古手研NEUS²⁰²⁰ No.30 Young Researcher News

Where there is a will, ^{p.2} there is a way

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Chao-hui Feng RIKEN Center for Advanced Photonics, Terahertz Sensing and Imaging Research Team Special Postdoctoral Researcher

Embrace the chance to <u>p.5</u> make life changing decisions

Qi Fang 開拓研究本部 眞貝細胞記憶研究室 国際プログラム・アソシエイト

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ボーダーレスな研究者に

Becoming a borderless researcher

佐々木 亮 開拓研究本部 玉川高エネルギー宇宙物理研究室 大学院生リサーチ・アソシエイト

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

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

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continuously encourages me, and we believe that we can overcome the problems we face and finally obtain a fruitful outcome. As the saying goes "where there is a will, there is a way".

I feel very lucky to have joined Professor Otani's research group, where I am able to conduct research freely. In this environment, I've had the opportunity to read the literature I am interested in, to participate in conferences and broaden my research network. Owing to the great support from my supervisor, I obtained Global Peer Review Awards: Top Peer Reviewers for placing in the top 1% of reviewers in Agricultural Sciences on the Publons global reviewer database, determined by the number of peer review reports performed during the 2018-2019 award year. Within the 8-month joining in RIKEN, 2 SCI papers have been accepted for publication in peer-reviewed international journals with the high impact factors, 1 poster published and 1 oral presentation presented in "the All-Riken Workshop 2019" and there is another one SCI paper under review. I also receive a Letter of Appreciation from President Matsumoto for my



Figure1: Pictures taken during the awarding ceremony.



Figure2: Pictures taken during the Open Day for public.

research achievements and contribution to increased public recognition of RIKEN and its scientific activities.

Apart from research work, we also held the meaningful and interesting Open Day to introduce the public to our research work. At this event, we could showcase our research to the public and give them a better understanding of our research work via participation in our demonstration. The most important thing was to stimulate the children's interests in science via this "playing". They were eager to understand the principles of the experiments. Figure 2 (b) shows the floating movement of the frozen superconductor coaster under the magnet rail, which was the most popular course tried by both kids and adults. I enjoyed teaching the little kids and explaining the procedures and principles of the trial. I felt satisfied when the children "tasted" the fascination of science and explored the possibility of contributing to society by becoming scientists when they grow up. This reminded me of the dreams I had when I was child. During my childhood, I always watched films about the story of Marie Sklodowska Curie or Thomas Edison. I was deeply moved by their strong will and enthusiasm for science, which greatly encouraged me to pursue the truth of science and to discover or exploit new things from science. I dreamed that I could become an excellent researcher like them and dedicate myself to science and benefit society.

RIKEN has implemented very good rules that promote work-life balance, which enable researchers to enjoy both research and daily life. Life in Sendai is incredibly interesting for me, and this can be attributed to the care and support I receive from the members and secretaries in our team, which makes me feel like



Figure3: Introduction of Fujino Sensei.



Figure4: Life in Sendai. A statue of Lu Xun (a), and a fireworks performance during summer vacation (b).

part of a family. Sendai is well known to all Chinese people due to "Lu Xun (魯迅)", who is the greatest figure of modern Chinese literature. I have learned a lot from his works like "Kong Yiji", "Medicine", "The True Story of Ah Q", "Diary of a Madman", "The collapse of Leifeng Pagoda", "Mr. Fujino" and so on. Among them, the most impressive work for me is "Mr. Fujino", which was written by him when he was a medical student at the Sendai Medical Academy (now at Tohoku University). When I read this text, I was curious about a professor described in the text called "Professor Fujino Genkuro", and I never imaged that I would work at Sendai one day. Figure 3 displays the section taken from the text of "Mr. Fujino", which is now shown in the museum of Tohoku University. I can also feel how "Lu Xun (魯迅)" is respected by Japanese people, as I find his statue everywhere in Sendai [Fig. 4 (a)].

Life in Sendai is colourful, and I have learned a lot of interesting things about culture. People here enjoy a peaceful and happy life.

Finally, I would like to express my sincere gratitude to my respected supervisor, Professor Otani, for giving me the opportunity to pursue and continue my research work and for his unwavering encouragement throughout the entire duration of my work. I also wish to express my appreciation to all my colleagues at RIKEN Centre for Advanced Photonics for their generous assistance.

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Embrace the chance to make life changing decisions

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When I first knew that I would be given a chance to write a short essay for the researcher news, I had a question in my mind. Who am I writing this to? It is difficult for me, as a student, to write an in-depth academic or philosophical article, so I decided to share something about daily life, something about my experience at RIKEN, as well as in Japan so far.

But before that, I think I should at least introduce myself. I have a mixed educational background. I grew up and finished my high school in mainland China, with my major being history and literature. My future was well paved, arranged by my traditional Chinese family like many families did for their kids at that time. If things had remained on track, I would have spent the next 20-30 years sitting in an office in China living a relatively predictable life. To avoid this, I dropped out of university shortly after entering, and I moved to Canada. This made my father furious with me until only very recently. Since then, I have planned to do something different, something that might keep me in the mist. My English was terrible back then (even now I am struggling), so I asked my adviser "which major do you recommend if I want to quickly improve my English?". Her suggestion was straight forward: "You should step away from your original community to gain more exposure to your new language". Thanks to that advice, I made one of the most important decisions in my life - changing my major from history to biology. I failed almost every course in my first year, and at that time, I had no clue about how far this decision would take me. But to be frank, I love making life changing decisions, and I am not afraid to do it. So again,



instead of transferring to a Ph.D program in Canada, I decided to move to Japan. I do not know where this decision will lead me, but for me, making life changing decisions is like a bad habit that I cannot resist.

Having a wild thought is somehow necessary, as a scientist. So, as a not-so-qualified scientist, I like asking evolutionary questions, just as much as I like to witness how decisions can change my life. Our world is vast. I want to know how different species make evolutionary decisions that potentially cause phylogenetic splits. Of course, I am not asking those species like "hey, why are you different from your cousins?". Instead, I am looking for certain conserved functions that are shared between these species. I am now working on an enzyme that exists in both mitochondria and bacteria. In bacteria, this enzyme is crucial for their survival, whereas in mammals, it is redundant. I don't want to delve into this topic here, but considering evolutionary patterns, I believe there must be some reasons why we have retained this enzyme even though there is limited demand for it.



Mammalian ortholog superimposed on its bacterial ancestor – The main function of these two proteins is conserved. Additional functions of mammalian enzyme may be accounted for by the speciation events that occurred during the evolutionary process.

To be honest, I don't think I would have such freedom to choose my research topic if I was not at RIKEN. My supervisor is very supportive and the team here is very friendly. I also like the RIKEN campus as a whole. When I was doing my masters in Canada, one of my colleagues was Japanese and he told me a bit about RIKEN. Even so, when I first arrived here, everything seemed so small. But although things are small here, they are nicely arranged and in order. Unlike the vast campus in Canada where there is an abundance of land, RIKEN is compact and functional. I have been working at many places, but RIKEN's Wako Campus really makes everything so accessible.

I had heard a lot about Japan's hard-working traditions before I came here. To be frank, I think work and life here at RIKEN is guite well balanced; and I believe Japan has more national holidays than Canada. Aside from just doing research on your own, one thing I really appreciate is that RIKEN offers great opportunities for both students and researchers to get involved in many different fields. Recently, academia has moved into a more multi- or interdisciplinary era, and opportunities to get exposure to cutting-edge research in other fields is very important to promote cross-field collaborations. Although I just started the second year of my Ph.D. at RIKEN, I am currently collaborating with two labs as a result of listening to their talks. People here are highly specialized and it is very easy to establish productive collaborations if you know what others are interested in. I value this as a very efficient way to move our research forward. I am also shocked by the number of academic meetings that I have attended

so far. I think this is another great aspect of the research environment here for both students and young researchers. I strongly recommend others to attend seminars in different fields as enables you to expand your toolbox quickly and effortlessly.

But there is something I would like to point out. These days, I have been hearing a lot of claims about how Japan's scientific output is declining. I am not 100% sure if this is the case. However, there is one thing I am quite sure of: many of the interesting findings are not being properly propagated. The fact is, RIKEN, as an open, top-tired institute of Japan, still holds a significant number of talks and seminars that are only available in Japanese and not accessible to those outside of RIKEN. What is the situation at other research institutes in Japan?

As I mentioned above, RIKEN affords me some leisure time. So, what do I do during my leisure time? I enjoy travelling here in Japan, using the very convenient railway system. I have been to a couple of mountains, and the hiking experiences here are extremely good. I hope to have the chance to explore more when my project is on the right track. And, if I have more time, I also want to learn Japanese, as I believe a new language is an extremely valuable asset.

