Proceedings

International Symposium on Medicinal and Useful Plants in Pharmaceutical and Biomedical Sciences

between Japan - Nepal - Turkey - Italy

薬学・生命科学分野における薬用・有用植物に関する4国間国際シンポジウム June 1-2, 2024

主催:熊本大学薬学部

共催: 4 国間(日本・ネパール・トルコ・イタリア)国際シンポジウム組織委員会

組織委員長(共同):渡邊高志、藤田美歌子

事務局: 漢方・生薬「温故知新」講座組織委員会

会場: 熊本大学薬学部宮本記念館 (熊本市中央区大江本町 5-1)

Organizer: School of Pharmacy, Kumamoto University

International Symposium on Medicinal and Useful Plants in Pharmaceutical and Biomedical Sciences

between Japan - Nepal – Turkey - Italy

June 1-2, 2024

Welcome Message

1 June 2024

Dear Delegates:

On behalf of the Organizing Committee, I welcome you all to International Symposium on Medicinal and Useful Plants in Pharmaceutical and Biomedical Sciences between Japan - Nepal – Turkey – Italy

The foundation of the Symposium is JSPS Bilateral Joint Research Project (2016-2017) "Development of inducers of anti-viral host factors based on Turkish medicinal plants and synthetic compounds". The Project is borderless, involving virologists, molecular biologists, medicinal botanists, natural product chemists, synthetic organic chemists, and bioorganic medicinal chemists between Japan to Nepal – Turkey - Italy sides.

The horizon of the Symposium is endless and limitless. We welcome all discipline of pharmaceutical and biomedical sciences. We welcome very active discussion from participants of many countries.

Let's kick off the global joint research with this Symposium.

Takashi Watanabe

Department of Medicinal Plants, School of Pharmacy *Kumamoto University, Japan.*

Mikako Fujita

Department of Bioorganic Medicinal Chemistry, School of Pharmacy, *Kumamoto University, Japan.*

Stefano Dall'Acqua

Department of Pharmaceutical and Pharmacological Sciences, *University of Padova, Italy.*

International Symposium on Medicinal and Useful Plants in Pharmaceutical and Biomedical Sciences

between Japan and Nepal – Turkey - Italy

Date: June 1 (Sat.) - 2 (Sun.), 2024

Venue: Miyamoto Memorial Hall 1F, School of Pharmacy, Kumamoto University,

5-1 Oe-honmachi, Chuo-ku, Kumamoto 862-0973, Japan

Organizer: School of Pharmacy, Kumamoto University

Organizing Chair: Prof. Takashi Watanabe, PhD.

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Prof. Mikako Fujita, PhD.

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Kumamoto University, Japan.

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Co-Organizer: Stefano Dall'acqua, PhD.

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Supported by <u>Kumamoto Organizing committee of the course on KAMPO Medicine</u> and <u>Herbal Medicine</u> 'Learning from the past'.

Co-Organized by the Organizing Committee of the Quadripartite (Japan, Nepal, Turkey and Italy) International Symposium.

Program Schedule

Day 1: June 1 (Sat.)

12:00 Reception

12:30 Opening remarks

Prof. Takashi Watanabe School of Pharmacy, Kumamoto University, Japan

12: 45-13:00 Overview Remarks

Dr. Stefano Dall'acqua, University of Padova, Italy

Symposium Session I.

Pharmaceutical Sciences Zone

S-1	13:10 – 13:40 Residues of By-products as Natural Phenolic Sources		Phenolic Sources
		Prof. Dr. Nazim Sekeroglu	
		University of Gaziantep, Turkey	Zoom Online Invited Lecture -1
S-2	13:40 – 14:10	Reconstruction of Natural Product S	Scaffolding
		Emeritus Prof. Dr. Masami Otsuka	
		Department of Medicinal and Biologic	al Chemistry
		Kumamoto University, Japan	
S-3	14:10 – 14:40	Plant Resources and Human Life for	r a Sustainable Planet: Geospatial
		Insights into Conservation and Man	agement
		Prof. Dr. Takashi Watanabe	
		Department of Medicinal Plant	
		Kumamoto University, Japan	
S-4	14:40 – 15:10	Design, Synthesis and Structural Stu	idies on New Anti-HIV Compounds
		Based on a Plant Product Phytic Aci	d
		Dr. Belgin Sever, Dr. Halilibrahim Cif	<u>tci</u>
		Department of Medicinal and Biologic	al Chemistry
		Kumamoto University, Japan	
	15:10 – 15:30	Coffee Break * 20 min	
S-5	15:30 – 16:00	Efficient Strategies for Unraveling P	recise Taxonomic Relationships
		among Medicinal and Useful Plants	
		Ms. Eranga Pawani Witharana	
		Analytical Research Center for Experin	mental Sciences
		Saga University, Japan	
S-6	16:00 – 16:30	Medicinal and food plants: discovery	
		ingredients for the food supplements	s and functional foods
		Prof. Dr. Stefano Dall'acqua	
		University of Padova, Italy	Zoom Online Invited Lecture -2

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S-7	16:30 – 17:00	Antiproliferative Activity of Saponin Compounds Isolated from Aster yomena against Human Gastric Cancer Cell Lines Mr. Dongxing Wang	
		Department of Medicinal Plant	
		Kumamoto University, Japan	
S-8	17:00 - 17:30	Phytochemical Compounds of Himalayan Ethnomedicinal Plants of	
		Nepal for Cancer Treatment	
		Dr. Shyam Sharan Shrestha	
		Himalayan Research and Development Center Nepal, Kathmandu, Nepal	

Day 2: June 2 (Sun.)

