

2024 Kyoto University Amgen Scholars Program

List of Host Laboratories

No.	Name of PI	Affiliation	Position	Research Topic of the Lab	Eligibility	Research Area 1(keywords)	Research Area 2(keywords)	Research Area 3(keywords)	URL
1	Makoto Hayashi	Graduate School of Medicine	Visiting Associate Professor / Junior Principle Investigator	Telomere biology, Chromosome fusion and tumorigenesis	Those who are motivated to learn molecular biology techniques and hold ability to work well with other laboratory members.	Molecular, Cell and Developmental Biology			https://www.mthayashilab.com/
2	Akio Ikeda	Graduate School of Medicine	Professor	Clinical and Electrophysiological Research of Epilepsy, especially using magnetoencephalography (MEG) and other modalities. Students will be involved in the observation of clinical activity (data acquisition) and analysis of past data.	Basic data analysis skills using computer Good communication skill in English or in Japanese	Neuroscience	Physiological Science		http://epilepsy.med.kyoto-u.ac.jp/?lang=en
3	Yoshiki Arakawa	Graduate School of Medicine	Professor	neuroscience, neurosurgery, disorders in the nervous and vascular systems of the brain, spinal cord, and peripheral nerves	Students who are interested in the neuroscience and neurosurgery research.	Neurobiology	Neuroscience	Molecular Genetics	https://www.med.kyoto-u.ac.jp/en/research/field/doctoral_course/r-060
4	Martin ROBERT	Graduate School of Pharmaceutical Sciences	Program-specific Associate Professor	We study bacterial biofilms (mainly E. coli) to learn about cell communities, their metabolic function and exchanges that allow higher level functions.	An interest in microbiology, how cells live and interact together, and in the biochemistry and gene expression lying behind these phenomena.	Microbiology	Molecular, Cell and Developmental Biology	Biochemistry	https://sites.google.com/kyoto-u.ac.jp/msb/home
5	Masao Doi	Graduate School of Pharmaceutical Sciences	Professor	Research and Development of Circadian Clock-Based Medicine and Therapies to Combat Age- and Lifestyle-Related Diseases	Basic Understanding of Life Science and Physiology	Molecular Pharmacology	Neuroscience	Physiological Science	https://systems-biology.pharm.kyoto-u.ac.jp/en
6	Ryu ABE	Graduate School of Engineering	Professor	Water Splitting for Hydrogen Production by using Semiconductor Photocatalysis	Be interested in photocatalysis	Chemistry			http://www.ehcc.kyoto-u.ac.jp/eh41/home/abe/en/
7	Ryuji Yokokawa	Graduate School of Engineering	Professor	Microphysiological systems (MPS), Organoid, On-chip vascular network, Machine learning	We are seeking for highly-motivated students who are willing to integrate biology (vascular biology, developmental biology) and engineering (microfluidics) for MPS applications.	Bioengineering	Biotechnology	Molecular, Cell and Developmental Biology	http://www.ksys.me.kyoto-u.ac.jp/en/
8	Yasuo Mori	Graduate School of Engineering	Professor	Elucidation of biological roles played by TRP channels as environmental sensors and signal acuator.	Understanding of basic biochemistry is desirable (but this is not an absolute necessity).	Molecular, Cell and Developmental Biology	Drug Discovery	Molecular Medicine	http://www.sbchem.kyoto-u.ac.jp/mori-lab/english/
9	Itaru Hamachi	Graduate School of Engineering	Professor	chemical biology	Strong interests in research between chemistry and biology	Chemical and Biomolecular Engineering	Biochemistry	Neuroscience	http://www.sbchem.kyoto-u.ac.jp/hamachi-lab/
10	Hirofumi Sato	Graduate School of Engineering	Professor	Theoretical/Computational Chemistry	-	Chemistry			http://www.riron.moleng.kyoto-u.ac.jp/index_en.html
11	Kiyoshi Yasukawa	Graduate School of Agriculture	Professor	Please see the following papers we published in 2021. doi: 10.1016/j.bbrc.2021.06.023 doi: 10.1093/bbb/zbab102 doi: 10.1016/j.jbiosc.2021.05.005	I would like a student who is interested in enzyme.	Biochemistry	Biotechnology		http://www.enzchem.kais.kyoto-u.ac.jp/
