

若手研NEWS

Young Researcher News



2026

No.

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ハン アイファン

生命機能科学研究センター 呼吸器形成研究チーム
基礎科学特別研究員

Han Aifang

RIKEN Center for Biosystems Dynamics Research
Laboratory for Lung Development and Regeneration
Special Postdoctoral Researcher

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Sunrise over the Mediterranean Sea

助田 一晟

脳神経科学研究センター 統合計算脳科学連携部門 統計数理連携ユニット
大学院生リサーチ・アソシエイト

Issey Sukeda

RIKEN Center for Brain Science
Integrative Computational Brain Science Collaboration Division
Statistical Mathematics Collaboration Unit
Junior Research Associate

The Architecture of Molecules: My Journey Toward Advanced Organic Synthesis p.6

セカール ジャクマール

環境資源科学研究センター 機能有機合成化学研究チーム
国際プログラム・アソシエイト

Sekar Jayakumar

RIKEN Center for Sustainable Resource Science
Advanced Organic Synthesis Research Team
International Program Associate

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Newcomer

- 1) 理研ECL研究チームリーダー
RIKEN ECL Team Leader
- 2) 理研ECL研究ユニットリーダー
RIKEN ECL Unit Leader
- 3) 基礎科学特別研究員
Special Postdoctoral Researcher
- 4) 大学院生リサーチ・アソシエイト
Junior Research Associate
- 5) 国際プログラム・アソシエイト
International Program Associate

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理化学研究所

Life Is a Journey Without a Map

ハン アイファン

生命機能科学研究センター 呼吸器形成研究チーム
基礎科学特別研究員

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Special Postdoctoral Researcher



When I received the invitation to write for the *Young Researcher News*, I was surprised by it. Among all the talented researchers at RIKEN, I have no particularly outstanding achievements to showcase. I am still struggling to find my research direction—where to go, and how to get there. What could I possibly share with young researchers like me?

But from another perspective, perhaps my struggle itself is a form of encouragement for anyone who is navigating a similar hardship, those who like me, trying to perform well as a researcher, a mother, a wife, and a daughter all at the same time.

I came to Japan five years ago, at a time when I felt I had no real choice. My husband was already working in Japan. After completing my PhD in dentistry, I moved to Osaka and joined the Laboratory for Integrated Biodevice at RIKEN—an engineering field completely new to me. The challenges piled up quickly : adapting to a new research area, learning Japanese from scratch, caring for a newborn, and trying to survive as a foreigner

in daily life.

I didn't know where to buy the things I needed. Even when I found the right place, I couldn't communicate with the staff. I couldn't go to a hospital alone because I couldn't explain my symptoms in Japanese. I couldn't eat the familiar food from home freely. I missed my parents and friends.

Despite all this, I consider myself extremely lucky. My former lab members supported me more than I could ever express. Senior Research Scientist Tanaka-san guided me into this new field. Yamamoto-san, Ota-san, and Sakai-san taught me patiently, step by step. I knew I could always rely on them. Even though our lab closed in 2023 and many of them have left RIKEN, I will always remember the kindness they offered me during my most difficult beginning in Japan.

When the lab closed, I had to search for a new position. I was fortunate to join the organoid project under two PIs, Morimoto-sensei and Takasato-sensei, who generously offered me the opportunity. Entering the biology field felt like opening the door to an entirely new world. I was amazed by how much knowledge a biologist carries, how many experiments are required to build convincing data, and how logically they think even when faced with overwhelming datasets.

At the same time, I felt defeated by how little I knew—subcellular structures, cellular behaviors, organoids, microenvironments... everything was new again. I had to restart my journey from zero. Under these circumstances, my PI encouraged me to apply for the SPDR to support my project on vascularization of lung alveolar organoids. I tried my very best throughout the



Washoku served with Japanese style tableware

application. During that time, I often felt severe back pain, but with the tight schedule, I kept pushing through.

Then came one of the most unforgettable moments in my life.

I was anxiously applying for the *Certificate for High-Cost Medical Care Benefit* in preparation for surgery after the diagnosis of a benign tumor in my spine when the email announcing my SPDR acceptance result arrived. It was a ray of light shining into the darkest days of my life at that time.

After several months of recovery, I returned to RIKEN and began my new path as an SPDR researcher in the biology field. I am still in the struggling phase of my project, but I hope one day I will be able to share meaningful progress with you.

Life has now returned to a fragile balance. I continue my research—questioning myself over and over. I take care of my daughter—discovering every day that raising a child is far more challenging than I ever imagined. I occasionally fly back to China to check on my aging, not-so-healthy parents. And whenever I find myself overwhelmed by these difficult days, I repeat a sentence that has carried me through many dark moments, and I would like to share it with you.

“Look again at that dot. That’s here. That’s home. That’s us... on a mote of dust suspended in a sunbeam.”



Atami travelling

— Carl Sagan. To me, human beings are nothing more than a temporary gathering of cosmic dust, allowed to experience love, pain, and beauty for a few brief decades before returning to nothingness.

So, embrace everything, even the painful moments. That, I believe, is the essence of life.



All the right vibes today!

地中海の朝陽 Sunrise over the Mediterranean Sea

助田 一晟

脳神経科学研究センター 統合計算脳科学連携部門 統計数理連携ユニット
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Issey Sukeda

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Statistical Mathematics Collaboration Unit
Junior Research Associate



私は現在東京大学で博士課程に在籍する傍ら、理化学研究所では脳神経データのための統計手法研究に従事しています。複数の電極から同時に計測された脳波を高次元時系列データとみなし、それらの間の従属性を適切に考慮し、脳のネットワーク構造を推定します。統計の言葉で言うと多変量解析やコピュラ、グラフィカルモデリングといった手法が主な興味対象です。

さて、脳のネットワークにはスモールワールド性(=少ない中継点を介してお互いが簡単に繋がる)が存在すると言説は有名ですが、普段過ごす中でも「世界は狭いなあ」とよく感じるこの頃です。人脈のネットワークもスモールワールドだという話も聞いたことがあります。某夢の国ではないですが、“It’s a small world after all”が頭の中に流れます。理研でのユニットリーダーである松田先生と知り合ったのも、仲が良い学科の友人がひょんなことから紹介してくれたことがきっかけでした。そこから実は広義のご近所さんであったことが発覚し、さらに、その約1年後に松田先生は私の大学の研究室にも着任され、(直接の指導教員ではないのですが) そちらでも日々お世話になっております。今の自分が研究を続けられているのもこのようなご縁の積み重ねのおかげなので、この場を借りて感謝したいと思います。

理研に所属をいただいてからは研究発表をする機会がたくさんあります。特に、リトリートは毎年楽しいし、

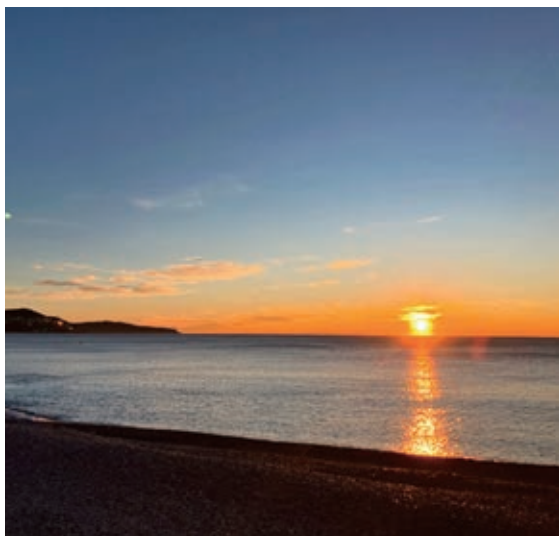
I am currently enrolled in a doctoral program at the University of Tokyo while also carrying out research on statistical methods for brain science at RIKEN. I treat simultaneously recorded brain waves from multiple electrodes as high-dimensional time series data, account for the dependencies between them, and estimate the brain’s network structure. In statistical terms, my primary areas of interest are multivariate analysis, copulas, and graphical modeling.

It is well-known that brain networks exhibit small-world properties (that is, they connect through few intermediaries). In the same way, I often find myself thinking, “The world really is small,” even in my everyday life. I’ve also heard that personal connections also follow this small-world phenomenon. (It almost feels like I’m in that certain “magical kingdom” with how much the tune of “It’s a small world after all” keeps playing in my head.) In fact, my first meeting with Professor Matsuda, my unit leader at RIKEN, came about by chance, through a close friend from my department. Not only did it turn out that we were neighbors, but about a year later, Professor Matsuda joined my university’s research lab (though not as my direct supervisor), and I’ve been learning from him every day there as well. The fact that I can continue my research today is thanks to this accumulation of connections, and I’d like to take this opportunity to express my gratitude.