I planned to write only 1000 words, but I think I am way over that now. But I would like to say this again, as it is probably something that I will carry through my entire life: Embrace every chance to make life changing decisions. I am not talking about taking reckless risks, but we need to create change, and as scientists, we are working to



Kita-dake - Hiking with many other sensei after the Takato Symposium (I really can't believe I made it!)

make a difference. I very much love to see differences, to try new things. Good science comes with good questions. And good questions are sometimes from your imagination. I am looking forward to seeing how my experience here can further broaden my imagination.



1) Ginkgo at RIKEN (Wako) – Occasionally, I submit some campus shots to the RIKEN internal website (This one is the Nov. 20 post).



2) 紅葉 at Karuizawa – Japan has four distinct seasons each year. RIKEN Foundation Day presents a good opportunity to travel if you want to avoid crowds.

ボーダーレスな研究者に Becoming a borderless researcher

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essay

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私はJRA初年度に、アメリカのメリーランド州にあ るNASAゴダード宇宙センターに半年間滞在して研 究してきました。滞在の目的は日本とアメリカの天文 観測機の連携で得られたデータの解析と、その連携 の強化でした。研究内容を一言で言えば「X線で宇宙 を見る」ことです。一般的にはなんとも馴染みの無 い分野ですが、X線で見る宇宙は数千万度にも達す る熱くエネルギーに満ちた世界が広がっています。そ の中でも、私の研究対象である恒星の表面でおこる フレアなど、突発的な変動を見せる現象があります。 しかし、これらは予期できない突発現象のため発見



During my first year as a JRA, I spent half a year researching at NASA's Goddard Space Flight Center in Maryland, United States. The goals of my stay were to analyze data obtained through collaborations involving American and Japanese astronomical observation equipment and to strengthen those collaborations. My research there can be summed up as *viewing the universe through X-rays.* It's not the type of research the average person has any familiarity with, but viewing the universe through X-rays reveals a widening world full of heat and energy generated from millions upon millions of sources. Among them, my research focused on phenomena that exhibit sudden changes, like the flares that occur on the surfaces of stars. However, because



図1: ワシントンD.C.のシンボルのワシントンモニュメント。付近には美術館や 大きい公園があります。おすすめは国立航空宇宙博物館(National Air and Space Museum)。

Figure1: The Washington Monument, a symbol of Washington, D.C., with a large park and museums nearby. I recommend visiting the National Air and Space Museum.

も難しく、その詳細な観測は運頼みになってしまい ます。そこで、それら突発現象を狙い撃ちするため に、正反対の特性を持つ2つのX線観測機を組み合 わせた観測が日本とアメリカの連携で始まりました。

連携観測に使う2つの検出器は、日本の全天X線 監視装置MAXIとアメリカのX線観測機NICERで す。MAXIは宇宙全体を「広く浅く」監視することで 新たな天体や爆発現象を見つけられる特徴を持ち、 NICERは過去最高感度の検出器で「狭く深く」天体 を観測して詳細な情報を得られるのが特徴です。私 はこの連携にMAXIの運用チーム側から参加してき ました。地上経由の連携によって突発現象の観測が これまでにいくつも実施されました。今後は国際宇 宙ステーション上でMAXIとNICERを直接繋げて、 これまでにないスピードでの連携観測を開始する予



図2: 住んでいたマンションの屋上。ワシントンD.C.を一望できます。友人を招 待してここでお酒を飲むこともしばしば。 Figure2: The roof of my apartment building, which featured a sweeping

view of Washington, D.C. I frequently invited my friends over to drink here.

these sudden phenomena are hard to predict, discovering them is difficult, and obtaining detailed observations of them is currently a matter of luck. There, a collaborated observation using two X-ray detectors, which have utterly opposite characteristics, between Japan and U.S. was started to shoot such a transient.

The two X-ray detectors used in the joint observations, both on board the International Space Station, are MAXI (Monitor of All-sky X-ray Image), a Japanese X-ray monitor that surveys the entire sky, and NICER (Neutron star Interior Composition Explorer), an American X-ray detector. By monitoring the entire sky broadly and shallowly, MAXI can find new astronomical objects and explosive phenomena, whereas NICER's strength is the ability to observe specific astronomical objects narrowly and deeply to obtain detailed information through its sensors, which have higher sensitivity than those of previously developed instruments. Within this collaboration, I participated on the MAXI operation team. Many collaborated observation for transients have been carried out via ground operations. In the future, the teams plan to directly connect MAXI and NICER on the International Space Station so they can begin making joint observations at speeds previously unheard of. I have great expectations that this will significantly deepen our understanding of the sudden phenomena we research.

定で、ますます突発現象の理解が深まることが期待 されています。

研究以外のアメリカでの生活を振り返ると、出会 いに恵まれていたなと感じます。私は研究所へのアク セスが良い首都ワシントンD.C.に家を借りたのです が、なんと昔マッカーサーが暮らしていたと言われる マンションでした!ワシントンD.C.は世界中から人が 集まっていて、外国で暮らすお互いの苦労を知ってい るからか、みんな優しいです。また、様々な国の、 様々な職種に人と出会う機会も多い街でした。彼ら に宇宙物理の研究をしていると言うと、宇宙について の質問が止まらないことも。世界中の人が興味を持っ てくれる仕事をしていることが嬉しくなった一方で、 日本ではそういったことはあまりなく、そのギャップ にも驚かされました。そこで今では、日本でも宇宙へ の興味をもっと持ってもらえるように、更には世界中 の人の宇宙への興味に答えられるような発信をしてい きたいと思っています。

12月末からは「政府閉鎖」といういかにもアメリ カンなイベントにも巻き込まれました。政府閉鎖と は、予算の議決が国会で通らないので給料も施設維 持費も払えません、政府機関を閉鎖します、といっ た感じです。NASAももれなく国の研究機関なので お休み。大体1週間くらいで終わるよと言われていた のに、歴史上最長記録なんてものを更新され、終 わったのは1ヶ月後の留学終了2日前です。チームメ ンバーや友人に挨拶できたのが不幸中の幸いでした。

半年間という短い間でしたが、この滞在は研究へ の姿勢や、今後の進路を考えるいいキッカケになり ました。今後は世界中の人に宇宙への興味を持っても らえるように、更に挑戦していきたいと思ってい ます。

When I think about my life in the U.S. outside of research, I feel fortunate that I was able to meet and connect with many people. I rented an apartment in a building in Washington, D.C. with good access to the space center that General MacArthur is said to have once lived in! People from all over the world gather in Washington, D.C., and-maybe because they too understand the difficulties of living in a foreign country-everyone was kind to me. D.C. also offered me so many opportunities to encounter people from all sorts of countries and jobs. Sometimes, when I told them I research astrophysics, questions about space just wouldn't stop. While part of me was thrilled that I was doing work that people from all over the world were interested in, another part of me was shocked at the gap between those reactions and the kind I get in Japan, where people rarely take such an interest. Now, I'd like to share what I'm researching so that I can inspire the interest of people here in Japan and further respond to the interest that people around the globe have in space.

At the end of December 2018, I got caught up in a distinctly American event, a government shutdown. A national government shutdown happens when Congress doesn't pass budget legislation, so government organizations close for as long as the shutdown lasts because they can't pay salaries or facility maintenance costs. Because NASA is a national research organization, the entire agency had to shut down, too. Even though I was told the shutdown would end in about a week, it not only turned out to be longer than expected, but it also broke the record for the longest shutdown in history! It finally ended only two days before I had to leave the U.S. Being able to say goodbye to my team members and friends was the silver lining of the dark cloud of my final month there.

Even though I was only there for six short months, my stay gave me a great chance to rethink my attitude toward my research and my future path. Going forward, I'd like to challenge myself further and get people all around the world interested in space.

