若手研NEWS

Young Researcher News

RIKEN's Programs for Junior Scientists

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理化学研究所

A stranger comes to town

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'All *great literature* is one of two stories; a man goes on a journey or a *stranger* comes to town.'

-Leo Tolstoy

"A stranger comes to town"— I feel this phrase aptly represents my life in Japan.

I arrived in Japan in November 2021, having been home in India for around 2 years waiting for the world to open up since the start of the pandemic. I was grateful to have found a position with Yu-Chiun Wang, who leads our lab, Laboratory for Epithelial Morphogenesis at RIKEN-BDR, Kobe. Both my wife and I work in the same lab, similar to how we did our PhDs, working on separate projects.

Coming out of social isolation, I really wanted to

Giant statues at The Hill of Buddha, Hokkaido

connect with new people. Making friends here as a foreigner takes time, especially since Japanese people are kind, but also reserved and shy. A Buddhist philosopher I admire wrote, "Friendly greetings serve as an opening to heart-to-heart exchange from which we can set out onto the ocean of friendship." So, every morning, my wife and I, on our 15-minute walk to the station, started greeting people on the way. "*Ohayo gozaimasu!*" "*Konnichiwa!*"

Many Japanese people were surprised to hear two foreigners speaking Japanese to random strangers. Some looked away, some were welcoming, and many just seemed confused. Over the two years we've been here, we've managed to make connections with many new people. Now, we have our regular companions every day.

There's the couple running the vegetable store, the lady heading to work who gives us sweet plums in winter, the uncle with a big mask, the station master… all greeting us with a cheerful *"Itterasshai!" (loosely: Have a safe trip)*

With the spirit of *"Ittekimasu" (I'm leaving, and I will come back)*, we have travelled every day to work and to many places in Japan. We visited Karuizawa, Tokyo, Hokkaido, Amanohashidate, Hiroshima, Kyoto, Nara, Nabana no Sato and a few others my wife expertly planned (and I just followed, so their names escape me!). I particularly enjoy reading about the histories of the places, trying local delicacies, and talking to strangers about how unique their town is. The most common reply that I get when I tell people that I work at RIKEN is *"Atama ga ii" (Your brain is good!).*

At work, I've been captivated by the bustling

cytoplasm within cells, akin to the crowded trains in Mumbai and Tokyo. This becomes even more intriguing when considering egg-laying animals, where producing a large egg with a crowded cytoplasm demands significant energy. How has nature optimised this process?

I study *Drosophila* embryos, which are half a millimetre long and develop as syncytia, where nuclei share a common cytoplasm and undergo several rounds of division, later forming 6000 cells at once. In my Ph.D. work, I uncovered a fascinating detail—the actual cytoplasm isn't evenly spread, it's concentrated near the embryo's rim. This narrow volume of the cytoplasm is the volume containing all the cytoplasmic ingredients, and seems to be a resource-efficient approach by the mother.

What fills the bulk of the embryo below the cytoplasmic rim? It's the maternally deposited nutritional material called yolk. In my current work as a postdoc at RIKEN, I study what yolk is, why it is so densely packed, how it separates from the cytoplasm near the rim, and how it mechanically influences the folding of the cells during gastrulation.

Outside the lab, I have always been fascinated by how beliefs influence reality and cultures. One window into how cultures evolve has been learning about how language and idioms evolved. These represent the philosophy of the people staying in the land and their shared common beliefs. They are windows into the past and the truths shared by all.

Discovering Japan through language and proverbs has been fascinating. I find the language extremely brief yet carrying a lot of meaning. For example, the same word: *"nomu"* can mean "do you want to drink?" or "I drink" depending on the context. Also in many Japanese sentences, the subject is implicit. For example, I can omit *"watashi wa"* from *"watashi wa sameer des."* I think this reflects a closely knit community where people understand contexts instinctively and can make predictions without being explicitly told about things.

A Japanese proverb that enchants me is: *"Ichi-go-ichi-e"*, meaning one time, one meeting, representing the irreplaceability of a moment. I think this proverb aptly describes what I constantly observe in people in Japan, which is a great sincerity and attention to detail, with the belief that one has only this moment to make a difference. This may also be reflected in the great encouragement I receive from people in Japan, such as
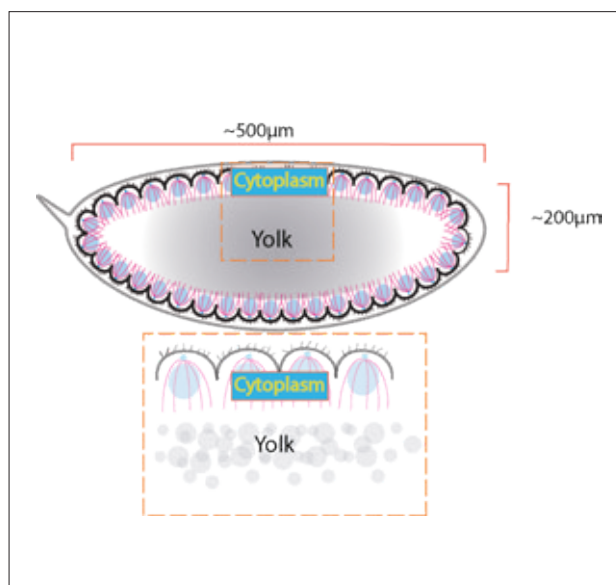
Drosophila embryo grows as a syncytium, with the cytoplasm concentrated near the rim of the embryo.
The bulk of the embryo is filled with yolk. I study how yolk segregates from the cytoplasm and mechanically influences tissue folding.

Sakura time in Kyoto

in the table tennis club I recently joined.

In this amateur club of table tennis enthusiasts, I'm the youngest and our best player is an 81-year-old lady. They're way better at the game than me and I look forward to these weekly sessions. We start with *radio taiso* (stretching exercises) and it's amazing to see how polite everyone is, even after losing a close game.

Here's the twist: despite being a beginner, everyone calls me *"jozu"* (English: You're very good!). It's a very encouraging way of being friendly and supportive. I believe being *"jozu"* means enjoying the journey, no matter your age or how good you are.

I feel there is a lot more in Japan that I have to learn from. As a stranger to Japan before and now as a friend, my journey in exploring its traditions and culture, language and customs continues, writing the great literature of my life.

essay

新たなスタートと挑戦
New start, new challenges

竹原　侑里
生命医科学研究センター 基盤技術開発研究チーム
大学院生リサーチ・アソシエイト

Yuri Takehara
RIKEN Center for Integrative Medical Sciences, Laboratory for Genotyping Development
Junior Research Associate

2023年4月にJRAとして理化学研究所に入職し、気づけば季節が冬になろうとしている。この約半年間は初めての連続であり、自分自身の知識不足や学習の遅さに焦りを覚えることも少なくなかった。そもそも、研究に関する知識どころか、研究を進めるためのツールに非常に不慣れだった。これまで表を作るくらいでしかエクセルに触れてこなかった私が、何とかその関数を使い、さらには四苦八苦しながらRやLinuxで解析をすることになるとは、人生何が起きるか分からない。そして、どちらかというと歩いて動き回ることのほうが多かった社会人生活が一変した。慣れるのだろうかと心配していたが、毎日繰り返すうちに、以前からこの生活を送っていたかのように当たり前になっていて、それもまた不思議なものだと感じている。

というのも、私は昨年度までは総合病院の乳腺外科

I joined RIKEN as a JRA in April 2023, and before I knew it, winter had arrived. This half-year or so has been one beginning after the next, and I've had my fair share of moments that made me realize how slow I learn and how much knowledge I'm still lacking. Forget knowledge—I hardly knew how to use the tools for working on research when I first started. Having only ever made graphs on Excel, I somehow managed to figure out its functions, and struggled all the more analyzing data with R and Linux, wondering how my life had come to this. What's more, the nature of my job, which had been quite physically active before, was turned on its head. I was afraid I might never get used to it, but as I repeat my work each passing day, I find it curious how I'm becoming as accustomed to this new lifestyle as to my old one.

When I say my "old" lifestyle, I mean until last year, when I was working as a doctor in the department of

に医師として勤務しており、外来診療、手術、病棟回診と病院の中を移動しながら、主に乳がん患者さんと向き合うことが仕事だった。乳腺外科と聞くと、「乳腺、特に乳がんしか診ない診療科があるのか」と驚く方もいるかもしれないが、乳がんと一口にいっても様々なタイプがあり、外科治療、薬物治療、放射線治療と治療のプロセスは患者さん毎に様々であることが多く、奥深い領域である。そして、その治療の選択肢は日々アップデートされている。

例えば、私が乳腺外科医を志した5年前から今日までの間に起きた大きな変化の一つが、遺伝診療にある。2020年4月から、乳がんに罹患した際に遺伝学的検査により乳がん発症のリスクが高いことがわかった場合に、リスク低減のために乳がん未発症の対側乳房の切除を行うことが保険適応となった。また、その遺伝学的なメカニズムを利用した治療薬も実臨床で使われるようになった。実臨床の中で「遺伝子」が非常に身近になっていくのを肌で感じる中で、前職の恩師を通じ、遺伝子

breast surgery at a general hospital. My work involved outpatient care, surgery, and doing rounds of the wards as I worked directly with breast cancer patients. Some people may be surprised that there's such thing as a department of breast surgery—do we really need a whole department just for the mammary glands and breast cancer? But it's a field with great depth, as the term "breast cancer" covers a host of different types of cancer, and there's different treatment processes for each patient, from surgery to medication to radiation therapy. Furthermore, the choices available for treatment are advancing day by day.

Take one major change that's occurred in the five years since I set my sights on becoming a breast surgeon: genetic diagnosis and treatment. As of April 2020, upon contracting breast cancer, if a genetic screening shows that there is a high risk of developing cancer in the non-affected breast, a risk-reducing mastectomy is covered by insurance. A drug utilizing that same genetic mechanism is now being used clinically as well. As I felt myself growing intensely familiar with genes in clinical practice, I decided to join a


日々研究室のメンバーに沢山教えてもらいながら、研究を進めている
I work to advance my research while learning lots from my fellow lab members each day.