Since joining RIKEN, I’ve had many opportunities to present my research. In particular, the annual CBS Retreat is a lot of fun. Also, last year I even got a chance

昨年は学会出張でフランス・ニースにも行かせていただきました。ニースは地中海沿岸に位置するととても美しい景色が見られる街です。学会会場および宿泊施設は海沿いのホテルだったため、毎日綺麗な海を眺めることができた点が最高でした。自分にとって初めての挑戦としては「Lime」というシェアサイクリングを利用してみました。地中海沿いのサイクリング用の広い道路を疾走できたのは大変心地良く、良い思い出となりました。また、本題の学会（ICSDS 2024）の方も、データサイエンス分野を広範に扱う会でしたが、内容的な収穫も多く、当初想像していた以上に充実した出張となりました。この学会は個人的に気に入ったため、実は今年も参加する予定なのですが、幸いなことに今年は Student Award をいただくこともできました。理研での研究において、少しずつ成果が出始めていることを嬉しく思います。

と、内容は研究についてでも旅行の思い出でも趣味でも、とのことだったのでつい学会の思い出を書いてしまいました。これからもニューロサイエンス×統計科学という立ち位置でアウトプットを出していきます。脳神経研究者の方々と接点が増えることがこれからも楽しみです。



ニースの朝陽
Sunrise in Nice

to travel to Nice, France, for a conference. Nice is a city on the Mediterranean coast that has stunning scenery. The conference venue and accommodation were at a seaside hotel, so being able to gaze out at the beautiful sea every day was fantastic. I tried using the shared bicycle service there. Cruising along the wide cycling paths by the Mediterranean Sea was wonderfully pleasant and made for a great memory. As for the main event, the conference (ICSDS 2024) covered a broad range of data science topics. I gained a lot from the content, making it an even more fulfilling trip than I had initially imagined. I personally enjoyed the conference so much that I plan to attend again this year, and fortunately, I was also able to receive a Student Travel Award for that purpose. I'm so happy to see my research at RIKEN gradually yielding results.

Anyway, since the prompt asked for articles about research, travel memories, or hobbies, I ended up writing about this conference. I plan to keep producing output from my position at the intersection of neuroscience and statistical science, and I look forward to increasing my connections with brain science researchers even more going forward.



学会での研究発表会場の様子
Presentations at the conference venue

The Architecture of Molecules: My Journey Toward Advanced Organic Synthesis

セカール ジャクマール

環境資源科学研究センター 機能有機合成化学研究チーム
国際プログラム・アソシエイト

Sekar Jayakumar

RIKEN Center for Sustainable Resource Science Advanced Organic Synthesis Research Team
International Program Associate



I was born in a small village of Tamil Nadu, in the southern part of India—a place modest in size yet rich in history. My village is home to 7th-century Pallava rock-cut monuments, with massive stone pillars and partially carved shrines standing as quiet reminders of the past. These ancient structures, carved directly from rock near the Pallava capital, represent an early and formative stage of South Indian cave-temple architecture. Growing up among these enduring monuments shaped how I see the world. They taught me that work done with patience, vision, and purpose, whether in stone or in science can leave a legacy.

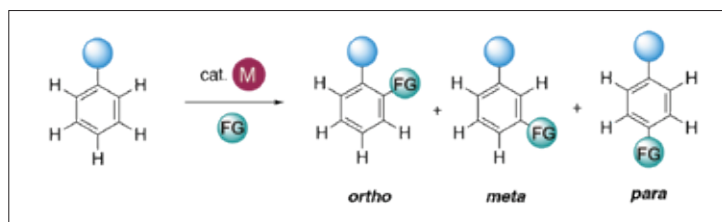
I completed my schooling in this village, with a growing passion for science. After finishing school, many of my friends chose to pursue engineering, and even my parents encouraged me to follow the same path. Yet something within me resisted that certainty. I was drawn into unanswered questions, failed

experiments, and the thrill of discovery. I wanted a life defined not by routine, but by curiosity and innovation. During my high school, chemistry captivated me more than any other subject. I was fascinated by how invisible interactions at the molecular level could explain the colors of minerals, the strength of materials, and the transformations I observed in everyday life. Simple classroom experiments sometimes successful, sometimes not taught me patience, critical thinking, and the importance of asking why rather than simply accepting results. Chemistry offered me a way to connect observation with understanding, and imagination with evidence.

Motivated by this curiosity and a desire to explore



7th-century Pallava rock-cut monuments located in Mamandur, India



Challenges in arene functionalization: formation of a mixture of products.

science at a deeper level, I chose to enroll in a Bachelor of Science program with chemistry as major. During this period, I came to know more about my cousin, who was pursuing a Ph.D. in Taiwan. His journey into research inspired me deeply, and he soon became my role model. Through many conversations, he explained the research process in a clear and practical way, sharing both the challenges and the rewards and helped me realize that I, too, could contribute meaningfully to scientific discovery.

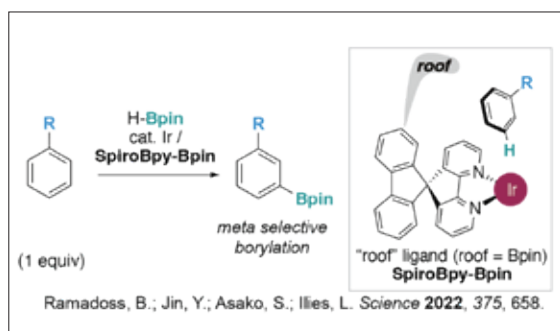
As the years passed, I completed my master's degree, while my cousin moved to RIKEN as a postdoctoral researcher. Motivated by his progress and guided by my growing passion for chemistry, I set my sights on pursuing a Ph.D. at one of India's premier institutions, the Indian Institute of Technology (IIT). The COVID-19 pandemic delayed the entrance examinations, testing my patience and resolve. Yet I continued preparing with determination, and when the exam was finally conducted, I successfully qualified GATE 2023, one of India's most competitive examinations and began preparing for admission.

One day, my cousin called me with unmistakable excitement in his voice. "Hey Jay," he said, "I developed a new catalyst system that solves a long-standing

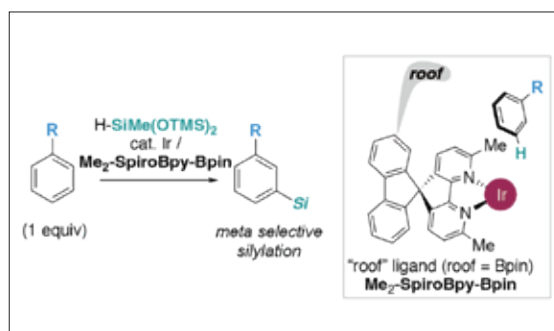
problem in organic synthesis. Using this catalyst, we can selectively install functional groups at a specific position on simple arenes, and the work has been published in *Science*." I was overwhelmed with pride. "Wow, congratulations! You did a great job," I said. Half-jokingly, but with quiet determination, I added, "One day, I will replace your chemistry with mine." He laughed and replied, "All the best. I can even recommend you to my boss."

That conversation marked a defining moment in my journey. Encouraged by his words, I reached out to Dr. Laurean Ilies, a well-known professor in organic synthesis and the head of the Advanced Organic Synthesis Research Team at RIKEN. Known for his innovative work in catalytic C–H functionalization, Dr. Ilies has made significant contributions to modern synthetic chemistry. His response was simple yet transformative: "Interesting, let's have a meeting in Zoom. I would like to know more about you and your research experience." After a long process, I was fortunate to join his group as a Ph.D. student through the IPA program.

When I told my friends that I was going to Japan to pursue my Ph.D., they congratulated me and spoke about the chance to work with researchers from



meta-selective borylation of simple arenes



meta-selective silylation of simple arenes (manuscript under revision)

different countries and build international network. However, when I arrived, I was surprised. While our lab is truly international, with members from China, Egypt, and the United States, I found myself forming especially strong connections with fellow Indian researchers. This was because Dr. Laurean has good academic ties with Indian institutions and often hosts researchers from India. This diverse and inclusive environment supported me both academically and personally, helping me adapt quickly and grow with confidence.

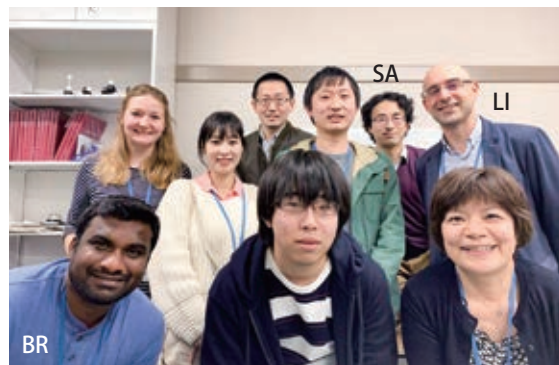
My research builds on the remarkable foundation laid by my cousin, who developed a new catalyst system to site-selectively install boron-based transient functional group—a powerful tool in organic synthesis due to their versatility and ease of transformation. Yet, these boron-functionalized products had a significant limitation: they were unstable during isolation and storage. While many might see this as a setback, I saw it as an opportunity to push the boundaries further. I became determined to overcome this challenge by exploring silicon-based functional groups, which promised greater stability while retaining the ability to be transformed into a wide range of valuable functional handles. When I joined the project, I had the opportunity to work closely with Dr. Sobi Asako, a senior scientist, and Dr. Yushu Jin, a postdoctoral researcher, both exceptionally talented researchers. Their mentorship helped me quickly master many unwritten but essential experimental techniques. By the time I arrived, they had already initiated the investigation and obtained promising preliminary results, providing a strong foundation for further exploration. My role, however, was to push the boundaries further. As a first step, I evaluated my cousin's catalyst for the target reaction. To my surprise, the catalyst was unreactive toward silylation. Rather than feeling discouraged, I welcomed the challenge and approached it as a puzzle to be solved. Through this process, I succeeded in developing a new catalyst, inspired by my cousin's original framework, that could selectively install silicon-based functional groups onto simple arenes.

