

14 SEPTEMBER 2018 | FRIDAY

REGISTRATION 13:00-21:30

Main Building Lobby of Worldhotel Grand DushuLake

WELCOME RECEPTION 18:00-20:30

gene editing

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 KimUniversity of Utah, USAAndreas LendleinHelmholtz-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 <i>Protein cages as new tools for nanomedicine</i>
09:25-09:50	Yi Yan Yang Institute of Bioengineering and Nanotechnology, Singapore <i>Macromolecular chemotherapeutics that mitigate resistance in cancer and prevent metastasis</i>
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 Yong-Hee Kim John Wiley & Sons Inc (Beijing), China Hanyang University, Korea
10:45-11:10	Benzhong Tang Hong Kong University of Science and Technology, Hong Kong <i>Theranostics based on AIEgens</i>
11:10-11:35	Theresa M. Reineke University of Minnesota, USA Controlled polymer synthesis and assembly to promote drug delivery and cellular

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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 Zhuang Liu University of Minnesota, USA 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 <i>Organic nanoparticles for sensing, imaging and therapy</i>
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

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08:30-10:10	SESSION FOUR	(Watson Auditorium)
Chairpersons:	Kinam Park Ruibing Wang	Purdue University, USA University of Macau, China
08:30-08:55		Korea Institute of Science and Technology, Korea cular probes for drug delivery
08:55-09:20	,	niversity of Texas Southwestern Medical Center, USA ular cooperativity for precision medicine

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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 <i>Hybrid functional materials from metal-phenolic networks</i>
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 <i>Polydopamine coating and TANNylation: Mussel and plant-inspired biomaterial studies</i>
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 FeijenSoochow University, ChinaWim E. HenninkUtrecht 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 <i>Polymer network carriers that switch their shape</i>
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

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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 Weiping Gao Freie Universität Berlin, Germany Tsinghua University, China
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15:50–16:15	David Kaplan Tufts University, USA Engineering silk protein delivery systems
15:50–16:15 16:15–16:40	
	Engineering silk protein delivery systems Xuesi Chen Changchun Institute of Applied Chemistry, CAS, China Tumor selective hypoxia induced by vascular disrupting agents: Towards highly
16:15–16:40	Engineering silk protein delivery systems 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 Giuseppe Battaglia University College London, UK
16:15–16:40 16:40–17:05	 Engineering silk protein delivery systems 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 Giuseppe Battaglia University College London, UK Precision targeting nanomedicines: principles and applications Richard Hoogenboom Ghent University, Belgium
16:15–16:40 16:40–17:05 17:05–17:30	 Engineering silk protein delivery systems 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 Giuseppe Battaglia University College London, UK Precision targeting nanomedicines: principles and applications Richard Hoogenboom Ghent University, Belgium Poly(2-oxazoline)s as potent(ial) biomaterials
16:15–16:40 16:40–17:05 17:05–17:30	 Engineering silk protein delivery systems 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 Giuseppe Battaglia University College London, UK Precision targeting nanomedicines: principles and applications Richard Hoogenboom Ghent University, Belgium Poly(2-oxazoline)s as potent(ial) biomaterials CLOSING OF SYMPOSIUM (Watson Auditorium)

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

NO. TITLE

- Nano-liposomes for resveratrol delivery with potential anti-cancer activities Jun Wang, Ning Li, Aimin Shi, Qiang Wang
- pH responsive H₂S-releasing biomimetic hydrogel promoting wound regeneration by M2 macrophage polarization

Angi Chen, Yajiao Zhou, Sen Zheng, Jian Xiao, Jiang Wu, Xiaokun Li

3 Antibacterial conducitve anti-oxidant hydrogel with hemostasis and adhesiveness for wound dressing

Baolin Guo, Xin Zhao, Peter Ma

- 4 Shedding light on photo-triggered capsules
 Bartosz Tylkowski, Anna Trojanowska, Valentina Marturano, Veronica Ambrogi, Pierfrancesc
 Cerruti, Marta Giamberini
- Facile synthesis of a new manganese based dendritic MRI contrast agent with intrinsic chelators Bing Xiao, Xiaoxuan Zhou, Dongdong Li, Zhuxian Zhou, Xiangrui Liu, Jianbin Tang, Youqing Shen
- Preparation of high stable and size tunable alkylated lignin microspheres by amphiphilic modification for a long-term delivery of hydrophobic anticancer drugs Bingqi Li, Wei Qi, Rongxin Su, Zhimin He
- 7 Engineering zwitteroinic matierals for safe and efficacious protein delivery *Bowen Li, Shaoyi Jiang*
- 8 Silicone implants capable of the local, controlled delivery of triamcinolone for the prevention of fibrosis with minimized drug side effects

