若手研NEWS

Young Researcher News

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2022 No. 32

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Scatterbrain, relax! No need to overcomplicate things so frequently! p.7

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

3) 大学院生リサーチ・アソシエイト
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Self versus non-self: our ongoing journey with viruses

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When our assumptions are challenged, remarkable discoveries of truth and truly formative experiences are quite likely to occur.

This occurred when I first visited Japan as a conference presenter, discussing my work on helicases in host immunity and retroviral and non-retroviral replication. I had many interactions large and small with people everywhere and every day that I will never forget, including exchanges with other researchers here that quickly exceeded expectations. This was crucial in the sequence of events that brought me to RIKEN, and I remain thankful to these people, many brilliant and all kind, to this day. I hope that many others will have similarly inspiring experiences once the SARS-CoV-2 pandemic subsides, and that our research activities and daily decisions will expediate this.

As individuals, we each embody a concept of "self" as distinct from "non-self". We can describe this at various scales of analysis including genetic, cellular/immunological, and even cognitive. This concept also changes through time. One example is host-virus interactions, which contribute to individual variation, drive evolutionary innovation, and enable genetic exchange. We live in the most exciting time to study these phenomena and, considering the future of the field, I felt strongly motivated to move here to continue my research into them.

But the future has many parts, and these are viewed differently by each individual; some assume the future will inevitably see various forms of decline. It may be timely to reflect on this assumption.

When tasked with turning around a domain in truly terminal decline, the life of Uesugi Yōzan[1] comes to mind. His example shows that reversing a downward trend begins with the individual. This advice remains essentially unchanged today, even as the value of many commodities of lord Uesugi's time is increasingly supplanted by the value of information.

The SARS-CoV-2 pandemic, as one of the greatest challenges of *our* time, may provide a good crucible to test the durability of these ideas.

In a 2020 Lancet study, the perceived safety, effectiveness, and importance of vaccination in Japan was ranked among the lowest in the world[2]. As SARS-CoV-2 spread across the planet, many assumed that Japan would see uncontrollable transmission even after the first vaccines started arriving.

In fact, so many individuals chose to embrace vaccination that Japan now ranks comfortably within the top ten nations for SARS-CoV-2 vaccine coverage[3]. This is even more remarkable given the novel technologies involved, and the fact that other places had a head-start. This includes some places where the ongoing medical and social need for greater vaccination seems an insufficient motivation for many individuals to choose vaccination.

Let this demonstrate the importance of innovation and individual actions in reversing decline. Let this also highlight how each individual's willingness to embrace necessary change requires earning and maintaining trust

in these efforts. In this way, seemingly obvious assumptions about the future can be challenged or averted, and even the very concept of "self" re-evaluated.

The key ingredient here was *information*: genomic information about the virus enabling the development of RNA-based vaccines; cellular and biochemical information enabling treatment and public health decisions; and public information enabling individuals to make well-informed choices. Thus, our professional and civic activities as scientists positively shape the future.

Looking again into the future through *this* lens, what can we see?

The physiological response to SARS-CoV-2 infection and treatment, as with any disease or therapy, can vary greatly between individuals. Indeed, populations are genetically diverse, but model organisms derived from a limited (perhaps a single) genetic origin may not represent this. Current ways of addressing this typically involve analysing many samples in sequence, parallel, or multiplex, each with impracticalities. I see that a fourth way may be possible, one which leverages genetic information in the right way to better represent the diversity of humanity, while also enabling a cost-effective and manageable workflow.

Assumptions about viruses are increasingly being challenged, including the discovery of giant viruses with thousands of genes[4], viruses influencing our atmosphere's carbon cycle[5], and the presence and roles of viruses and viral elements integrated in all our genomes[6,7]. The field is increasingly moving towards an understanding of viruses as mobile genetic elements, which include transposable elements (TEs) to which we humans owe nearly half our genetic identity[8]. I see a future where entire cellular systems are remodelled to yield useful biology, such as repurposing the mechanisms used to control TEs in immunology and other applications.

The changing circumstances of our world create the urgent need for innovation across multiple domains. Suppressing SARS-CoV-2 transmission is a key concern today, but I hope we can maintain a wider view of the host-virus interplay as shaping the past, present and future of our planet and society. Viruses are the most abundant and genetically diverse entity in our biosphere, and the reward for understanding the richness of genetic information provided by them I think will more than repay today's effort.

The continuous evaluation of "self" and "non-self" is as much an individual journey as it is a research theme, cellular function, or evolutionary impulse, and the most interesting discoveries are often made by challenging the underlying assumptions. By harnessing vast amounts of one of our era's most treasured commodities in information, I think we are well-placed at RIKEN to challenge many assumptions for the benefit of our society and all humankind.

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故郷の海
The Ocean of My Hometown

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和光理研にJRAとして在籍してから2年が経過した。普段出入りしているとあまり気にはならないが、時々、西門に書かれている「理化学研究所」の文字が鮮明に見えることがある。そのたびに、「ああ、私はあの理研にいるのだ」と実感して一人で感動することがある。いま、毎日のようにこの門をくぐっているなんて、小学生の頃には考えもしなかっただろう。

小学生のころ、私は福島県いわき市の小名浜に住んでいた。そこは田舎と住宅街が半分ずつあるような町で、住むのに不便はないけれど、小学生が遊ぶには少し物足りない場所だった。海辺近くの町で、週末には父と一緒に海を見に行って、帰りに水族館に行くのが日課だった。両親の転勤がきっかけで仙台に移ってからも、年に1,2回、友人に会いに行きがてら、海を眺

Two years have passed since I became a JRA at RIKEN' s Wako campus. It' s been long enough that I usually don' t pay the sign at the west entrance any mind as I come and go. Sometimes, though, I see the big RIKEN sign, with the institute' s full name in *kanji* characters, as though for the first time and think, "Ah, I' m really here at *that* RIKEN!" Whenever this happens, it hits me that I' ve made it all this way; entering through this gate practically every day is something I never would have imagined back when I was in elementary school.

Back then, I lived in the Onahama neighborhood of Iwaki, a city in Fukushima prefecture. The neighborhood was about half countryside, half residential area, so while there was no inconvenience to living there, it was a bit lacking in places for an elementary schooler to play. Because we lived so near the beach, on the weekends

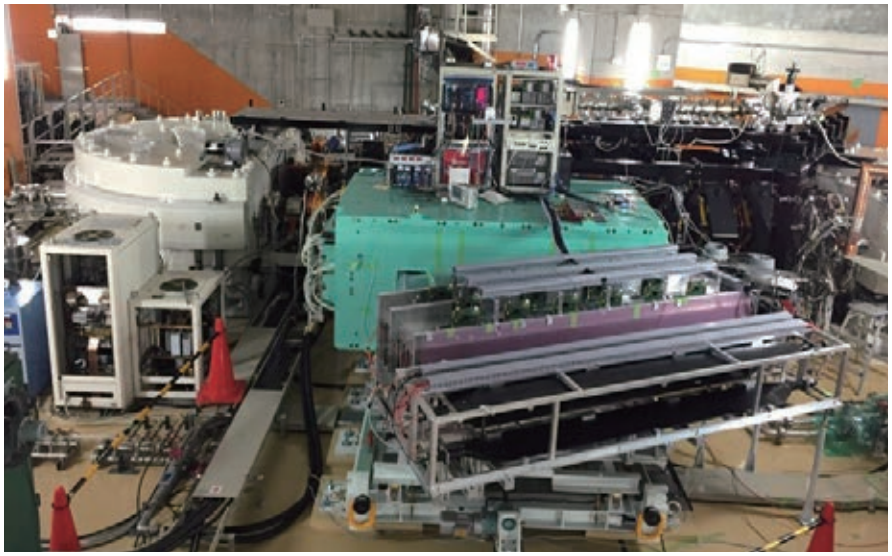

図1：SCRIT電子散乱施設。電子散乱で不安定核の内部構造の解明を目指して研究を行っている。

Fig.1：A photo of SCRIT(Self-Confining RI Ion Target), an electron scattering facility. I am doing research to clarify the internal structure of unstable nuclei through electron scattering.