This advance provided a clear path forward for the

study, and the work has also been published in another top-tier chemistry journal (JACS), reflecting both its scientific significance and the collaborative effort behind its development.

The atmosphere in the laboratory played an important role in my growth as a research student. Despite experiencing many failed experiments, I never felt anxious or discouraged, because I was guided by thoughtful mentor and surrounded by supportive senior researchers who consistently encouraged me. Their support helped me see failures as part of learning rather than as setbacks.

Looking back on my journey toward advanced organic synthesis, I see a quiet connection between the stone monuments of the Pallava era and the molecules I build in the laboratory. Both are shaped through patience, imagination, and persistence. From carving rock to designing catalysts, creation has always demanded time and belief. This journey has taught me that meaningful science, like enduring architecture, is built slowly, guided by curiosity, resilience, and the desire to leave something lasting behind.



My cousin Boobalan Ramadoss (bottom left)



Myself (top center)

主な受賞／Award List

理研白眉・ECL リーダー /RIKEN Hakubi・ECL Leader

受賞者氏名 Awardee	所属研究室 Laboratory	賞の名称 Name of Award	授与団体等 Sponsoring organization	受賞日 Date of award
村田 慧 Kei Murata	環境資源科学研究センター 分子光触媒 理研ECL研究ユニット	Thieme Chemistry Journals Award 2025	Thieme Chemistry	2025/01/01
	RIKEN Center for Sustainable Resource Science Molecular Photocatalysis RIKEN ECL Research Unit			
橋本 直 Tadashi Hashimoto	仁科加速器科学研究センター 中間子理研ECL研究チーム	2024年 小柴賞	高エネルギー加速器科学研究奨励会	2025/02/07
	RIKEN Nishina Center for Accelerator-Based Science Meson RIKEN ECL Research Team		Foundation for High Energy Accelerator Science	
新宅 博文 Hirofumi Shintaku	開拓研究本部 新宅マイクロ流体工学 理研白眉研究チーム	第17回 中谷賞 奨励賞	公益財団法人 中谷財団	2025/02/19
	RIKEN Cluster for Pioneering Research Microfluidics RIKEN Hakubi Research Team		Nakatani Foundation	
藤代 有絵子 Yukako Fujishiro	創発物性科学研究センター 統合物性科学研究プログラム 極限量子固体物性理研ECL研究ユニット	2024年度 船井研究奨励賞	公益財団法人船井情報科学振興財団	2025/05/24
	RIKEN Center for Emergent Matter Science Cross-Divisional Materials Research Program Extreme Quantum Matter Physics RIKEN ECL Research Unit		The Funai Foundation for Information Technology	
藤代 有絵子 Yukako Fujishiro	創発物性科学研究センター 統合物性科学研究プログラム 極限量子固体物性理研ECL研究ユニット	第4回 羽ばたく女性研究者賞 (マリア・スクウォッドフスカ＝キュリー賞) 最優秀賞	国立研究開発法人 科学技術振興機構(JST)	2025/06/05
	RIKEN Center for Emergent Matter Science Cross-Divisional Materials Research Program Extreme Quantum Matter Physics RIKEN ECL Research Unit		Japan Science and Technology Agency	
石 東博 Dongbo Shi	環境資源科学研究センター 形成層幹細胞システム 理研ECL研究ユニット	Organizing committee of 7th International Conference on Plant VascularBiology Best Poster Awards	Organizing committee of 7th International Conference on Plant VascularBiology	2025/07/11
	RIKEN Center for Sustainable Resource Science Cambial Stem Cell System RIKEN ECL Research Unit			
川上 恵里加 Erika Kawakami	量子コンピュータ研究センター 浮揚電子量子情報 理研白眉研究チーム	30th INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS Best Poster Award	Low Temperature Physics	2025/08/12
	RIKEN Center for Quantum Computing Floating-Electron-Based Quantum Information RIKEN Hakubi Research Team			

基礎科学特別研究員／Special Postdoctoral Researcher (SPDR)

受賞者氏名 Awardee	所属研究室 Laboratory	賞の名称 Name of Award	授与団体等 Sponsoring organization	受賞日 Date of award
米田 靖史 Yasushi Yoneta	量子コンピュータ研究センター 量子計算理論研究チーム	Selected by JSTAT Scientific Directors for the Highlights collection	JSTAT	2024/03/26
	RIKEN Center for Quantum Computing Quantum Computing Theory Research Team			
内藤 智也 Tomoya Naito	数理創造プログラム	PCM2025 Jury Prize	国際会議 Single-particle and collective motions from nuclear many-body correlation (PCM2025)	2025/03/07
	RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program			

受賞者氏名 Awardee	所属研究室 Laboratory	賞の名称 Name of Award	授与団体等 Sponsoring organization	受賞日 Date of award
今井 みやび Miyabi Imai	開拓研究所 Kim表面界面科学研究室	令和7年度 科学技術分野の文部科学大臣表彰 若手科学者賞	文部科学省	2025/04/15
	RIKEN Pioneering Research Institute Surface and Interface Science Laboratory		Ministry of Education, Culture, Sports, Science and Technology	
Yunlei Zhang	創発物性科学研究センター 創発生体関連ソフトマター研究 チーム	Excellent Poster Prize	Gels, an open access journal by MDPI; Department of Polymer Science and Engineering, Zhejiang University; Ministry of Education Key Laboratory of Macromolecular Synthesis and Functionalization.	2025/05/22
	RIKEN Center for Emergent Matter Science Emergent Bioinspired Soft Matter Research Team			
多田 弘光 Hiromitsu Tabeta	環境資源科学研究センター 代謝システム研究チーム	第38回 理化学研究所と産業界との 交流会優秀パネル表彰 銅賞	一般社団法人 理研未来革新アライアンス	2025/06/13
	RIKEN Center for Sustainable Resource Science Metabolic Systems Research Team		Riken Future Innovation Alliance	
板尾 健司 Kenji Itao	脳神経科学研究センター 理研 CBS-トヨタ連携センター 計算論的集団力学連携ユニット	研究奨励賞	日本進化学会	2025/06/24
	RIKEN Center for Brain Science RIKEN CBS-TOYOTA Collaboration Center Computational Group Dynamics Collaboration Unit		Society of Evolutionary Studies, Japan	
Hongshen He	脳神経科学研究センター 神経回路・行動生理学研究チーム	JNS-SfN Travel Award	日本神経科学学会	2025/07/16
	RIKEN Center for Brain Science Laboratory for Circuit and Behavioral Physiology		The Japan Neuroscience Society	
Xiaoxi Zhou	開拓研究所 侯有機金属化学研究室	OMCOS-22 Poster Awards	Cell Press chemistry portfolio	2025/09/05
	RIKEN Pioneering Research Institute Organometallic Chemistry Laboratory			
高橋 一樹 Kazuki Takahashi	バイオリソース研究センター 微生物材料開発室	日本微生物生態学会 第38回 東京大会 優秀ポスター賞 (Poster Award)	日本微生物生態学会	2025/09/09
	RIKEN BioResource Research Center Microbe Division (RIKEN JCM)		Japanese Society of Microbial Ecology	
北村 侃 Kan Kitamura	数理創造研究センター 数理基礎部門	建部賢弘奨励賞	日本数学会	2025/09/17
	RIKEN Center for Interdisciplinary Theoretical and Mathematical Sciences Division of Fundamental Mathematical Science		The Mathematical Society of Japan	
阪上 朱音 Akane Sakaue	仁科加速器科学研究センター 核反応研究部	日本物理学会若手奨励賞 (原子核談話会新人賞)	日本物理学会	2025/10/29
	RIKEN Nishina Center for Accelerator-Based Science Nuclear Dynamics Research Group		The Physical Society of Japan	
多田 弘光 Hiromitsu Tabeta	環境資源科学研究センター 代謝システム研究チーム	植物化学調節学会 第60回大会 優秀発表賞 Outstanding Presentation Award	一般社団法人 植物化学調節学会	2025/11/03
	RIKEN Center for Sustainable Resource Science Metabolic Systems Research Team		The Japanese Society for Chemical Regulation of Plants	
高橋 一光 Ikko Takahashi	環境資源科学研究センター 機能有機合成化学研究チーム	日本プロセス化学会 2025サマーシンポジウム JSPC 優秀賞	日本プロセス化学会	2025/12/05
	RIKEN Center for Sustainable Resource Science Advanced Organic Synthesis Research Team		The Japanese Society for Process Chemistry	

大学院生リサーチ・アソシエイト／Junior Research Associate (JRA)