とがん関連を研究する大きなプロジェクトが走る今の研究室へJRAとして入職することが決まった。もともと、臨床の隙間時間ではなく、しっかりと時間を割いて研究に向き合ってみたいという気持ちがあり、また、母が乳がん患者ということから遺伝というトピックを身近に感じていた自分にとって、大変貴重なチャンスを頂いたと思っている。

　今、研究室に所属しながら感じるのは、冒頭にも書いた自分自身の知識の未熟さ…もあるのだが、なによりも研究は「チーム」だということである。研究者だけでなく、実験を担うWetチーム、解析やITを担うDryチームの方々が、それぞれの専門性と責任を持ちながら、率直な意見を伝え合い、お互いを支え合い、同じ目標に向かって日々進んでいる。それがまだまだ未熟な私を支えてくれていると感じ、チームの皆に感謝しながら過ごし

lab that runs a large-scale project researching the relationship between genetics and cancer as a JRA, thanks to a mentor at my former job. I originally wanted to dedicate real time to research rather than just doing it in my spare time at the clinic, after all, and my mother's breast cancer brought the topic of genetics even closer to home. Becoming a JRA was a truly valuable opportunity for me.

Now that I belong to a lab, other than my lack of knowledge that I mentioned at the beginning, my focus is mainly on the fact that research is a team effort. It isn't just researchers—the members of the wet team that handles experiments and the dry team that handles IT and analysis each come together with their own specialties and areas of responsibility to exchange candid comments, support one another, and work towards the same goal day by day. I feel a great deal of gratitude for every member of this team as they support
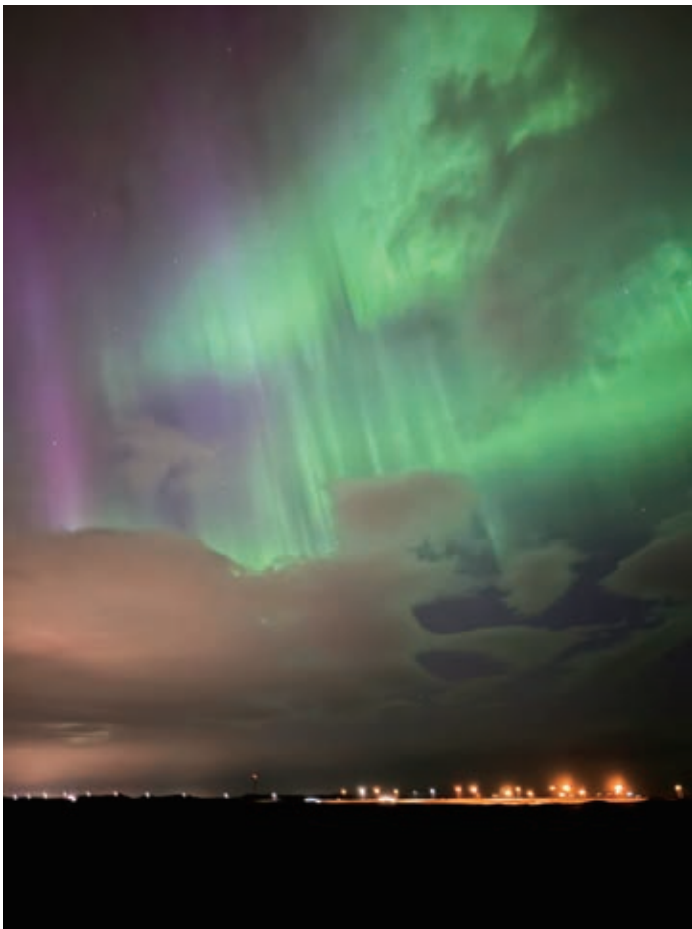
秋に休暇をとり、アイスランドへ旅行した際に見えたオーロラ
The aurora, which I saw on a vacation to Iceland last fall.

ている。私も日々学び、知識をつけつつ、プライベート
の時間も充実させながら、臨床医としてのバックグラウ
ンドを活かしながら研究室にチームの一員として貢献し
ていければと思う。

me in my inexperience. I hope to continue learning each day, building up my knowledge, and finding fulfillment in my personal life as I put my clinical background to use in contributing as a part of the team.

A Personal Journey to the Land of the Rising Sun

クイン ティ ヌ ドウ
環境資源科学研究センター　植物ゲノム発現研究チーム
国際プログラム・アソシエイト

Quynh Thi Nhu Do
RIKEN Center for Sustainable Resource Science, Plant Genomic Network Research Team
International Program Associate

When I was a little girl in Vietnam in the 90s, watching cartoons on evening TV with other neighboring kids was part of my childhood routine. Among various cartoons, Sailor Moon was perhaps the most watched series among us little kids. I was not sure why, but I felt attracted to the brave actions of such beautifully portrayed female heroes in this series. At that time, however, I had no idea that Sailor Moon was an *anime* and that it was produced in a foreign country called Japan.

As I grew up a bit and learned to read, I was attracted to another kind of entertainment: comics. I started reading several series of different genres, from adventure like *Dragon Ball* to comedy like *Yaiba*, from mystery like *Detective Conan* to slice of life like *Doraemon*. I was immersed in the multifaceted world of framed drawings: exciting, funny, mysterious, and peaceful. To my surprise, I learned that these series were called *manga* and that they were created by so-called manga-ka from Japan. Suddenly I realized that there was a common denominator underlying *anime* and *manga* – my two favorite forms of childhood

entertainment: Japan. That was perhaps the moment when I became seriously curious about this foreign place and dreamed of going there in person one day.

I first set foot in Japan when it was in the middle of a seasonal transition from Autumn to Winter. However, Japan – like the rest of the world – was still being affected by the COVID-19 pandemic. Therefore, I was required to undergo a fortnight's quarantine period in a designated place. Fortunately, my assigned apartment happened to be on a high floor and had a spacious balcony where I could have a very good view of local Japanese life. Every morning, I could see from my balcony a nearby elementary school that was full of kids in beautiful uniforms. Seeing those kids wearing colorful hats and exercising diligently with their teachers in the morning sunshine, I was reminded of Maruko-chan – a cute little anime girl who often wears a nice hat on top of her short hair. On the streets around my place, I could see square-shaped cars driving around in a cartoonish way. I could also – for the first time in my life – feel the vibration of earthquakes on this island. After the quarantine time ended, I moved into the Yokohama

International Student House and prepared for my PhD research journey at the RIKEN Yokohama branch. From there, I could see Mount Fuji from far away. The top of Mount Fuji was covered in snow and it looked like Fuji-san was wearing a purely white hat. Such an image felt so familiar to me, as I remembered seeing it many times in the manga Doraemon. Everything I learned about Japanese life – from the kinds of manga I had read and the series of anime I had watched – appeared so vividly in front of my eyes in real life. For a moment, I felt like I was living in a manga where I had become the protagonist of my own story in this enchanting country.

Driven to discover more about this exciting place, I wanted to explore Japanese cuisine depicted in manga and anime. Since reading and watching Doraemon were a huge part of my childhood, one of the first dishes I dreamed of tasting was Doraemon pancakes. To make the tasting experience even more complete, I visited the Fujiko F. Fujio Museum – which displays the work of the creator of Doraemon – for a truly authentic pancake. The cakes tasted so yummy and they looked exactly like what I saw in Doraemon: it was fantastic. However, being a fan of flavorful salty foods, I also wanted to try ramen, the favorite food of Naruto – my other favorite manga character. I paid a visit to the Ramen Museum to not only taste ramen but also learn more about the history of this Japanese dish. I was impressed by the various versions of ramen in different parts of Japan and was even more impressed with the savory taste of local ramen served there. It was truly satisfying.

In addition to manga and anime, I also watched Japanese TV shows. One of the TV shows I like is "Midnight Diner: Tokyo Stories" which portrays captivating stories unlocked by dishes served in Izakaya – the Japanese-styled bar. I decided to explore some local Izakaya and instantly felt in love with this bar style. The menu was so diverse from one izakaya to another, but all the dishes were savory. Even though I am not a fan of alcoholic beverages, their aroma was reminiscent of my childhood: growing up in Vietnam, I was familiar with such aromatic scents thanks to my family's practice of traditional alcoholic brewing. Little did I know that this moment would somehow intersect with my current research interests.

The intriguing concept of alcohol-drunk plants has become one of the focal research points in our lab. It was a strange but fascinating resemblance between the effects of alcoholic consumption on humans and those on plants from the perspectives of defense responses. As humans, especially amidst the COVID-19 pandemic, we *injected* ourselves with specialized vaccines to strengthen our immune systems against coronaviruses.

Figure 1: Doraemon pancakes at the Fujiko F. Fujio Museum

Figure 2: Fuji-san covered in a white hat-like snow

Similarly, we found that plants being *exposed* to certain types of alcoholic compounds became better at coping with environmental stresses such as drought and high temperatures. And like vaccine application which is simple yet effective at improving the human's immune system, alcohol application appears to be an effective and simple approach to fortify plants' defense system against the harsh effects of extreme environments.

As I continued my journey in Japan and delved deeper into the intricate world of plant science, I marveled at the unexpected connections that life had presented me. From the vibrant streets of Japan to the scientific corridors of our laboratory, each experience added a new dimension to my understanding and reminded me that sometimes the most remarkable discoveries come from the most unlikely of intersections.