 Byung Ho Shin, Chan Yeong Heo, Young Bin Choy
- 9 Tuning cell behaviour by nanoparticles shape C. De Pace, E. Scarpa, A. Poma, L. Rizzello, G. Battaglia
- Glucose and H₂O₂ dual-sensitive nanogels for enhanced glucose-responsive insulin delivery Chang Li, Gang Wu, Ying Liu, Yong Liu, Juan Lv, Rujiang Ma, Yingli An, Linqi Shi
- Multifunctional Bi₂WO₆ nanoparticles for CT-guided photothermal and oxygen-free photodynamic therapy

 Chao Zhang, Yong Hu
- 12 Cell-loaded thermosensitive hydrogel releasing PEG-NELL-1 as sustained drug delivery system on cartilage repair

 Chaohua Gao, Chenyu Wang, Fan Yang, Hui Jin, Zhonghan Wang, Zuhao Li, Chenyu Shi, Yi Leng, He Liu, Jincheng Wang
- Blood-brain tumor barrier-penetrating nanoconstruct system delivers doxorubicin and manganese dioxide for the diagnosis and treatment of glioma

 Chaoping Fu, Xiaohui Duan, Huyan Ting, Jun Shen, Li-Ming Zhang
- 14 Heparin-mimicking bFGF conjugate accelerating wound regeneration by stabilizing bFGF Chaoqun Cheng, Junyi Zhu, Yajiao Zhou, Sen Zheng, Xuan Xuan, Ying An, Wen Huang, HuachengHe, Jiang Wu, Jian Xiao, Xiaokun Li
- 15 Antibacterials mesh for pelvic organ prolapse based on nanocellulose Chen Lai, Xuetao Shi, Shujiang Zhang
- Biodegradable hyperbranched poly (beta-amino esters) for gene delivery and CXCR4 antagonism Chenfei Zhu, Yixin Wang, Jinwen Dong, Minjie Sun, David Oupicky

- 17 Enhancement of tumor therapy through the tegulation of tumor IFP *Cheng Li, Xiqun Jiang*
- Nanosheets loaded with antibacterial factor and coagulation factor used for wound hemostasis and anti-infection

 Chengkai Xuan, Chen Lai, Xuetao Shi
- 19 A pH-triggered drug delivery system for cancer therapy: toward disrupting lysosomes and overcoming drug resistance

 Chenxu Zhang, Ao Yu, Yongjian Wang
- Adipose-derived stem cells and EGF-loaded hydrogel synthesized by polyvinyl alcohol and poly aminophenyl boronic acid enhances wound healing in diabetic rats

 Chenyu Shi, Chenyu Wang, Hui Jin, Zhonghan Wang, Zuhao Li, Chaohua Gao, Yi Leng, Fan Yang, He Liu, Jincheng Wang
- In situ monitoring of the interaction between the model membrane and a pH-responsive polymer *Chu Wang, Yuchen Chang, Ting Wang, Xiaolin Lu*
- Photoactive targeted hybrid nanoassemblies for cancer combined photo-chemotherapy *Qiuyue Liu, Jiming Xu, Yingxue Zhang, Chunhui Wu*
- Monitoring based on resonance Raman for "phase-shifting" π-conjugated polydiacetylene vesicles upon host-guest interaction and thermal stimuli *Chunzhi Cui*
- 24 Ultrasound-triggered release system based on perfluorocarbon nanodroplets encapsulated fluorinated rhodamine 6G-mesoporous silica nanoparticles Hongrui Zhu, Dui Qin, Nan Chang, Mingxi Wan, Daocheng Wu
- Tumor-targeted therapy strategies based on tumor-associated macrophages Bingjie Wang, Mengna Liu, Xinxin Fan, Lei Fang, Daquan Chen
- Control release of silver-loaded polyamide microspheres/nanofibers composite Di Huang, Jingjing Du, Yan Wei, Weiyi Chen, Lian Xiaojie, Yinchun Hu
- Targeted intracellular co-delivery of peptide inhibitor and FOXA1 siRNA for synergistic therapy of breast cancer