めるのがいつもの「里帰り」だった。両親の出身の沖縄ほど綺麗な海ではないけれど、それでもいつも懐かしい気持ちにさせてくれる、私にとっては特別な場所だった。

2011年3月。高校1年生の終わり。東日本大震災があってから数週間後、電気が復旧して、バッテリー切れの携帯を充電し、友人から届いた大量の安否確認メールの中から一通の画像メールを開いた。それは、あの頃いつも眺めていた海が故郷を呑み込んだ写真が載った新聞記事だった。あまりの衝撃にその写真を見続けることが出来ず、私は携帯を閉じた。その日から私は故郷の海に行くことができず、10年の月日が流れた。

先日、両親が小名浜に行く用事があったので、私も同行することになった。父が運転する車に乗りながら、窓から流れる風景に視線をやる。懐かしい風景が目に飛び込んでくると、あの頃よく父の車にかかっていた、平成初期の音楽が聞こえてきたような気がした。10年間いけなかったのが嘘のように、ただそれだけで、父と一緒に水族館から帰るあの日の休日を思い起こさせた。私たちは再び故郷の海を眺めに行くことにした。そこは震災復興後、避難所もかねて大きなイオンモールが建設されており、たくさんの人でにぎわってい

my father and I would go to see the ocean, and on the way back we would go to the aquarium. Even after I moved to Sendai when my parents had a job transfer, I usually went on a “homecoming” trip once or twice a year to visit my friends and look at the ocean. The ocean in Onahama isn’ t as picturesque as the beaches of Okinawa, where my parents are from, but to me, it was always comforting and familiar—a special place.

Then: March 2011. The end of my first year in senior high school. A few weeks after the Great East Japan Earthquake, the electricity came back on, and I was able to charge my dead cell phone. Among the many messages from friends asking and answering about my safety and theirs, I opened the one message with an image attached. It was a newspaper article with a picture of my hometown swallowed up by the ocean I had always gazed upon in childhood. I was so stunned that I couldn’ t keep looking at the picture; I shut down my phone instead. From that day onward, I could not bring myself to visit the ocean of my hometown, and so a decade passed.

The other day, my parents had an errand that would bring them to Onahama, and I ended up going with them. As I sat in the car my father drove, I gave the scenery flying by a glance through the window. As familiar sights jumped into my line of vision, I felt as if I could hear the music of the early 90s that my father often played in the car back then. As if the decade I

図2：小名浜の海。故郷の海。晴れているのでいつもよりきれいに見える。

Fig.2: The ocean at Onahama—the ocean of my hometown—looking even more beautiful than usual thanks to the sunny day.

た。私が過ごしていた場所とは少し変わってしまったけれど、それでも変わらない潮の香りが私を包みこんで、「ああ、この町に帰ってきた」と私を安心させた。

あの頃の私に、今の私の話をしたらどう思うのだろう。私もあの頃に比べれば、髪も明るくなったし、なんかチャラくなったね?と当時の私に言われるかもしれない。当時はあまり科学にも興味もなかったから、「リケン、ってなに?」と言われて、一から十まで話さないといけないかもしれない。今、私が不安定核の研究をやっていると話したら、彼女はどんな顔をして私の話を聞くのかな。でも、結構楽しくやってるよ、と笑って言えば、多分納得してくれるんじゃないだろうか。海を眺めるその後ろで、子どもたちの笑い声が聞こえてくる。それが私のその答えを与えてくれたような気がして、私は父の車に戻った。

could not bring myself to visit never existed, what I was reminded of was not the disaster, but driving home from the aquarium with my father on the weekends. As we arrived in Onahama, my parents and I decided to go and gaze upon the ocean of our hometown once again. In the area, an evacuation site and a huge Aeon mall had been built as a part of the disaster recovery efforts, and the places around us were lively with plenty of people. Though the neighborhood had changed a little since the time I had lived there, the scent of the sea that enveloped me was the same, giving me the reassurance that I had indeed come home.

I wonder what my past self, the me who lived in Onahama, would think if I told her about my life now. She might look at my bright dyed hair and say, “You got flashier, eh?” Since I wasn’ t particularly interested in science back then, she would probably also ask, “What’ s ‘RIKEN’ ?” and I might have to explain everything from start to finish. I wonder what kind of look she would give me if I told her that I was currently researching unstable nuclei. But if I smiled and told her that I’ m having a lot of fun, I’ m sure she’ d believe me.

As my adult self, my current self, looked out over the sea, I could hear children laughing just behind me. That, I felt, was what gave me the answer—my child self would be glad for me. With that thought, I walked back to my father’ s car.

図3：父とよくいった水族館のとある水槽。
Fig.3：Fish at the aquarium I often went to with my father.

Scatterbrain, relax! No need to overcomplicate things so frequently!

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I was born and raised in the beautiful country of Tunisia. Back then, my family and I used to watch detective television series every weekend and I clearly remember that my "dream job" was to become a forensic scientist. I was particularly intrigued by genetic testing and how our DNA sequence contained all our inherited biological information that basically made us who we are, or so I thought!

After graduating from high school, I moved to the island of Guadeloupe, my maternal country of origin, to pursue a bachelor's degree in Biochemistry, and that's where I first heard the term "Epigenetics." To make a story short, every cell in a given living organism has essentially the same DNA sequence, or the "genome," which contains all the information about the synthesis of all the proteins that the organism in principle is able to produce. But different cell types use the information encoded by the DNA in different ways, and that is possible due to the existence of various external modifications to the genome that can activate or inactivate genes (fig.1). These modifications, termed epigenome, do not change the DNA sequence, but instead, they affect the physical structure of DNA and how cells "read" genes. It's a means by which the cells "know" the appropriate set of genes or proteins to be expressed in heart cells but not in brain cells, for instance. What I found most interesting was that, unlike the DNA sequence, which is a permanent form of inheritance, epigenetic modifications are physically reversible, which means that this field could potentially open a lot of doors to be creative in the exploration of gene expression control and manipulation. As such, I put my goal of becoming a forensic scientist on hold and decided to further investigate how the genome is structured during development.

I then moved to the city of Montpellier in France for my master's and there, I learned about the additional layers of genome organization. As DNA is in the form of chromatin (a long strand consisting of DNA and attached proteins) most of the time, it adopts a complex 3D structure in the cell's nucleus, much like a bowl of ramen noodles, only the genome is not randomly positioned in the nucleus, but it is packed into organized higher-order chromatin structures (such as chromatin loops, topologically-associated domains (TADs) and nuclear compartments…) (fig.1) that play important functional roles in various biological processes.