Figure 3: Tsurumi's river bank in the sunset

主な受賞／Award List

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
久保田 雄也 Yuya Kubota	放射光科学研究センター 利用システム開発研究部門 ビームライン開発チーム RIKEN SPring-8 Center Advanced Photon Technology Division Beam Line Development Team	第27回 日本放射光学会奨励賞	日本放射光学会 The Japanese Society for Synchrotron Radiation Research	2023/01/07
森田 泰之 Yasuyuki Morita	仁科加速器科学研究センター 加速器基盤研究部 イオン源開発チーム RIKEN Nishina Center for Accelerator-Based Science Accelerator Group, Ion Source Team	ビーム物理研究会 2022若手発表賞	ビーム物理研究会	2023/03/10
Thomas Hitchcock	数理創造プログラム Interdisciplinary Theoretical and Mathematical Sciences Program	Best English Presentation Award	日本生態学会 Ecological Society of Japan	2023/03/18
Jose Said Gutierrez Ortega	数理創造プログラム Interdisciplinary Theoretical and Mathematical Sciences Program	Excellent English Presentation Award	日本生態学会 Ecological Society of Japan	2023/03/18
酒井 博之 Hiroyuki Sakai	バイオリソース研究センター 微生物材料開発室 RIKEN BioResource Research Center, Microbe Division (RIKEN BRC JCM)	HFSP Early Career Grants	日本医療研究開発機構 Japan Agency for Medical Research and Development	2023/4/4
今井 みやび Miyabi Imai	開拓研究本部 Kim 表面界面科学研究室 RIKEN Cluster for Pioneering Research, Surface and Interface Science Laboratory	2022年 日本表面真空学会学術講演会 講演奨励賞(若手研究者部門)	日本表面真空学会 The Japan Society of Vacuum and Surface Science	2023/05/20
今井 みやび Miyabi Imai	開拓研究本部 Kim 表面界面科学研究室 RIKEN Cluster for Pioneering Research, Surface and Interface Science Laboratory	2022年 日本表面真空学会 若手女性研究者優秀賞	日本表面真空学会 The Japan Society of Vacuum and Surface Science	2023/05/20
大小田 結貴 Yuki Okoda	開拓研究本部 坂井星・惑星形成研究室 RIKEN Cluster for Pioneering Research, Star and Planet Formation Laboratory	ALMA 10th Anniversary Award	ALMA Observatory Organization	2023/5/23
石橋 朋樹 Tomoki Ishibashi	生命機能科学研究センター フィジカルバイオロジー研究チーム RIKEN Center for Biosystems Dynamics Research Laboratory for Physical Biology	Outstanding Poster Presentation Award The 3rd Area Conference of the Transformative	Transformative research areas (A): Mechanical self-transformation of living systems	2023/6/15
今井 みやび Miyabi Imai	開拓研究本部 Kim 表面界面科学研究室 RIKEN Cluster for Pioneering Research, Surface and Interface Science Laboratory	令和5年度 花王科学奨励賞	花王芸術・科学財団	2023/06/18
石橋 朋樹 Tomoki Ishibashi	生命機能科学研究センター フィジカルバイオロジー研究チーム RIKEN Center for Biosystems Dynamics Research Laboratory for Physical Biology	若手優秀発表賞 第75回 日本細胞生物学会大会 Young Scientist Award for Presentation, The75th Annual Meeting of the Japan Society for Cell Biology	日本細胞生物学会 The Japan Society for Cell Biology	2023/6/29

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
吉永 直人 Naoto Yoshinaga	環境資源科学研究センター バイオ高分子研究チーム RIKEN Center for Sustainable Resource Science Biomacromolecules Research Team	第33回 バイオ・高分子シンポジウム 若手研究者奨励講演賞	高分子学会 バイオ・高分子研究会 The Society of Polymer Sience, Japan	2023/07/27
成塚 政裕 Masahiro Naritsuka	創発物性科学研究センター 創発物性計測研究チーム RIKEN Center for Emergent Matter Science, Emergent Phenomena Measurement Research Team	QLC2023 Young Researcher Award	International Conference on Quantum Liquid Crystals 2023	2023/08/09
Alexandra Janina Wolf	革新知能統合研究センター 認知行動支援技術チーム RIKEN Center for Advanced Intelligence Project, Cognitive Behavioral Assistive Technology Team	Best Poster Presentation Award	Machine Learning Research School MLRS 2023 (Bangkok, Thailand)	2023/8/9
高場 圭章 Kiyofumi Takaba	放射光科学研究センター 生体機構研究グループ RIKEN SPring-8 Center Biostructural Mechanism Group	IUCr Young Scientist Award	International Union of Crystallography (IUCr)	2023/8/23
小野 清志郎 Seishiro Ono	数理創造プログラム Interdisciplinary Theoretical and Mathematical Sciences Program	第7回 高温超伝導フォーラム若手 研究奨励賞	高温超伝導フォーラム High Temperature Superconductivity Forum	2023/09/15
Fehmi Sami Yasin	創発物性科学研究センター 電子状態マイクロスコピー研究チーム RIKEN Center for Emergent Matter Science, Electronic States Microscopy Research Team	The 20th International Microscopy Congress Best Oral Presentation	The 20th International Microscopy Congress	2023/09/15
碓井 喜明 Yoshiaki Usui	生命医科学研究センター 基盤技術開発研究チーム RIKEN Center for Integrative Medical Sciences, Laboratory for Genotyping Development	Best Oral Award, Human Genetics Asia 2023	The Human Genetics Asia 2023	2023/10/14
田屋 英俊 Hidetoshi Taya	数理創造プログラム Interdisciplinary Theoretical and Mathematical Sciences Program	第18回 日本物理学会若手奨励賞 （第25回核理論新人論文賞）	日本物理学会 The Physical Society of Japan	2023/10/23
横田 猛 Takeru Yokota	数理創造プログラム Interdisciplinary Theoretical and Mathematical Sciences Program	第18回（2024年） 日本物理学会若手奨励賞 （第25回核理論新人論文賞）	日本物理学会 The Physical Society of Japan	2023/10/23
柳瀬 友朗 Tomoro Yanase	開拓研究本部 富田数理気候学研究室 RIKEN Cluster for Pioneering Research Mathematical Climatology Laboratory	2023年度 日本気象学会山本賞	日本気象学会 The Meteorologial Society of Japan	2023/10/24
藤原 良介 Ryosuke Fujiwara	環境資源科学研究センター 細胞生産研究チーム RIKEN Center for Sustainable Resource Science, Cell Factory Research Team	SECOND PRIZE for Poster Presentation of the General Biotechnology Theme	Thai Society for Biotechnology	2023/11/1

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
津曲 和哉 Kazuya Tsumagari	生命医科学研究センター 統合ゲノミクス研究チーム	第96回 日本生化学会大会若手優秀発表賞	日本生化学会	2023/11/2
	RIKEN Center for Integrative Medical Sciences, Laboratory for Integrative Genomics	The 96th Annual Meeting of the Japanese Biochemical Society Young Scientist Award	Japanese Biochemical Society	
稲田 健吾 Kengo Inada	生命機能科学研究センター 比較コネクトミクス研究チーム	2023年度 IDDI小幡賞	イノベーション創薬研究所	2023/11/03
	RIKEN Center for Biosystems Dynamics Research, Laboratory for Comparative Connectomics			
Fehmi Sami Yasin	創発物性科学研究センター 電子状態マイクロスコピー研究チーム	IEEE Around-the-Clock Around-the-Globe Magnetics Conference 2023 Best Oral Presentation Award	IEEE Magnetics Society	2023/11/21
	RIKEN Center for Emergent Matter Science, Electronic States Microscopy Research Team			
津曲 和哉 Kazuya Tsumagari	生命医科学研究センター 統合ゲノミクス研究チーム	HUPO Travel Award	日本プロテオーム学会	2023/11/30
	RIKEN Center for Integrative Medical Sciences, Laboratory for Integrative Genomics		Japan Proteome Society	
藤原 良介 Ryosuke Fujiwara	環境資源科学研究センター 細胞生産研究チーム	化学工学会研究奨励賞 （玉置明善記念賞）	化学工学会	2023/12/1
	RIKEN Center for Sustainable Resource Science Cell Factory Research Team	The SCEJ Award for Outstanding Young Researcher	The Society of Chemical Engineers, Japan	
石橋 朋樹 Tomoki Ishibashi	生命機能科学研究センター フィジカルバイオロジー研究チーム	MBSJ2023 サイエンスピッチ優秀発表賞 第46回 日本分子生物学会年会	日本分子生物学会	2023/12/1
	RIKEN Center for Biosystems Dynamics Research Laboratory for Physical Biology	MBSJ2023 Best Science Pitch Award, The 46th Annual Meeting of the Molecular Biology Society of Japan	The Molecular Biology Society of Japan	
山田 智史 Satoshi Yamada	開拓研究本部 榎戸極限自然現象理研白眉研究チーム	第40回 井上研究奨励賞	井上科学振興財団	2024/2/2
	RIKEN Cluster for Pioneering Research Extreme Natural Phenomena RIKEN Hakubi Research Team		Inoue Foundation for Science	