主な受賞

基礎科学特別研究員

受賞者氏名	所属研究室	賞の名称	授与団体等	受賞日
Kadir Utku Can	仁科加速器科学研究センター ストレンジネス核物理研究室	Asian Nuclear Physics Association & AAPPS-DNP Award for Young Scientist, Second Prize	-	2019/09/28
江﨑 加代子	脳神経科学研究センター 分子精神遺伝研究チーム	第14回日本統合失調症学会一般演題奨励賞	日本統合失調症学会	2019/04/20
Chaohui Feng	光量子工学研究センター テラヘルツイメージング研究チーム	Top Peer Reviewer 2019	Web of Science Group	2019/09/17
Sooyeon Kim	生命機能科学研究センター 細胞システム制御学研究ユニット	第41回日本光医学·光生物学会 奨励賞	The Japanese Society for Photomedicine and Photobiology	2019/08/30
Cody Kime	生命機能科学研究センター 網膜再生医療研究開発プロジェクト	ISSCR 2019 Travel Awards	International Society For Stem Cell Research	2019/06
Cody Kime	生命機能科学研究センター 網膜再生医療研究開発プロジェクト	ISSCR 2019 Merit Awards	International Society For Stem Cell Research	2019/06
河野 信吾	創発物性科学研究センター 超伝導量子エレクトロニクス 研究チーム	第39回 量子情報技術研究会学生発表賞	電子情報通信学会エレクトロニクスソサエティ 量子情報技術特別研究専門委員会	2019/04/05
小澤 大知	光量子工学研究センター 量子オプトエレクトロニクス 研究チーム	第16回飯島奨励賞	フラーレン・ナノチューブ・グラフェン学会	2019/10/29
紅林 大地	創発物性科学研究センター 強相関理論研究グループ	2nd Prize Winner in the poster EXHIBIT AND COMPETITION	International Workshop Spintronic 2019	2019/10/20-25
Xiaoxi Liu	生命医科学研究センター ゲノム免疫生物学理研白眉 研究チーム	Abstract Award	11thInternational Conference onHuman Herpesviruses 6 and 7	2019/06/26
松尾 貞茂	創発物性科学研究センター 量子機能システム研究グループ	船并研究奨励賞	公益財団法人船并情報科学振興財団	2019/04
松尾 貞茂	創発物性科学研究センター 量子機能システム研究グループ	NF基金研究開発奨励賞	一般財団法人エヌエフ基金	2019/11
中野 恭兵	創発物性科学研究センター 創発機能高分子研究チーム	講演奨励賞	応用物理学会	2019/09/18
鬼丸 洸	生命機能科学研究センター バイオインフォマティクス 研究開発チーム	ポスター賞	日本バイオインフォマティクス学会2019年年会 第8回生命医薬情報学連合大会	2019/09/11
佐野 航季	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	第8回ものづくり日本大賞 内閣総理大臣賞	経済産業省	2020/01/08
清家 泰介	生命機能科学研究センター 多階層生命動態研究チーム	第13回日本ゲノム微生物学会年間優秀ポスター賞	Society of Genome Microbiology, Japan	2019/03/08
Daniela Serien	光量子工学研究センター 先端レーザー加工研究チーム	3D Printing, Fabrication, and Manufacturing Best Paper Award	SPIE Photonics West 2019	2019/02/04
Daniela Serien	光量子工学研究センター 先端レーザー加工研究チーム	Opto-Electronic Advances 2018-2019 Best Paper Award	Institute of Optics and Electronics (IOE), Chinese Academy of Sciences (CAS)	2019/07/15
鈴木 大地	創発物性科学研究センター 量子効果デバイス研究チーム	手島精一記念研究賞 (博士論文賞)	国立大学法人東京工業大学	2019/02/21
田村康一	計算科学研究センター 粒子系生物物理研究チーム	若手奨励賞	日本蛋白質科学会	2019/06/25
田村 康一	計算科学研究センター 粒子系生物物理研究チーム	HPCI 利用研究課題優秀成果賞	一般財団法人高度情報科学技術研究機構	2019/11/01
田村康一	計算科学研究センター 粒子系生物物理研究チーム	Poster Award	The 5th International Conference on Molecular Simulation (ICMS2019)	2019/11/05
谷本 悠生	脳神経科学研究センター 意思決定回路動態研究チーム	若手優秀発表賞(一般枠)	次世代脳ブロジェクト 冬のシンポジウム	2019/12/19

Award List

Special Postdoctoral Researcher (SPDR)

Aurendee		, blown of Aurord		Date of
Kadir Utku Can	RIKEN Nishina Center for Accelerator-Based Science, Strangeness Nuclear Physics Laboratory	Asian Nuclear Physics Association & AAPPS-DNP Award for Young Scientist, Second Prize		award 2019/09/28
Kayoko Esaki	RIKEN Center for Brain Science, Laboratory for Molecular Psychiatry	The 14th Annual Meeting of Japanese Society of Schizophrenia Research, GeneralPresentation Award Encouragement Award	Japanese Society of Schizophrenia Research	2019/04/20
Chaohui Feng	RIKEN Center for Advanced Photonics Terahertz Sensing and Imaging Research Team	Top Peer Reviewer 2019	Web of Science Group	2019/09/17
Sooyeon Kim	RIKEN Center for Biosystems Dynamics Research, Laboratory for Cell Systems Dynamics	-	The Japanese Society for Photomedicine and Photobiology	2019/08/30
Cody Kime	RIKEN Center for BiosystemsDynamics Research,Laboratory for Retinal Regeneration	ISSCR 2019 Travel Awards	International Society For Stem Cell Research	2019/06
Cody Kime	RIKEN Center for Biosystems Dynamics Research, Laboratory for Retinal Regeneration	ISSCR 2019 Merit Awards	International Society For Stem Cell Research	2019/06
Shingo Kono	RIKEN Center for Emergent Matter Science Superconducting Quantum Electronics Research Team	Student Presentation Award at The 39th Quantum Information Technology Symposium	IEICE Electronics Society	2019/04/05
Daichi Kozawa	RIKEN Center for Advanced Photonics, Quantum Optoelectronics Research Team	The 16th lijima Award for Young Scientists	The Fullerenes, Nanotubes and Graphene Research Society	2019/10/29
Daichi Kurebayashi	RIKEN Center for Emergent Matter Science, Strong Correlation Theory Research Group	2nd Prize Winner in the poster EXHIBIT AND COMPETITION	International Workshop Spintronic 2019	2019/10/20-25
Xiaoxi Liu	RIKEN Center for Integrative Medical Sciences, Genome Immunobiology RIKEN Hakubi Research Team	Abstract Award	11thInternational Conference onHuman Herpesviruses 6 and 7	2019/06/26
Sadashige Matsuo	RIKEN Center for Emergent Matter Science, Quantum Functional System Research Group	-	The Funai Foundation for Information Technology (FFIT)	2019/04
Sadashige Matsuo	RIKEN Center for Emergent Matter Science, Quantum Functional System Research Group	NF Foundation R&D EncouragementAward	NF Foundation	2019/11
Kyohei Nakano	RIKEN Center for Emergent Matter Science, Emergent Functional Polymers Research Team	-	The Japan Society of Applied Physics	2019/09/18
Koh Onimaru	RIKEN Center for Biosystems Dynamics Research, Laboratory for Bioinformatics Research	Poster Award	Japanese Society for Bioinformatics	2019/09/11
Koki Sano	RIKEN Center for Emergent Matter Science, Emergent Bioinspired Soft Matter Research Team	The 8th Monodzukuri Nippon Grand Award Prime Minister's Prize	Ministry of Ecoromy,Trade and Industry	2020/01/08
Taisuke Seike	RIKEN Center for Biosystems Dynamics Research, Laboratory for Multiscale Biosystem Dynamics	13th Society of Genome Microbiology, Japan Excellent Poster Award	Society of Genome Microbiology, Japan	2019/03/08
Daniela Serien	RIKEN Center for Advanced Photonics Advanced Laser Processing Research Team	3D Printing, Fabrication, and Manufacturing Best Paper Award	SPIE Photonics West 2019	2019/02/04
Daniela Serien	RIKEN Center for Advanced Photonics Advanced Laser Processing Research Team	Opto-Electronic Advances 2018-2019 Best Paper Award	Institute of Optics and Electronics (IOE), Chinese Academy of Sciences (CAS)	2019/07/15
Daichi Suzuki	RIKEN Center for Emergent Matter Science Quantum Effect Device Research Team	Seiichi Tejima Research Award	Tokyo Institute of Technology	2019/02/21
Koichi Tamura	RIKEN Center for Computational Science, Computational Biophysics Research Team	Young Scientist Award	Protein Science Society of Japan	2019/06/25
Koichi Tamura	RIKEN Center for Computational Science, Computational Biophysics Research Team	HPCI Excellent Achievement Award	Research Organiation for Information Science and Technology (RIST)	2019/11/01
Koichi Tamura	RIKEN Center for Computational Science, Computational Biophysics Research Team	Poster Award	The 5th International Conference on Molecular Simulation (ICMS2019)	2019/11/05
Yuki Tanimoto	RIKEN Center for Brain Science, Laboratory for Neural Circuit Dynamics of Decision Making	-		2019/12/19

多羅間 充輔	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	ポスター賞	第9回ソフトマター研究会	2019/11/27
富谷 昭夫	仁科加速器科学研究センター 理研BNL研究センター 計算物理研究グループ	第14回(2019年度)素粒子メダル奨励賞	素粒子論委員会	2019/09/19