 Di Li, Jianxun Ding, Zigang Li
- Porphyrinic covalent organic framework nanoparticles for photothermal cancer treatment Dianwei Wang, Zhe Zhang, Huayu Tian, Xuesi Chen
- 29 Protein-templated synthesis of metal-organic nanoparticles for effective anticancer therapy Ding Hu, Hongxia Xu, Zhuxian Zhou, Xiangrui Liu, Jianbin Tang, Youqing Shen
- 30 Anti-inflammatory drug-based nanocarrier system for anticancer immunotherapy

 Dongdong Li, Bing Xiao, Ding Hu, Zhuxian Zhou, Xiangrui Liu, Jianbin Tang, Youqing Shen
- A space-time biphasic drug release system fabricated through electrospraying and electrospinning for transdermal drug delivery

 *Dongdong Zhang, Xinran Song, Meiqi Sun, Hongsheng Wang**
- 32 Dual drug backboned shattering polymeric theranostic nanomedicine for synergistic eradication of patient-derived lung cancer
 Zigui Wang, Yuwei Cong, Dongfang Zhou, Xuesi Chen, Yubin Huang
- Clustered magnetic nanocarriers for photothermal-chemotherapy of tumor and lung metastasis by inducing proinflammatory polarization of tumor-associated macrophages and improving tumor penetration

 Dongqing Wang, Tianyu Zheng, Pan Ji, Mengxue Zhou, Huiru Lu, Yi Hu, Jun Chen
- 34 Redox/pH dual-responsive targeted DOX/ICG loaded polymeric micelles for chemo-photothermal combination therapy

 Yu Qin, Zhiming Zhang, Fanfan, Chenlu Huang, Linhua Zhang, Dunwan Zhu

- pH-Responsive polymer-lipid-incorporated nanovesicles for intracellular delivery of anticancer drug and antigens

 Eiji Yuba, Tomohiro Osaki, Atsushi Harada
- Mesoporous silica nanorods as a tumor-microenvironment-responsive platform for cancer therapy Fan Yang, Weifeng Zhao, Changsheng Zhao
- 37 A portable electrospinning device capable of delivering multiple essential materials for wound care *Francis Brako, CJ Luo, Duncan Craig, Mohan Edirisinghe*
- Green synthesis of iron oxide nanoparticles by green tea for drug delivery
 Fang Zhang, Lei Nie, Meng Sun, Can Wang, Shaolan Sun, Jingjing Zhang, Jilai Cui, Hongyu Yuan
- PAK5 inhibits apoptosis through mitochondorial pathway in vascular smooth muscle cells Fanglin Man, Tianyi Song, Xin Sun
- 40 Disulfide-crosslinked nanogel for bladder cancer-specific doxorubicin delivery Faping Li, Hui Guo, Heping Qiu, Yuchuan Hou
- 41 A bioactive scaffold for tendon regeneration in a chronic rotator cuff tear model *Fei Han, Peng Zhao, Chao Lin*
- Inhibition of osteoclast genesis by polymeric hybrid micelle-encapsulated microRNA-124 and its activity against rheumatoid arthritis

 Fei Hao, Lihuang Zhong, Chunmiao Yang, Robert J. Lee, Di Wang, Lesheng Teng
- 43 Altering cytoskeleton reorganization via chloroquine-modified dextrin nanogel to prevent metastatic breast cancer

 Feiran Zhang, Jingwen Dong, Yiwen Zhou, Bowen Duan, Zhaoting Li, Gang Chen, Minjie Sun,
 David Oupicky
- Emulsion—templating preparation of nanocarrier with prolonged circulation and potential applications in drug delivery