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
Wei Wang	革新知能統合研究センター 汎用基盤技術研究グループ 不完全情報学習チーム	Microsoft Research Asia D-CORE Award	Microsoft Research Asia	2023/4/1
	RIKEN Center for Advanced Intelligence Project, Generic Technology Research Group, Imperfect Information Learning Team			
山岸 愛 Manami Yamagishi	開拓研究本部 Nori理論量子物理研究室	第59回 incu・be賞奨励賞	株式会社リバネス	2023/4/10
	RIKEN Cluster for Pioneering Research, Theoretical Quantum Physics Laboratory		Leave a Nest Co., Ltd.	
玉井 真悟 Shingo Tamai	脳神経科学研究センター タンパク質構造疾患研究チーム	ポスター発表賞 銅賞	第27回 台湾生物物理学会 年会	2023/5/19
	RIKEN Center for Brain Science Laboratory for Protein Conformation Diseases	The Bronze Medal Award of the Poster Competition	The Taiwan Biophysical 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
Yixin Guo	数理創造プログラム Interdisciplinary Theoretical and Mathematical Sciences Program	A3F-CNS Summer School 2023 Young Scientist Award	東京大学 大学院理学系研究科附属原子核科学研究センター Center for Nuclear Study, The University of Tokyo	2023/8/10
Yixin Guo	数理創造プログラム Interdisciplinary Theoretical and Mathematical Sciences Program	Asian Nuclear Physics Association & AAPPS-DNP Award for Young Scientist	東京大学 大学院理学系研究科附属原子核科学研究センター Center for Nuclear Study, The University of Tokyo	2023/8/10
Jiatai Li	仁科加速器科学研究センター RI物理研究部 RIKEN Nishina Center for Accelerator-Based Science Radioactive Isotope Physics Group	CNS Summer School 2023 Young Scientist Award	CNS, University of Tokyo	2023/8/10
高原 規行 Noriyuki Takahara	創発物性科学研究センター 強相関界面研究グループ RIKEN Center for Emergent Matter Science, Strong Correlation Interface Research Group	iWOE-29 Best Presentation Award, 29th International Workshop on Oxide Electronics		2023/10/17
Cheng Shang	量子コンピュータ研究センター 量子複雑性解析理研白眉研究チーム RIKEN Cluster for Pioneering ResearchAnalytical, Quantum Complexity RIKEN Hakubi Research Team	QPQIS2023 BEST POSTER AWARD	Beijing Academy of Quantum Information Sciences	2023/10/19
Wei Wang	革新知能統合研究センター 汎用基盤技術研究グループ 不完全情報学習チーム RIKEN Center for Advanced Intelligence Project, Generic Technology Research Group, Imperfect Information Learning Team	NeurIPS 2023 Scholar Award	NeurIPS 2023	2023/10/25
玉井 真悟 Shingo Tamai	脳神経科学研究センター タンパク質構造疾患研究チーム RIKEN Center for Brain Science Laboratory for Protein Conformation Diseases	ベストポスター賞 Best Poster Awards	アジア太平洋プリオン研究会2023 Asian Pacific Prion Symposium	2023/11/10
松村 理久 Riku Matsumura	仁科加速器科学研究センター 核変換データ研究開発室 RIKEN Nishina Center for Accelerator-Based ScienceNuclear Transmutation Data Group	2023 Joint Symposium on Nuclear Data aud PHITS POSTER PRESENTATION AWARD	日本原子力学会核データ部会 Nuclear Data Division Atomic Energy Society of Japan	2023/11/17
山岸 愛 Manami Yamagishi	開拓研究本部 Nori理論量子物理研究室 RIKEN Cluster for Pioneering Research, Theoretical Quantum Physics Laboratory	Poster Presentation Award for Young Researcher	Mutsuko Hatano, General Chair of Quantum Innovation 2023	2023/12/5
玉井 真悟 Shingo Tamai	脳神経科学研究センター タンパク質構造疾患研究チーム RIKEN Center for Brain Science Laboratory for Protein Conformation Diseases	MBSJ2023サイエンスピッチ優秀発表賞 MBSJ2023 Best Science Pitch Award	第46回 日本分子生物学会 年会 The Molecular Biology Society of Japan	2023/12/7

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
Osama Ramadan Metawea	創発物性科学研究センター 創発生体工学材料研究チーム	第32回 日本MRS年次大会 奨励賞	日本MRS	2023/01/13
	RIKEN Center for Emergent Matter Science, Emergent Bioengineering Materials Research Team	Award for Encouragement of Research in the 32nd Annual Meeting of MRS-J	The Materials Research Society of Japan	
Sylvia Almeida	開拓研究本部 岩崎RNAシステム生化学研究室	2023年 日本RNA学会 優秀賞	日本RNA学会	2023/07/07
	RIKEN Cluster for Pioneering Research, RNA Systems Biochemistry Laboratory		RNA Japan	
Haoran Zhang	環境資源科学研究センター 先進機能触媒研究グループ	IPC2023 Young Scientist Poster Award	The Society of Polymer Science	2023/07/21
	RIKEN Center for Sustainable Resource Science, Advanced Catalysis Research Group			
Retno Dwi Wulandari	創発物性科学研究センター 創発デバイス研究チーム	KJF-ICOMEP 2023 Poster Award	International Conference on Organic Materials for Electronics and Photonics (KJF-ICOMEP 2023)	2023/09/02
	RIKEN Center for Emergent Matter ScienceEmergent Device Research Team			
Ya Fen Yong	環境資源科学研究センター 天然物生合成研究ユニット	The 23rd International Conference on Cytochrome P450 Ruckpaul Award	The 23rd International Conference on Cytochrome P450	2023/09/29
	RIKEN Center for Sustainable Resource Science, Natural Product Biosynthesis Research Unit			
Ya Fen Yong	環境資源科学研究センター 天然物生合成研究ユニット	The 5th KRIBB-RIKEN Chemical Biology Joint Symposium Excellent Poster Presentation Award	KRIBB-RIKEN Chemical Biology Joint Symposium	2023/10/17
	RIKEN Center for Sustainable Resource Science, Natural Product Biosynthesis Research Unit			

| | 写真
Photo | 氏名
受入研究室
研究課題
Name
Host Laboratory
Research Topic |

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

荻沼 政之
荻沼時間発生生物学理研ECL研究チーム（CPR）
時間発生生物学理研ECL研究チーム（BDR）
動物胚の時間制御機構の解明

Masayuki Oginuma
Chrono-Developmental Biology RIKEN ECL Research Team
Elucidation of the time control mechanisms during embryonic development

橋本 直
橋本中間子理研ECL研究チーム（CPR）
中間子理研ECL研究チーム（RNC）
反K中間子を構成要素とする新奇原子核の研究と超伝導X線検出器の学際的応用

Tadashi Hashimoto
Meson RIKEN ECL Research Team
Exploring novel forms of matter containing an anti-kaon and interdisciplinary application of superconducting X-ray detectors

谷 峻太郎
谷光励起デジタルツイン理研ECL研究チーム（CPR）
光励起デジタルツイン理研ECL研究チーム（RAP）
光励起により駆動されるマルチスケール現象のデジタルツイン構築

Shuntaro Tani
Digital Twin for Light-Matter Interaction RIKEN ECL Research Team
Constructing Digital Twin for Multi-Scale Phenomena Driven by Photo-Excitation

理研ECL研究ユニットリーダー
RIKEN ECL Unit Leader

藤代 有絵子
極限量子固体物性理研ECL研究ユニット（CEMS）
藤代極限量子固体物性理研ECL研究ユニット（CPR）
量子物質単結晶を用いた極限環境下での電子機能探索

Yukako Fujishiro
Extreme Quantum Matter Physics RIKEN ECL Research Unit
Exploration of new electronic functionality in single-crystalline quantum materials under extreme conditions

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

Abir Goswami
創発ソフトマター機能研究グループ
Controlled Self-Assembly of Fluorinated Macrocycles as a Universal Theranostic Agent

Abir Goswami
Emergent Soft Matter Function Research Group

Ahmad Luqman Bin Abdul Fatah
レトロトランスポゾン動態研究チーム
Identification of RNA-binding protein regulators of immunogenic non-coding RNAs through CRISPR knockout screening and sequential RNA-immunoprecipitation

Ahmad Luqman Bin Abdul Fatah
Laboratory for Retrotransposon Dynamics

永野 茜
思考・実行機能研究チーム
霊長類における心的時間超越を伴う因果推論の神経機構の解明

Akane Nagano
Laboratory for Imagination and Executive Functions
Neural mechanisms of causal reasoning with mental time transcendence in primates

大内 彩子
時空間認知神経生理学研究チーム
海馬−嗅内皮質回路における空間ナビゲーションの神経機構の解明

Ayako Ouchi
Laboratory for Systems Neurophysiology
Neuronal mechanisms underlying spatial navigation in the hippocampal-entorhinal circuit

Binglun Li
脳機能動態学連携研究チーム
Exploring the neural basis of social behavior through calcium imaging in marmosets

Binglun Li
Brain Functional Dynamics Collaboration Laboratory

Bowen Wu
ガーディアンロボットプロジェクト インタラクティブロボット研究チーム
アンドロイドロボットにおける物語説明のための言語・非言語情報の統合手法の開発

Bowen Wu
Guardian Robot Project Interactive Robot Research Team
Integrating linguistic and non-linguistic information for narrative descriptions of android robots

Charissa Ting Amanda Poon
統合計算脳科学連携部門 脳画像解析開発ユニット
Automated development of databases of histological brain imaging data in Alzheimer's disease

Charissa Ting Amanda Poon
Brain Image Analysis Unit Integrative Computational Brain Science Collaboration Division

池田 大
超高速コヒーレント軟X線光学研究チーム
局所分子構造を反映する超高速キラル識別法の開発：光電子ヘリカル二色性の実証

Dai Ikeda
Ultrafast Coherent Soft X-ray Photonics Research Team
Exploring Ultrafast Chiral Recognition Method Reflecting Local Molecular Structure: Demonstration of Photoelectron Helical Dichroism
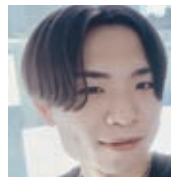
川﨑 大輝
田中メタマテリアル研究室
単一細胞発火で駆動する超微小レーザーの開発と全光での電気生理学解析法の創成

Daiki Kawasaki
Metamaterials Laboratory
Development of micro-laser driven by single cell firing for all-optical electrophysiological analysis

Elisa Liliane Bernadette Rioual
杉田理論分子科学研究室
Enzymatic reactions in liquid droplets

Elisa Liliane Bernadette Rioual
Theoretical Molecular Science Laboratory

菅野 颯人
理研BNL研究センター
理論研究グループ
強結合の場の理論の真空構造の解明

Hayato Kanno
RIKEN BNL Research Center, Theory Group
Research for the vacuum structure of strongly coupled quantum field theory

吉岡 広大
田中生体機能合成化学研究室
生体内で安定な人工金属触媒の開発と、組織特異的SQLE分解誘導剤合成への応用

Hiromasa Yoshioka
Biofunctional Synthetic Chemistry Laboratory
Development of artificial metaloenzyme stable in-vivo and its application to induce tissue-specific SQLE degradation

西留 比呂幸
量子オプトエレクトロニクス研究チーム
2色励起発光によるサブミクロンTHzイメージング法の開拓

Hiroyuki Nishidome
Quantum Optoelectronics Research Team
Development of sub-micron terahertz imaging method using two-color excitation photoluminescence

Hongshen He
神経回路・行動生理学研究チーム
Elucidating the circuit mechanisms of insight in the mammalian brain.