大学院生リサーチ・アソシエイト

受賞者氏名	所属研究室	賞の名称	授与団体等	受賞日
古澤 拓也	開拓研究本部 古崎物性理論研究室	ポスターブレビュー賞	トポロジカル物質科学	2019/06/12
段 昊	光量子工学研究センター 先端光学素子開発チーム	Excellent Paper Award	ISAAT2019 Organization Committee	2019/12/16
木村 悠介	開拓研究本部 岩崎RNAシステム生化学研究室	RNA 2019 Travel Award	RNA Society	2019/03/05
木村 悠介	開拓研究本部 岩崎RNAシステム生化学研究室	国際会議参加経費支援	日本RNA学会	2019/06/28
庭瀬 暁隆	仁科加速器科学研究センター 超重元素研究開発部 超重元素分析装置開発チーム	若手優秀発表賞	日本放射化学会	2019/09/26
大伴 直央	生命医科学研究センター 骨関節疾患研究チーム	Hibbs Basic Research Award	Scoliosis Research Society	2019/09/21
大伴 直央	生命医科学研究センター 骨関節疾患研究チーム	16th International Phillip Zorab Symposium Best paper award	British Scoliosis Research Foundation	2019/06/21
佐藤 香織	脳神経科学研究センター 神経老化制御研究チーム	JNS-SfN Exchange Travel Award	日本神経科学会	2019/05/03
清水 優太朗	光量子工学研究センター 生細胞超解像イメージング研究チーム	新学術領域研究 「オルガネラ・ゾーン」 平成30年度若手の会 最優秀発表賞	文科省科研費・新学術領域研究 「オルガネラ・ゾーン」平成30年度若手の会	2019/01/25
杉原 健太	仁科加速器科学研究センター 安全業務室	核データ研究会 ポスター賞	日本原子力学会核データ部会	2019/11/28
高村 理沙	脳神経科学研究センター 神経老化制御研究チーム	Junior Faculty Awards at the AD/PD 2019	Kenes International Organizers of Congresses S.A.	2019/03/28
高村 理沙	脳神経科学研究センター 神経老化制御研究チーム	国内トラベルアワード	第42回日本神経科学大会/ 第62回日本神経化学会大会	2019/07/25-28
高尾 理沙	環境資源科学研究センター ケミカルバイオロジー研究グループ	第24回 化学生物学研究会 口頭発表の部 優秀発表賞 (第三位)	化学生物学研究会	2019/11/15
田中 智之	革新知能統合研究センター 汎用基盤技術研究グループ 数理科学チーム	Student Paper Prize	East Asia Section of Society for Industrial and Applied Mathematics	2019/06/14
田中 智之	革新知能統合研究センター 汎用基盤技術研究グループ 数理科学チーム	ベストポスター発表	日本数学会	2019/10/26
山田 隼嗣	環境資源科学研究センター 環境代謝分析研究チーム	トラベルグラント賞	第8回アジア太平洋NMRシンボジウム2019	2019/07/04
好岡 大輔	生命機能科学研究センター 細胞シグナル動態研究チーム	海外論文発表奨励賞	生産技術振興協会	2019/10/10
玉素甫 艾山	生命機能科学研究センター 集積バイオデバイス研究チーム	Hot Article Award	Analytical Sciences Publication	2019/05/10

国際プログラム・アソシエイト

受賞者氏名	所属研究室	賞の名称	授与団体等	受賞日
Yu Li	前田バイオ工学研究室	高分子学会優秀ポスター賞	公益社団法人 高分子学会	2019/05/31

Mitsusuke Tarama	RIKEN Center for Biosystems Dynamics Research, Laboratory for Physical Biology	Poster Prize	The 9th Soft Matter Workshop	2019/11/27
Akio Tomiya	RIKEN Nishina Center for Accelerator-Based Science RIKEN BNL Research Center Computing Group	Particle Physics Medal: Young Scientist Award in Theoretical Particle Physics	Theoretical Particle Physics Committee	2019/09/19

Junior Research Associate (JRA)

Awardee	Laboratory	Name of Award	Sponsoring organization	Date of award
Takuya Furusawa	RIKEN Cluster for Pioneering Research, Condensed Matter Theory Laboratory	Preview Award	Topological Material Science	2019/06/12
Duan Hao	RIKEN Center for Advanced Photonics, Ultrahigh Precision Optics Technology Team	Excellent Paper Award	ISAAT2019 Organization Committee	2019/12/08
Yusuke Kimura	RIKEN Cluster for Pioneering Research, RNA Systems Biochemistry Laboratory	RNA 2019 Travel Award	RNA Society	2019/03/05
Yusuke Kimura	RIKEN Cluster for Pioneering Research, RNA Systems Biochemistry Laboratory	RNAJ Travel Awards	The RNA Society of Japan	2019/06/28
Toshitaka Niwase	RIKEN Nishina Center for Accelerator-Based Science, Superheavy Element Research Group, Superheavy Element Device Development Team	Young Scientist Presentation Awards	Japan Society of Nuclear and Radiochemical Sciences	2019/09/26
Nao Otomo	RIKEN Center for Integrative Medical Sciences, Laboratory for Bone and Joint Diseases	Hibbs Basic Research Award	Scoliosis Research Society	2019/09/21
Nao Otomo	RIKEN Center for Integrative Medical Sciences Laboratory for Bone and Joint Diseases	16th International Phillip Zorab Symposium Best paper award	British Scoliosis Research Foundation	2019/06/21
Kaori Sato	RIKEN Center for Brain Science, Laboratory for Proteolytic Neuroscience	JNS-SfN Exchange Travel Award	The Japan Neuroscience Society	2019/05/03
Yutaro Shimizu	RIKEN Center for Advanced Photonics Live Cell Super-Resolution Imaging Research Team	Best Presentation Award of Young researcher meeting of Organelle Zone	Grant-in-Aid for Scientific Research on Innovative Areas "Organelle Zone"	2019/01/25
Kenta Sugihara	RIKEN Nishina Center for Accelerator-Based Science, Safety Management Group	Symposium on Nuclear Data Poster Presentation Award	Nuclear Data Subcommittee, Atomic Energy Society of Japan	2019/11/28
Risa Takamura	RIKEN Center for Brain Science Laboratory for Proteolytic Neuroscience	Junior Faculty Awards at the AD/PD 2019	Kenes International Organizers of Congresses S.A.	2019/03/28
Risa Takamura	RIKEN Center for Brain Science, Laboratory for Proteolytic Neuroscience	Domestic Travel Award	NEURO2019	2019/07/25-28
Risa Takao	RIKEN Center for Sustainable Resource Science, Chemical Biology Research Group	-	-	2019/11/15
Tomoyuki Tanaka	RIKEN Center for Advanced Intelligence Project,Generic Technology Research Group, Mathematical Science Team	Student Paper Prize	East Asia Section of Society for Industrial and Applied Mathematics	2019/06/14
Tomoyuki Tanaka	RIKEN Center for Advanced Intelligence Project, Generic Technology Research Group, Matheamatical Science Team	Best Poster Award	The Mathematical Society of Japan	2019/10/26
Shunji Yamada	RIKEN Center for Sustainable Resource Science, Environmental Metabolic Analysis Research Team	Travel Grant Award	8th Asia-Pacific NMR Symposium 2019	2019/07/04
Daisuke Yoshioka	RIKEN Center for Biosystems Dynamics Research, Laboratory for Cell Signaling Dynamics	Encouragement Prize for Article Presentations Abroad	General Association for the Advancement of Manufacturing & Technology	2019/10/10
Aishan Yusufu	RIKEN Center for Biosystems Dynamics Research, Laboratory for Integrated Biodevice	Hot Article Award	Analytical Sciences Publication	2019/05/10

International Program Associate (IPA)

Awardee	Laboratory	Name of Award	Sponsoring organization	Date of award
Yu Li	RIKEN Cluster for Pioneering Research Bioengineering Laboratory	SPSJ SOM (SPSJ Symposium on Macromolecules) Poster Award	The Society of Polymer Science, Japan	2019/05/31



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



足立 景亮 生体非平衡物理学理研白眉研究チーム ^{多階層生体構造における相転移・相分離現象} Kvosuke Adachi

Nonequilibrium physics of living matter RIKEN Hakubi Research Team Phase transition and phase separation in multi-scale biological systems



相野 眞行 汎用基盤技術研究グループ 数理解析チーム リーマン多様体におけるラプラシアンと誤差評価 Masayuki Aino

Mathematical Analysis Team Laplacian on Riemannian manifolds and error estimates

青木 亮

浅尾 泰彦



視覚意思決定研究チーム ひらめきによる学習を支える後部頭頂皮質の計算機構と神経基盤 Ryo Aoki Laboratory for Neural Circuits and Behavior Computation and neural implementation for insight-based learning in posterior parietal contex

次用基盤技術研究グループトポロジカルデータ解析チーム 幾何学とアータ解析への総一的現点の構築、マグニチュードホモロジーの幾何学 的土台の確立、及びパーシステントホモロジーを介したデータ解析への応用の模束・ Yasuhiko Asao Topological Data Analysis Team Consultion da uniet perspetive or geometry and data analysis - Establishment of geometric foundation of magnitude homology, and investigation of applicators to data analysis va presisient homology-

 Ilya Belopolski

 強相関量子伝導研究チーム

 Quantized magnetoelectric response and other exciting frontiers in topological magnetism

 Ilya Belopolski

Strong Correlation Quantum Transport Research Team Quantized magnetoelectric response and other exciting frontiers in topological magnetism



Marco Capuccini フラッグシップ2020プロジェクト システムソフトウェア開発チーム System-Level Intelligent Agents using Deep Reinforcement Learning

Marco Capuccini System Software Research Team System-Level Intelligent Agents using Deep Reinforcement Learning