12	Jun Suzuki	Graduate School of Biostudies	Professor	Biochemical Cell Dynamic	Highly-motivated students with passion	Biochemistry	Molecular Medicine	Neuroscience	http://www.suzuki.ics.kyoto-u.ac.jp/en/
13	Yuichi Taniguchi	Graduate School of Biostudies	Professor	Elucidation of the working principle of biological systems (e.g. cell and genome)	Students who are interested in large-scale characterization of intracellular molecular activities	Molecular Genetics	Bioinformatics/Cheminformatics	Chemical and Biomolecular Engineering	https://taniguchi.ics.kyoto-u.ac.jp/en
14	Peter Carlton	Graduate School of Biostudies	Associate Professor	Chromosome pairing, recombination, and segregation during meiosis in the nematode C. elegans	biology or bioinformatics majors	Molecular, Cell and Developmental Biology	Molecular Genetics	Bioinformatics/Cheminformatics	https://www.carltonlab.org/
15	Liang Zhao	Graduate School of Advanced Integrated Studies in Human Survivability	Associate Professor	machine learning methods for graphs and its application to drug discovery	programming experience	Bioinformatics/Cheminformatics			https://aw.gsais.kyoto-u.ac.jp/
16	Yasuhiro Ohki	Institute for Chemical Research	Professor	Synthesis and Reactions of Metal-Containing Molecules	Interest in chemical synthesis	Chemistry	Biochemistry		https://www.om.kuicr.kyoto-u.ac.jp/
17	Eiji Nakata	Institute of Advanced Energy	Associate Professor	Design of functional biomacromolecular assemblies, Artificial metabolic pathways, Fluorescent biosensors	Keen interest in science, basic knowledge in Chemistry and Biochemistry	Biochemistry	Chemical and Biomolecular Engineering	Chemistry	http://www.iae.kyoto-u.ac.jp/material/index-En.html
18	Toshiyuki Nohira	Institute of Advanced Energy	Professor	1. Conversion of CO2 to value-added carbon materials by molten salt electrolysis 2. A new efficient water-electrolysis method using hydrate melt electrolyte 3. Large rechargeable batteries for power storage using ionic liquid electrolytes	Students who wish to solve energy and environmental issues with an electrochemical approach.	Chemistry			http://www.iae.kyoto-u.ac.jp/chemical/en/index.html
19	Takahiro Ito	Institute for Life and Medical Sciences	Professor	understanding the operating principles of stem cells and cancer	Looking to work with a scholar with motivation and enthusiasm for a study on stem cells and cancer.	Biochemistry	Molecular, Cell and Developmental Biology	Molecular Medicine	https://cellfate.infront.kyoto-u.ac.jp/
20	NAMASIVAYAM Ganesh Pandian	Institute For Integrated Cell-Material Sciences	Junior Associate Professor / PI	Bio-inspired therapeutics, Epigenetics	Candidate with strong academic performance enrolled in colleges or Universities that award a bachelor's degree (or its equivalent) in the fields of biochemistry, genetics and pharmaceuticals.	Bioengineering	Medical Pharmacology	Molecular Genetics	https://www.namasivayam.ics.kyoto-u.ac.jp/
21	Fuyuhiko Tamanoi	Institute For Integrated Cell-Material Sciences	Professor	Nanoparticles and cancer therapy		Molecular Medicine	Bioengineering	Medical Pharmacology	www.tamanoi.ics.kyoto-u.ac.jp
22	Shuhei Furukawa	Institute For Integrated Cell-Material Sciences	Professor	We study chemistry of porous materials and transform them into game-changing solutions for health, environment and energy issues.	We look for students who are full of curiosity and do not hesitate to challenge crossdisciplinary science and innovations.	Chemistry			https://www.furukawa.ics.kyoto-u.ac.jp/
23	Aiko Fukazawa	Institute For Integrated Cell-Material Sciences	Professor	We explore fundamentals on the design, synthesis, and properties of the novel organic molecules toward superb optoelectronic materials.	1) Basic knowledge of organic chemistry 2) Having had some practical training in a chemistry lab	Chemistry			https://fukazawa.ics.kyoto-u.ac.jp/