Hongshen He
Laboratory for Circuit and Behavioral Physiology

Islam Adel Abdelhakim Amin
天然物生合成研究ユニット
Unlocking the Secrets of DHLC biosynthesis: A Groundbreaking Solution to Combat Malaria Spread

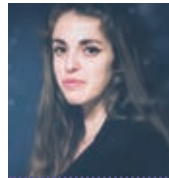Islam Adel Abdelhakim Amin
Natural Product Biosynthesis Research Unit

Jekson Robertlee
分子生命制御研究チーム
Uncovering the specific roles of phytohormone co-receptors using artificial molecules

Jekson Robertlee
Molecular Bioregulation Research Team

Judit Ferrer_I_Asensio
坂井星・惑星形成研究室
Tracing the Journey of Molecular Complexity in Star Forming Regions via Deuterium Fractionation

Judit Ferrer_I_Asensio
Star and Planet Formation Laboratory

山岸 純平
多階層生命動態研究チーム
細胞および生態系の代謝挙動の一般理論：経済学と物理学からのアプローチ

Jumpei Yamagishi
Laboratory for Multiscale Biosystem Dynamics
Economics and physics for microbial ecology and metabolism

小泉 淳之介
数理創造プログラム
モチーフ理論の拡張とその数論幾何学への応用

Junnosuke Koizumi
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Extension of the theory of motives and its application to arithmetic geometry

北村 侃
数理創造プログラム
量子群の非可換トポロジーの探求とその応用

Kan Kitamura
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Noncommutative topology of quantum groups and its applications

二本木 克旭
創発物性計測研究チーム
パルス強磁場・高圧力下トンネル分光測定の開発と応用

Katsuki Nihongi
Emergent Phenomena Measurement Research Team
Development and applications of tunneling spectroscopy under high pressure in pulsed high magnetic fields

堀部 和也
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
協調ゲーム理論を応用した人間と人工エージェント・ロボットの共創的意思決定メカニズムの解明

Kazuya Horibe
RIKEN CBS-TOYOTA Collaboration Center
Computational Group Dynamics Collaboration Unit
Stewardship for cooperation of global human collective behavior using artificial agents and robots

山本 啓
構成的細胞生物学研究チーム
アクチン細胞骨格が司るシグナル発生場形成の構成的理解

Kei Yamamoto
Laboratory for Bottom-up Cell Biology
Constructive understanding of signal transduction site mediated by the actin cytoskeleton.

西田 圭吾
計算分子設計研究チーム
不確実性を考慮した深層学習向けの専用ハードウェアアーキテクチャ

Keigo Nishida
Laboratory for Computational Molecular Design
Dedicated hardware architecture for deep learning with uncertainty

板尾 健司
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
多階層進化理論による社会構造の構成的記述

Kenji Itao
RIKEN CBS-TOYOTA Collaboration Center
Computational Group Dynamics Collaboration Unit
Constructive description of social structures using multi-level evolutionary theory

大町 紘平
細胞外環境研究チーム
細胞外マトリックスと接着分子のダイナミクスによる毛包幹細胞の運命制御メカニズムの解明

Kohei Omachi
Laboratory for Tissue Microenvironment
Defining how extracellular matrix and adhesion molecule dynamics control hair follicle stem cells fate

山本 晃毅
細胞極性統御研究チーム
ナノ流体デバイスが拓く単一酵素分子の自己駆動拡散の直接計測

Koki Yamamoto
Laboratory for Cell Polarity Regulation
Direct measurement of self-propulsion driven-diffusion of single enzyme molecule using nanofluidics

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氏名
受入研究室
研究課題

Name
Host Laboratory
Research Topic

野垣 康介
計算物質科学研究チーム
拡張多極子がもたらす新奇な量子多体物理の開拓

Kosuke Nogaki
First-Principles Materials Science Research Team
Development of novel quantum many-body physics based on augmented multipole

石津 光太郎
触知覚生理学研究チーム
極超広視野二光子顕微鏡を用いた知覚生成の神経メカニズム解明

Kotaro Ishizu
Laboratory for Haptic Perception and Cognitive Physiology
Elucidation of neural mechanisms of perception generation using ultra-wide-field two-photon microscopy

清水 宏太郎
計算物質科学研究チーム
第一原理計算に基づいたトポロジカル磁気構造における非平衡ダイナミクスと量子輸送現象の開拓

Kotaro Shimizu
First-Principles Materials Science Research Team
Theoretical study on non-equilibrium dynamics and quantum transport phenomena in topological spin textures based on the first principle calculation

Laura Bracun
タンパク質機能・構造研究チーム
Visualizing the 3D architecture of bacterial photosynthetic apparatus

Laura Bracun
Laboratory for Protein Functional and Structural Biology

Matthew Stuart Farrell
数理脳科学研究チーム
A canonical task for modeling naturalistic motor learning

Matthew Stuart Farrell
Laboratory for Neural Computation and Adaptation

Mengqing Chen
先進機能触媒研究グループ
Rare-Earth Metal Catalysis for Multi-functional Polymer Synthesis

Mengqing Chen
Advanced Catalysis Research Group

河本 尚大
岩崎RNAシステム生化学研究室
新規ハイスループットリボソームプロファイリング法による概日時計における翻訳制御メカニズムの解明

Naohiro Kawamoto
RNA Systems Biochemistry Laboratory
Elucidation of translational control mechanisms in the circadian clock by novel high-throughput ribosome profiling method

森川 億人
数理創造プログラム
一般化された対称性の格子ゲージ理論の観点からの厳密な定式化

Okuto Morikawa
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Rigorous formulation of the generalized symmetries from the viewpoint of lattice gauge theory

福島 理
数理創造プログラム
非平衡量子ダイナミクスによるホログラフィーの解明

Osamu Fukushima
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Non-Equilibrium Quantum Dynamics Approach to Holography

Ping Kao
細胞機能研究チーム
Molecular controls of plant totipotency in embryogenesis

Ping Kao
Cell Function Research Team

Pok Man Ngou
植物免疫研究グループ
Pathogen recognition landscape of leucine-rich repeat receptor kinases in plants

Pok Man Ngou
Plant Immunity Research Group

平井 遼介
長瀧天体ビッグバン研究室
種々の連星相互作用と大質量星の進化の多様性

Ryosuke Hirai
Astrophysical Big Bang Laboratory
Energetic interactions between stars and the diversity of massive stellar evolution

秋山 遼太
代謝システム研究チーム
シストセンチュウ孵化促進物質の植物生理機能の解明

Ryota Akiyama
Metabolic Systems Research Team
Elucidation of the physiological functions of cyst nematode hatching factors in plants

Safiye Esra Sarper
発生幾何研究チーム
タテジマイソギンチャク分節構造パターンの形態・分子的解析を通じた動物形態の対称性多様化機構の探索

Safiye Esra Sarper
Laboratory for Developmental Morphogeometry
Exploring the symmetry diversification mechanism via analyzing the morphological and molecular aspects of Diadumene lineata segmentation patterning

Shaoshan Zeng
坂井星・惑星形成研究室
Nitrogen-bearing organic molecules as a probe to study interstellar nitrogen chemistry

Shaoshan Zeng
Star and Planet Formation Laboratory

宇野 慎介
テラヘルツイメージング研究チーム
精密宇宙観測を実現するサブミリ波分光撮像技術の開拓

Shinsuke Uno
Terahertz Sensing and Imaging Research Team
Development of submillimeter imaging spectroscopy for precision cosmology

大山 修平
量子物性理論研究チーム
高次Berry位相を用いたトポロジカル相の理論的研究

Shuhei Ohyama
Quantum Matter Theory Research Team
Theoretical study of the higher Berry phase and its application to topological phases

小山 俊平
核反応研究部
原子核の多様なクラスター構造研究：アイソスピン回転を用いた新展開

Shumpei Koyama
Nuclear Dynamics Research Group
Study of various cluster structures in nuclei : new perspective by using Isospin rotation

宮尾 貴久
免疫恒常性研究チーム
胸腺髄質上皮細胞の分化に伴う核内因子AIREの機能変化と
自己免疫疾患発症への影響
Takahisa Miyao
Laboratory for Immune Homeostasis
Alterations in the function of nuclear factor AIRE during differentiation of thymic
medullary epithelial cells and its influence on the development of autoimmune diseases

里見 貴志
数理創造プログラム
局所コンパクト群上の畳み込みに関する不等式と表現論・調和解析の関連
Takashi Satomi
RIKEN Interdisciplinary Theoretical and Mathematical
Sciences Program
Inequalities about the convolution on locally compact groups and
the relation with the representation theory and harmonic analysis

鳥取 岳広
数理脳科学研究チーム
計算資源制限下でも実現可能な脳の学習原理の解明
Takehiro Tottori
Laboratory for Neural Computation and Adaptation
Learning principle of brain under limitations of computational
resources

中村 匠
分子精神病理研究チーム
空間トランスクリプトーム解析による統合失調症責任遺伝子群がもた
らす共通分子病理の解明
Takumi Nakamura
Laboratory for Molecular Pathology of Psychiatric Disorders
Convergent molecular pathology caused by the schizophrenia-
associated genes using spatial-transcriptome analyses

田中 悠太朗
量子物性理論研究チーム
結晶成長におけるトポロジカル相に誘起される非平衡パターン形成の
研究
Yutaro Tanaka
Quantum Matter Theory Research Team
Nonequilibrium pattern formation induced by topological phases
in crystal growth

大貫 朋哉
学習・記憶神経回路研究チーム
ネガティブな情動状態を意思決定へ統合する皮質ー皮質下神経回路
Tomoya Ohnuki
Laboratory for the Neural Circuitry of Learnin and Memory
Cortico-subcortical neuronal circuits integrating aversive
emotional states with decision-making

Yingming Xie
強相関理論研究グループ
Nonreciprocal optical responses in superconductors
Yingming Xie
Strong Correlation Theory Research Group

浅倉 祥文
発生幾何研究チーム
マルチオミクス解析を起点とした四肢再生時の発生プログラム再起動
機構の解明
Yoshifumi Asakura
Laboratory for Developmental Morphogeometry
Multi-omics analyses toward elucidation of rebooting mechanisms
of developmental programs during limb regeneration