受賞者氏名 Awardee	所属研究室 Laboratory	賞の名称 Name of Award	授与団体等 Sponsoring organization	受賞日 Date of award
大西 一誉 Kazuyo Onishi	情報統合本部 ガーディアンロボットプロジェクト 知識獲得・対話研究チーム	言語処理学会 第31回年次大会 (NLP2025) 委員特別賞	一般社団法人 言語処理学会	2024/11/01
	RIKEN Information R&D and Strategy Headquarters Guardian Robot Project Knowledge Acquisition and Dialogue Research Team		The Association for Natural Language Processing	
江守 陽規 Haruki Emori	数理創造研究センター 量子数理科学チーム	Second place in the Poster Session for the Quantinuum 2025 May Training Session	Quantinuum	2025/05/20
	RIKEN Center for Interdisciplinary Theoretical and Mathematical Sciences Quantum Mathematical Science Team			
川端 祥太 Shota Kawabata	光量子工学研究センター 先端レーザー加工研究チーム	The LPM2025 Outstanding Student Paper Award (Oral)	Japan Laser Processing Society (JLPS) / The 9th International Congress on Laser Advanced Materials Processing (LAMP2025)	2025/06/13
	RIKEN Center for Advanced Photonics Advanced Laser Processing Research Team			
戸室 幸太郎 Kotaro Tomuro	開拓研究所 岩崎 RNA システム生化学研究室	The Angelika Amon Young Scientist Award	KOCH INSTITUTE for Integrative Cancer Research at MIT	2025/08/09
	RIKEN Pioneering Research Institute RNA Systems Biochemistry Laboratory			
有吉 薫香 Kuyuri Ariyoshi	生命医科学研究センター ゲノム解析応用研究チーム	ASHG 2025 Reviewers' Choice Abstract	ASHG (American Society of Human Genetics)	2025/08/22
	RIKEN Center for Integrative Medical Sciences Laboratory for Statistical and Translational Genetics			
北澤 想人 Souto Kitazawa	生命機能科学研究センター 栄養応答研究チーム	第30回 日本亜鉛栄養治療研究会学術集会 最優秀演題賞(基礎領域)	日本亜鉛栄養治療研究会	2025/08/30
	RIKEN Center for Biosystems Dynamics Research Laboratory for Nutritional Biology		Japanese Society for Zinc Nutritional Therapy	
松本 美緒 Mio Matsumoto	開拓研究所 鈴木地球・惑星生命科学研究室	日本微生物生態学会 第38回 東京大会 優秀ポスター賞	日本微生物生態学会	2025/09/09
	RIKEN Pioneering Research Institute Geobiology and Astrobiology Laboratory		Japanese Society of Microbial Ecology	
川端 祥太 Shota Kawabata	光量子工学研究センター 先端レーザー加工研究チーム	13th International Conference on Photo-Excited Processes and Applications (ICPEPA-13) Best poster presentaion (1st place)	13th International Conference on Photo-Excited Processes and Applications (ICPEPA-13)	2025/09/18
	RIKEN Center for Advanced Photonics Advanced Laser Processing Research Team			
松本 美緒 Mio Matsumoto	開拓研究所 鈴木地球・惑星生命科学研究室	CO world 全体会議 最優秀ポスター賞	学術変革領域研究(A) CO環境の生命惑星化学	2025/10/08
	RIKEN Pioneering Research Institute Geobiology and Astrobiology Laboratory			
大原 隆人 Ryuto Ohara	生命医科学研究センター レトロトランスポゾン動態研究チーム	日本遺伝学会 第97回大会 Best Paper 賞	日本遺伝学会	2025/10/10
	RIKEN Center for Integrative Medical Sciences Laboratory for Retrotransposon Dynamics		The Genetics Society of Japan	
吉澤 竜哉 Tatsuya Yoshizawa	生命医科学研究センター 制御分子設計研究チーム	CBI学会2025年大会 Best Poster Award	情報計算化学生物学会 (CBI学会)	2025/10/30
	RIKEN Center for Integrative Medical Sciences Laboratory for Structure-Based Molecular Design		Chem-Bio Informatics Society	

受賞者氏名 Awardee	所属研究室 Laboratory	賞の名称 Name of Award	授与団体等 Sponsoring organization	受賞日 Date of award
Ivan Radanov Ivanov	計算科学研究センター 高性能計算モデリング研究チーム RIKEN Center for Computational Science Supercomputing Performance Research Team	SC Best Reproducibility Advancement Award	ACM, IEEE	2025/11/20
及川 虎太郎 Kotaro Oikawa	光量子工学研究センター 画像情報処理研究チーム RIKEN Center for Advanced Photonics Image Processing Research Team	WANC Best Paper Award	CANDAR Organizing Committee	2025/11/28
木下 絵里加 Erika Kinoshita	開拓研究所 田原分子分光研究室 RIKEN Pioneering Research Institute Molecular Spectroscopy Laboratory	Student Research Competition Winner for the Physical topic area at Pacificchem 2025	The International Chemical Congress of Pacific Basin Societies 2025	2025/12/15

国際プログラム・アソシエイト/International Program Associate (IPA)

受賞者氏名 Awardee	所属研究室 Laboratory	賞の名称 Name of Award	授与団体等 Sponsoring organization	受賞日 Date of award
Cheng Wei Shih	仁科加速器科学研究センター RHIC 物理研究室 RIKEN Nishina Center for Accelerator-Based Science RHIC Physics Research Laboratory	The Association of Asia Pacific Physical Societies (AAPPS) Award	The 2025 Annual Meeting of the Physical Society of Taiwan and the Association of Asia Pacific Physical Societies	2025/01/16
Yiran Tian	量子コンピュータ研究センター 浮揚電子量子情報 理研白眉研究チーム RIKEN Center for Quantum Computing Floating-Electron-Based Quantum Information RIKEN Hakubi Research Team	30th INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS Best Poster Award	Low Temperature Physics	2025/08/12
Bosko Vrbica	環境資源科学研究センター グリーンナノ触媒研究チーム RIKEN Center for Sustainable Resource Science Green Nanocatalysis Research Team	第22回 有機合成指向有機金属化学国際会議 ベストポスター賞 OMCOS XXII Best Poster Award	ACS Publications	2025/09/05
Dinh Quoc Pham	バイオリソース研究センター 統合発生工学研究開発室 RIKEN BioResource Research Center Integrative Developmental Engineering Division	第118回 日本繁殖生物学会大会 優秀発表賞 SRD Outstanding Presentation Award	公益社団法人 日本繁殖生物学会 The Society for Reproduction and Development	2025/09/16
Han-Yu Ko	環境資源科学研究センター 植物脂質研究チーム RIKEN Center for Sustainable Resource Science Plant Lipid Research Team	AT THE 10th Asian-Oceanian Symposium on Plant Lipids(ASPL2025) Excellent Poster Award	Asian-Oceanian Symposium on Plant Lipids	2025/11/28

新メンバーの紹介 Newcomers

理研ECL研究チームリーダー RIKEN ECL Team Leader



佐久間 知佐子

佐久間代謝・行動生理学理研ECL研究チーム(PRI)
代謝・行動生理学理研ECL研究チーム(BDR)
蚊における生殖周期スイッチ機構の包括的理解

Chisako Sakuma

Metabolic and Behavioral Physiology RIKEN ECL Research Team
Comprehensive elucidation of reproductive cycle switch mechanisms in mosquitoes



今井 みやび

今井極微エネルギー変換科学理研ECL研究チーム(PRI)
原子スケール分光法で拓くエネルギー変換科学

Miyabi Imai

Quantum Energy Conversion RIKEN ECL Research Team
Advancing Energy Conversion Science through Atomic-Scale Spectroscopy

理研ECL研究ユニットリーダー RIKEN ECL Unit Leader



田財 里奈

強相関量子相理研ECL研究ユニット(CEMS)
田財強相関量子相理研ECL研究ユニット(PRI)
多体電子系における量子相転移および輸送現象の微視的機構の解明

Rina Tazai

Strong Correlation Quantum Phase RIKEN ECL Research Unit
Microscopic Mechanisms of Quantum Phase Transitions and Transport Phenomena in Many-Body Electron Systems



按田 瑞恵

微生物ゲノミクス理研ECL研究ユニット(BRC)
按田微生物ゲノミクス理研ECL研究ユニット(PRI)
例外的なバイオリソースを活用した微生物ゲノミクスにおける未知領域の開拓

Mizue Anda

Microbial Genomics RIKEN ECL Research Unit
Exploring uncharted terrains in microbial genomics using exceptional bioresources



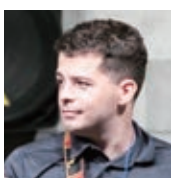
千葉 洋子

代謝環境酵素学理研ECL研究ユニット(CSRS)
千葉代謝環境酵素学理研ECL研究ユニット(PRI)
代謝・酵素の多様性解明および設計原理の探索

Yoko Chiba

Environment-Oriented Metabolism RIKEN ECL Research Unit
Exploring diversity and design principle of metabolisms and enzymes

基礎科学特別研究員 Special Postdoctoral Researcher (SPDR)



Nicolas Christian Guy Chartier

防災科学チーム
Accelerated simulations and robust inference for fault slip monitoring and seismic risk predictions.