This is where my current lab came into the picture. From reading its research articles, I could see that the Hiratani lab tackled very important questions in the field of developmental epigenetics, using state-of-the-art chromosome conformation capture technologies (such as Hi-C, 4C-seq…) and various cell differentiation systems... Furthermore, the lab specializes in the study of genetic information propagation and developed DNA replication profiling techniques such as Repli-seq and more recently, scRepli-seq [1], which assesses DNA replication in single cells! And since there is a strong correlation between DNA replication and 3D genome organization, especially when it comes to nuclear compartments [2] (fig.1), the powerful and unique

perspective resulting from combining both of these approaches inspired me to apply for an internship in this lab. Moreover, I must admit that visiting Japan has always been a dream of mine since childhood, so having the chance to join the Hiratani lab in Kobe was like getting the best of both worlds!

I was initially nervous to integrate my new environment, as my Japanese leaves a lot to be desired, but to my great relief, I found myself surrounded by friendly and helpful senior colleagues, and communication went smoothly. Also, this might seem like a minor detail, but the majority of my lab members were highly intelligent and talented women, who I could look up to and learn from continuously. My supervisor was also very involved and supportive, and placed a great deal of importance on independence, so I had a lot of freedom to choose my research topic, which was a major privilege for me as a student. Basically, the only limit was my imagination! I was also highly impressed by the excellent research facilities in RIKEN and by the abundance of resources, which, I thought, reflected the supportive attitude of Japan towards research. Interactions with other labs in or out of Japan were also frequent, despite the ongoing pandemic, although, if I were to look at this situation optimistically, virtual meetings seem to have facilitated access to various international conferences and exchanges. In a nutshell, this constituted an ideal research atmosphere for me, which is why I decided to continue my journey in RIKEN as a PhD student.

Having said that, in reality, things didn't go as smoothly, far from it… Although I previously prided myself on my adaptability, adjusting to my new work environment was a rough process. I often felt discouraged when comparing myself to my senior coworkers and I lost my confidence to the point of becoming too self-critical and obsessive, which made me fall into a weird cycle of holding myself to impossible standards to inevitably end up discarding these standards altogether later on. To make matters worse, prolonged periods of lockdown led me to experience feelings of isolation and loneliness, and I felt like I lost the remaining structure that I had in my life. And remember "the only limit was my imagination!" that I mentioned before? Well, I underestimated my imagination and that also quickly turned to a choice crisis, so defining my research project took longer than I expected. If I were to describe the situation, I guess I felt a bit "scattered."

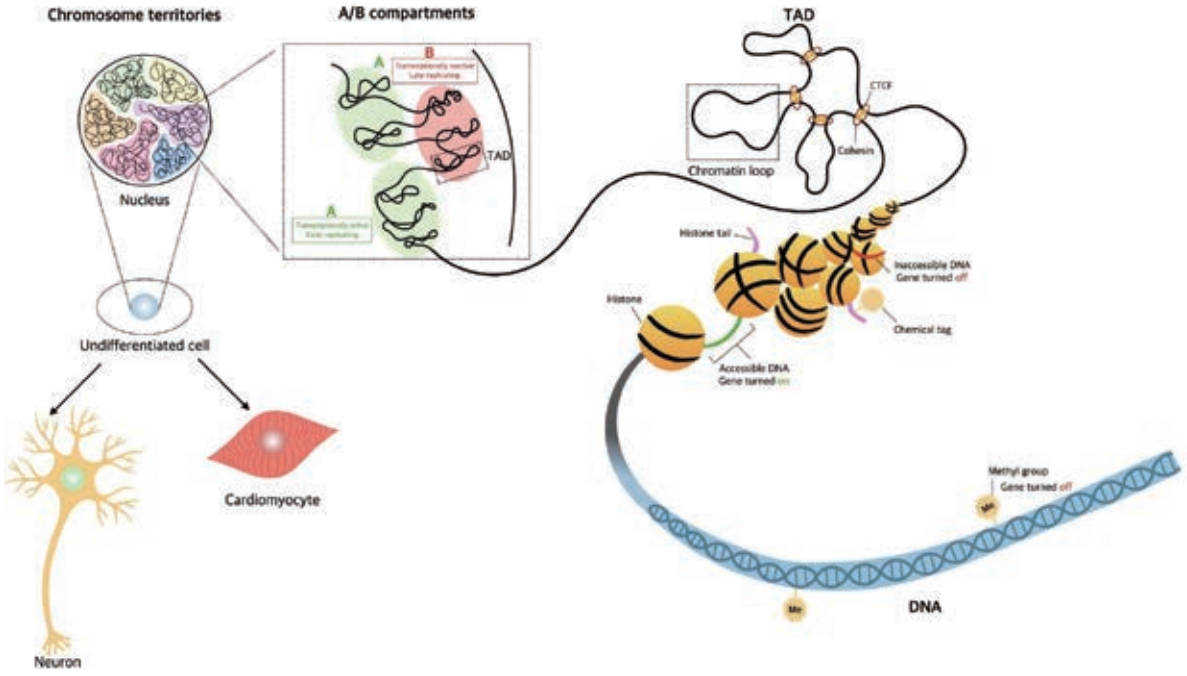

Fig.1：Simplified scheme of the different levels of genome organization.

Even so, I firmly believe that coming to Japan changed my life for the better. I am starting to really enjoy my research and have developed various skills in and out of the lab. I am learning to enjoy the process rather than the final result, I also learned the importance of collaborative effort and asking for help when I need it and I feel myself regaining my confidence as well as my life structure by the day. I also made a few good friends. And of course, I had the chance to visit many other-worldly places in Japan and discover its rich and charming culture (fig. 2,3,4,5). It is interesting to write this essay from what seems to be the middle of my chapter here in RIKEN, but this was a great opportunity for me to self-reflect and more selfishly, to leave a trace for my future self to look back on, and hopefully laugh! But all joking aside, I feel very optimistic about the future as I know that there is always room for growth and improvement.

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Fig. 2 “Funaya” traditional fishing houses in the town of Ine, Kyoto.

Fig. 3 Close up picture of cherry blossoms during springtime.

Fig. 4 Kobe municipal arboretum during fall season.

Fig. 5 Picture with a masked giant Maneki Neko. I hope 2022 will bring good luck and happiness to everyone!

主な受賞

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萩原 将也	萩原生体模倣システム 理研白眉研究チーム	化学とマイクロ・ナノシステム学会 第43回研究会 優秀研究賞	化学とマイクロ・ナノシステム学会	2021/5/18
萩原 将也	萩原生体模倣システム 理研白眉研究チーム	化学とマイクロ・ナノシステム学会 第44回研究会 優秀研究賞	化学とマイクロ・ナノシステム学会	2021/11/11

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田中 聖臣	仁科加速器科学研究センター RI物理研究室	–	–	2021/08/06
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Shi Bai	光量子工学研究センター 先端レーザー加工研究チーム	–	応用物理学会フォトニクス分科会	2021/11/06
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小塚 智沙代	生命医科学研究センター 免疫器官形成研究チーム	第32回分子糖尿病学シンポジウム	分子糖尿病学研究会	2021/12/11
山田 純平	放射光科学研究センター ビームライン開発チーム	井上研究奨励賞	井上科学振興財団	2021/12/13
佐藤 雄貴	創発物性科学研究センター 強相関量子伝導研究チーム	井上研究奨励賞	井上科学振興財団	2022/02/04
福井 徳朗	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	第16回(2022年)日本物理学会若手奨励賞(第23回核理論新人論文賞)	日本物理学会	2022/03/16