 Feng Ding, Shuang Yang, Qiong Dai, Peiyu Zhang, Jianman Guo, Zhiliang Gao, Jiwei Cui
- 45 Activatable photoacoustic imaging nanoprobe for precise cancer diagnosis *Feng Liu, Lin Lin, Huayu Tian, Xuesi Chen*
- Two-dimensional carbon nitride (C₃N₄) composite nanosheets for photodynamic therapy *Fengxian Qiu, Yao Zhu, Kaili Mao, Tao Zhang*
- 47 Low-cost, high-load and high-stability prodrug-based self-assembly nanocarriers for controlled release of bortezomib

 Fuli Zhao, Tenglong Mei, Liandong Deng, Anjie, Dong, Jianhua Zhang
- 48 Trophic transfer of nanoparticles in food chain: A review *Gaozhong Pu*
- 49 Local delivery of polydopamine nanoparticles/doxorubicin hydrochloride loaded core-shell microspheres for enhanced photothermo-chemotherapy *Guoli Ni, Guang Yang, Shaobing Zhou*
- Nanoparticles based on novel crosslinkable temperature responsive polyaspartamide copolymer containing α, β-unsaturated carbonyl moieties

 Jun Zhou, Junjian An, Guangyan Zhang
- Design and construction of hybrid microcapsules for cancer therapy Guangyu Wu, Xin Huang, Yudong Huang
- 52 Synthesis of a feather keratin/carboxymethyl cellulose complex exhibiting pH sensitivity for sustained pesticide release *Guanquan Lin, Xi Chen, Hongjun Zhou, Xinhua Zhou, Hua Xu, Huayao Chen*
- GA-modified multi-funcional hyaluronic micelles for codelivery of all-trans retinoic acid and doxorubicin: *in vitro* and *in vivo* evaluations

 Guixiang Tian, Hong Jiang, Zhipeng Li, Jinhua Dong, Zhiqin Gao, Bo Zhang, Jingliang Wu

- Multifunctional asymmetric wettable nanoparticles/chitosan composite scaffold as wound dressing for treating chronic wounds

 Guixue Xia, Hongxia Li, Yuanyuan Gao
- Optimization and evaluation of rapamycin loaded magnetic graphene oxide nanocomposites Zhide Zhou, Nan Yan, Guiyin Li
- Sugar-sensitive dynamic biointerface for controlled cell adhesion and release *Yue Ma, Jianming Pan, Guoqing Pan*
- Water-soluble and UV crosslinkable C6-allyl specific substituted chitosan via amino groups protection

 Haichang Ding, Baoqiang Li, Yujie Feng, Daqing Wei, Dechang Jia, Yu Zhou
- Erythrocyte-membrane mimicking manganese dioxide as tumor microenvironment-responsive multifunctional agent favoring combined chemo-chemmodynamic therapy *Haijun Wang, Tiaotian Xie, Shiwei Niu, Junzi Wu, Li-min Zhu*
- Impact of photothermal treatment mediated by Au-based nanoparticles on mice neutrophil genetic profile

 Haiqing Dong, Yan Li, Ya Wen, Yiqiong Liu, Lianghua He, Huaiji Wang, Yongyong Li
- Folated pH-degradable PVA nanogels for targeted cancer chemoimmunotherapy *Haishi Qiao, Dechun Huang, Enping Chen, Hongliang Qian, Lin Dai, Wei Chen*
- 61 pH-responsive core-shell nanoparticles for enhanced uptake by cancer cells *Haiyan Sui, Shuli Dong, Jiwei Cui*
- 62 Combination of polymeric combretastatin A4 and berberine for cancer treatment *Haiyang Yu, Zhaohui Tang, Xuesi Chen*
- An artificial vascular graft with an inner layer co-modified by salvianolic acid B and heparin Haizhu Kuang, Yao Wang, Shuofei Yang, Yosry Morsi, Shuyang Lu, Xiumei Mo
- 64 Ligand-modified alginate hydrogels as three-dimensional scaffolds promotes the differentiation of iPSC-derived NPC spheroids towards oligodendrocytes *in vitro*Han Wen, Wenwu Xiao, Zhaoqing Cong, Feifei Yang, Xinmin Liu, Wenbin Deng, Yonghong Liao
- Oxidation-responsive polypeptide toward conformation-specific self-assembly