Nicolas Christian Guy Chartier

Disaster Resilience Science Team
Accelerated simulations and robust inference for fault slip monitoring and seismic risk predictions.



荒木 那巨

創発スピントロニクス研究チーム
Altermagnet 物質 α -Fe₂O₃におけるマグノン量子物性の創出

Tomonao Araki

Emergent Spintronics Research Team
Creation of Quantum Properties of Magnon in Altermagnetic Material α -Fe₂O₃

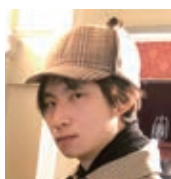


Hongruixuan Chen

空間情報学チーム
Responding to any disasters anytime, anywhere: Exploring disaster-specialized AI foundation model driven by multi-sensor earth observation

Hongruixuan Chen

Geoinformatics Team
Responding to any disasters anytime, anywhere: Exploring disaster-specialized AI foundation model driven by multi-sensor earth observation



莊 浚謙

加速器基盤研究部
次世代ECRイオン源の大強度化および高安定化の研究

Tsun Him Chong

Accelerator Group
Study on High-Intensity and High-Stability Next-Generation ECR Ion Source



Chien-Yu Chou

数理基礎部門
Nonperturbative Quantum Dynamics of Spacetime via the Lefschetz Thimble Method

Chien-Yu Chou

Division of Fundamental Mathematical Science
Nonperturbative Quantum Dynamics of Spacetime via the Lefschetz Thimble Method



Anne Pieta de Groot
 ヒト疾患モデル研究チーム
 New drugs for therapy-resistant leukemia
Anne Pieta de Groot
 Laboratory for Human Disease Models
 New drugs for therapy-resistant leukemia



福嶋 悠人
 疾患エピゲノム遺伝研究チーム
 老化が生殖細胞エピゲノムに変化をもたらすメカニズムとその生物学的意義の解明
Hiroto Fukushima
 Laboratory for Epigenome Inheritance
 Mechanisms and biological significance of aging-related epigenetic changes in germ cells



Rocio Garcia Ginez
 齋藤高エネルギー原子核研究室
 Fluorescent nuclear track detector (FNTD) to study cosmic rays
Rocio Garcia Ginez
 High Energy Nuclear Physics Laboratory
 Fluorescent nuclear track detector (FNTD) to study cosmic rays



後藤 慶太
 数理基礎部門
 Berkovich幾何学を用いた代数幾何及びその周辺における新たな理論の創出
Keita Goto
 Division of Fundamental Mathematical Science
 Creation of new theories in and around algebraic geometry using Berkovich geometry



Anne Greifenhagen
 植物共生研究チーム
 Elucidating Mechanisms behind the Loss of Root Nodule Symbiosis
Anne Greifenhagen
 Plant Symbiosis Research Team
 Elucidating Mechanisms behind the Loss of Root Nodule Symbiosis



Yixin Guo
 核子多体論研究室
 Application of cold quantum many-body systems in nuclear physics
Yixin Guo
 Nuclear Many-body Theory Laboratory
 Application of cold quantum many-body systems in nuclear physics



Xue Han
 強相関物性研究グループ
 Spin-resolved laser ARPES studies on magnetic topological materials
Xue Han
 Strong Correlation Physics Research Group
 Spin-resolved laser ARPES studies on magnetic topological materials



土方 佑斗
 核反応研究部
 鏡映核表面の密度分布で探る荷電対称性の破れ
Yuto Hijikata
 Nuclear Dynamics Research Group
 Research for Charge Symmetry Breaking by Measuring Density Distributions on the Surface of the Mirror Nuclei



Moritz Mandes Hirschmann
 量子物性理論研究グループ
 Band degeneracies: Topological nodal planes, spin-space groups, and Weyl points in quasicrystals
Moritz Mandes Hirschmann
 Quantum Matter Theory Research Group
 Band degeneracies: Topological nodal planes, spin-space groups, and Weyl points in quasicrystals



星野 真生
 数理基礎部門
 作用素環論とテンソル圏に基づく量子群と量子化
Mao Hoshino
 Division of Fundamental Mathematical Science
 Quantum groups and quantized spaces based on an operator algebraic perspective and tensor categories



Zhi Hu
 連続系場の理論研究チーム
 Resolving tensions related to CKM-matrix and heavy-flavour physics through high-precision lattice simulations on Fugaku
Zhi Hu
 Field Theory Research Team
 Resolving tensions related to CKM-matrix and heavy-flavour physics through high-precision lattice simulations on Fugaku



今坂 光太郎
 未踏レーザー科学研究チーム
 ベタヘルツ光スイッチング実現に向けた可飽和吸収時間幅のアト秒ポンプ-アト秒プローブ計測
Kotaro Imasaka
 Extreme Photonics Research Team
 Attosecond pump-attosecond probe measurement of saturable absorption duration toward realization of petahertz optical switching



岩田 季也
 玉川高エネルギー宇宙物理研究室
 一般相対論的モンテカルロ輻射輸送計算とX線観測によるブラックホールスピンの測定
Toshiya Iwata
 High Energy Astrophysics Laboratory
 Measurement of black hole spin through general relativistic Monte Carlo radiative transfer and X-ray observations



Ming-Chun Jiang
 計算物質科学研究チーム
 Ab initio study on nonlinear optics of quantum materials and its geometrical origin
Ming-Chun Jiang
 First-Principles Materials Science Research Team
 Ab initio study on nonlinear optics of quantum materials and its geometrical origin



地引 知栄
 数学応用研究チーム
 left-order-L-space予想・葉層構造を結ぶ新たな位相的枠組み
Chihaya Jibiki
 Mathematical Application Research Team
 A New Topological Framework Connecting Left-Order, L-Space Conjecture, and Foliations



河瀬 広樹
 未踏レーザー科学研究チーム
 アト秒レーザー加工を実現する高強度高繰り返し中赤外レーザーシステムの開発
Hiroki Kawase
 Extreme Photonics Research Team
 Development of High-Intensity and High-Rep. Rate Mid-Infrared Laser System for Realizing Attosecond Laser Processing



Donghoon Kim
 量子複雑性解析理研白眉研究チーム
 Efficient Simulation of Interacting Boson Systems with Proven Complexity Guarantees
Donghoon Kim
 Analytical Quantum Complexity RIKEN Hakubi Research Team
 Efficient Simulation of Interacting Boson Systems with Proven Complexity Guarantees



木野 量子
 中間子理研ECL研究チーム
 崩壊分岐比と核子運動量分布から探る反K 中間子原子核の高密度構造の研究
Ryoko Kino
 Meson RIKEN ECL Research Team
 Study of high-density structure of anti-kaonic nuclei from branching ratios and nucleon momentum distributions

**越塚 毅**

計算物理機械学習チーム
物理的構造情報の定量的解析に基づく高信頼度物理融合型機械学習の理論と活用

Takeshi Koshizuka

Computational Physics Machine Learning Team
Reliable Physics-Integrated Machine Learning: Theory and Applications Based on Quantitative Analysis of Physical Structures

**久保 尚敬**

数理基礎部門
量子曲線を通して目指すM理論の包括的理解

Naotaka Kubo

Division of Fundamental Mathematical Science
Comprehensive understanding of M-theory through quantum curves

**Justin Steven Lamb**

機能有機合成化学研究チーム
Controlling Organic Reactions with Zwitterionic Catalysts

Justin Steven Lamb

Advanced Organic Synthesis Research Team
Controlling Organic Reactions with Zwitterionic Catalysts

**Guang Lin**

テンソル学習チーム
Trusted AI Systems via Model-Free Inference-Time Optimization

Guang Lin

Tensor Learning Team
Trusted AI Systems via Model-Free Inference-Time Optimization

**Guanhao Liu**

創発超分子材料研究チーム
Luminescent molecules with inverted singlet and triplet excited states for high-performance organic LEDs

Guanhao Liu

Emergent Supramolecular Materials Research Team
Luminescent molecules with inverted singlet and triplet excited states for high-performance organic LEDs

**前川 拓海**

数理基礎部門
六つの関手の枠組みによる安定無限圏論のゲージ理論への応用

Takumi Maegawa

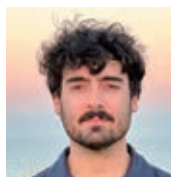
Division of Fundamental Mathematical Science
Applications of stable infinity-category theory to gauge theory via six-functor formalisms

**Xiaofeng Mao**

先進機能触媒研究グループ
Conversions of Dinitrogen and Hydrocarbons into Nitrogen-Containing Organic Compounds by Multimetallic Hydrides

Xiaofeng Mao

Advanced Catalysis Research Group
Conversions of Dinitrogen and Hydrocarbons into Nitrogen-Containing Organic Compounds by Multimetallic Hydrides

**Antonio Martinez Henares**

坂井星・惑星形成研究室
The impact of ionized winds, photoevaporation and stellar multiplicity on planet formation in disks around massive stars

Antonio Martinez Henares

Star and Planet Formation Laboratory
The impact of ionized winds, photoevaporation and stellar multiplicity on planet formation in disks around massive stars