Award List

RIKEN Hakubi Team Leader

Awardee	Laboratory	Name of Award	Sponsoring organization	Date of award
Ryusuke Hamazaki	Nonequilibrium Quantum Statistical Mechanics RIKEN Hakubi Research Team	–	The Physical Society of Japan	2021/3/13
Masaya Hagiwara	Human Biomimetic System RIKEN Hakubi Research Team	–	Society for Chemistry and Micro-Nano Systemes	2021/5/18
Masaya Hagiwara	Human Biomimetic System RIKEN Hakubi Research Team	–	Society for Chemistry and Micro-Nano Systemes	2021/11/11

Special Postdoctoral Researcher (SPDR)

Awardee	Laboratory	Name of Award	Sponsoring organization	Date of award
Shun Fujii	RIKEN Center for Advanced Photonics Quantum Optoelectronics Research Team	11th JSPS IKUSHI Prize	Japan Society for Promotion of Science	2020/01/28
Akito Noiri	RIKEN Center for Emergent Matter Science Quantum Functional System Research Group	Funai Information Technology Award for Young Researchers	Funai Foundation	2021/03/12
Minho Kim	RIKEN Nishina Center for Accelerator-Based Science RIKEN BNL Research Center, Experimental Group	Outstanding Paper Award of the Physical Society of Japan	The Physical Society of Japan	2021/03/14
Hiroyuki Ekawa	RIKEN Cluster for Pioneering Research High Energy Nuclear Physics Laboratory	Outstanding Paper Award of the Physical Society of Japan	The Physical Society of Japan	2021/03/14
Yasuaki Takeda	RIKEN SPring-8 Center NMR Science and Development Division	–	JSAP Superconductors Division	2021/03/16
Chang-Tse Hsieh	RIKEN Center for Emergent Matter Science Quantum Matter Theory Research Team	Yushan Young Scholar Award	Ministry of Education in Taiwan	2021/08/01
Masaomi Tanaka	RIKEN Nishina Center for Accelerator-Based Science Radioactive Isotope Physics Laboratory	RIBF Users Group Awards 2021	–	2021/08/06
Yu Suetomi	RIKEN Center for Biosystems Dynamics Research Laboratory for Functional Ultra-High-Field Magnet Technology	2021 Jan Evetts SUST Award 1st prize	–	2021/09/06
Yuya Kubota	RIKEN SPring-8 Center Beam Line Development Team	Young Scientist Presentation Award	The Japan Society of Applied Physics	2021/09/21
Ilya Belopolski	RIKEN Center for Emergent Matter Science Strong Correlation Quantum Transport Research Team	2021 William E. and Diane M. Spicer Young Investigator Award	Stanford Synchrotron Radiation Lightsource (SSRL), SLAC National Accelerator Laboratory	2021/09/24
Shi Bai	RIKEN Center for Advanced Photonics Advanced Laser Processing Research Team	Best Presentation Award in 6th photonics workshop	Photonics division, The Japan Society of Applied Physics	2021/11/06
Takanobu Katoh	RIKEN Center for Biosystems Dynamics Research Laboratory for Organismal Patterning	The EMBO Journal Poster Award	The Molecular Biology Society of Japan	2021/12/03
Chisayo Kozuka	RIKEN Center for Integrative Medical Sciences Laboratory for Developmental Genetics	Research grant	Study Group of Molecular Diabetology	2021/12/11
Jumpei Yamada	RIKEN SPring-8 Center Beam Line Development Team	Inoue Research Award for Young Scientists	Inoue Foundation for Science	2021/12/13
Yuki Sato	RIKEN Center for Emergent Matter Science Strong Correlation Quantum Transport Research Team	Inoue Research Award for Young Scientists	Inoue Foundation for Science	2022/02/04
Tokuro Fukui	RIKEN Nishina Center for Accelerator-Based Science Strangeness Nuclear Physics Laboratory	Young Scientist Award of the Physical Society of Japan 2022	The Physical Society of Japan	2022/03/16

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
土田 新	開拓研究本部 新宅マイクロ流体工学理研白眉研究チーム	マイクロ・ナノ工学部門 2020年度年次大会　若手優秀講演表彰日本物	日本機械学会	2021/2/1
笠置 歩	開拓研究本部 齋藤高エネルギー原子核研究室	日本物理学会論文賞	日本物理学会	2021/3/14
松本 翔汰	開拓研究本部 岩崎中間子科学研究室	日本物理学会論文賞	日本物理学会	2021/3/14
市川 真也	開拓研究本部 岩崎中間子科学研究室	日本物理学会論文賞	日本物理学会	2021/3/14
原 伯徳	脳神経科学研究センター 分子精神遺伝研究チーム	–	日本神経精神薬理学会	2021/3/24
Shuxu Wang	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	日本化学会第 101春季年会学生講演賞	日本化学会	2021/4/28
原 伯徳	脳神経科学研究センター 分子精神遺伝研究チーム	一般演題優秀賞	日本統合失調症学会	2021/4/30
薛 婧怡	生命医科学研究センター 骨関節疾患研究チーム	–	欧州石灰化組織学会	2021/5/19
長田 律	生命医科学研究センター 粘膜システム研究チーム	第58回 日本消化器免疫学会 奨励賞	日本消化器免疫学会	2021/7/3
中村 香織	仁科加速器科学研究センター 加速器基盤研究部	第21回 若手研究者のためのサマースクール ベストポスター賞	未来エネルギー研究協会	2021/8/7
内野 春希	生命医科学研究センター メタボローム研究チーム	若手優秀発表賞	第46回 日本医用マススペクトル学会年会	2021/9/18
両角 諭	生命医科学研究センター メタボローム研究チーム	若手優秀発表賞	第46回 日本医用マススペクトル学会年会	2021/9/18
小林 柚子	開拓研究本部 Kim表面界面科学研究室	分子科学会優秀ポスター賞	分子科学会	2021/9/21
四方 大樹	バイオリソース研究センター 遺伝工学基盤技術室	2020年度日本繁殖生物学会機関誌(JRD)優秀論文賞	日本繁殖生物学会	2021/9/23
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	2021/11/19
藤家 拓大	光量子工学研究センター 先端光学素子開発チーム	第21回日本中性子科学会年会 優秀ポスター賞	日本中性子科学会	2021/12/3
斉藤 大寛	開拓研究本部 岩崎RNAシステム生化学研究室	優秀発表賞	第8回CCR4-NOT研究会	2021/12/7
小林 柚子	開拓研究本部 Kim表面界面科学研究室	表面・界面スペクトロスコピーポスター賞	表面・界面スペクトロスコピー実行委員会	2021/12/11
小林 柚子	開拓研究本部 Kim表面界面科学研究室	日本表面真空学会講演奨励賞スチューデント部門	日本表面真空学会	2022/2/9
笠置 歩	開拓研究本部 齋藤高エネルギー原子核研究室	日本物理学会学生優秀発表賞　素粒子実験領域	日本物理学会	2021/10/9
Yuwei Sun	革新知能統合研究センター 社会における人工知能研究グループ 人工知能セキュリティ・プライバシーチーム	–	–	2021/10

Junior Research Associate (JRA)