Hector Climente Gonzalez 汎用基盤技術研究グループ 高次元統計モデリングユニット Multi-omics data integration for epistasis detection Héctor Climente Gonzalez

High-Dimensional Statistical Modeling Unit Multi-omics data integration for epistasis detection



榎本 泰典 呼吸器形成研究チーム 勝胞オルガノイド技術を用いた、肺線維症における上皮細胞老化の意義 と新規薬剤の探索

Yasunori Enomoto Laboratory for Lung Development Significance of epithelial cellular senescence in lung fibrosis: discovery of new drugs using alveolar organoid technology



















榎本 航之 創発超分子材料研究チーム 環状配位子との複合形成によるコロイド量子ドットの低次元超構造体 の標準

Kazushi Enomoto Emergent Supramolecular Materials Research Team Low-Dimensional Superstructures Built by the Complex Formation between Colloid Quantum Dots and Cyclic Ligands

Nan Fang 加藤ナノ量子フォトニクス研究室 1次元/2次元ヘテロ構造における励起子物理とその応用

Nan Fang Nanoscale Quantum Photonics Laboratory Exciton physics in 1D-2D heterostructures and its applications

福光 甘斎 親和性社会行動研究チーム 視索前野および扁桃体領域による社会的接触行動の分子神経基盤の ^{解明}

Kansai Fukumitsu Laboratory for Affiliative Social Behavior Neural basis of social contact behavior

後藤 ゆきみ 数理創造プログラム ^{量子力学的多体系の数学解析}

Yukimi Goto Interdisciplinary Mathematical Sciences Program Mathematical analysis of quantum many body system

橋本 真里 ヒト疾患モデル研究チーム 血球、免疫系細胞の分化に寄与する膜輸送タンパク質solute carriers の探索および機能研究

Mari Hashimoto Laboratory for Human Disease Models Functional analysis of solute carriers in hematopoietic differentiation and leukemia development using humanized mice

北條望 細胞システム動態予測研究チーム 三次元組織における空間情報を保持した1細胞遺伝子発現解析法の 開発と幹細胞研究への応用

Nozomi Hojo Laboratory for Prediction of Cell Systems Dynamics Development of single cell RNA-seq method for three-dimensional tissue retaining spatial information of each cell and its application to stem cell research

本田匠 データ同化研究チーム 雷予報モデルを用いたデータ同化による高度な数値天気予報の実現 Takumi Honda

Data Assimilation Research Team Exploring the potential of an advanced data assimilation system with a lightning-predicting model

Ahn Junyeong 強相関理論研究グループ Strong Correlation Theory Research Group

Ahn Junyeong Strong Correlation Theory Research Group Physical Responses in Topological Crystalline Phases with Gapped Boundary States

鹿又 喬平 触媒・融合研究グループ 樹木糖鎖が立体化学を制御するグリーンな触媒反応の創出

Kyohei Kanomata Catalysis and Integrated Research Group Sustainable Asymmetric Catalysis on Wood Cellulose Nanofibers

写真 Photo

⊥ таких выскажить л — Д Three dimensionally architectured nanocatalyst inspired by deep-sea hydrothermal vent

Three dimensionally architectured nanocatalyst inspired by deep-sea

Unraveling three-dimensional topological spin textures and their physical properties

Unraveling three-dimensional topological spin textures and their physical properties

Environmental Metabolic Analysis Research Team Measurement Informatics for Predicting Physical Properties of Polymers Considering the Higher-Order Structures

Quantum Functional System Research Group

ー 環境代謝分析研究チーム 高分子の高次構造多様性を踏まえた物性予測のための計測インフォマ ティクス

シリコン量子ドット中の電子スピンによる誤り耐性量子計算の基盤技術開発

Strong Correlation Theory Research Group

Biofunctional Catalyst Research Team

Hye-Eun Lee

Hye-Eun Lee

hydrothermal vent

Yizhou Liu

Yizhou Liu

西口 彩里

野入 亮人

Akito Noiri

and disaggregation

Ayari Nishiguchi

量子機能システム研究グループ

強相関理論研究グループ

生体機能触媒研究チーム

研究課題 Name Host Laboratory Research Topic

氏名 受入研究室



川口 有希子 比較コネクトミクス研究チーム 消化器機能を調節する交感神経系の分子遺伝学的解析

菊地 健吾

数理創造プログラム

木邑 真理子

木村 謙介

Yukiko Kawaguchi Laboratory for Comparative Connectomics Molecular genetic analysis of sympathetic nervous system that modulates gastrointestinal functions



グラディエントフローを用いた場の理論の新しい解析手法の発展 Kengo Kikuchi Interdisciplinary Mathematical Sciences Program New Approach to Non-perturbative Quantum Field Theory Inspired by Gradient Flow



榎戸極限自然現象理研白眉研究チーム Mariko Kimura

Extreme natural phenomena RIKEN Hakubi Research Team Studies in Complete Picture of Accretion onto Black Holes through Multi-Wavelength Observations, Numerical Simulations, and Modern atistics



Kim表面界面科学研究室 テラヘルツ-光STMで観る分子の帯電状態ダイナミクス Kensuke Kimura

Surface and Interface Science Laboratory Observation of the dynamics of charged molecule by the development of ultrafast spectroscopy based on THz-photon STM 木下 佳昭

Yoshiaki Kinoshita Molecular Physiology Laboratory Reconstitution of archaeal motor complex using biomembrane microsystems

数理科学チーム Spectral Analysis, Analytic Number Theory, and applications to Machine Learning.



Mathematical Science Team Spectral Analysis, Analytic Number Theory, and applications to Machine Learning. 北谷 基治

Eren Mehmet Kiral

Eren Mehmet Kiral

小塚 智沙代

免疫器官形成研究チーム

Chisayo Kozuka



計算物質科学研究チーム 第一原理DFAの開発と非従来型超伝導への応用 Motoharu Kitatani First-Principles Materials Science Research Team Development of AbinitioDFA and application to the unconverse superconductivity

卵子エピゲノムと胎盤を介した生活習慣病の母子間遺伝機構の解明

Understanding the mechanism of intergenerational inheritance of

metabolic disorders via the oocyte epigenome and placenta





Laboratory for Developmental Genetics

XFEL Research and Development Division, Beam Line Research and Development Group, Beam Line Development Team Photo-induced dynamics in strongly correlated materials with attosecond hard X-ray pulses

















版分表量、設置した成功方量 原始惑星系円盤・系外惑星大気の化学構造研究から探る、普遍的な 星・惑星形成過程 Shota Notsu Star and Planet Formation Laboratory Exploration of universal star and planet formation processes through the studies chemical structures in protoplanetary disks and exoplanetary atmospheres sses through the studies of

大出 真央 杉田理論分子科学研究室 分子動力学計算とクライオ電子顕微鏡の相補的融合による生体高分子 の時空間イメージング

Mao Oide Theoretical Molecular Science Laboratory Spatiotemporal imaging of biological macromolecules by complementary use of cryo-electron microscopy and molecular dynamics simulation







遺伝子制御回路研究チーム Evolutionary conservation of epigenomic interactions involved in human ageing across the vertebrate lineage Juan Felipe Ortiz

Juan Felipe Ortiz

s inside spider gland: knowledge-based

Laboratory for Advanced Genomics Circuit Evolutionary conservation of epigenomic interactions involved in human ageing across the vertebrate lineage









Lőrinc Sárkány 時空間エンジニアリング研究チーム Continuous optical lattice clocks

Lőrinc Sárkány Space-Time Engineering Research Team Continuous optical lattice clocks



佐々木 崇晴 粘膜システム研究チーム 腸管の腫瘍発生制御における食物抗原の機能解析 Takaharu Sasaki

Laboratory for Intestinal Ecosystem Role of food antigen in the regulation of intestinal tumorigenesis



七野 悠一 岩崎RNAシステム生化学研究室 空間的制御による選択的翻訳機構 Yuichi Shichino

住谷 陽輔

RNA Systems Biochemistry Laboratory



杉田理論分子科学研究室

Yosuke Sumiya Theoretical Molecular Science Laboratory Automated reaction path search of multistep enzymatic reactions using quantum mechanics/molecular mechanics(QM/MM) method and kinetic analysis



高 もも 核分光研究室 重元素合成天体環境解明のための中性子過剰核の系統的核分光 Momo Taka

Nuclear Spectroscopy Laboratory Systematic nuclear spectroscopy of neutron-rich nuclei to clarify the astrophysical environment of heavy element synthesis



武田 泰明

NMR研究開発部門 NMR開発グループ 超高磁場磁石開発チーム Bi系高温超伝導線材の超伝導接合を使った永久電流磁石技術体系の確立 Yasuaki Takeda

Ultra-high-field NMR Magnet Development Team, NMR Development Group, NMR Science and Development Division Establishment of a system of persistent current magnet technology through superconducting joints between Bi-based high-temperature superconducting tapes



谷口 正樹 数理創造プログラム ゲージ理論における Floer 理論の一般化(I)、及び精密化(II)について

Masaki Taniguchi Interdisciplinary Mathematical Sciences Program (Tsuboi) A generalization and refinement of Floer theory in gauge theory



結合テンソル分解による異種バイオデータの統合解析 Koki Tsuyuzaki Laboratory for Bioinformatics Research Integrated analysis of heterogeneous biological data by coupled tensor factorization



内田 唯

多階層牛命動態研究チーム ンロコーエロリヨルロショルステーム 数理モデルと細胞・分子動態の網羅的計測により、脊椎動物胚における 形態の進化可能性を評価する

Yui Uchida Laboratory for Multiscale Biosystem Dynamics Evaluating evolvability of vertebrate embryonic morphology by mathematical model and by comprehensive measurement of cell migration and signal molecule distribution.



