**三神 雄太郎**

数理科学チーム
凝縮数学とそのp進幾何への応用

Yutaro Mikami

Mathematical Science Team
Condensed mathematics and its application to p-adic geometry

**三橋 洋亮**

量子複雑性解析理研白眉研究チーム
構造的量子ランダムサンプリング法の開発と応用

Yosuke Mitsuhashi

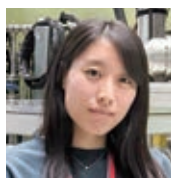
Analytical Quantum Complexity RIKEN Hakubi Research Team
Development and Applications of Structured Quantum Random Sampling Methods

**溝口 史華**

数理科学チーム
可解リー群上の幾何構造とクイバー

Fumika Mizoguchi

Mathematical Science Team
Geometric structures on solvable Lie groups and quivers

**水野 るり恵**

中間子理研ECL研究チーム
ミュオン触媒核分裂を用いた不安定核に対する新しい荷電半径・分布測定手法の開拓

Rurie Mizuno

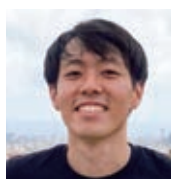
Meson RIKEN ECL Research Team
Development of a new method for charge radius and distribution measurement of unstable nuclei using muonic X-ray spectroscopy of fission fragments

**水野 翔太**

分子精神病理研究チーム
ヒト組織横断的な転写ノイズアトラスの構築と疾患関連解析

Shota Mizuno

Laboratory for Molecular Pathology of Psychiatric Disorders
A Human Transcriptional Noise Atlas: Mapping Transcriptional Variability Across Tissues and Disease Landscapes

**森 隆太郎**

計算論的集団力学連携ユニット
利害対立を伴う集合的意思決定における社会学習プロセスの解明

Ryutaro Mori

Dynamics Collaboration Unit
Modeling social learning processes in collective decision-making under conflicts of interests

**Riccardo Muolo**

数理基礎部門
Control of (de)synchronization in systems with higher-order interactions: controllability of hypergraphs, pinning control and phase reduction

Riccardo Muolo

Division of Fundamental Mathematical Science
Control of (de)synchronization in systems with higher-order interactions: controllability of hypergraphs, pinning control and phase reduction

**村井 開**

数理基礎部門
複数のアクシオン場がもたらす初期宇宙現象の包括的研究

Kai Murai

Division of Fundamental Mathematical Science
Comprehensive study of early-universe phenomena caused by multi-axion dynamics

**村上 智紀**

中間子理研ECL研究チーム
ハドロン質量起源の解明に向けた原子核密度中 ϕ 中間子質量分布の高統計測定

Tomoki Murakami

Meson RIKEN ECL Research Team
Probing the Origin of Hadron Mass through ϕ Meson Measurements in Nuclei

**中田 星矢**

計算論的集団力学連携ユニット
オープンエンドな累積的文化進化を可能にする認知的・社会的基盤の探求:伝達の忠実度・集団サイズ・社会的ネットワーク構造に着目したシミュレーション研究

Seiya Nakata

Dynamics Collaboration Unit
Cognitive and social foundations for open-ended cumulative cultural evolution: Transmission fidelity, group size, and social network structure



中山 勝政
 連続系の理論研究チーム
 大規模自由度系におけるテンソルネットワークによる数値計算と定式化
Katsumasa Nakayama
 Field Theory Research Team
 Formulation and numerical calculation of the tensor network for the system with the large degree of freedom



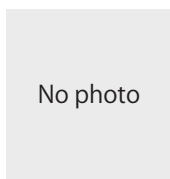
成田 拓仁
 玉川高エネルギー宇宙物理研究室
 超新星の紫外線・X線精密分光観測から明らかにする爆発する星の素性
Takuto Narita
 High Energy Astrophysics Laboratory
 Revealing the Features of Exploding Stars through Ultraviolet and X-ray High-Resolution Spectroscopy of Supernovae.



西尾 英倫
 グリーンナノ触媒研究チーム
 資源循環型モノづくり体系の実現を志向した多機能高分子触媒の開発
Hidenori Nishio
 Green Nanocatalysis Research Team
 Development of multifunctional polymer catalysts for realizing a resource-circulating manufacturing system



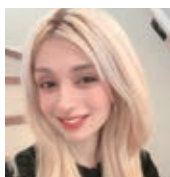
大井 綾乃
 栄養応答研究チーム
 排泄を介した代謝恒常性維持機構の解明
Ayano Oi
 Laboratory for Nutritional Biology
 Elucidation of Excretion-Mediated Mechanisms to Maintain Metabolic Homeostasis



岡崎 恵
 複合系気候科学研究チーム
 水粒子成長過程のラグランジュ的解明とパラメタリゼーション開発
Megumi Okazaki
 Computational Climate Science Research Team
 Lagrangian investigation of water droplet growth processes and development of parameterization



沖田 周祐
 人間認知・学習研究チーム
 Managing Plasticity and Stability in Skill Learning by Manipulating Excitatory-Inhibitory Ratio in the Brain
Shusuke Okita
 Laboratory for Human Cognition and Learning
 Managing Plasticity and Stability in Skill Learning by Manipulating Excitatory-Inhibitory Ratio in the Brain



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 Generating CD103+ TRM-like TILs as a novel strategy for cancer immunotherapy
Aneela Nomura
 Laboratory for Immunological Memory
 Generating CD103+ TRM-like TILs as a novel strategy for cancer immunotherapy



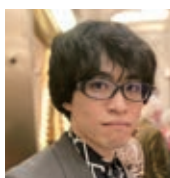
Pietro Rescigno
 連続系の理論研究チーム
 Spectral reconstruction in high temperature Lattice QCD
Pietro Rescigno
 Field Theory Research Team
 Spectral reconstruction in high temperature Lattice QCD



櫻井 快
 先端光学素子開発チーム
 軟X線多色タイコグラフィの開発による高分解能生細胞元素イメージングの実現
Kai Sakurai
 Ultrahigh Precision Optics Technology Team
 High-resolution element-selective imaging of living cells by developing a simultaneous multi-wavelength soft X-ray ptychography system



佐藤 海
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 うつ病および抗うつ効果に関わる異常翻訳制御ネットワークの解明
Kai Sato
 Laboratory for Protein Conformation Diseases
 Elucidation of abnormal translational regulatory networks involved in depression and antidepressant effects.



澤田 涼
 数理基礎部門
 高エネルギー天体における核合成過程を基盤とした新たな太陽系形成理論の創成
Ryo Sawada
 Division of Fundamental Mathematical Science
 Toward a New Theory of Solar System Formation Based on Nucleosynthesis in High-Energy Astrophysical Phenomena



關澤 太樹
 数理脳科学研究チーム
 脳の記憶の非平衡熱力学: 記憶の維持に脳活動に振動が必要となる数理的理由
Daiki Sekizawa
 Laboratory for Neural Computation and Adaptation
 Nonequilibrium thermodynamics of memory in the brain: a mathematical basis for the necessity of oscillatory brain waves for memory maintenance



Wei-Hsiang Shao
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 Origins of the Quantum Universe from Stringy Spacetime
Wei-Hsiang Shao
 Division of Fundamental Mathematical Science
 Origins of the Quantum Universe from Stringy Spacetime



嶋村 大亮
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 水圏光合成生物のCO2環境適応を制御するシグナル伝達因子の解明
Daisuke Shimamura
 Bioproductivity Informatics Research Team
 Elucidation of signal transduction factors regulating CO2 environmental adaptation in aquatic photosynthetic organisms



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 Decoding lipid-based molecular dialogues between plants and microorganisms
Lin-Jie Shu
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 Decoding lipid-based molecular dialogues between plants and microorganisms



鈴木 優樹
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 量子もつれを用いた初期宇宙およびその進化の解明
Yuki Suzuki
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 Exploring the beginning of the universe and its cosmological evolution via quantum entanglement



鈴木 泰輝
 触媒・融合研究グループ
 生体化学シグナルを時空間的に可視化する低分子プローブの開発
Taiki Suzuki
 Catalysis and Integrated Research Group
 Development of small-molecular probes for visualizing spatiotemporal chemical signals in vivo.