板橋 勇輝
創発デバイス研究チーム
ファンデルワールス層状超伝導体を用いた対称性制御と新奇超伝導
物性の開拓
Yuki Itahashi
Emergent Device Research Team
Symmetry engineering and novel superconducting properties in
van der Waals layered superconductor

四坂 勇磨
分子生命制御研究チーム
酵素の基質認識能の曖昧さを活かしたCO_2固定化技術の創成
Yuma Shisaka
Molecular Bioregulation Research Team
Development of a New Technology for CO_2 Fixation by Exploiting
Enzyme Promiscuity

Yun-Hsuan Chang
iPS細胞高次特性解析開発チーム
次世代リプログラミング因子による決定論的なiPS細胞作製法と効果
的な組織若返り法の開発
Yun-Hsuan Chang
iPS Cell Advanced Characterization and Development Team
Deterministic iPSC generation and effective tissue rejuvenation
with next-generation reprogramming factors

Yuning Qiu
テンソル学習チーム
Adaptive Low-rank Tensor Network Decomposition: Theory
and Application
Yuning Qiu
Tensor Learning Team

山本 悠登
数理創造プログラム
トロピカル幾何学を用いた対数的Hodge構造の研究
Yuto Yamamoto
RIKEN Interdisciplinary Theoretical and Mathematical
Sciences Program
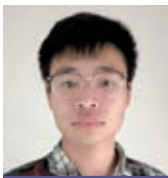Logarithmic Hodge structure via tropical geometry

千葉 侑哉
濱崎非平衡量子統計力学理研白眉研究チーム
局所および準局所保存量に基づく孤立量子系の熱平衡化の時間スケールの解明
Yuuya Chiba
Nonequilibrium Quantum Statistical Mechanics RIKEN
Hakubi Research Team
Studies on the timescale of thermalization in an isolated quantum
system in light of local and quasilocal conserved quantities

Zhongyi Zhou
医用機械知能チーム
Active Teaching: An Inverse Problem of Active Learning
Zhongyi Zhou
Machine Intelligence for Medical Engineering Team

Ziwei Zhang
坂井星・惑星形成研究室
Finding the Missing Sulfur in the "Hot Disks" of Massive
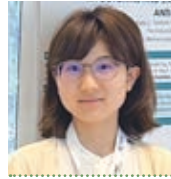Protostars
Ziwei Zhang
Star and Planet Formation Laboratory

写真
Photo

氏名
受入研究室
研究課題

Name
Host Laboratory
Research Topic

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

安藤 雅奈
自然免疫システム研究チーム
アレルギー病態におけるILC2の役割

Mana Ando
Laboratory for Innate Immune Systems
Role of ILC2 in Allergic Disease

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有吉 薫香
ゲノム解析応用研究チーム
・SNVs（特に稀な多型）やコピー数多型、構造多型を用いたPRSと複雑形質との関連の評価　・TWASを用いたエンハンサーと疾患の関連の評価

Kuyuri Ariyoshi
Laboratory for Statistical and Translational Genetics
Assessment of the association between PRS and complex traits using SNVs (especially rare variants), copy number variations and structural variations. Assessment of associations between enhancers and disease using TWAS

東 将太
非コードゲノム機能研究チーム
ウイルス・トランスポゾン相互作用を介したゲノム機能制御

Shota Azuma
Laboratory for Functional Non-coding Genomics
Regulation of genome function through virus-transposon interactions

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坂 駿之介
多階層生命動態研究チーム
無細胞翻訳系の数理モデルにおける翻訳速度地形の解析

Shunnosuke Ban
Laboratory for Multiscale Biosystem Dynamics
Analysis of translation speed landscape in a mathematical model of the cell-free translation system

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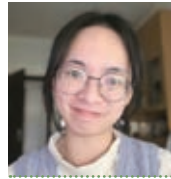
Ying Feng
創発ソフトマター機能研究グループ
Supramolecular Polymer Foam

Ying Feng
Emergent Soft Matter Function Research Group
Supramolecular Polymer Foam

藤田 佳也
発生エピジェネティクス研究チーム
高解像度1細胞全ゲノムDNA複製解析法の開発とマウス初期胚への適用

Kaya Fujita
Laboratory for Developmental Epigenetics
Development of high-resolution single-cell genome-wide DNA replication profiling technology and its application to early mouse embryos

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藤田 有香
栄養応答研究チーム
カルニチンの代謝制御機構とその生理的意義の解明

Yuka Fujita
Laboratory for Nutritional Biology
Regulation of carnitine metabolism and its physiological role

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古橋 拓登
高機能生体分子開発チーム
がん標的性ペプチドの人工創出と評価

Takuto Furuhashi
Laboratory for Advanced Biomolecular Engineering
Development of cancer-targeting peptides and their validation

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濱口 翔
共生微生物叢研究チーム
IgA腎症の発症、進展に関与する口腔内細菌の同定

Sho Hamaguchi
Laboratory for Symbiotic Microbiome Sciences
Identification of oral bacteria involved in the development and progression of IgA nephropathy

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韓 東学
電子状態スペクトロスコピー研究チーム
ナノ秒パルス電流駆動スキルミオンダイナミクスの超高速ナノ計測

Dongxue Han
Electronic States Spectroscopy Research Team
Nanoscale imaging of ultrafast skyrmion dynamics induced by nanosecond current pulses

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橋本 啓来
安全業務室
空気中アルファ線放出核種の高感度検出器の開発

Hiroki Hashimoto
Safety Management Group
Development of Highly Sensitive Monitor for Alpha Emitting Nuclides in Air

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Mingzhao Hu
血管形成研究チーム
Mechanism of blood vessel remodelling

Mingzhao Hu
Laboratory for Vascular Morphogenesis
Mechanism of blood vessel remodelling

稲積 駿
知識獲得・対話研究チーム
話者の非言語情報に基づくマルチモーダル対話の要約

Shun Inazumi
Knowledge Acquisition and Dialogue Research Team
Multimodal Dialogue Summarization using Speakers' Non-Verbal Information

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石井 寛斗
免疫恒常性研究チーム
胸腺樹状細胞が食物抗原に対して誘導する免疫寛容機構の立証

Hiroto Ishii
Laboratory for Immune Homeostasis
Thymic dendritic cells induce immune tolerance to food antigens

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金指 勇樹
がんゲノム研究チーム
バイオバンクジャパンにおけるPTEN遺伝子の病的バリアントと臨床情報の関連解析
原発性/再発性の膠芽腫における腫瘍免疫細胞のシングルセル解析/空間的発現(ST)解析

Yuki Kanazashi
Laboratory for Cancer Genomics
Association analysis of pathogenic PTEN variants in BioBank Japan
Single cell and spatial analysis of primary/recurrent tumor immune cells of Glioblastoma

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片岡 万知華
生命系放射光利用システム開発チーム
ヘムトランスポターの動的構造解析による基質輸送メカニズムの解明

Machika Kataoka
SR Life Science Instrumentation Team
Structures and dynamics of heme transporeter

片山 俊平
創発ソフトシステム研究チーム
体表面上電気刺激によるサイボーグ昆虫制御を目指した伸縮性フィルム電極開発

Shumpei Katayama
Emergent Soft System Research Team
Development of Stretchable Film Electrodes for Control of Cyborg Insects by On-Surface Electrical Stimulation

川端 祥太
先端レーザー加工研究チーム
GHzバーストモードフェムト秒レーザーにより形成した2次元微細周期構造形成メカニズムの解明および固体表面機能の検討
Shota Kawabata
Advanced Laser Processing Research Team
Understand the formation mechanism, and investigation of surface functionality of two-dimensional periodic surface nanostructures fabricated by GHz burst mode femtosecond laser pulses

川原 大典
時空間認知神経生理学研究チーム
文脈依存的な海馬の神経集団活動に対する層理論を応用した位相的データ解析
Daisuke Kawahara
Laboratory for Systems Neurophysiology
Topological data analysis applying sheaf theory to context-dependent hippocampal neural population activity

川下 大響
核子多体論研究室
12C(α,γ)反応の超大質量星進化における重要性について
Hiroki Kawashimo
Nuclear Many-body Theory Laboratory
On the importance of the carbon-alpha reaction rate from the very massive star explosion

木下 絵里加
田原分子分光研究室
液体界面反応を観測可能にする新規非線形分光法の開発
Erika Kinoshita
Molecular Spectroscopy Laboratory
Development of novel nonlinear spectroscopy to observe reactions occurring at liquid interfaces

前蔵 遼
ハイブリッド量子回路研究チーム
誤り耐性量子計算の実現に向けた強化学習による最適量子制御の理論構築
Ryo Maekura
Hybrid Quantum Circuits Research Team
Optimal quantum control with reinforcement learning for fault-tolerant quantum computation

松本 美緒
鈴木地球・惑星生命科学研究室
CPR細菌群から原始エネルギー代謝に迫る
Mio Matsumoto
Geobiology and Astrobiology Laboratory
Delving into Primordial Energy Metabolism through the CPR Bacterial Group

松若 正篤
疾患エピゲノム遺伝研究チーム
マウス初期発生におけるH3K27メチル化の新規確立機構および機能の解明
Masahiro Matsuwaka
Laboratory for Epigenome Inheritance
Elucidating the mechanism and function of H3K27 methylation in early mouse development

室本 匡希
タンパク質機能・構造研究チーム
真核生物の走化性に関与する走化性受容体とその関連分子の構造解析
Masaki Muromoto
Laboratory for Protein Functional and Structural Biology
Structural analysis of chemotaxis receptors and related molecules involved in eukaryotic chemotaxis

長房 俊之介
核反応研究部
ハドロン質量起源の解明に向けた原子核密度中でのファイ中間子質量スペクトルの精密測定
Shunnosuke Nagafusa
Nuclear Dynamics Research Group
Precise measurement of the phi meson mass spectrum at the nuclear density to elucidate the origin of hadron mass