 Hang Liu, Yi Zheng, Cheng Cheng, Mingming Ding, Jing Wei, Rui Wang, Hong Tan, Qiang Fu
- Synthesis heterofunctional dendrimer by passerini multicomponent reaction as a multi-stimuli responsive drug nanocarrier

 Yu Zhang, Ho-An Kim, Naganath G. Patil, Tran Hoang Chinh, Eun Hye Jang, Il Kim
- 67 Gd-DTPA-loaded compound micelles co-delivering doxorubicin and microRNA-34a for cancer therapy and MR imaging

 Xiaoxue Xie, Zhongyuan Chen, Hanxi Zhang, Xue Shen, Tingting Li, Hong Yang
- The improved blood compatibility of polyurethane electrospun fibrous membrane modified with tourmaline nanoparticles for the small caliber vascular graft *Jinsheng Liang, Tianyu Zhao, Na Hui, Hong Zhang*
- 69 In vitro and in vivo evaluation of novel SN-38-loaded mPEG-PCL/ PC hybrid nanoparticles Hongwan Dang, Mengyue Gan, Wenping Zhang, Shijie Wei
- Cuprous oxide templated layer-by-layer polymer capsules with diverse morphologies Hongyan Pei, Jiwei Cui
- Redox-sensitive fluorinated poly(amidoamine)s delivered vaccines for tumor immunotherapy Hongyuan Yuan, Wei Xue, Zonghua Liu
- 72 Preparation and structural characterization of rice protein with less content of phenylalanine for phenylketonuria

 Hongzhi Liu, Xiaojing Sheng, Aimin Shi, Li Liu, Hui Hu, Qiang Wang

- pH-Responsive adhesive polyphenol-peptide molecular-glue coating for combating thrombosis and bacteria
 - Hua Qiu, Zhilu Yang, Nan Huang
- Monocytes engineered with multifunctional Au nanorod for light mediated release Huaiji Wang, Lianghua He, Yongyong Li
- 75 Tumor-specific activated photodynamic therapy with an oxidation regulated strategy for enhancing anti-tumor efficacy synergistically Huan Liang, Zhanwei Zhou, Wenyuan Liu
- An enzyme-sensitive shielding strategy for polycationic gene delivery system Huapan Fang, Jie Chen, Lin Lin, Huayu Tian, Xuesi Chen
- 77 Enzyme-sensitive PEG/polyglutamic acid based micelles for photodynamic therapy as well as reducing the metastasis of cancer

 Hui Chen, Shuang Li, Tongtong Zhao, Bingbing Jiang, Cao Li
- Functional component of tetraphenylene fluorophore facilely incorporated into pH-responsive cleavable PEGylated polyplex for promoted gene transfection *Zhu Jiang, Qixian Chen, De-E Liu, Wei Li, Shuai Chen, Hui Gao*
- Positively charged polypeptide nanogel with improved mucoadhesiveness to overcome drug resistance of bladder cancer

 Hui Guo, Weiguo Xu, Heping Qiu, Yuchuan Hou, Chunxi Wang, Jianxun Ding
- 80 Actively targeted binary-drug loaded liposomes for synergistic therapy of breast cancer *Huili Sun, Jingya Zhao, Lingqiao Liu, Shaobing Zhou*
- Mitochondria-targeting delivery of artemisinin for highly efficient cancer therapy

 Hui Yu, Wei Zhou, Qian Wang, Kai Deng, Jia-Mi Li, Kun-Heng Li, Ren-Xi Zhuo, Shi-Wen Huang
- A sensitive antibody-free fluorescent nanoprobe for detection of β-Amyloid peptide *Huiru Yang, Han Sun, Shu Wang, Linqi Shi*
- Microneedle combined with electrospinning flims for diabetic uclers repair and diabetes therapy Huishang Yang, Chen Lai, Xuetao Shi
- Tumor microenvironment-responsive core-shell disassociation nanosystem with charge-reversal property for treatment of chemoresistant breast cancer