和田 有希 榎戸極限自然現象理研白眉研究チーム 地上と宇宙観測で解明する雷放電での電場加速と高エネルギー放射

Yuuki Wada Extreme natural phenomena RIKEN Hakubi Research Team

Studies of particle acceleration and high-energy emissions in lightning with on-ground and spacecraft observations

Chao Wang 創発機能高分子研究チーム Surface-induced chirality in organic semiconductor thin films and its application to spin filter

Chao Wang Emergent Functional Polymers Research Team Surface-induced chirality in organic semiconductor thin films and its application to spin filter

許 インイン 汎用基盤技術研究グループ数理統計学チーム ランダム行列の有限サイズスケーリング則の解明及び巨大相関グラフ のエッジ検定への応用

Yingying Xu Mathematical Statistics Team Analysis of finite size scaling property of random matrix and its application to high dimensional dependence graph edge filtering certification

Fangke Xu 神経細胞多様性研究チーム Measurement of Chromatin Architecture, and its Function in Regulating Neuronal Activity.

Fangke Xu Laboratory for Neurodiversity Measurement of Chromatin Architecture, and its Function in Regulating Neuronal Activity.

Bing Xue アト秒科学研究チーム Attosecond spectroscopy: ultrafast dynamics in atoms and molecules

Bing Xue Attosecond Science Research Team Attosecond spectroscopy: ultrafast dynamics in atoms and molecules

八木 創太 高機能生体分子開発ユニット 古代RNA/DNAポリメラーゼの復元 ~「セントラルドグマ」の起源に迫

Sota Yagi Laboratory for Advanced Biomolecular Engineering Resurrection of ancient RNA/DNA polymerase: Unraveling a mystery of origin of Central Dogma

山下 慧 形態形成シグナル研究チーム 気管陥入を駆動する三つのプロセスの協調機構の解明

Satoshi Yamashita Laboratory for Morphogenetic Signaling Study of the coordination between three processes driving tracheal invagination

楊 正博 細胞機能探索技術研究チーム 実践的分子シミュレーションで展開する医用工学技術の開発研究

Zhengbo Yang Laboratory for Cell Function Dynamics Molecular Simulation-Based Approach to Protein Engineering for Future Medicine.

米田 浩基 玉川高エネルギー宇宙物理研究室 MeVガンマ線宇宙物理学の開拓

Hiroki Yoneda High Energy Astrophysics Laboratory Development of MeV gamma-ray astrophysics

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



章 白浩 粘膜免疫研究チーム 免疫システム、マイクロバイオータと脳における代謝連關 Baihao Zhang

Laboratory for Mucosal Immunity Metabolic communication in immune system, microbiota and brain



Junwen Zhong 創発ソフトシステム研究チーム Flexible/Stretchable Piezoelectret Electromechanical Transducers for Bi-Directional Human Interactions

Junwen Zhong Emergent Soft System Research Team Flexible/Stretchable Piezoelectret Electromechanical Transducers for Bi-Directional Human Interactions

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





Mohammed Abdelhamid Ramadan Abosheasha 伊藤ナノ医工学研究室 Efficient siRNA delivery and Suppression of Tumor Angiogenesis using peptide-lipid hybrid vesicle mediated by fusogenic pathway

Mohammed Abdelhamid Ramadan Abosheasha Nano Medical Engineering Laboratory Efficient siRNA delivery and Suppression of Turnor Angiogenesis using peptide-lipid hybrid vesicle mediated by fusogenic pathway

Development of High throughput System for Detecting Compound-protein Interaction by Tri-molecular Luminescence Complementation in Fission Yea

Development of High throughput System for Detecting Compound-protein Interaction by Tri-molecular Luminescence Complementation in Fission Yeast

Fereshteh Azadeh

ケミカルゲノミクス研究グループ

Fereshteh Azadeh Chemical Genomics Research Group

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Yeast

, ring in





江戸 彩加

網膜再生医療研究開発プロジェクト

ヒトiPS細胞由来網膜神経節細胞の免疫特性解析



土肥 明 数理創造プログラム 中性子星内部で発生する複雑な物理過程を考慮したX線パーストのモ デル構築

Akira Dohi Interdisciplinary Mathematical Sciences Program Numerical Modeling of X-ray Burst with Complicated Physical Processes Occurring inside the Neutron Stars



Ayaka Edo Laboratory for Retinal Regeneration Immunological properties of retinal ganglion cells derived from human induced pluripotent stem cells



藤家 拓大 先端光学素子開発チーム 未知相互作用探索に向けた中性子干渉光学素子の開発

Takuhiro Fujiie Ultrahigh Precision Optics Technology Team Development of Neutron Coherent Optics for Unknown Interaction Search



藤澤 将広 不完全情報学習チーム 不完全情報上での複雑な確率モデルにおける、柔軟で信頼性の高い近 似推論法の開発

Masahiro Fujisawa Imperfect Information Learning Team Development of a flexible and reliable approximate inference for complex probabilistic models on an imperfect information

藤原 昂平 メタボローム研究チーム 脂肪酸代謝酵素Cyp4a12aの腎保護作用の解析

Kohei Fujiwara Laboratory for Metabolomics Analysis of nephroprotective action of Cyp4a12a-derived metabolites







数理科学チーム 数モ科学チーム モレー・ローレンツ空間上のカルデロン・ジグムンド特異績分作用素の 有界性

Naoya Hatano Mathematical Science Team The boundedness of the Calderon-Zygmund singular integral operator on Morrey-Lorentz spaces

池川 優子 動的恒常性研究チーム アポトーシスとオートファジーの相互作用機構の解明

Yuko Ikegawa Laboratory for Homeodynamics n of the interaction between apoptosis and autophagy

井上 雅章 め 数理統計学チーム 複雑ネットワーク成長機構による動的なグラフ埋め込みと分散表現

Masaaki Inoue Mathematical Statistics Team Dynamic Graph Embedding and Distributed Representation via Growth Mechanisms of Complex Networks



伊藤 功彦 細胞場構造研究チーム 抗がん剤依存的に形成される核内アクチン構造の機能と電子顕微鏡に よる構造解析

Katsuhiko Ito Laboratory for Cell Field Structure Functional and electron microscopy-based structural analysis of anti-tumor drug-dependent nuclear F-actin formation

Constructing characteristic chimeric α-HL & γ-HL pores for bioengineer applications by the aid of cryo-electron microscopy structural analysis 波多野 修也





糸数 雄吏 平山量子光素子研究室 ^{歪制御分極ドーブを用いた深紫外レーザダイオードの研究}

Yuri Itokazu Quantum Optodevice Laboratory Deep ultraviolet laser diode with strain controlled polarization doping



柿原知 マイクロバイオーム研究チーム プロテオーム解析とメタゲノム解析を用いた稀少小児外科疾患や未熟 児腸内環境の病態解明

Tomo Kakihara Laboratory for Microbiome Sciences Multi-omics analysis of gut environment of rare pediatric surgical diseases and premature infants.



空置 歩 齋藤高エネルギー原子核研究室 高速顕微鏡と機械学習を用いた原子核乾板によるダブルハイパー核の 研究

Ayumi Kasagi High Energy Nuclear Physics Laboratory Study of double hypernuclei by a photographic detector, a high-speed scanning, and machine learning



Shota Kawakami Mathematical Science Team Details of the blow-up solutions for nonlinear dispersive equations



久保田健太郎 自然免疫システム研究チーム 子宮内膜症の発症・増悪におけるLC2の役割解明

Kentaro Kubota Laboratory for Innate Immune Systems Investigation of ILC2 in the initiation and progression of endometriosis



黒羽小羊子 メタボローム研究チーム 網膜内DHA含有リン脂質の生理学的意義の解明

Sayoko Kuroha Laboratory for Metabolomics Elucidation of physiological significance of DHA-containing phospholipidis in the retina



Kim表面界面科学研究室 STM and DFT studies of the catalytic reaction induced by plasmon Minhui I ee

Surface and Interface Science Laboratory STM and DFT studies of the catalytic reaction induced by plasmon



コンホメーション変化に伴う双極子反転を利用した分子誘電特性の制御 Takuya Miyazaki Surface and Interface Science Laboratory Control of molecular dielectric response based on dipole-inversion with molecular conformational change



内藤 早紀

宮崎 拓也

Kim表面界面科学研究室

Minhui Lee

動的恒常性研究チーム 老化に伴う腸幹細胞の恒常性を制御する因子の遺伝学的解析

Saki Naito Laboratory for Homeodynamics Genetic screening to identify factors that regulate homeostasis of intestinal stem cells during aging in Drosophila



















中川 諒 ヒト疾患モデル研究チーム TP53変異を有する難治性急性白血病における治療抵抗性の病態解明 および治療ターゲットの検索

Ryo Nakagawa Laboratory for Human Disease Models Identification of drug resistance mechanisms and therapeutic target in refractory acute leukemia with TP53 mutation.