Awardee	Laboratory	Name of Award	Sponsoring organization	Date of award
Arata Tsuchida	RIKEN Cluster for Pioneering Research Microfluidics RIKEN Hakubi Research Team	–	The Japan Society of Mechanical Engineering	2021/2/1
Ayumi Kasagi	RIKEN Cluster for Pioneering Research High Energy Nuclear Physics Laboratory	Outstanding Paper Award of the Physical Society of Japan	The Physical Society of Japan	2021/3/14
Shota Matsumoto	RIKEN Cluster for Pioneering Research Meson Science Laboratory	Outstanding Paper Award of the Physical Society of Japan	The Physical Society of Japan	2021/3/14
Masaya Ichikawa	RIKEN Cluster for Pioneering Research Meson Science Laboratory	Outstanding Paper Award of the Physical Society of Japan	The Physical Society of Japan	2021/3/14
Tomonori Hara	RIKEN Center for Brain Science Laboratory for Molecular Psychiatry	JSNP Excellent Presentation Award for CINP 2021 Virtual Congress	The Japanese Society of Neuropsychopharmacology	2021/3/24
Shuxu Wang	RIKEN Center for Emergent Matter Science Emergent Bioinspired Soft Matter Research Team	CSJ Student Presentation Award	The Chemical Society of Japan	2021/4/28
Tomonori Hara	RIKEN Center for Brain Science Laboratory for Molecular Psychiatry	–	Japanese Society of Schizophrenia Research	2021/4/30
Jingyi Xue	RIKEN Center for Integrative Medical Sciences Laboratory for Bone and Joint Diseases	2021 ECTS East-meets-West Award	The European Calcified Tissue Society (ECTS)	2021/5/19
Ritsu Nagata	RIKEN Center for Integrative Medical Sciences Laboratory for Intestinal Ecosystem	Young Scientist Award	The Japanese Society for Mucosal Immunology	2021/7/3
Kaori Nakamura	RIKEN Nishina Center for Accelerator-Based Science Accelerator Group	–	Future Energy Research Association	2021/8/7
Haruiki Uchino	RIKEN Center for Integrative Medical Sciences Laboratory for Metabolomics	The Young Scientist Presentation Award	The 46th Annual Meeting of the Japanese Society for Biomedical Mass Spectrometry	2021/9/18
Satoshi Morozumi	RIKEN Center for Integrative Medical Sciences Laboratory for Metabolomics	The Young Scientist Presentation Award	The 46th Annual Meeting of the Japanese Society for Biomedical Mass Spectrometry	2021/9/18
Yuzu Kobayashi	RIKEN Cluster for Pioneering Research Surface and Interface Science Laboratory	The Best Poster Award of the Japan Society of Molecular Science	the Japan Society of Molecular Science	2021/9/21
Daiki Shikata	RIKEN BioResource Research Center Bioresource Engineering Division	The JRD Outstanding Paper Award in 2020	The Society for Reproduction and Development	2021/9/23
Kenta Sugihara	RIKEN Nishina Center for Accelerator-Based Science Safety Management Group	Symposium on Nuclear Data Poster Presentation Award	Nuclear Data Division, Atomic Energy Society of Japan	2021/11/19
Takuhiro Fujiie	RIKEN Center for Advanced Photonics Ultrahigh Precision Optics Technology Team	The Japanese Society for Neutron Science Poster Award	The Japanese Society for Neutron Science	2021/12/3
Hironori Saito	RIKEN Cluster for Pioneering Research RNA Systems Biochemistry Laboratory	–	The 8th CCR4-NOT meeting	2021/12/7
Yuzu Kobayashi	RIKEN Cluster for Pioneering Research Surface and Interface Science Laboratory	Surface & Interface Spectroscopy 2021 Poster Prize	Surface & Interface Spectroscopy executive committee	2021/12/11
Yuzu Kobayashi	RIKEN Cluster for Pioneering Research Surface and Interface Science Laboratory	The Japan Society of Vacuum and Surface Science Student Award	The Japan Society of Vacuum and Surface Science	2022/2/9
Ayumi Kasagi	RIKEN Cluster for Pioneering Research, High Energy Nuclear Physics Laboratory	Student Presentation Award of the Physical Society of Japane Experimental Particle Physics	The Physical Society of Japan	2021/10/9
Yuwei Sun	RIKEN Center for Advanced Intelligence Project Artificial Intelligence in Society Research Group AI Security and Privacy Team	Outstanding Student Paper Award	2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC)	2021/10

新メンバーの紹介
Newcomers

理研白眉研究チームリーダー
RIKEN Hakubi Team Leader

森本 裕也　(2021年10月着任)
森本超短パルス電子線科学理研白眉研究チーム(CPR)
超短パルス電子線科学理研白眉研究チーム(RAP)
アト秒電子パルスによる超高速イメージングと化学反応制御

Yuya Morimoto　(From October, 2021)
Ultrashort Electron Beam Science RIKEN Hakubi Research Team
Ultrafast imaging and coherent reaction control with shaped electron pulses

桑原 知剛　(2022年4月着任)
桑原量子複雑性解析理研白眉研究チーム(CPR)
量子複雑性解析理研白眉研究チーム(RQC)
量子多体理論を用いた量子計算機の高速アルゴリズムの開発

Tomotaka Kuwahara　(From April, 2022)
Analytical Quantum Complexity RIKEN Hakubi Research Team
Exponential speedup in quantum computing based on quantum many-body theory

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

Ryan Paul Badman
理研CBSートヨタ連携センター 社会価値意思決定連携ユニット
社会集団における確証バイアスとその意思決定のメカニズムの研究

Ryan Paul Badman
RIKEN CBS-Toyota Collaboration Center, Social Value Decision Making Collaboration Unit
Confirmation bias in group decision making with social networks

茶園 亮樹
スピン・アイソスピン研究室
ノックアウト反応で見る原子核の中の原子核

Yoshiki Chazono
Spin isospin Laboratory
Knockout reactions to see a nucleus in nuclei

Hsiao-Yi Chen
計算物質科学研究チーム
Ab initio approach for phase transitions induced by fermion pairing: superconductivity and exciton condensation

Hsiao-Yi Chen
First-Principles Materials Science Research Team
Ab initio approach for phase transitions induced by fermion pairing: superconductivity and exciton condensation

江副 晃洋
植物ゲノム発現研究チーム
直列重複かつ冗長タイプの重複遺伝子(TDR)を対象とした環境ストレス応答・馴化メカニズムの探索

Akihiro Ezoe
Plant Genomic Network Research Team
Exploring new mechanisms of abiotic stress response and acclimation in tandem duplicates with redundancy

藤原 良介
細胞生産研究チーム
微生物を用いたCO2からの高付加価値化合物生産技術の開発

Ryosuke Fujiwara
Cell Factory Research Team
Development of technology for production of chemicals from CO2 using microorganisms

Jose Said Gutierrez Ortega
数理創造プログラム
Understanding the role and the limits of niche conservatism in speciation

Jose Said Gutierrez Ortega
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Understanding the role and the limits of niche conservatism in speciation

樋口 諒
長瀧天体ビッグバン研究室
銀河磁場モデルに基づく最高エネルギー宇宙線起源天体の特定

Ryo Higuchi
Astrophysical Big Bang Laboratory
Estimation of the origin of the UHECRs based on the galactic magnetic field model

今田 みやび
Kim表面界面科学研究室
光合成における光電変換機構の解明を目指した光STMと生体分子蒸着法の融合

Miyabi Imada
Surface and Interface Science Laboratory
Development of Photon-STM combined with biomolecular deposition system for elucidation of photoelectric energy conversion in photosynthesis

伊藤 秀矩
iPS細胞高次特性解析開発チーム
血管内皮幹細胞を標的とした新規治療法探索のための患者特異的iPS細胞を用いたVHL病モデルの構築

Hidenori Ito
iPS Cell Advanced Characterization and Development Team
Development of a disease model for von Hippel-Lindau syndrome using patient-specific iPS cells to identify novel therapeutics targeting for vascular endothelial stem cells.

