

2nd Tohoku University-Sichuan University Pharmaceutical Sciences Collaboration Symposium

September 24-25, 2019

Sendai

Graduate School of Pharmaceutical Sciences, Tohoku University Building C, Room 101

Organized by Graduate School of Pharmaceutical Sciences, Tohoku University Co-organized by Tohoku University Advanced Graduate Program for Future Medicine and Health Care Sponsored by Japan Agency for Medical Research and Development (AMED) Supported by Sendai City

Preface

On behalf of the organizing committee, I would like to express our deep gratitude to all participants for their presence at the 2nd Tohoku University-Sichuan University Pharmaceutical Sciences Collaboration Symposium in Sendai September 2019.

This symposium is based on our exchange agreement at the first symposium which was successfully held at West China School of Pharmacy, Sichuan University in May 4th, 2019 in Chengdu. It was the very great opportunity for both universities to exchange scientific opinions on recent advances in pharmaceutical sciences.

We hope all of the participants will have fruitful time for discussion and information exchange during this symposium. One of the important missions of our exchange program is to encourage young researchers who will succeed and expand our activities and we really hope the further promotion of our academic exchange toward the next generation.

I am very grateful for all your generous supports.

Yoshinori Kondo, Ph.D., Dean and Professor Graduate School of Pharmaceutical Sciences Tohoku University



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-PROGRAM-

TUESDAY, SEPTEMBER, 24, 2019

Graduate School of Pharmaceutical Sciences, Tohoku University Building C, Room 101

	Opening Remarks	
13:00~13:05	Prof. Yoshinori Kondo (Tohoku University)	
13:05~13:10	Prof. Yong Qin (Sichuan University)	
	Lectures	
Chair: Prof. Hi	detoshi Tokuyama (Tohoku University)	
13:10~13:40	Prof. Yong Qin (Sichuan University)	
	Title: Total syntheses of atropurpuran and arcutinine	
13:40~14:10	Prof. Yoshiharu Iwabuchi (Tohoku University)	
	Title: Highly chemoselective aerobic alcohol oxidation using AZADO-copper catalysis	
14:10~14:40	Prof. Jinsong Yang (Sichuan University)	
	Title: Study on the synthesis of natural glycosides	
	Student's Session (graduate: 15 min, under graduate: 7 min)	
Chair: Prof. M	asanori Shigeno (Tohoku University)	
14:40~14:55	Yuse Kuriyama (Supervisor: Prof. Yoshiharu Iwabuchi, Tohoku University)	
	Title: Catalytic Regioselective Intramolecular Aminolysis of 3,4-Epoxy Amines	
14:55~15:10	Wei Huang (Supervisor: Prof. Jinsong Yang, Sichuan University)	
	Title: Stereoselective Synthesis of 3-Deoxy-D-manno-oct-2-ulosonoic acid(Kdo)	
	Glycosides	
15:10~15:17	Kohta Ide (Supervisor: Prof. Hidetoshi Tokuyama, Tohoku University)	
	Title: Synthetic studies on lecanindole D	
15:17~15:24	Katsuya Nakai (Supervisor: Masahiko Yamaguchi, Tohoku University)	

	Title: Synthesis of Cycloalkyl/Steroidal Heteroaryl Sulfides Using Rhodium-Catalyzed	
	Heteroaryl Exchange Reaction	
15:24~15:39	Rong Guo (Supervisor: Prof. Qin He, Sichuan University)	
	Title: Enhanced stability and efficacy of GEM-TOS prodrug by co-assembly with	
	antimetastatic shell LMWH-TOS	
Coffee Break (20 min)		
Lectures		
Chair: Prof. Noriyasu Hirasawa (Tohoku University)		
16:00~16:30	Prof. Tomohiro Konno (Tohoku University)	
	Title: Intelligent biointerfaces for smart nanomedicine and cell engineering	
16:30~17:00	Dr. Seon Hwa Lee (Tohoku University)	
	Title: Alternative approach for biomarker discovery through chemical modificomics	
17:00~17:30	Prof. Qin He (Sichuan University)	
	Title: Study on highly Efficient Anti-Tumor nano-delivery System	
* Banquet (18:00~)*		

WENDSDAY, SEPTEMBER, 25, 2019

Graduate School of Pharmaceutical Sciences, Tohoku Univerity Building C, Room 101