Symposium Session II. Botanist Zone & Biomedical

S-9	10:00 - 10:30	Hepatoprotective effects of Osbeckia octandra	
		Dr. Sudarma Bogahawaththa	
		Department of Advanced Lifesciences and Food Chemistry	
		Saga University, Japan	
S-10	10:30 - 11:00	Genome analysis reveals insights into the genetic diversity of edible and	
		medicinal plants	
		Associate Prof. Dr. Yukio Nagano	
		Analytical Research Center for Experimental Sciences	
		Saga University, Japan	
S-11	11:00 - 11:30	Development and application of thin film device for agriculture	
		Prof. Dr. Tokiyoshi Matsuda	
		Faculty of Science and Engineering	
		Kindai University, Japan	
S-12	S-12 11:30 – 12:00 When Medicinal Plants meet Humanity: Traditional Spagyric		
		in Italy	
		Ms. Mio Takahashi	
		Department of Environmental Humanities	
		Ca' Foscari University of Venice, Italy Zoom Online Invited Lecture-3	
	12:00 - 13:00	Lunch Break	

Poster Presentation Session (13:00 – 14:00)

Coordinator; Dr. Koji Sugimura

Department of Medicinal Plant, School of Pharmacy, Kumamoto University, Japan.

E-mail: sugimura@kumamoto-u.ac.jp

P-1	Comparison of the Bioactivity Evaluation and Active Constituents of Fudanso, a		
	Traditional Vegetable of the Daylily Family, and Related Plants		
	Mr. Taisei Hayashi		
	Kumamoto University, Japan		
P-2	Studying on the constituents of aerial parts of Genus Vitis (Fam. Vitaceae) and the		
	evaluation of their physiological activities		
	Mr. Yuta Hosogoe		
	Kumamoto University, Japan		
P-3	Comparison of Evaluation of Bioactivity and Active Components in Different Growth		
	Environments of Heracleum sphondylium L. var. nipponicum (Kitag.) H.Ohba		
	Mr. Taishi Ikagawa		
	Kumamoto University, Japan		
P-4	Compositional Analysis of Higo Peony (Paeonia lactiflora) and		
	Comparison with Marketed Products		
	Mr. Genki Hidaka		
	Kumamoto University, Japan		
P-5	Functionality evaluation about leaf of Higo peonies (Paeonia lactiflora)		
	Mr. Masatomo Yamauchi		
	Kumamoto University, Japan		
P-6	Therapeutic Significance of the Medicinal Plant Echallium elaterium, a Review		
	Mr. Berkay Beyri		
	Altinbas University, Turkey		
P-7	Pyrimidine-Based New Thiazoles as Potential Anti-Lung Cancer Agents		
	Dr. Halilibrahim Ciftci		
	Kumamoto University, Japan		
P-8	Corn-Starch Based Gel Polymer Electrolyte for Improving of Electrochemical Double		
	Layer Supercapacitor		
	Dr. Sirin Siyahjani Gultekin		
	Ege University, Turkey		
P-9	Development of a Man-made Phosphoinositide with Prodrug Groups		
	Mr. Takuya Masunaga		
	Kumamoto University, Japan		
P-10	Design, Synthesis and In Vitro Determination of Anticancer Effects of New Naphthalene		
	Bearing Pyrazoline Compounds		
	Dr. Belgin Sever		
	Kumamoto University, Japan		

Guidelines for Poster Presentation

- Poster size: B0 Potrait, (1030 mm width x 1456 mm height)
- Venue: Conference Room of Miyamoto Memorial Hall
- Posting Date and time: June 2 (Sun.), 12:00 17:00 (Posters should be set up by 12:00)

Symposium Session II. (Continue)

Botanist Zone & Biomedical

S-13	14:00 – 14:30	Epidemic Risk Assessment of Mosquito-Borne Infectious Diseases and	
		Potential Use of Plants for Mosquito Control	
		Prof. Dr. Mayuko Yonejima	
		Faculty of Humanities and Social Sciences	
		Kumamoto University, Japan	
S-14	14:30 – 15:00	Biologically Active Triterpenes Found by Screening and Derivatization	
		Prof. Dr. Mikako Fujita	
		Department of Medicinal and Biological Chemistry	
		Kumamoto University, Japan	
	15:00 – 15:30	Coffee Break	
S-15	15:30 – 16:00	Unveiling Nature's Pharmacy: Habitat Suitability Modeling for	
		Medicinal Plants Using Machine Learning Techniques	
		Prof. Dr. Aedla Raju	
		¹ Vishnu Educational Development and Innovation Centre (VEDIC), Aziz	
		Nagar, Moinabad, Hyderabad, Telangana, India	
		² BVRIT HYDERABAD College of Engineering for Women (BVRITH),	
		Bachupally, <i>Nizampet, Hyderabad, India</i> . Zoom Online Invited Lecture-4	
S-16	16:00 – 16:30	Turkish Plants, Including Quercetin and Oenothein B, Inhibit the HIV-1	
		Release and Accelerate Cell Apoptosis	
		Mr. Wright Ofotsu Amesimeku	
		Department of Microbiology	
		Kumamoto University, Japan	
S-17	16:30 – 17:00	Medicinal Plants an Important Resource of Nepal for Future Generation	
		Prof. Dr. Sangeeta Rajbhandary	
		Central Department of Botany Tribbunga University Need 700m Online Invited Leature 5	
		Tribhuvan University, Nepal Zoom Online Invited Lecture-5	

Closing remarks 17:00

Prof. Takashi Watanabe

School of Pharmacy, Kumamoto University, Japan