川室 太希
榎戸極限自然現象理研白眉研究チーム
多波長観測によるブラックホールのスピンの測定とその宇宙論的な解釈

Taiki Kawamuro
Extreme natural phenomena RIKEN Hakubi Research Team
Multi-wavelength observational constraint on black hole spin and its cosmological interpretation

Christy Koji Kelly
数理創造プログラム
Coarse Curvatures and Optimal Transport in Gravity.

Christy Koji Kelly
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Coarse Curvatures and Optimal Transport in Gravity.

写真
Photo

氏名
受入研究室
研究課題

Name
Host Laboratory
Research Topic

小嶋 将平
ゲノム免疫生物学理研白眉研究チーム
Human variation driven by mobile genetic elements: disease association and evolution

Shohei Kojima
Genome Immunobiology RIKEN Hakubi Research Team
Human variation driven by mobile genetic elements: disease association and evolution

Barbara Maria Latacz
Ulmer基本的対称性研究室
Development of an ultra-sensitive axion-like particle detection standard with 100-fold increased sensitivity and ultra large bandwidth.

Barbara Maria Latacz
Fundamental Symmetries Laboratory
Development of an ultra-sensitive axion-like particle detection standard with 100-fold increased sensitivity and ultra large bandwidth.

道下 佳寛
強相関理論研究グループ
散逸とゆらぎに起因した非線形応答の理論構築及び探索

Yoshihiro Michishita
Strong Correlation Theory Research Group
Construction of a theoretical framework for nonlinear responses induced by dissipation and fluctuations

森脇 湧登
数理創造プログラム
共形場理論の構成と変形の数学的研究

Yuto Moriwaki
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Mathematical study of construction and deformation of conformal field theory

向井 寛人
超伝導量子シミュレーション研究チーム
量子計算機を制御する超伝導量子インターフェース回路

Hiroto Mukai
Superconducting Quantum Simulation Research Team
Superconducting quantum interface circuits for control to quantum processors

内藤 智也
数理創造プログラム
拡張された平均場理論を用いた原子核短距離相関の研究

Tomoya Naito
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Study of nuclear short-range correlation by beyond mean-field theory

中村 咲耶
分子生命制御研究チーム
植物遺伝学とケミカルバイオロジーの融合による葉緑体オートファジーの分子理解と応用展開

Sakuya Nakamura
Molecular Bioregulation Research Team
Interdisciplinary approach between plant genetics and chemical biology for understanding molecular mechanism of chloroplast autophagy

西川 浩矢
ソフトマター物性研究チーム
強誘電異方性流体の創発物性機能の理解からさらなる新展開へ

Hiroya Nishikawa
Physicochemical Soft-Matter Research Team
Elucidation of Emergent Matter Function of Ferroelectric Anisotropic Fluids and Opening New Developments

大熊 直生
植物-微生物共生研究開発チーム
大規模フィールドオミクス解析による、葉-根間の栄養バランス調節を司る遺伝子制御ネットワークの解明

Nao Okuma
Plant-Microbe Symbiosis Research and Development Team
Elucidation of gene regulatory networks involved in the modulation of nutrient supply/uptake balance between leaves and roots by large-scale field-omics

小坂元 陽奈
栄養応答研究チーム
チロシンセンシングを基軸とした新規寿命延長機構の解明

Hina Kosakamoto
Laboratory for Nutritional Biology
Novel mechanisms of lifespan extension triggered by sensing tyrosine scarcity

Sofia Lavrenteva
人間認知・学習研究チーム
Elucidating the brain mechanisms of fatigue in motor and cognitive functions using ultra-high-field fMRI

Sofia Lavrenteva
Laboratory for Human Cognition and Learning
Elucidating the brain mechanisms of fatigue in motor and cognitive functions using ultra-high-field fMRI

水田 郁
量子計算理論研究チーム
非平衡物性理論と量子計算理論の協奏:変分量子計算に基づく非平衡状態と非平衡秩序に基づく誤り耐性量子計算の開拓

Kaoru Mizuta
Quantum Information Theory Research Team
Interplay of nonequilibrium condensed matter and quantum computation: Variational quantum computation for nonequilibrium states and Nonequilibrium orders for fault-tolerant quantum computation

六車 共平
田中生体機能合成化学研究室
二重特異性メタロペプチドによる触媒活性制御

Kyohei Muguruma
Biofunctional Synthetic Chemistry Laboratory
Catalytic activity regulation system with a bispecific metallopeptide

村山 陽奈子
強相関物性研究グループ
フラストレート格子上のトポロジカル物性

Hinako Murayama
Strong Correlation Physics Research Group
Topological phases on frustrated lattices

中川 真菜美
齋藤高エネルギー原子核研究室
精密測定による少数系ハイパー核問題の解決

Manami Nakagawa
High Energy Nuclear Physics Laboratory
Solving the puzzles of few-body hypernuclear systems by precise measurements

成塚 政裕
創発物性計測研究チーム
2次元ファンデルワールスヘテロ構造におけるトポロジカル超伝導の実空間探査

Masahiro Naritsuka
Emergent Phenomena Measurement Research Team
Real-space investigation of topological superconductivity in 2D van der Waals heterostructures

大小田 結貴
坂井星・惑星形成研究室
分子組成分布と機械学習を活用した星・惑星系形成の最初期過程の解明

Yuki Okoda
Star and Planet Formation Laboratory
Unraveling the Very Early Stage of Star and Planet Formation with the Aid of Molecular Distributions and Machine Learning

Muhammad Febrian Rachmadi
統合計算脳科学連携部門 脳画像解析開発ユニット
Data-driven Prediction Model using Deep Learning for Estimating the Evolution of White Matter Hyperintensities Associated with Small Vessel Disease and Alzheimer's Disease in Brain MRI

Muhammad Febrian Rachmadi
Integrative Computational Brain Science, Collaboration Division Brain Image Analysis Unit
Data-driven Prediction Model using Deep Learning for Estimating the Evolution of White Matter Hyperintensities Associated with Small Vessel Disease and Alzheimer's Disease in Brain MRI

齋藤 仁志
創発機能高分子研究チーム
分子のねじれを利用するエネルギー変換素子の創出

Hitoshi Saito
Emergent Functional Polymers Research Team
Energy Conversion Devices Using Molecular Twisting

齋藤 祐一
心臓再生研究チーム
新生児マウスにおける低温耐性喪失機構の解明

Yuichi Saito
Laboratory for Heart Regeneration
Understanding the mechanism of the transient cold tolerance in neonatal mice

佐野 岳人
数理創造プログラム
s-不変量のホモトピー的特徴づけとその応用

Taketo Sano
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
A homotopical characterization of the s-invariant and its applications

佐藤 匠哉
多階層生命動態研究チーム
表現型拘束に起因する進化トレードオフ

Takuya Sato
Laboratory for Multiscale Biosystem Dynamics
Evolutionary tradeoff induced by phenotypic restriction

佐藤 一輝
植物免疫研究グループ
新奇植物資源を利用した線虫に対する化学的防御機構の解明

Kazuki Sato
Plant Immunity Research Group
Elucidation of chemical defense mechanism against plant-parasitic nematode using a novel plant resource

Matthias Wilfried Schlachter
統合計算脳科学連携部門 脳画像解析開発ユニット
Multi-modal Image Processing and Data Fusion for Collaborative Brain Image Analysis