 Lei Zhao, Daan Fu, Bingcheng Chang, Zhilan Ye, Jia Liu
- pH-Sensing polymeric-inorganic hybrid nanocomposite as an MRI-visible gene delivery system Jiali Cai, Shihui Huang, Changhui Deng, Hong Liu, Zhiyong Wang, Junyao Xu
- pH Responsive drug delivery system based on amino terminated hyperbranched polymer modified reduced graphene oxide

 Wei Zhang, Jiamu Dai, Yi Zhang, Qianyu Wang
- Polymeric combretastatin A4-induced MMP9-signal-amplification boosts tumor-selective targeting of matrix metalloproteinase—activated doxorubicin prodrug nanomedicine *Jian Jiang, Na Shen, Haiyang Yu, Zhaohui Tang, Gao Li, Xuesi Chen*
- Coassembly approach to pH-sensitive, high-targeting DOX-loaded nanoparticles with the ability of in situ self-gelation for tumor local sustained and controlled drug delivery *Fuli Zhao, Anjie Dong, Di Wu, Huiming Liu, Liandong Deng, Ruiwei Guo, Jianhua Zhang*
- Tea-leaf-like self-folding polylactic acid composite with crumpled morphology for long-term drug delivery

 Jinxin Liu, Runrun Wu, Yue Ma, Xiaohui Dai, Jianming Pan
- 90 Dynamically PEGylated and borate-hierarchical-pore metal-organic frameworks for synergetic targeted drug delivery Shucheng Liu, Yue Ma, Guoqing Pan, Jianming Pan
- Hollow mesoporous silica nanoparticles with glutathione-sensitive prodrug gatekeeper for synergistic chemo/photothermal therapy

- Jianrong Wu, Shiwei Niu, Xueyi Zhang, Yanbo Yang, Haijun Wang, Li-Min Zhu
- Ocarbon quantum dots (CQDs) modified monodispersed colloids as chemically crosslinkers for ultrahigh strength pHEMA hydrogels with hierarchical microstructure Jianying Wang, Yuhua Zhu, Xiang Zhu, Xiaofei Ma, Honghao Jiang
- 93 Shell thickness of surface-coated copolymer of core-shell structured P@BMMs and its effects on the ibuprofen delivery via SAXS characterization Jiayu Ma, Jihong Sun, Shiyang Bai, Xia Wu
- A novel wrinkled-surface and pH-responsive polymer particles for drug delivery Jin Liu, Rumin Wang, Qiuyu Zhang
- 95 Facile synthesis of hollow mesoporous silica spheres with ordered radial mesochannels *Jing Hu, Yudi Zhang*
- 96 Fabrication and properties of silk fibroin microcapsules loaded with osmanthus oil *Jing Hu, Lei He*
- 97 Self-assembled nanoscale coordination polymers carrying doxorubicin for effective chemotherapy and photothermal cancer therapy *Jing Li, Cuiting Zhang, Minjie Sun*
- Green synthesis of carbon dots for bio-optical and magnetic resonance imaging Jingmin Wang, Lei Jiang, Paulo C. Morais, Hong Bi
- 99 Hypoxia-responsive nanoparticles for prolonged circulation time and enhanced tumor penetration Jingru Zhen, Yang Liu, Linqi Shi
- 100 Photoluminescence enhancement of conjugated poly (3-methylthiophene) nanowires upon length variable DNA hybridization

 Jingyuan Huang, Chunzhi Cui
- Erythrocyte membrane-coated polypeptide nanogel for targeted prostate cancer chemotherapy Jixue Wang, Shengxian Li, Weiguo Xu, Chunxi Wang, Jianxun Ding
- Silver and copper nanoparticles grown on carbon nanomaterials for the treatment of bacteria and their biofilm
 Jonghoon Choi
- 103 PEGylated graphene-oxide wrapped gold nanorods/mesoporous silica nanoparticles for nearinfrared-activated drug delivery Jun Shi, Zheng Zhang, Zeer Qi, Shaokui Cao
- 104 Construction of antibacterial Polylactide nanofibers via biomimetic assisted self assembly Lina Wang, Feng Zhang, Lan Liao, Junchao Wei
- The pH-triggered nanocarrier enabled highly efficient siRNA delivery *in vitro* and vivo *Junhui Zhou, Lili Du, Yuanyu Huang, Zicai Liang, Anjie Dong*
- Preparation of the bacteria-responsive antimicrobial surface based on titanium nanotubes Junjian Chen, Lin Wang
- bFGF modified magnetic nanoparticles with heparin-dopamine polymer control macrophage polarization to promoting wound healing.