中西 泰一
数理創造プログラム
部分次元粒子への場の理論的アプローチと量子誤り訂正
Taiichi Nakanishi
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Field Theoretic Approaches to Subdimensional Particles and Quantum Error Correcting Codes

中西 由
ヒト器官形成研究チーム
腎臓─膀胱間の接続メカニズム解明による尿路系オルガノイドの試験管内再構築
Yu Nakanishi
Laboratory for Human Organogenesis
In vitro reconstruction of urinary tract organoids by elucidating the mechanism of kidney-bladder connection

Duc Thien Nguyen
テンソル学習チーム
Efficient and interpretable kernel-based tensor methods for multi-way data imputation
Duc Thien Nguyen
Tensor Learning Team
Efficient and interpretable kernel-based tensor methods for multi-way data imputation

西田 光輝
時空間エンジニアリング研究チーム
光格子に捕捉された冷却原子の連続供給と縦励起ラムゼー分光による光格子時計の実現
Koki Nishida
Space-Time Engineering Research Team
Continuous supply of laser-cooled atoms trapped in an optical lattice and longitudinal Ramsey spectroscopy for optical lattice clocks

西納 修一
データ駆動型生物医科学チーム
データ駆動型仮説の信頼性保証手法の開発および産業分野への適用
Shuichi Nishino
Data-Driven Biomedical Science Team
Development of a Reliability Assurance Method for Data-Driven Hypotheses and Application to Industrial Fields

西澤 凌平
フィジカルバイオロジー研究チーム
数理モデル開発による、細胞集団のキラルな回転運動メカニズムの解明
Ryohei Nishizawa
Laboratory for Physical Biology
Development of a Mathematical Model to Elucidate the Mechanism of Collective Chiral Cell Rotational Migration

小笠 晃汰
メタボローム研究チーム
腸内細菌が産生するsphingolipidアナログの宿主移行とその生理機能に関する研究
Kota Ogasa
Laboratory for Metabolomics
Physiological fuctions of gut derived sphingolipids analogue that are translocated to mouse tissue

及川 虎太郎
画像情報処理研究チーム
視覚システムに着想を得た映像通信最適化アルゴリズムの研究開発
Kotaro Oikawa
Image Processing Research Team
Visual system inspired algorithms for video processing

大西 一誉
知識獲得・対話研究チーム
音声活動予測モデルを用いたマルチパーティターンテイキングの検討
Kazuyo Onishi
Knowledge Acquisition and Dialogue Research Team
Multi-party Turn-taking Using Voice Activity Prediction Model

大島 久典
濱崎非平衡量子統計力学理研白眉研究チーム
測定誘起転移と多体局在現象の統一的理解に向けた理論構築

Hisanori Oshima
Nonequilibrium Quantum Statistical Mechanics RIKEN
Hakubi Research Team
Developing a unified theory for measurement-induced transitions
and many-body localization phenomena

Chenlin Shi
プロセッサ研究チーム
HPCのための次世代CGRAアーキテクチャに関する研究

Chenlin Shi
Processor Research Team
A Study of Next-Generation CGRA Architecture for High
Performance Computing

Yiqiang Shi
神経回路・行動生理学研究チーム
Superior colliculus (SC) is an important regulator of seizure generalization.
But how SC participates in the epilepsy network is still unknown. I will
investigate how SC modulates hippocampal epilepsy and memory.

Yiqiang Shi
Laboratory for Circuit and Behavioral Physiology
Superior colliculus (SC) is an important regulator of seizure generalization.
But how SC participates in the epilepsy network is still unknown. I will
investigate how SC modulates hippocampal epilepsy and memory.

助田 一晟
統計数理連携ユニット
脳神経データの統計モデリング

Issei Sukeda
Statistical Mathematics Collaboration Unit
Statistical modelling of neuroscience data

Zhou Sun
先進機能触媒研究グループ
One-pot Sequential Rare-Earth Catalyzed Imidoyl C-H
Alkylation and Reduction

Zhou Sun
Advanced Catalysis Research Group
One-pot Sequential Rare-Earth Catalyzed Imidoyl C-H Alkylation
and Reduction

鈴木 遼
創発機能高分子研究チーム
電子線描画による有機半導体薄膜ナノ構造の精密制御

Ryo Suzuki
Emergent Functional Polymers Research Team
Precise Control of Organic Semiconductor Thin Film
Nanostructures by Electron Beam Lithography

戸室 幸太郎
岩崎RNAシステム生化学研究室
Ribo-seqと近接標識の統合による局所翻訳網羅解析

Kotaro Tomuro
RNA Systems Biochemistry Laboratory
Comprehensive analysis of local translation through the integration
of ribosome profiling and APEX2 proximity labeling.

戸﨑 泰誠
バイオメディカル計算知能ユニット
スーパーコンピュータ「富岳」を用いた大規模健康医療データにおける
因果的疾患発症経路の網羅探索

Taisei Tosaki
Biomedical Computational Intelligence Unit
Developing Causal Disease Onset Networks in Large-scale
Medical and Health data using Supercomputer Fugaku
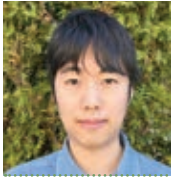
上村 宗一郎
数理創造プログラム
曲面の基本群の表現空間の量子化とそれに付随する3次元多様体の
位相不変量に関する研究

Soichiro Uemura
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
The research on the quantization of the representation space of the
fundamental group of surfaces and the associated topological
invariant of three-dimensional manifolds

漆畑 舞人
橋本分子合成機能研究室
電気化学による酸化剤フリーなキラルセレン触媒反応の開発

Maito Urushibata
Molecular Synthesis and Function Laboratory
Development of oxidant-free chiral selenium catalyzed reactions
by electrochemistry

牛尾 凌太
不完全情報学習チーム
入力データへのアクセスを必要としないデータ処理手法に関する研究

Ryota Ushio
Imperfect Information Learning Team
Data analysis methods without access to input instances

Wahala Thanthrige Risitha Deelaka Wikmal Subasinghe
分子精神病理研究チーム
Multifaceted analysis of XPO7, a schizophrenia responsible gene
encoding a nuclear-cytoplasmic transporter protein, and
development of relevant new technologies

Wahala Thanthrige Risitha Deelaka Wikmal Subasinghe
Laboratory for Molecular Pathology of Psychiatric Disorders
Multifaceted analysis of XPO7, a schizophrenia responsible gene
encoding a nuclear-cytoplasmic transporter protein, and
development of relevant new technologies

渡部 靖郎
消化管恒常性研究チーム
百寿者腸内細菌による新規ステロイド代謝経路と新規ステロイド化合
物の解明

Yasuo Watanabe
Laboratory for Gut Homeostasis
Discovery of novel steroid biosynthetic pathways and metabolites
by the microbiome of centenarians

魏 雁
先端光学素子開発チーム
シングルナノ形状精度の高精度光学素子実現のための超精密加工
手法の研究開発

Yan Wei
Ultrahigh Precision Optics Technology Team
Research and Ddevelopment of Ultra-Precision Machining
Mechods for Achieving High Precision Optical Components with
Single Nanometer Shape Accuracy

Zhenjie Wei
ゲノム解析応用研究チーム
Identification of shared genetic loci and architecture between
human complex traits, as well as exploration of cellular and
molecular alterations in PBMC for Systemic Sclerosis by CITE-seq.

Zhenjie Wei
Laboratory for Statistical and Translational Genetics
Identification of shared genetic loci and architecture between
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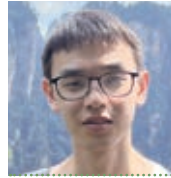
Du Wu
高性能人工知能システム研究チーム
Automated Code Generation and Optimization for Linear
Algebra Libraries

Du Wu
High Performance Artificial Intelligence Systems
Research Team
Automated Code Generation and Optimization for Linear Algebra Libraries

Weihao Xuan
空間情報学チーム
Label-Efficient Deep Learning for Large-Scale Scene
Understanding via Multi-modal Visual Data

Weihao Xuan
Geoinformatics Team
Label-Efficient Deep Learning for Large-Scale Scene
Understanding via Multi-modal Visual Data

箭内 彩里
齋藤高エネルギー原子核研究室
9ΛBとpΛ相関研究における陽子過剰核物質内での核子-Λ相互作用
の解明

Ayari Yanai
High Energy Nuclear Physics Laboratory
Nucleon-Λ interactions in proton-rich nuclear matter in 9ΛB and
pΛ correlation studies

吉田 幸平
高性能ビッグデータ研究チーム
ポスト富岳に向けたメモリ律速アプリケーションの高速化及び電力ば
らつきを考慮した省電力化に関する研究
Kohei Yoshida
High Performance Big Data Research Team
Research on speeding up memory bounded applications and power
saving considering power-efficiency variations for the post Fugaku

吉原 めぐみ
脳型知能理論研究ユニット
イメージトレーニングにおける神経基盤の自由エネルギー原理に基づ
くモデル化による解明
Megumi Yoshihara
Brain Intelligence Theory Unit
Elucidating the neural basis of mental training by modeling based
on the free energy principle

吉澤 竜哉
制御分子設計研究チーム
実践的な医薬品設計のための分子生成AIの開発
Tatsuya Yoshizawa
Laboratory for Structure-Based Molecular Design
Development of Molecule Generative AI for Practical Drug Design

吉住 僚太朗
創薬シード化合物探索基盤ユニット
分裂酵母の揮発性コミュニケーション分子の特定と作用機構解析
Ryotaro Yoshizumi
Seed Compounds Exploratory Unit for Drug Discovery
Platform
Identification of the volatile communication molecule in the fission
yeast and analysis of their mechanisms of action

Lingzhi Zhang
量子物性理論研究チーム
Simulation and analytical calculation of Majorana fermions
in heterostructure
Lingzhi Zhang
Quantum Matter Theory Research Team
Simulation and analytical calculation of Majorana fermions in
heterostructure

Chen Zhuang
高性能人工知能システム研究チーム
General and Scalable Framework for Graph Neural Network
Training on Supercomputers
Chen Zhuang
High Performance Artificial Intelligence Systems Research Team
General and Scalable Framework for Graph Neural Network
Training on Supercomputers