Matthias Wilfried Schlachter
Brain Image Analysis Unit Integrative Computational Brain Science Collaboration Division
Multi-modal Image Processing and Data Fusion for Collaborative Brain Image Analysis

塩見 晃史
新宅マイクロ流体工学理研白眉研究チーム
細胞膜の機械特性と遺伝子発現の統合解析による老化の解明

Akifumi Shiomi
Microfluidics RIKEN Hakubi Research Team
Integration of mechanical phenotyping of cell membrane and transcriptome along aging

末永 大輝
ストレンジネス核物理研究室
対称性とトポロジーに基づいたダイクォークの包括的研究

Daiki Suenaga
Strangeness Nuclear Physics Laboratory
Comprehensive study of diquarks from symmetry and topology

高場 圭章
利用技術開拓研究部門 生体機構研究グループ
原子分解能を超え，水素，電荷を精密解析する有機結晶構造化学の構築

Kiyofumi Takaba
Photon Science Research Division, Biostructural Mechanism Group
Sub-atomic resolution organic crystallography by complementary use of cryo-electron microscope, X-ray free electron laser and synchrotron X-ray --- Visualization of hydrogen and charges ---

高橋 一光
機能有機合成化学研究チーム
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Ikko Takahashi
Advanced Organic Synthesis Research Team
Exploring organosodium chemistry with Earth-abundant metal catalysis

竹之内 修
染色体分配研究チーム
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Osamu Takenouchi
Laboratory for Chromosome Segregation
Chromosome dynamics during mitosis regulates chromosome territory and gene expression profile in mouse embryo

竹内 嵩
田中メタマテリアル研究室
「量子」メタマテリアルを用いた高効率全光スイッチの開発

Takashi Takeuchi
Metamaterials Laboratory
Development of a High-Efficiency All-Optical Switch Using "Quantum" Metamaterials

谷口 純一
ヒト器官形成研究チーム
哺乳動物における腎臓間質前駆細胞の発生メカニズム理解と、腎臓発生の試験管内再構成

Junichi Taniguchi
Laboratory for Human Organogenesis
Understanding the developmental mechanism of the renal stromal progenitors in mammals and reconstituting the kidney development in vitro

寺本 了太
応用ゲノム解析技術研究チーム
遺伝性心筋症における統合的オミックス解析に基づいた心不全進展機序の解明

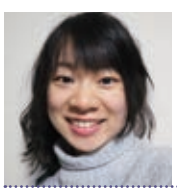
Ryota Teramoto
Laboratory for Comprehensive Genomic Analysis
Investigation for progression mechanism of heart failure using integrative omics approaches to inherited cardiomyopathies

Sameer Thukral
上皮形態形成研究チーム
Cytoplasmic crowding and mechanical transitions during morphogenesis

Sameer Thukral
Laboratory for Epithelial Morphogenesis
Cytoplasmic crowding and mechanical transitions during morphogenesis

東條 広一
汎用基盤技術研究グループ 数理科学チーム
等質空間上の調和q-指数型分布族の分類

Koichi Tojo
Generic Technology Research Group,Mathematical Science Team
Classification of harmonic q-exponential families on homogeneous spaces



Xin Tong
細胞機能研究チーム
Molecular mechanisms of de novo insect gall organogenesis in plants

Xin Tong
Cell Function Research Team
Molecular mechanisms of de novo insect gall organogenesis in plants

鳥本 万貴
Kim表面界面科学研究室
高機能合金触媒の巨視的・微視的反応解析に基づく反応制御因子の解明

Maki Torimoto
Surface and Interface Science Laboratory
Elucidation of reaction control factors based on macroscopic and microscopic analyses of high-performance alloy catalyst

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受入研究室
研究課題

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内田 俊太郎
比較コネクトミクス研究チーム
自律神経中枢による発熱と免疫応答の制御機構の解明

Shuntaro Uchida
Laboratory for Comparative Connectomics
Identification of brain centers controlling thermogenesis and immune responses via the autonomous nervous system

上田 智也
渡邉分子生理学研究室
高分子科学と工学の融合による高感度疾患診断デバイスの開発

Tomoya Ueda
Molecular Physiology Laboratory
Development of a high-sensitive disease diagnostic device by integrating polymer science and engineering

上森 寛元
触知覚生理学研究チーム
知覚を成立させる皮質広域神経活動に果たすハブニューロンの役割の探索

Hiroyuki Uwamori
Laboratory for Haptic Perception and Cognitive Physiology
The role of hub neurons in wide-field cortical neural activity underlying perception

Raja Kumar Vadivelu
萩原生体模倣システム理研白眉研究チーム
Directing Human Induced Pluripotent Stem Cell-Derived Embryonic-like Organoid with 3D Biomimetic Hydrogel Mechanical Microenvironment for Neural Induction

Raja Kumar Vadivelu
Human biomimetic system RIKEN Hakubi Research Team
Directing Human Induced Pluripotent Stem Cell-Derived Embryonic-like Organoid with 3D Biomimetic Hydrogel Mechanical Microenvironment for Neural Induction

Chentao Wen
発生動態研究チーム
Developing a method for extracting neural cascades from the whole brain activity of the nematode C. elegans

Chentao Wen
Laboratory for Developmental Dynamics
Developing a method for extracting neural cascades from the whole brain activity of the nematode C. elegans

Alexandra Janina Wolf
目的指向基盤技術研究グループ 認知行動支援技術チーム
Investigating Information Processing Strategies among Normal Ageing and Mild Cognitive Impairment Populations: An Eye-Movement Study

Alexandra Janina Wolf
Goal-Oriented Technology Research Group, Cognitive Behavioral Assistive Technology Team
Investigating Information Processing Strategies among Normal Ageing and Mild Cognitive Impairment Populations: An Eye-Movement Study

Geoffrey Wolfer
汎用基盤技術研究グループ 近似ベイズ推論チーム
Going beyond worst-case mixing time of Markov chains, and improving Markov Chain Monte Carlo algorithms.

Geoffrey Wolfer
Generic Technology Research Group, Approximate Bayesian Inference Team
Going beyond worst-case mixing time of Markov chains, and improving Markov Chain Monte Carlo algorithms.

山田 智史
榎戸極限自然現象理研白眉研究チーム
超高空間分解能の赤外線観測と多波長観測による合体銀河が宇宙進化に果たした役割の解明

Satoshi Yamada
Extreme natural phenomena RIKEN Hakubi Research Team
Role of Mergers in Evolution of Galaxies and Supermassive Black Holes Revealed with Ultrahigh-spatial-resolution Infrared and Multiwavelength Observations

山口 豪太
XFEL研究開発部門 ビームライン研究開発グループ ビームライン開発チーム
超大型ウォルターミラーの開発とX線顕微鏡・望遠鏡への応用

Gota Yamaguchi
XFEL Research and Development Division, Beam Line Research and Development Group, Beam Line Development Team
Development of Very Large Wolter Mirrors and Their Applications to X-ray Microscopes and Telescopes

山下 規央
転写制御構造生物学研究チーム
B型肝炎ウイルスの感染複製機構解明に関する構造生物学研究

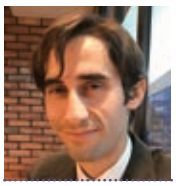
Mio Yamashita
Laboratory for Transcription Structural Biology
Structural and functional analysis of hepatitis B virus

厳 正輝
強相関量子構造研究チーム
磁性絶縁体における3次元トポロジカル磁気秩序の探索

Zhenghui Yan
Strong Correlation Quantum Structure Research Team
Search for a three-dimensional topological magnetic order in magnetic insulators

柳瀬 友朗
富田数理気候学研究室
理想的気候条件下における大規模雲群の自己組織化と多階層構造

Tomoro Yanase
Mathematical Climatology Laboratory
Self-organization and multiscale hierarchical structure of large-scale cloud cluster under idealized climate conditions



Fehmi Sami Yasin
電子状態マイクロスコピー研究チーム
Direct detection of emergent electromagnetic inductance via real-space electron phase measurement.