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 核励起状態の半径測定による核構造研究の新展開
Gen Takayama
 Research Instruments Group, Data System Team
 Measurement of Excited-State Nuclear Radii: A New Development in Nuclear Structure Studies



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数理基礎部門
相対版Thom多項式理論の構築と写像のトポロジーへの応用

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Construction of a relative version of Thom polynomial theory and its application to topology of maps

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Breathable and Adhesive PDMS Foam for Robust Soft-Hard Interfaces in Wearable Bioelectronics

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Enhancing Privacy Awareness and Responsibility in Visual Media Generation and Processing with Explainable AI

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Enhancing Privacy Awareness and Responsibility in Visual Media Generation and Processing with Explainable AI

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冬眠を支える低温下翻訳制御機構

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Translational control supporting hibernation at low temperatures

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Uncovering neural circuit basis of timing in the spinal cord

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Uncovering neural circuit basis of timing in the spinal cord

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Dissecting cell-type specific RNA-chromatin interactions in the 3D nuclear space

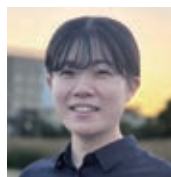
Wing Hin Yip

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Dissecting cell-type specific RNA-chromatin interactions in the 3D nuclear space

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半導体高分子の精密配向制御によるポリマーツイストロニクスの開拓

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Exploring polymer twistronics through precise orientation control of semiconducting polymers

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植物脂質研究チーム
葉緑体包膜の脂質合成ドメインとチラコイド膜構築をつなぐ鍵因子の探索

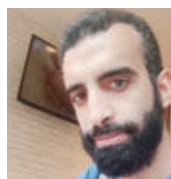
Akiko Yoshihara

Plant Lipid Research Team
Exploring key factors of thylakoid membrane formation in the lipid biosynthesis domain at chloroplast envelope membranes

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無細胞タンパク質合成研究チーム
高解像度ネオエピトープ解析を起点としたがん高選択的抗体様小分子創出プラットフォームの開発

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Laboratory for Cell-Free Protein Synthesis
Development of a Platform for the Discovery of Antibody-like Small Molecules with High Cancer Selectivity Based on High-Resolution Neopeptide Analysis

Ahmed Yusuf Mohamed Yusuf

形成層幹細胞システム理研ECL研究ユニット
Cracking chromatin secrets behind tree longevity: Multi-omics approach to unlock the epigenetic mechanisms controlling cambium stem cells maintenance and fate determination.

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Cambial Stem Cell System RIKEN ECL Research Unit
Cracking chromatin secrets behind tree longevity: Multi-omics approach to unlock the epigenetic mechanisms controlling cambium stem cells maintenance and fate determination.

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機械論的制御可能性に向けた大規模言語モデルの回路ベース編集

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Towards Mechanistic Controllability: Circuit-based Behavior Correction for Large Language Models

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Superconductivity in the clean limit

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ジョセフソンカップラーを用いた高精度量子制御技術の開発と量子誤り訂正への展開

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Superconducting Quantum Computing System Research Unit
Development of High-Fidelity Quantum Control Using a Josephson Coupler and Its Application to Bosonic Quantum Error Correction

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フィジカルバイオロジー研究チーム
Theoretical model for cytoskeletal structure formation bound by a membrane

Abhinandan Angra

Laboratory for Physical Biology
Theoretical model for cytoskeletal structure formation bound by a membrane

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染色体分配研究チーム
卵母細胞における動原体を介した紡錘体二極性化促進機構の解明

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Laboratory for Chromosome Segregation
Unraveling the mechanism of promoting spindle bipolarization via kinetochore in oocytes.



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気象場との相互作用を直接計算する3次元放射伝達モデルの開発

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Computational Climate Science Research Team
Development of a Three-Dimensional Radiative Transfer Model for Direct Calculation of Interactions with the Atmospheric Field



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分子精神病理研究チーム
Development of a single-cell genomics framework integrating spatial transcriptomics, GWAS, and activity-dependent regulation to uncover the genetic architecture of brain disorders.

Karla Adrine Mathilde Budim

Laboratory for Molecular Pathology of Psychiatric Disorders
Development of a single-cell genomics framework integrating spatial transcriptomics, GWAS, and activity-dependent regulation to uncover the genetic architecture of brain disorders.



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Advancing ion Cyclotron Auto-Resonance Acceleration (CARA) through preparation of the world-first demonstration test bench and advanced RF cavity design

Matis David Vivien Cuvelier

Nuclear Transmutation Technology Group
Advancing ion Cyclotron Auto-Resonance Acceleration (CARA) through preparation of the world-first demonstration test bench and advanced RF cavity design



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エピゲノムダイナミクス理研ECL研究チーム
染色体数操作を用いたヒト不活性X染色体の不均一性の原因機序解明

Ateni Endo

Epigenome Dynamics RIKEN ECL Research Team
Understanding the heterogeneity of human X-chromosome inactivation states through chromosome number manipulation



遠藤 知

Ulmer基本的対称性研究室
High precision measurement of the antiproton's charge to mass ratio in a Penning trap outside the Antimatter Factory of CERN

Satoshi Endoh

Fundamental Symmetries Laboratory
High precision measurement of the antiproton's charge to mass ratio in a Penning trap outside the Antimatter Factory of CERN



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テンソル学習チーム
超軽量深層学習に向けた最適な構造的情報を利用する微分可能・非凸なスパース正則化

Takanobu Furuhashi

Tensor Learning Team
Towards Ultra-Lightweight Deep Learning: Differentiable, Non-convex Sparse Regularization with Optimal Structural Information



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ホロバイオント・レジリエンス研究チーム
水田をモデルとした微生物群集レジリエンスと酸化還元勾配に基づく持続可能性メカニズムの解明

Rin Futagawa

Holobiont and Resilience Research Team
Elucidating the Mechanisms of Sustainability in Paddy Fields Based on Microbial Community Resilience and Redox Gradients



原 佳範

数理脳科学研究チーム
非対称結合スパイクングネットワークの動的平均場理論(DMFT)解析

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Dynamic Mean-Field Theory (DMFT) analysis of asymmetric spiking neural networks



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Discovery of Autism Spectrum Disorder-Associated Circular RNAs Through Systematic Screening Approaches

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Laboratory for Brain Development and Disorders
Discovery of Autism Spectrum Disorder-Associated Circular RNAs Through Systematic Screening Approaches



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数理遺伝学理研ECL研究ユニット
日本における人類によって形成された生物多様性の4万年をたどる

Satsuki Hirasawa

Mathematical Genomics RIKEN ECL Research Unit
Tracing 40,000 years of human-shaped biodiversity in Japan



星野 大志

メタボローム研究チーム
腸管免疫恒常性を制御する脂質代謝系の同定

Daishi Hoshino

Laboratory for Metabolomics
Identification of lipid metabolic systems regulating intestinal immune homeostasis



飯田 健太

メタフォトニクス研究チーム
レーザー照射下で成長する金樹状構造の形状および光学特性の変化の探究

Kenta Iida

Metaphotonics Research Team
Exploration of changes in geometries and optical properties of gold dendritic structures grown under laser irradiation



猪飼 朋音

粘膜システム研究チーム
エライジン酸が関与する代謝性疾患のメカニズム解明

Tomone Ikai

Laboratory for Intestinal Ecosystem
Elucidating the mechanistic role of elaidic acid in metabolic disease



伊與田 裕大

多階層生命動態研究チーム
地球外生命探査に向けた化学反応データに基づく代謝ネットワーク探索

Yudai Iyoda

Laboratory for Multiscale Biosystem Dynamics
Exploration of Potential Metabolic Networks Based on Chemical Reaction Data



金藤 浩伯

冬眠生物学研究チーム
マウス脳組織のex vivo環境下における冬眠様代謝状態の再現

Kohaku Kanefuji

Laboratory for Hibernation Biology
Ex vivo synthesis of a hibernation-like metabolic state in the mouse brain



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強相関理論研究グループ
「構造化光」と「量子もつれ光」による光量子物性理論の新領域の開拓

Daemo Kang

Strong Correlation Theory Research Group
New Frontiers in Light-Matter Interaction through Structured Light and Entangled Photons



川畑 光瑠

時空間エンジニアリング研究チーム
小型磁気ガイド光格子時計の作製

Hikaru Kawabata

Space-Time Engineering Research Team
Fabrication of a Compact Magnetic-Guided Optical Lattice Clock



川俣 壮慶

炭素資源有効活用触媒研究チーム
アニオン性の光増感剤と対カチオンの協働作用による二酸化炭素ラジカルアニオンの反応制御

Morinori Kawamata

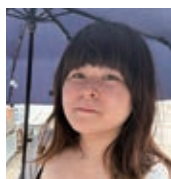
Catalytic Utilization of Carbon Resources Research Team
Control of Carbon Dioxide Radical Anion Reactivity via Cooperative Effects between Anionic Photosensitizers and Counter Cations

**菊池 悠太**

実験装置開発部
稀少不安定核電子散乱実験に向けたSCRIT法標的の高密度化

Yuta Kikuchi

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Development of a High-Density SCRIT Ion Target for Electron Scattering Experiments with Exotic nuclei

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ボソン系を用いた誤り耐性量子計算アーキテクチャの構築

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Quantum Computer System Design Research Team
A Fault-Tolerant Quantum Computing Architecture Based on Bosonic Systems

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記憶の定着におけるアストロサイト-ニューロン全脳ダイナミクス解析

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Whole-Brain Dynamics Analysis of Astrocyte-Neuron Interactions in Memory Consolidation

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Advancing Structurization and Vascularization of Human Kidney Organoids

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Advancing Structurization and Vascularization of Human Kidney Organoids

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Synthesis of protein-protein interaction-modulating molecular nanocarbons via in silico search

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Synthesis of protein-protein interaction-modulating molecular nanocarbons via in silico search

**Junyeong Lee**

染谷薄膜素子研究室
Development of a Chip-less, Battery-free, and Gas-permeable Passive Sensor Platform for Multiplexed Physiological Signal Monitoring