	Lectures		
Chair: Prof. N	Chair: Prof. Masahiko Yamaguchi (Tohoku University)		
09:00~09:30	Prof. Noriyasu Hirasawa (Tohoku University)		
	Title: Regulation of thymic stromal lymphopoietin, a master cytokine of allergy		
09:30~10:00	Prof. Xun Sun (Sichuan University)		
	Title: Designing lymph node-targeted nanocarriers for improved potency of cancer		
	vaccines		
10:00~10:30	Prof. Yotaro Matsumoto (Tohoku University)		
	Title: Development of evaluation method for phenylsulfate, a biomarker of diabetic		
	kidney disease, and organic synthesis and pharmacokinetics of TPL inhibitor as a		
	therapeutic candidate		
	Coffee Break (10 min)		
	Student's Session (graduate: 15 min, under graduate: 7 min)		
Chair: Prof. Y	Chair: Prof. Yotaro Matsumoto (Tohoku University)		
10:40~10:55	Rin Ichinohe (Supervisor: Prof. Noriyasu Hirasawa, Tohoku University)		
	Title: Application of TiO2 nanoparticles to anti-allergic materials		

10:55~11:02	Rio Yamamoto (Supervisor: Prof. Noriyasu Hirasawa, Tohoku University, Advanced
	Graduate Program for Future Medicine and Health Care)
	Title: Analysis of stability of mutated cytokine receptor-like factor 2
11:02~11:17	Yucheng Xiang (Supervisor: Prof. Yuan Huang, Sichuan University)
	Title: improved anticancer efficacy of doxorubicin mediated by human-derived
	cell-penetrating peptide dNP2
11:17~11:32	Ryota Kujirai (Supervisor: Prof. Yoshihisa Tomioka, Tohoku University)
	Title: Metabolite analysis of MA-5, a novel therapeutic drug candidate for mitochondrial
	disease
11:32~11:39	Li Hao (Sichuan University)
	Title: The data-mining of ADR signals for Cetuximab with the measures of
	disproportionality, based on real world data
11:39~11:46	Xuan He (Sichuan University)
	Title: Study on the effect and mechanism of didydrooroate dehydrogenase inhibitors on
	melanoma
11:46~11:53	Jiaxin Li (Sichuan University)
	Title: Mesenchymal stem cell extracellular vesicles-mediated drug delivery
11:53~12:00	Yuting Li (Sichuan University)
	Title: Advances in the research on the two sides of nicotine : pathogenicity and drug
	transformation
	Lunch
	Lectures
Chair: Prof. 7	Tomohiro Konno (Tohoku University)
13:30~14:00	Prof. Asuka Inoue (Tohoku University)
	Title: Understanding and manipulating signal transduction of G-protein-coupled receptors
14:00~14:30	Dr. Akihiro Sugawara (Tohoku University)
	Title: Construction of Silicon Containing Natural Product-like Libraries toward
	Expanding Chemical Space
	Student's Session (graduate: 15 min, under graduate: 7 min)
Chair: Prof. N	Mieko Arisawa (Tohoku University)
14:30~14:45	An Cheng (Supervisor: Prof. Kohji Fukunaga, Tohoku University)
	Title: FABP3 ligands inhibit α -synuclein oligomerization in Neuro2A cells
14:45~15:00	Midori Suzuki (Supervisor: Prof. Atsushi Matsuzawa, Tohoku University)
	Title: Nuclear-accumulated SQSTM1/p62-based ALIS act as microdomains sensing

	cellular stresses and triggering oxidative stress-induced parthanatos		
15:00~15:15	Gan Luo (Supervisor: Supervisor: Prof. Zhenlei Song, Sichuan University)		
	Title: The lessons learned from synthesizing sila-8H-indole via C-H bond amination		
15:15~15:30	Kotaro Yasoshima (Supervisor: Prof. Takayuki Doi, Tohoku University)		
	Title: Synthetic study for novel Foxo3a inhibitor JBIR-141		
	Coffee Break (20 min)		
	Lectures		
Chair: Prof. Yoshiharu Iwabuchi (Tohoku University)			
15:50~16:20	Prof. Zhenlei Song (Sichuan University)		
	Title: Rhodium-Catalyzed Reaction of Silacyclobutanes with Unactivated Alkynes to		
	Afford Silacyclohexenes		
16:20~16:50	Prof. Qiantao Wang (Sichuan University)		
	Title: The pros and cons of molecular dynamics simulation in drug discovery		
16:50~17:20	Prof. Takayuki Doi (Tohoku University)		
	Title: Synthesis and biological evaluation of natural product and its derivatives		
Closing Remarks			
17:20~17:25	Prof. Masahiko Yamaguchi (Tohoku University)		



日時: 9月24日(火)18時より 場所: 生協1F(麺コーナー前)

日本側参加費(当日お支払いください) 教員 2,000円(講演者の先生も歓迎) 学生 1,000円

申込締切日:9月17日(火)

申込先:分子設計化学分野 事務補佐 安倍 aiko.abe.a5@tohoku.ac.jp

※当日申込も受け付けますが、できるだけ事前にお知らせ願います。

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