大石 雄太 分子配列比較解析チーム 遠縁な生物種間で胎盤形成を可能にした共通のゲノム要因に迫る Yuta Ohishi

Laboratory for Phyloinformatics Exploring common genomic factors that enable placenta formation between phylogenetically distant species



でした。 Tomoaki Okaniwa Laboratory for Prediction of Cell Systems Dynamics Gene expression analysis of a living cell using machine learning

発生動態研究チーム 線虫の三次元空間における行動制御システムの解明 Shiori Onoue

Laboratory for Developmental Dynamics Elucidate the control system in 3D behavior of C.elegans

榊原光 数理創造プログラム 汎関数繰り込み群を用いた原子核構造の解明

Hikaru Sakakibara Interdisciplinary Mathematical Sciences Program Study of nuclear structure with functional renormalization group

関根 悠哉 基盤技術開発研究チーム 腎がんの個別化医療促進にむけた大規模ゲノム解析

Yuya Sekine Laboratory for Genotyping Development Large-scale genome analysis for promoting personalized medicine of renal cell carcinoma.

関屋 涼平 岩崎中間子科学研究室 η'中間子原子核探索実験によるQCD真空の解明

Ryohei Sekiya Meson Science Laboratory Spectroscopy of Eta'-Mesic Nuclei for Studying QCD Vacuum.

Zhengzheng Shi 粘膜システム研究チーム Unraveling the Molecular Effects of the Kampo Medicine Daikenchuto on the Maintenance of Intestinal Homeostasis in a Murine Colitis Model

Zhengzheng Shi Laboratory for Intestinal Ecosystem Unraveling the Molecular Effects of the Kampo Medicine Daikenchuto on the Maintenance of Intestinal Homeostasis in a Murine Colitis Model

四方 大樹 遺伝工学基盤技術室 ビストンH4メチル化の発生生物学的意義の解明

Daiki Shikata Bioresource Engineering Division Analysis on significance of developmental biology of histone H4 methylation

写真 Photo

組織動態研究チーム 表皮パリア減弱が惹起する痒みの感覚神経活性化メカニズムの解析

Mechanistic analysis of itch-inducing sensory nerve activation in

受入研究室 研究課題 Name Host Laboratory Research Topic

氏名



嶋田 宗将 複雑現象統一的解法研究チーム 高レイノルズ数流れにおける流体-構造連成現象に対する完全オイラー 型統一連成解法の構築と工学的・産業的課題への適用 Tokimasa Shimada

Complex Phenomena Unified Simulation Research Team Construction of Eulerian unified formulation for fluid-structure interaction problems under high Reynolds number flow conditions and its application to engineering and industrial problems



下條 優

Qiwen Sun

竹野 思温

竹内 祐貴

田中 優希

Yuki Tanaka

手嶋 毅志

向上

田中メタマテリアル研究室

細胞機能変換技術研究チーム

データ駆動型生物医科学チーム

データ同化研究チーム

無細胞タンパク質合成研究チーム

Masaru Shimojo Laboratory for Cell-Free Protein Synthesis Elucidating biogenesis process of ribosomal small subunit by in vitro reconstitution system



Soft boundary local particle filters in high-dimensional hidden Markov models Qiwen Sun Data Assimilation Research Team Soft boundary local particle filters in high-dimensional hidden Markov models



Multi-fidelity探索問題のための情報論的能動学習とその材料分野へ の応用 Shion Takeno Data-Driven Biomedical Science Team Information-theoretic active-learning for multi-fidelity exploration problems and its application to materials science



Yuki Takeuchi Metamaterials Laboratory Enhancement of hot carrier generation in near-infrared region with metamaterial

部位特異的DNA脱メチル化スクリーニングによる新規骨髄異形成症候 群治療ターゲットの同定

メタマテリアル構造を利用した近赤外域でのホットキャリア生成効率の



Laboratory for Cellular Function Conversion Technology Identification of new treatment target of myelodysplastic syndrome (MDS) using site-specific DNA demethylation screening 天間 雄祐

多階層精神疾患研究チーム 多階層イメージングを実現するトランスジェニックマウスの開発と精神 疾患研究への応用 Yusuke Temma

Laboratory for Multi-scale Biological Psychiatry Development of transgenic mice for multiscale imaging and application to research for psychiatric disorders





不完全情報学習チーム データ生成過程の構造的情報に基づく少数データ機械学習手法に関す る研究 Takeshi Teshima

Imperfect Information Learning Team Research on few-data machine learning based on the structural information of data generation processes

冨田 良平 非対称細胞分裂研究チーム ドトドラS細胞白来大脳皮質オルガノイドへ放射状繊維方向に関しての正常な位置情報を与える

Ryohei Tomita Laboratory for Cell Asymmetry Giving normal location information regarding a radial fiber direction to cerebral organoids derived from human iPS cells



豊島 進

Susumu Toshima

barrier-impaired skin

宇野 亘

Laboratory for Tissue Dynamics

Techit Tritrakarn

次世代NMR装置開発チーム



材料開発に向けた超高感度次世代固体NMRプローブの開発 Techit Tritrakarn Advanced NMR Technology Development Team Development of ultra-sensitive next-generation solid-state NMR probe for material development

堤 真人 多階層生命動態研究チーム 機械学習を用いた生物形態の定量化とその応用 Masato Tsutsumi Laboratory for Multiscale Biosystem Dynamics Characterization of biological morphology by using machine learning



ヒト器官形成研究チーム 発生プロセスに準拠したヒト前立腺オルガノイドの誘導 Wataru Uno Laboratory for Human Organogenesis Induction of human prostate organoid based on developmental process



データ駆動型生物医科学チーム Novel Statistical Approach for Data-Driven Artificial Intelligence (AI), with Applications to the Field of Trajectory Minina Duy Nguyen Le Vo Data-Driven Biomedical Science Team Novel Statistical Approach for Data-Driven Artificial Intelligence (AI), with Applications to the Field of Trajectory Mining

数理科学チーム 非線形シュレディンガー方程式の解の大域挙動の解析

dynamics of nonlinear Schroedinger equation

世界初の電子弾性散乱による不安定核の電荷密度分布の決定

The world's first determination of charge density distribution of

Duy Nguyen Le Vo

Minami Watanabe Mathematical Science Team

RI・電子散乱装置開発チーム

unstable nuclei by electron elastic scattering

和宇慶 ひかり

Hikari Wauke SCRIT Team

渡邉 南









Wenxuan Xu 先進機能触媒研究グループ C-H Bond Activation and Transformation by Organo Rare Earth Catalysts

Wenxuan Xu Advanced Catalysis Research Group C-H Bond Activation and Transformation by Organo Rare Earth Catalysts











Jingyi Xue 骨関節疾患研究チーム 同周期の高いスケーム Identification of the causal genes for sclerosing bone disorders and clarification of their pathomechanism.

Jingyi Xue Laboratory for Bone and Joint Diseases Identification of the causal genes for sclerosing bone disorders and clarification of their pathomechanism.



山浦 港生 合成生物学研究チーム 睡眠およびリン酸化からみるアルツハイマー病発症メカニズムの解明

Kosei Yamaura Laboratory for Synthetic Biology Revealing the onset of Alzheimer's disease through sleep and phosphorylation



数理脳科学研究チーム 徐波発火パターンによるシナプス可塑性および学習の制御 Kensuke Yoshida

吉田 健祐

Laboratory for Neural Computation and Adaptation Synaptic plasticity and learning regulated by the slo firing pattern e-sleen





吉岡 輝昭

Teruaki Yoshioka

超伝導量子シミュレーション研究チーム



Xianping Zhang 画像情報処理研究チーム Multiscale modeling of ultrasonic-controlled drug delivery system

超伝導量子ビットの量子状態によらない高速初期化プロセスの研究

Superconducting Quantum Simulation Research Team

Unconditional fast reset process for superconducting gubit

Xianping Zhang Image Processing Research Team Multiscale modeling of ultrasonic-controlled drug delivery system

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



Antonios Apostolopoulos 岩崎RNAシステム生化学研究室 細胞老化と細胞休止における翻訳制御

Antonios Apostolopoulos RNA Systems Biochemistry Laboratory Senescence vs Quiescence: Unveiling protein translation



Laura Bracun タンパク質機能・構造研究チーム クライオ電顕による生体エネルギー変換に関わる超分子複合体の構造 解析

Cryo-Electron Microscopy

Laura Bracun Laboratory for Protein Functional and Structural Biology Macromolecular Structure of Bioenergetic Supercomplexes using



Muhammad Hanif Bin Che Lah 中間子科学研究室 脳のDNA中の電子伝導の研究 Muhammad Hanif Bin Che Lah Meson Science Laboratory

Electron transport study in DNA of brain cells

Enqiang Liu ー・マー・フー・フー・ 齋藤高工ネルギー原子核研究室 ドイツGSI/FARと中国HIAFにおけるシングルおよびダブルラムダハイ パー核実験研究のための新技術の開発

Enqiang Liu El Iqual Ig Lig High Energy Nuclear Physics Laboratory Development of the novel techniques for hypernuclear experiments to study exotic single-L and double-strange hypernuclei at GSI/FAIR in Germany and at HIAF in China









バイオオプロープ応用研究ユニット ホルモン受容体(HR)シグナル伝達経路依存的にAQP5を活性化する 小分子化合物のスクリーニング Xintong Liu

Bioprobe Application Research Unit Screening of small molecule compounds that activate AQP5 in a hormone receptor (HR) signaling pathway dependent manner.