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Development of a Chip-less, Battery-free, and Gas-permeable Passive Sensor Platform for Multiplexed Physiological Signal Monitoring

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延性モード超精密フライカット加工による高分散CdZnTeイマージョン・グレーティングの開発

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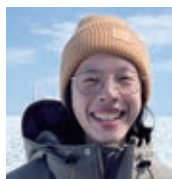
Ultrahigh Precision Optics Technology Team
Development of High-Dispersion CdZnTe Immersion Grating by Ductile-Mode Ultra-Precision Fly Cutting

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Foundational Investigation of LLMs Intrinsic Hallucination under Long-Noisy Input

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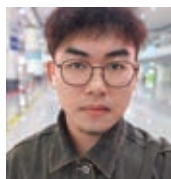
AI Security and Privacy Team
Foundational Investigation of LLMs Intrinsic Hallucination under Long-Noisy Input

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Learning to Reason from Weak Supervision

Thanawat Lodkaew

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Learning to Reason from Weak Supervision

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Solving RIKEN SPring-8 Imaging Challenges with AI-Driven Algorithms and High-Performance Computing

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Solving RIKEN SPring-8 Imaging Challenges with AI-Driven Algorithms and High-Performance Computing

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線虫C. elegansの胚発生における核画像に基づく分化状態アトラスの構築

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Laboratory for Developmental Dynamics
Developing an Atlas of Cell Differentiation States in C. elegans Embryogenesis from Nuclear Images

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針葉樹の不定胚形成過程における分子機構の解明

Rio Maruyama

Cell Function Research Team
Elucidation of molecular mechanisms of somatic embryogenesis in conifers

**三浦 右靖**

動的恒常性研究チーム
新規生命現象Autotomy(オートミー、細胞自切)の解析

Yusei Miura

Laboratory for Homeodynamics
Mechanisms and significance of autotomy, a novel phenomenon during starvation

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人工冬眠下の基礎代謝を司る腸内細菌の機能の解明

Reina Miyajima

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Functional analysis of gut microbiota responsible for basal metabolism under artificial hibernation

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動的システム学習チーム
力学系の作用素論的解析を介したティッピング予測・制御モデルの開発と学習理論への応用

Yuta Miyauchi

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Development of Tipping Prediction and Control Models via Operator Analysis of Dynamical Systems and Application to Learning Theory

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細胞外基質を介した細胞凝集モデルにおけるパターン形成原理の解明

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Principles of Pattern Formation in the Model of Cell Aggregation Mediated by the Extracellular Matrix

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特異学習理論による深層ニューラルネットワークの予測性能の原理記述

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Principled Characterization of the Predictive Performance of Deep Neural Networks via Singular Learning Theory

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量子ビットに対する非マルコフ開放量子系の有効理論の構築

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Developing an Effective Theory for a Qubit in Non-Markovian Open Quantum Systems



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スルホニウム化多環芳香族炭化水素のミトコンドリア治療への応用

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Applications of Sulfonium-Functionalized Polycyclic Aromatic Hydrocarbons to Mitochondria-Targeted Therapeutics



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疾患型タウ線維が蓄積するマウスを用いたアルツハイマー病の病態解明

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Elucidating the pathogenesis of Alzheimer's disease using mice with disease-specific tau fibril accumulation



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網膜色素変性における網膜構造からの網膜光感受性の予測

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Prediction of Retinal Light Sensitivity from Retinal Structure in Retinitis Pigmentosa



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量子コンピュータを用いた中性子過剰核の第一原理計算

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Ab Initio Calculations of Neutron-Rich Nuclei Using Quantum Computers



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Development of a Nuclear Clock Using Triply Charged Thorium-229 Ions



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Clinical Repositioning of Ascitic Data through Deep Learning for Prognostication of Ovarian Cancer and Discovery of Disease-Associated Factors



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新型中性子検出器NEOLITHで切り開く中性子原子核の研究

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SAMURAI Team
Exploring pure-neutron nuclei with the next-generation neutron detector NEOLITH



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Cell-ECM interaction-mediated self-organization mechanisms in skin appendage morphogenesis

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2025年度 理研オータムスクール

FY2025 RIKEN Autumn School

2025年度の理研オータムスクールは、2025年10月14日～15日に茨城県つくば市（つくば国際会議場）でJRA・IPA・RSR等計110人が参加し、活気あふれる会が開催されました。若手研究者育成制度を担当する吉田稔理事は、残念ながら現地参加が叶いませんでしたが、若手研究者に向けビデオメッセージを寄せてくださいました。現地では、加藤礼三研究政策審議役をはじめ、AIP・今泉允聡チームディレクター、RAP・森本裕也理研白眉研究チームリーダー、IMS・佐藤尚子理研ECL研究ユニットリーダーに参加いただき、これまでの研究者としての歩みや最新の研究成果など、若手研究者が今後のキャリアパスを考えるうえで参考になるお話を伺う機会を得ました。当日は基礎科学特別研究員もポスター賞の選考や全体の運営をサポートするボランティアとして参加しました。Icebreakerやポスターセッションは、普段交流できない異分野の研究室や離れたキャンパスの学生同士が交流を深める貴重な機会となりました。

FY2025 RIKEN Autumn School was held from October 14 to 15, 2025 at Tsukuba International Congress Center, Tsukuba, Ibaraki. 110 JRA, IPA, RSR and other students participated in this lively event and enjoyed inspiring talks by Drs. Masaaki Imaizumi, Yuya Morimoto and Naoko Satoh-Takayama about their research as well as their career paths leading up to now. The participants also introduced themselves in the Icebreaker session and presented their research during the poster sessions. Executive Vice President Dr. Minoru Yoshida, in charge of RIKEN's Junior Scientist Programs, unfortunately could not join the event on-site but sent the participants a warm video message. Research Strategy Advisor Dr. Reizo Kato also joined the event. All in all, the participants eagerly interacted and seemed to enjoy meeting their peers from different campuses and research areas. Volunteers from SPDR program helped as judges for the poster prizes and supported the Autumn School Office.



集合写真
Group photo



Icebreakerの様子
Icebreaker



ポスター発表の様子
Poster session



ポスター賞受賞者：(後段 左から)原田さん、リーさん、チンさん、ザアンさん、吉住さん、ボスコさん、西宮さん、東さん
 (前段 左から)チョウさん、バーマンさん、セカールさん、加藤礼三先生、谷内一郎先生、福田さん、向瀬さん、中西さん、ファンさん
 Poster prize winners: (Back row from the left) Mr. Harada, Ms. Li, Mr. Chin, Mr. Lingzhi Zhang, Mr. Yoshizumi, Mr. Bosko, Mr. Nishimiya, Mr. Azuma
 (Front row from left) Ms. Han Zhang, Mr. Barman, Mr. Sekar, Dr. Reizo Kato, Dr. Ichiro Taniuchi, Mr. Fukuda, Ms. Mukose, Ms. Nakanishi, Mr. Xin Huang

2025年度 基礎科学特別研究員 成果発表会開催報告

FY2025 Special Postdoctoral Researcher Poster Session

2026年1月22（木）に2025年度基礎科学特別研究員成果発表会を開催しました。

計61名が3年間の研究成果についてポスター発表を行いました。

当日は、基礎科学特別研究員制度推進委員会及び同審査委員会の委員、並びに関係研究者も参加し、活発な意見交換が行われました。

On January 22, 2026, the FY2025 SPDR Poster Session was held at Wako Campus. 61 SPDRs (including former SPDRs that had completed their term the year before) gave a final poster presentation on their SPDR research results from over the past three years.

Members of the SPDR Program Promotion and Selection committees as well as numerous other RIKEN researchers participated in the session and had a lively discussion with the participants.



集合写真
 Group photo

記事の募集

本紙では、若手研究者育成制度で理研に在籍中の方々、そのOB・OG、アドバイザーの方々の投稿を募集しています。研究内容の紹介、旅行の思い出、ご意見の他、写真やカットなどもお気軽にお寄せください。

編集後記

若手研News36号をお読みいただきありがとうございます。
この若手研NEWSは年一度発行の機関誌です。若手研究者育成制度で理研に在籍中の方々、OB/OGに向けて、活動報告と新しいメンバーを紹介しています。
皆様、理研での研究生生活はいかがでしょう。もしお困りの事がありましたら、いつでも人材戦略部研究人材育成課までご相談下さい（連絡先は下記）。
今後も皆様の理研での滞在がより充実したものになるよう努めていきますので、どうぞよろしくお願い申し上げます。

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Article Wanted

We are asking for submissions for “Young Researcher News”. Any members participating in RIKEN's programs for junior scientists and the research activities, the alumni and the advisors are welcome to submit your research intro, travel sketch, opinions and pictures.

From the editors

Thank you for reading the *Young Researcher News* No.36. This annual magazine introduces the new members participating in RIKEN's programs for junior scientists and the research activities conducted by the members, and is distributed to all the members and alumni of the programs.

For fellows in the programs: How is your life at RIKEN? Is everything going well?

If you have concerns or problems, feel free to contact us at the Junior Scientist Program Section (see contact info below).

We are here to help make your life at RIKEN fruitful and enjoyable and look forward to working with you.

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