 Junyi Zhu, Xuan Xuan, Yi Li, Shishuang Jiang, Huacheng He, Jian Xiao, Jiang Wu, Xiaokun Li
- In vivo visual detection of ROS generated in photodynamic therapy via oxidation-triggered aggregation enhanced magnetic resonance imaging
 Kai Deng, Qian Wang, Yang Zhang, Hui Yu, Jia-Mi Li, Kun-Heng Li, Bo Wu, Ren-Xi Zhuo, Shi-Wen Huang
- NIR-mediated thermal, upconversion, persistent luminescence imaging of latent fingerprints based on self-assembled hybrid vesicles

 Kai Song, Xuemei Liu, Jingang Mo, Shuquan Xin, Shuyan Huang, Chengwen Lu

- Synthesis of perylenediimide-cored dendrimers as dendritic fluorescent probes for tumor imaging 112
 - Kaiqi Wang, Zhuxian Zhou, Hailin Cong, Bing Yu, Youqing Shen
- BMP-2 peptides loaded 3D nanofibers scaffolds based on electrospinning for bone regeneration Kaiqiang Ye, Wei Shen, Xiumei Mo
- 112 Magnetically-responsive porous carbon@hydroxyapatite core-shell nanospheres for dual anticancer drug delivery
 - Kangmin Zhang, Miaomiao Wang, Jing Zhao, Jianan Zhang
- 113 A targeted strategy for polycationic gene delivery system Kui Wang, Jie Chen, Lin Lin, Huayu Tian, Xuesi Chen
- The liposome delivery siRNA for cancer therapy

 Kuirong Mao, Xiuxiu Cong, Xiandi Meng, Yongguang Yang, Tianmeng Sun
- 115 Modulation of bone morphogenetic protein-2 release via gelatin microparticels and coacervate loaded thiolated gelatin-PEGDA interpenetrating hydrogels for carvarial bone regeneration Sungjun Kim, Junhyung Kim, Byung-Jae Kang, Kyobum Kim
- 116 Coacervate-mediated dual growth factor delivery for scarless wound healing Uiseon Park, Min-suk Lee, Hee-seok Yang, Kyobum Kim
- The next-generation taxane loaded electrospinning nanofibers for *in situ* chemotherapy against glioma
 - Lan Mei, Yangmei Ren, Liangxue Zhou, Gang Guo
- Green synthesis of nitrogen-doped carbon dots from red maple leaves for cell imaging *Lei Jiang, Jingmin Wang, Qiyang Wang, Hong Bi*
- 119 Dendrimer-in-hydrogel delivery system for combining chemotherapy and immunotherapy *Lei Jiang, Xiqun Jiang*
- Preparation of folate-decorated pH-responsive zwitterionic polymeric prodrug and its application for drug deliver
 - Lei Li, Yue Song, Jinlin He, Mingzu Zhang, Peihong Ni
- Magnetic microbeads with dynamic bioactivity for capture and release of circulating tumor cell *Xiaohua Tian, Guoqing Pan, Lei Liu*
- Sustained release of dexamethasone through cyclodextrin/self-assembing peptide based nanoscaffold to reduce neuroinflammation induced by perinatal hypoxic-ischemic brain injury *Lei Lu, Larry D. Unsworth*
- 123 Extracellular matrix inspired programmed sequential release of dual growth factors for bone tissue engineering
 - Lei Nie, Pei Li, Can Wang, Chingching Ji
- Experimental and computational study of the mechanical reinforcement of dental resin composites 126
 - Lei Pan, Bei Li, Chao Zha, Gang Chen, Zhengzhi Wang
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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