**

15:50–17:10 **SESSION SEVEN**

Chairs: **James Liang** Stevens Institute of Technology, USA
Yan Chen Jiangsu Academy of Chinese Medicine, China

15:50–16:15	Allan S. Hoffman	University of Washington, USA <i>A short history of “smart” hydrogels</i>
16:15–16:40	Chi-Hwa Wang	National University of Singapore, Singapore <i>Coaxial double-walled microspheres for drug delivery and tissue engineering applications</i>
16:40–17:10	Jaap van Harten	Elsevier B.V., The Netherlands <i>Research misconduct and publishing ethics</i> (Author Tutorial)

EVENING Garden Hotel Grand Ballroom

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

19 SEPTEMBER 2014 | FRIDAY

MORNING Garden Hotel Grand Ballroom

08:30–10:00 **SESSION EIGHT**

Chairs: **Shih-Jung Liu** Chang Gung University, Taiwan
Huayu Tian Changchun Institute of Applied Chemistry, CAS, China

08:30–09:10	Ernst Wagner	Ludwig Maximilians University, Germany <i>Beyond 25 years in polymeric gene delivery: challenges, breakthroughs and</i>
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	<i>perspectives</i> (Special Lecture on Gene Delivery)	
09:10–09:35	Suzie H. Pun	University of Washington, USA <i>Phage panning, peptides, and polymers: from ligand identification to in vivo medical applications</i>
09:35–10:00	Tom Davis	Monash University, Australia <i>Theranostic hybrid polymer nanoparticles</i>
10:00–10:30	COFFEE	
10:30–11:50	SESSION NINE	
	Chairs:	Margit M. Janát-Amsbury University of Utah, USA Adley F. Rubira State University of Maringá, Brazil
10:30–11:00	Wim E. Hennink	Utrecht University, The Netherlands <i>Polymeric micelles for targeted drug delivery</i> (Leading Lecture)
11:00–11:25	Seung Jin Lee	Ewha Womans University, Korea <i>Stem cell delivery and regenerative medicine for intractable diseases</i>
11:25–11:50	Victor C. Yang	Tianjin Medical University, China <i>A CPP-modified ATTEMPTS system for drug delivery</i>
11:50–12:00	CLOSING OF SYMPOSIUM	
12:00–13:30	Lunch (Garden Hotel Chinese or Western Restaurant)	

AFTERNOON & EVENING

13:30–20:00	Visiting the Humble Administrator's Garden and Suzhou Industrial Park including Suzhou BioBay or Nano Polis (you may select one of the two during registration) 参观拙政园和苏州工业园区（包括苏州生物园或纳米城，任选一）
13:30–15:30	Bus leaving from Garden Hotel Guided tour to Humble Administrator's Garden.

Group One:

15:30–16:30	Visiting Suzhou Industrial Park.
16:30–17:30	Visiting Suzhou BioBay or Nano Polis.

Group Two:

15:30–16:30	Visiting Suzhou BioBay or Nano Polis.
16:30–17:30	Visiting Suzhou Industrial Park.

17:30–19:30	Buffet at World Hotel Grand Dushulake Suzhou (苏州独墅湖世尊酒店自助晚餐).
19:30–20:00	Bus back to Garden Hotel.

ACKNOWLEDGEMENTS: The Banquet is personally sponsored by Kyung & Sung Wan Kim. The Welcome Reception and Tour to the Humble Administrator's Garden are personally sponsored by Hilda & Jan Feijen. The Buffet at the World Hotel Grand Dushulake Suzhou is sponsored by SIP.