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

Ranojit Barman
核子多体論研究室
微視的核模型を用いた不安定核反応の研究
Ranojit Barman
Nuclear Many-body Theory Laboratory
Study of reaction of unstable nuclei using microscopic nuclear
models

Chun-Yen Chen
フォトン操作機能研究チーム
熱による構造制御3次元メタマテリアルを用いた中赤外光の偏光変換
デバイス
Chun-Yen Chen
Innovative Photon Manipulation Research Team
Thermally controlled spatially reconfigurable MIR 3D Metamaterial
from Linear to circular polarization conversion

Dianhong Dong
超高速コヒーレント軟X線光学研究チーム
中赤外・2色円偏光ボルテックスと偏光励起レーザー、及び軟X線域に
おけるボルテックス高調波の発生
Dianhong Dong
Ultrafast Coherent Soft X-ray Photonics Research Team
Mid-infrared bicircular vortex and polarized driven lasers and
generation of vortex high harmonic beams in soft X-ray waveband

Ade Rizqi Ridwan Firdaus
バイオ生産情報研究チーム
機械学習と分子動力学計算によるルビスコタンパク質機能改変の構造
生物学的研究
Ade Rizqi Ridwan Firdaus
Bioproductivity Informatics Research Team
Exploring Structural Modification of Rubisco through Machine
Learning and Molecular Dynamics

Guanchen He
先進機能触媒研究グループ
希土類触媒による機能性自己修復ポリオレフィンの精密合成
Guanchen He
Advanced Catalysis Research Group
Precise synthesis of functionalized self-healing polyolefins through
rare-earth organometallic catalyst

Phanthip Jaikaew
核構造研究部
次世代μSR分光器のための新しい陽電子検出器の開発
Phanthip Jaikaew
Nuclear Structure Research Group
Design of a new positron counter for a next-generation μSR
spectrometer

Tenghui Li
テンソル学習チーム
ボルテラコンボリューションの視点から深層神経回路網の理論的研究
Tenghui Li
Tensor Learning Team
Theoretically research for deep neural networks from Volterra
convolution perspective

写真
Photo

氏名
受入研究室
研究課題

Name
Host Laboratory
Research Topic

William James Marshall
RI物理研究部
アレイによる中性子過剰カルシウム同位体の分光と新規材料を用いた
シンチレーター アレイの開発とテスト

William James Marshall
Radioactive Isotope Physics Group
The Spectroscopy of Neutron Rich Ca Isotopes With the HiCARI
Array and The Development and Testing Of a Scintillator Array
Made From Novel Materials HiCARI

Vicki Nishinarizki
バイオ生産情報研究チーム
大量生産の効率化のための微細藻類ルビスコタンパク質のゲノム編集
技術の開発

Vicki Nishinarizki
Bioproductivity Informatics Research Team
Genome Editing of Rubisco Microalgae for Improving Mass
Production

Rahul Parit
動的恒常性研究チーム
ショウジョウバエ腸におけるエレボーシスの分子機構の解明

Rahul Parit
Laboratory for Homeodynamics
Investigating the genetic and molecular mechanism of erebosis in
the Drosophila gut system

Dinh Quoc Pham
遺伝工学基盤技術室
体細胞核移植技術を用いて作出されたヒトエリスロポイエチン遺伝子
トランスジェニッククローンマウスの樹立と特性解析

Dinh Quoc Pham
Bioresource Engineering Division
Establishment And Characterization Of Transgenic Cloned Mouse
Harboring Human Erythropoietin Gene Produced By Applying
CRISPR/Cas9 And Somatic Cell Nuclear Transfer
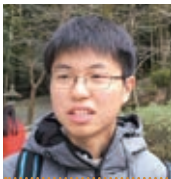
Zhizhen Qin
免疫転写制御研究チーム
胸腺細胞選択機構での非受容体型チロシンキナーゼファミリーの
機能解明

Zhizhen Qin
Laboratory for Transcriptional Regulation
Understanding of function of non-receptor tyrosine kinase family
proteins during thymocyte selection

Yichun Qiu
テンソル学習チーム
ランダム化テンソル法とその信頼性機械学習への応用

Yichun Qiu
Tensor Learning Team
Randomized Tensor Methods and Their Application in Trustworthy
Machine Learning

Artem Ryzhov
量子情報物理理論研究チーム
非断熱量子論理ゲートに関する研究

Artem Ryzhov
Quantum Information Physics Theory Research Team
Nonadiabatic quantum logic gates

Jayakumar Sekar
機能有機合成化学研究チーム
選択的有機合成のための新触媒の開発

Jayakumar Sekar
Advanced Organic Synthesis Research Team
Development of New Catalysts for Selective Organic Synthesis

Bosko Vrbica
グリーンナノ触媒研究チーム
持続可能な有機合成化学のためのナノ構造金属酸化物に基づく高耐
久性触媒

Bosko Vrbica
Green Nanocatalysis Research Team
Highly robust catalysts based on nanostructured metal oxides for
sustainable organic syntheses

Hailin Wang
テンソル学習チーム
低ランクテンソル復元に基づく逆説的ノイズ除去アルゴリズム

Hailin Wang
Tensor Learning Team
Low-rank tensor Recovery based Adversarial Noise Purification
Algorithm

Wanqi Zhou
テンソル学習チーム
機械学習アルゴリズムの頑健性を向上させるためのテンソル学習

Wanqi Zhou
Tensor Learning Team
Tensor Learning for Improving Robustness of Machine Learning
Algorithms

2023年度理研サマースクール　FY2023 RIKEN Summer School

2023年度の理研サマースクールは、2023年9月6日〜7日に埼玉県和光市（理化学研究所）でJRA・IPA・RSR等、計103人が参加し開催されました。若手研究者育成制度を担当する仲真紀子理事や加藤礼三研究政策審議役をはじめ、CEMS・石田康博チームリーダー、IMS・岩崎由香チームリーダー、CPR・藤原輝史理研白眉チームリーダー、CPR・濱崎立資理研白眉チームリーダーに参加いただき、お話を伺う機会を得ました。また、（株）イー・グローブの島村東世子先生より、効果的な英語研究プレゼン方法について講演いただきました。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。

FY2023 RIKEN Summer School was held on September 6 to 7, 2023 at RIKEN, Wako, Saitama. 103 JRA, IPA and RSR students participated in this event and enjoyed talks by Drs. Yasuhiro Ishida, Yuka Iwasaki, Terufumi Fujiwara and Ryusuke Hamazaki. Dr. Toyoko Shimamura (Eglobe K.K.) gave an informative lecture on how to conduct an effective academic presentation in English. The participants also enjoyed introducing themselves in the Icebreaker session and presenting their research during the poster sessions. Executive Director Dr. Makiko Naka and Research Strategy Advisor Dr. Reizo Kato, both in charge of RIKEN's Junior Scientist Programs, 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 summer 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）タオさん、渡邉大介さん、シヴァクシさん、黄さん、シャオさん、高木さん、伊藤さん
（前段 左から）渡邉奈穂美さん、内藤さん、藤田さん、チャンさん、竹田さん、エラフィフィさん
Poster prize winners: (Back row from the left) Mr. Tao, Mr. Watanabe, Ms. Shivakshi, Mr. Ko, Ms. Shao, Mr. Takagi, Mr. Ito
(Front row from left) Ms. Watanabe, Ms. Naito, Ms. Fujita, Ms. Chang, Mr. Takeda, Mr. Elafify

ポスター賞受賞者

生物科学賞

渡邉 奈穂美
研修生 細胞材料開発室

藤田 有香
理研スチューデント・リサーチャー 栄養応答研究チーム

内藤 早紀
大学院生リサーチ・アソシエイト 動的恒常性研究チーム

渡邉 大介
大学院生リサーチ・アソシエイト 細胞シグナル動態研究チーム

化学賞

シャオ ジンジン
国際プログラム・アソシエイト 先進機能触媒研究グループ

工学賞

モハンマド サイード ラマダン エラフィフィ
国際プログラム・アソシエイト 伊藤ナノ医工学研究室

伊藤 凌太
大学院生リサーチ・アソシエイト テラヘルツイメージング研究チーム

数理科学賞

竹田 航太
大学院生リサーチ・アソシエイト データ同化研究チーム

タオ ゼルイ
大学院生リサーチ・アソシエイト テンソル学習チーム

医科学賞

ジングジー チャン
国際プログラム・アソシエイト 免疫転写制御研究チーム

スレク シヴァクシ
研修生 動的恒常性研究チーム

物理賞

黄 天鋭
大学院生リサーチ・アソシエイト 長瀧天体ビッグバン研究室

高木 翼
大学院生リサーチ・アソシエイト 創発光物性研究チーム

Poster prize winners

Biology Prize

Naomi Watanabe
Student Trainee
Cell Engineering Division

Yuka Fujita
RIKEN Student Researcher
Laboratory for Nutritional biology

Saki Naito
Junior Research Associate
Laboratory for Homeodynamics

Daisuke Watanabe
Junior Research Associate
Laboratory for Cell Signaling Dynamics

Chemistry Prize

Jingjing Shao
International Program Associate
Advanced Catalysis Research Group

Engineering Prize

Mohamed Said Ramadan Elafify
International Program Associate
Nano Medical Engineering Laboratory

Ryota Ito
Junior Research Associate
Terahertz Sensing and Imaging Research Team

Mathematical Sciences Prize

Kota Takeda
Junior Research Associate
Computational Climate Science Research Team

Zerui Tao
Junior Research Associate
Tensor Learning Team

Medical Science Prize

Jingjie Chang
International Program Associate
Laboratory for Transcriptional Regulation

Shivakshi Sulekh
International Program Associate
Laboratory for Homeodynamics

Physics Prize

Takatoshi Ko
Junior Research Associate
Astrophysical Big Bang Laboratory

Tsubasa Takagi
Junior Research Associate
Emergent Photodynamics Research Team

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 News34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、理研での研究生活はいかがでしょうか。もしお困りの事がありましたら、いつでも人事部研究人事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。

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.34. 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