

HeKKSaGOn · L-INSIGHT
Spin-off Programme,
2024 [HLSP]

Dialogues for Future Research and Science with Early Career Researchers

RECEPTION

DATES AND TIME

Thursday 28 Nov. 2024
18:30–19:30 CET

VENUE

Heidelberg University Campus
The Senate Hall
of the Old University

FORUM

DATES AND TIME

Friday 29 Nov. 2024
PART I | 9:00–12:30 CET
PART II | 14:00–16:15 CET

VENUE

Heidelberg University Campus
Mathematikon

Dialogues

GROUP — A



Dr. KATSURA Yukako
Evolutionary Genetics

for

Future

History

Dr. FUKUMOTO Kenshi

Research and Science



GROUP — C



Dr. HAYASHI Kazuki
Structural Engineering
Computational Design
Architectural Informatics

Environmental Engineering
Dr. YASUI Midori



GROUP — B

with

Early Career



Dr. GOGAMI Toshiyuki
Nuclear Physics | Hadron Physics

Researchers

This forum supports the next generation of researchers in forming germinating synergetic forces in cross-cultural interdisciplinary activities.

This initiative has stemmed from the friendly relationship between German and Japanese universities fostered through the HeKKSaGOn (The German-Japanese University Alliance) framework, which is now in its fourth year. This forum consists of 3 dialogues among researchers from Kyoto University (L-INSIGHT fellows, a community of early career researchers), Heidelberg University, Karlsruhe Institute of Technology and Göttingen University. Each group consists of interdisciplinary members who study the same research subject with different approaches.

We also hope that the forum will provide an opportunity for all participants in the audience to form special international and intergenerational connections, which we hope will form the basis for future research excellence.

We cordially invite you to the discussions regarding the topics of your choice. Please sign up now to find your new and future connections through this opportunity.

REPORTS |

- https://www.l-insight.kyoto-u.ac.jp/wp-content/uploads/2022/07/hekksagon_book_220422-1_web.pdf



- https://www.l-insight.kyoto-u.ac.jp/wp-content/uploads/2023/06/hekksagon_book_230216-1_web.pdf



REFERENCE |

- <https://www.l-insight.kyoto-u.ac.jp/activity/2021hekksagon/>



- https://www.l-insight.kyoto-u.ac.jp/en/event/hekksagon_20221202/



Organizers

- Heidelberg University
- Karlsruhe Institute of Technology
- Göttingen University
- Kyoto University

Collaborator

- Kyoto University European Center

Contact

- Kyoto University Center for Enhancing Next-Generation Research
- admin-l-insight@mail2.adm.kyoto-u.ac.jp

PROGRAM

	CET	Kyoto University	Heidelberg University	University of Göttingen	Karlsruhe Institute of Technology	
PART I	09:00	Opening Remarks	Prof. Dr. Fuyuki Ishikawa Vice-President for Research Support, Kyoto University	Prof. Dr. Karin Schumacher Vice Rector for Quality Development and Sustainability, Heidelberg University		
	09:15	Presentations & Q&A				
	10:30	Coffee Break				
	11:00	Parallel Dialogues — 1				
		Group — A The Universe and Biological Interface: A Quest for Our Origins and Evolution	Dr. KATSURA Yukako [Keywords] Evolutionary Genetics – Center for Evolutionary Origins of Human Behavior (EHUB)	Dr. Truc Lam Pham Institute of Organic Chemistry Manuel Hettmansperger Institute of Sport and Sport Science	Dr. Vahid Nasirimarekani Group Leader of Active Biological Matter Group, Max Planck Institut (MPI) für Dynamik und Selbstorganisation	Dr. Islam Khattab Plant-stress Ecology Group, Joseph Gottlieb Kölreuter Institute for Plant Science
		Group — B Emerging Contaminants and Acceptable Health Risks in Water	Dr. GOGAMI Toshiyuki [Keywords] Nuclear Physics / Hadron Physics – Division of Physics and Astronomy, Graduate School of Science Dr. YASUI Midori [Keywords] Environmental Engineering – Department of Urban and Environmental Engineering, Graduate School of Engineering	Dr. Katharina Brotzmann Centre for Organismal Studies (COS) Dr. Simon Schaub Institute of Political Science		Dr. Katahrina Bleher Analytical Biochemistry, Institute for Functional Interfaces
		Group — C Integration of Emerging Technologies into a Sustainable Human Society	Dr. FUKUMOTO Kenshi [Keywords] History – Department of Studies on Global Coexistence, Graduate School of Human and Environmental Studies Dr. HAYASHI Kazuki [Keywords] Structural Engineering / Computational Design / Architectural Informatics – Department of Architecture and Architectural Engineering, Graduate School of Engineering	Dr. Maximilian Roca Jungfer Catalysis Research Laboratory (CaRLa)	Dr. Sarah Iweala Department of Agricultural Economics and Rural Development	
	12:30	Lunch Time				
PART II	14:00	Parallel Dialogues — 2				
	14:50	Moving to the Main Venue				
	15:00	Wrap-ups from Each Group & General Discussion with Guest Scholars	Prof. Dr. Jun Suzuki Deputy Director, Kyoto University Institution for Integrated Cell-Material Sciences (iCeMS)	Prof. Dr. Dres. h. c. Eitel Bernhard Institute of Geography, Heidelberg University		
	15:55	Closing	Prof. Dr. Jun Suzuki	Prof. Dr. Dres. h. c. Eitel Bernhard		
	16:00	Farewell Coffee				