Enhui Lu 大森素形材工学研究室 マシンビジョンに基づいた超精密加工面粗さ測定

Enhui Lu Materials Fabrication Laboratory Ultra-precision machining surface roughness measurement based on machine vision

Benard Mulilo 放射線研究室 国へ資気エネルギー200GeVの単横偏極陽子+原子核衝突における 超前方中性子生成非対称性の横運動量依存性の研究

Benard Mulilo Radiation Laboratory Transverse momentum dependence of the transverse single-spin asymmetry for the very forward neutron production in p + A collisions at collision energy of 200 GeV

Ahmed Emad Abdelmoneam Ali Elrefaey 創発生体工学材料研究チーム 単層カーボンナノチューブの分散、配向を誘起する超分子材料の開発

Ahmed Emad Abdelmoneam Ali Elrefaey Emergent Bioengineering Materials Research Team Development of a supramolecular material for dispersion and alignment of single-walled carbon nanotubes (SWCNTs)

Alexandra-Ionela Stefanescu スピン・アイソスピン研究室 核の天体物理学のための間接測定:中間エネルギーでの陽子分解反応

Alexandra-Ionela Stefanescu Spin isospin Laboratory Indirect measurements for nuclear astrophysics: proton breakup reaction at intermediate energies



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



Nayan Vinod Suryawanshi タンパク質構造疾患研究チーム アルツハイマー病モデルマウスにおけるmRNA翻訳異常の解明

Nayan Vinod Suryawanshi Laboratory for Protein Conformation Diseases Understandeing dysregulated mRNA translation in Alzheimer's disease model mice.





Duligengaowa Wuergezhen 細胞外環境研究チーム 発生における細胞外マトリックスダイナミクス

Duligengaowa Wuergezhen Laboratory for Tissue Microenvironment Extracellular matrix dynamics in development

Ruting Zhang 大森素形材工学研究室 単結晶SiCチップの超精密CMPの研究

Ruting Zhang

Materials Fabrication Laboratory Study on The Ultra-precision Chemical Mechanical Polishing of Single Crystal SiC Chip



2019年度理研サマースクール

2019年度の理研サマースクールは、2019年10月7日 ~8日に千葉県木更津市でJRA・IPA計111人が参加し 開催されました。前田瑞夫IPA審査部会長や本林透名 誉研究員をはじめ、CEMS・ 但馬敬介チームリーダー、 CPR・川口喬吾理研白眉チームリーダー、IMS・村川泰 裕チームリーダー、IMS・WU Yibo上級研究員に参加い ただき、お話を伺う機会を得ました。また、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。lcebreaker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。なお、2019年度よりBest Poster 賞をMost Popular Poster賞に変更し、新たに参加者 同士の投票による特別賞 (Most Inclusive Posterおよ びBest Poster Design) を創設しました。Most Popular Poster賞は前田バイオ工学研究室のSurachada Chuaychobさんが受賞しました。

FY2019 RIKEN Summer School

FY2019 RIKEN Summer School was held on October 7 to 8, 2019 at Kisarazu, Chiba. 111 JRA and IPA students participated in this event and enjoyed talks by Drs. Keisuke Tajima, Kyogo Kawaguchi, Yasuhiro Murakawa and Yobo Wu, as well as introducing themselves in the Icebreaker session and presenting their research during the poster sessions. Dr. Mizuo Maeda, Head of IPA Screening Committee also joined the event, and Dr. Tohru Motobayashi acted as the Head of Poster Screening Committee. 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. Starting this year, the Best Poster Award was changed to Most Popular Poster and two new Special Prizes, Most Inclusive Poster and Best Poster Design, was created. The Most Popular Poster Prize went to Ms. Surachada Chuaychob of the Bioengineering Laboratory.



集合写真 Group photo



(左)Icebreakerの様子 (右)ポスター発表の様子 (Left) Icebreaker (Right) Poster session



ポスター賞受賞者: (後段 左から)柳瀬さん、ゾートーバさん、アワシさん、シさん、フさん、佐々木さん、前田 瑞夫 主任研究員、本林 透 名誉研究員 (審査委員長)、待田さん、石田さん (前段 左から)尾藤さん、山口さん、チュアイチョブさん、宇佐美さん、ピナルシーさん

Poster prize winners: (Back row from the left) Mr. Yanase, Ms. Zotova, Mr. Awasthi, Mr. Shi, Ms. Fu, Mr. Sasaki, Dr. Mizuo Maeda (Chief Scientist), Dr. Tohru Motobayashi (Honorary Scientist, Head of Poster Screening Committee), Mr. Machida, Mr. Ishida (Front row from left) Mr. Ofuji, Ms. Yamaguchi, Ms. Chuaychob, Ms. Usami, Ms. Winarsih

ポスター賞受賞者

Most Popular Poster賞 チュアイチョブ スラチャダ (化学) 国際プログラム・アソシエイト前田バイオ工学研究室

生物科学賞

待田 大輝 大学院生リサーチ・アソシエイト 細胞外環境研究チーム

山口 智子 大学院生リサーチ・アソシエイト 超分子システム動態研究チーム

宇佐美 知沙 大学院生リサーチ・アソシエイト 体軸動態研究チーム

工学賞

フ ギエン
 国際プログラム・アソシエイト 計算工学応用開発ユニット
 シ リョウ

国際プログラム・アソシエイト 計算工学応用開発ユニット

医科学賞

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石田 聖朗 大学院生リサーチ・アソシエイト 網膜再生医療研究開発プロジェクト

アワシ ジャナク ラジ 国際プログラム・アソシエイト 精神生物学研究チーム

数理科学賞

柳瀬 友朗 大学院生リサーチ・アソシエイト 複合系気候科学研究チーム

物理賞 ビナルシー スチー 国際プログラム・アソシエイト 中間子科学研究室

佐々木 亮 大学院生リサーチ・アソシエイト 玉川高エネルギー宇宙物理研究室

ゾートーバ ユリア 国際プログラム・アソシエイト 超伝導量子シミュレーション研究チーム

Poster prize winners

Most Popular Poster Prize

Surachada Chuaychob (Chemistry) International Program Associate Bioengineering Laboratory

Biology Prize

Hiroki Machida Junior Research Associate Laboratory for Tissue Microenvironment

Tomoko Yamaguchi Junior Research Associate Laboratory for Supramolecular System Dynamics Research

Chisa Usami Junior Research Associate Laboratory for Axial Pattern Dynamics

Engineering Prize

Xiyan Fu International Program Associate Computational Engineering Applications Unit

Liang Shi International Program Associate Computational Engineering Applications Unit

Medical Science Prize

Kazuhiro Ofuji Junior Research Associate Laboratory for Human Organogenesis

Masaaki Ishida Junior Research Associate Laboratory for Retinal Regeneration

Janak Raj Awasthi International Program Associate Laboratory for Mental Biology

Mathematical Sciences Prize

Tomoro Yanase Junior Research Associate Computational Climate Science Research Team

Physics Prize

Suci Winarsih International Program Associate Meson Science Laboratory

Ryo Sasaki Junior Research Associate High Energy Astrophysics Laboratory

Iuliia Zotova International Program Associate Superconducting Quantum Simulation Research Team

記事の募集

本紙では、基礎特研・JRA・IPA の在籍者、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 News30 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。当課 は理研和光キャンパス内、情報基盤棟 3F ですので、いつでも気軽 にお立ち寄りください。

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 SPDR, JRA, IPA, 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.30. 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 (e-mail: wakate@riken.jp). Our office is located on the 3rd floor of the Information Science Building on the Wako campus. Please come to visit us when you have time.

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

若手研 NEWS 2020 年号(第 30 号)

2020年3月31日発行

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Young Researcher NEWS 2020 Issue No.30 March 31, 2020

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