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POSTER PRESENTATIONS

NO.	TITLE	ABSTRACT BOOK PAGE
1	Drug release mechanisms of chemically cross-linked albumin microparticles: effect of the matrix erosion <i>Danielly L. A. Sitta, Marcos R. Guilherme, Edvani C. Muniz, Artur J. M. Valente, Adley F. Rubira</i>	59
2	Antibacterial ciprofloxacin hydrochloride incorporated PVA/regenerated silk fibroin nanofibers composite for wound dressing applications <i>Ahmed A. El-Shanshory, Weiming chen, Hany A. El-Hamshary, Salem S.Al-Deyab, Xiumei Mo</i>	60
3	Cell laden and patterned chitosan microgel for micro-scale tissue engineering <i>Baoqiang Li, Lei Wang, Jinghao Guo, Feng Xu, Daqing Wei, Yujie Feng, Yu Zhou</i>	61
4	Long-term release of water-soluble drugs using microsol-electrospun nanofiber sheets <i>Li Zhou, Caihong Zhu, Wenguo Cui, Huilin Yang, Bin Li</i>	62
5	Nanoparticles targeting to osteoblasts for potential intracellular pathogen elimination <i>Xueqin Chen, Bingbing Jiang, Therwa Hamza, Bingyun Li</i>	63
6	W/O nanoemulsion-based intranasal drug delivery system of panax notoginseng saponins for brain targeting <i>Zhiying Ding, Yue Zhang, Na Wen, Zhihui Sun, Chenhao Li, Bingren Zhang</i>	64
7	Rapid detection of rare-event cell by SUPER Dots based diagnostics nano-platform <i>Bingyang Shi, Dayong Jin</i>	65
8	Synthesis of acid-degradable hyperbranched poly(resveratrol-co-ketal)-b-mPEG nanoparticles <i>Bo Han, Fei Ma, Xianglong Zou, Zhongyu Li</i>	66
9	Multifunctional three-dimensional scaffolds for treatment of spinal cord injury <i>Bo Shi, Jianxun Ding, Xiuli Zhuang, Xuesi Chen, Zhihao Niu, Changfeng Fu</i>	67
10	Co-delivery of doxorubicin and amphiphilic derivative of Gd-DTPA with lipid-polymer hybrid nanoparticles for simultaneous imaging and targeted therapy of cancer <i>Bo Wu, Can Cui, Lei Liu, Ping Yu, Yang Zhang, Ming Wu, Liu-Jie Zhang, Ren-Xi Zhuo, Shi-Wen Huang</i>	68
11	Extracellular pH-sensitive mixed micelles for prostate tumor targeted anticancer drug delivery <i>Ding Qu, Jing-Wei Xue, Ran Mo, Cao-Yun Ju, Xiang Jin, Can Zhang</i>	69
12	Self-assembled amphiphilic sequence-defined PEGylated three-arm via NCL oligo(ethan amino) amides reaction for drug delivery: impact of building blocks on controlled release <i>Can Yang Zhang, Christina Troiber, Bin Zhao, Ernst Wagner, Li Juan Zhang</i>	70
13	Sequential intra-intercellular nanoparticle delivery system for localized delivery of doxorubicin <i>Caoyun Ju, Ran Mo, Can Zhang</i>	71
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16	Design of pH-sensitive supramolecular assembly for cell targeting and controlled release <i>Peiqing Liang, Wei Zhang, Ting Kang, Nan Wu, Changyun Quan, Chao Zhang</i>	74
17	Disulfide-based cationic polyurethanes for gene transfection in human primary cells <i>Xin Tang, Peng Zhao, Xuejun Wen, Chao Lin</i>	75
18	PLK1shRNA and doxorubicin co-loaded thermosensitive PLGA-PEG-PLGA hydrogels for localized and combined treatment of human osteosarcoma <i>Chaoliang He, Hecheng Ma, Yilong Cheng, Dongsong Li, Yubao Gong, Jianguo Liu, Huayu Tian, Xuesi Chen</i>	76
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26	Regulation of hydrophobicity of polyphosphoester based drug delivery system for enhanced cancer therapy <i>Chunyang Sun, Yinchu Ma, Yang Liu, Xianzhu Yang, Jun Wang</i>	84
27	Targeting glucose uptake of glioma cells by siRNA delivery with polymer nanoparticle <i>Cong-fei Xu, Yang Liu, Song Shen, Yan-hua Zhu, Jun Wang</i>	85
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