PARALLEL DIALOGUES

GROUP — A

The Universe and Biological Interface: A Quest for Our Origins and Evolution

Dr. KATSURA Yukako

Background

We would like to discuss the origin, evolution, and future of life from the various perspectives of life science and astrophysics. What is life? Life has a cellular structure that distinguishes itself from the outside world, and is capable of energy metabolism and self-replication. The origin of life on Earth dates back about 4.28 billion years ago. Evolution is a phenomenon in which life repeats birth and death, and changes in phenotypes and genetic information over generations.

Yukako Katsura is an evolutionary geneticist who studies the molecular evolution of sex chromosomes in various organisms. We would like to discuss the evolution and future of life and sexual systems from the perspective of diversity of life.

Anticipated field of researchers

Researchers from various fields who are interested in this topic.

Researchers in fields that connect life sciences and astrophysics (evolutionary biology, biophysics, mathematical biology, astrobiology, etc.)

GROUP — B

Emerging Contaminants and Acceptable Health Risks in Water

Dr. GOGAMI Toshiyuki / Dr. YASUI Midori

Background

Proper management of food and environment is crucial to ensure the safety of human life and activity. Water-quality standards are determined based on the human health and environmental impacts. Additionally, economic benefits are significant considerations. For instance, nuclear power plants produce a great amount of energy, yet they must release tritium-contained water to the sea. The regulation for the tritium water is evaluated based on risks and benefits. Recently, discussions about the human health and environmental impacts of emerging contaminants such as antibiotic resistant bacteria, microplastic, PFAS, etc. have arisen. Local governments have to determine the water-quality standards based on the local economy and the environment as well as human health risks. We would like to discuss what global standards and acceptable health risks should be and what the researchers' roles are.

Anticipated field of researchers

Researchers we want to discuss with

- Researchers who interested in this topic
- Researchers in areas of environment, oceanography, agriculture, economy, law, politics, medical, nuclear physics, nuclear engineering, etc.

GROUP — C

Integration of Emerging Technologies into a Sustainable Human Society

Dr. FUKUMOTO Kenshi / Dr. HAYASHI Kazuki

Background

The relationship between humans, technology, and society is dynamic, constantly evolving with the advent of new technologies and the environmental changes they bring. Instead of being limited by our current understanding of technologies, we can align our expertise with the broader context of creating healthier, more peaceful, and joyful living systems. By adopting a holistic perspective on these transitions across our specialized fields and sharing insights, we can explore how, as researchers, we can contribute to the realization of a sustainable human society.

Anticipated field of researchers

We plan to provide historical and engineering approaches to the issue. We sincerely welcome researchers from any background i.e. sociologists, anthropologists, and data scientists, are encouraged to participate, provided they communicate their expertise in a manner accessible to non-specialists, fostering fruitful discussions on the social impacts of the techniques of their interest.

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