Fehmi Sami Yasin
Electronic States Microscopy Research Team
Direct detection of emergent electromagnetic inductance via real-space electron phase measurement.

吉田 大輔
ストレンジネス核物理研究室
中間相クラスターにおける陽電子束縛及び陽電子対消滅機構の第一原理理論予見

Daisuke Yoshida
Strangeness Nuclear Physics Laboratory
First-principles study for predictions of positron binding and positron annihilation mechanisms for intermediate phase clusters

吉川 翔
数理創造プログラム
三次元アラケロフ多様体の極小モデル理論とその応用

Shou Yoshikawa
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Minimal model theory for Arakerov threefolds and its applications

XiaoXiao Zhang
強相関理論研究グループ
Ultrafast optical excitation in charge and spin density wave and related systems

XiaoXiao Zhang
Strong Correlation Theory Research Group
Ultrafast optical excitation in charge and spin density wave and related systems

Cristina Risueño Segovia
脳機能動態学連携研究チーム
Neocortical circuits and physiological states underlying the volitional control of the vocal output in marmoset monkeys

Cristina Risueño Segovia
Brain Functional Dynamics Collaboration Laboratory
Neocortical circuits and physiological states underlying the volitional control of the vocal output in marmoset monkeys

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

網谷 達也
古崎物性理論研究室
ローレンツ不変な系における輸送現象とその物性への応用

Tatsuya Amitani
Condensed Matter Theory Laboratory
Transport phenomena in Lorentz invariant systems and its application to condensed matter systems

粟津 利邦
細胞極性統御研究チーム
無限にフォトブリーチングの影響を受けない1分子蛍光イメージング法の実現

Toshikuni Awazu
Laboratory for Cell Polarity Regulation
Single molecule fluorescence imaging for infinitely long time without bleaching.

Younghwa Cho
複雑現象統一的解法研究チーム
スーパーコンピュータ「富岳」による航空用エンジン燃焼器の開発を実現する数値シミュレーションフレームワークの研究開発と実証

Younghwa Cho
Complex Phenomena Unified Simulation Research Team
Research and validation of a framework for numerical simulation that realizes the development of an aero-engine combustor using the supercomputer Fugaku

Kaiyuan Deng
メタボローム研究チーム
Lipid-derived electrophile (LDE) によるマクロファージ貪食能の制御機構の解析

Kaiyuan Deng
Laboratory for Metabolomics
Analysis of regulation mechanism of macrophage phagocytosis by Lipid-derived metabolites (LDE)

藤原 風輝
植物-微生物共生研究開発チーム
農業生態系を対象としたマルチオミクス解析に関する研究

Fuki Fujiwara
Plant-Microbe Symbiosis Research and Development Team
Research on Multi-omics Analysis for Agroecosystem

福田 雅之
触知覚生理学研究チーム
頭頂皮質における情報表現・情報分配を規定する原則の解明

Masayuki Fukuda
Laboratory for Haptic Perception and Cognitive Physiology
Elucidation of information representation and wiring in the parietal cortex.

Wanshui Gan
空間情報学ユニット
Large scene 3D representation from drone view

Wanshui Gan
Geoinformatics Unit
Large scene 3D representation from drone view

Yixin Guo
数理創造プログラム
The derivation and application of a microscopic energy density functional in nuclear fission

Yixin Guo
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
The derivation and application of a microscopic energy density functional in nuclear fission

原山 朔弥
東原子分子物理研究室
極低温静電型イオン蓄積リングを用いた分子イオンの振動回転状態冷却過程の解明

Sakumi Harayama
Atomic, Molecular & Optical Physics Laboratory
Evaluation of rotational-vibrational radiative cooling of molecular ions in a cryogenic electrostatic ion storage ring

端山 美央
免疫恒常性研究チーム
自己免疫疾患発症を抑制する胸腺上皮幹・前駆細胞の同定

Mio Hayama
Laboratory for Immune Homeostasis
Identification of thymic epithelial stem/progenitor cells that suppress the development of autoimmune diseases

平井 公也
理研ーIFOMがんゲノミクス連携研究チーム
エンハンサー解析を用いた大腸癌リンパ節転移のメカニズムに関する研究

Tomoya Hirai
RIKEN-IFOM Joint Laboratory for Cancer Genomics
Research on the mechanism of lymph node metastasis in colorectal cancer using enhancer analysis

Wan-Ting Hong
脳エピトランスクリプトミクス研究チーム
Post-transcriptional regulation of synaptic plasticity in neurodevelopmental disorders using iPSC-derived brain organoids

Wan-Ting Hong
Laboratory for Neuroepitranscriptomics
Post-transcriptional regulation of synaptic plasticity in neurodevelopmental disorders using iPSC-derived brain organoids

Shengqun Hou
脳エピトランスクリプトミクス研究チーム
The regulation of m6A modification in synaptic plasticity

Shengqun Hou
Laboratory for Neuroepitranscriptomics
The regulation of m6A modification in synaptic plasticity

Kun-Lin Hsieh
学習・記憶神経回路研究チーム
Encoding of aversive information in the cuneiform nucleus

Kun-Lin Hsieh
Laboratory for Neural Circuitry of Learning and Memory
Encoding of aversive information in the cuneiform nucleus

伊藤 歌那
数理科学チーム
アフィン・リー代数とRogers-Ramanujan型恒等式の関係性の研究

Kana Ito
Mathematical Science Team
The research on the relation between affine Lie algebras and Rogers-Ramanujan type identities

岩﨑 達朗
皮膚恒常性研究チーム
皮膚表皮角層におけるpH恒常性維持機構の解明

Tatsuro Iwasaki
Laboratory for Skin Homeostasis
Determining the mechanism of maintenance of pH homeostasis in the stratum corneum

金子 舜
生体分子動的構造研究チーム
μオピオイド受容体のアロステリックモジュレーターによる活性化機構の解明

Shun Kaneko
Laboratory for Dynamic Structure of Biomolecules
Activation mechanism of the μ-opioid receptor by an allosteric modulator

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氏名
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研究課題

Name
Host Laboratory
Research Topic

加瀬田 晃大
グリア-神経回路動態研究チーム
アストロサイトを介したドーパミンシグナルと適応行動の制御

Kodai Kaseda
Laboratory for Glia-Neuron Circuit Dynamics
Astrocyte regulation of dopamine signaling and adaptive behavior

勝又 海
医用機械知能チーム
データの不完全性を包括的に扱う画像生成モデルの学習枠組みの研究

Kai Katsumata
Machine Intelligence for Medical Engineering Team
Image generation from miscellaneous data

川崎 歩
分子精神病理研究チーム
真の統合失調症責任遺伝子の解析による病態解明

Ayumu Kawasaki
Laboratory for Molecular Pathology of Psychiatric Disorders
Elucidation of pathology by analysis of genuine schizophrenia responsible genes

熊倉 大騎
数理創造プログラム
普遍的な宿主ーウイルス共進化メカニズム理論の基盤構築

Daiki Kumakura
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Toward a mechanistic elucidation of host-virus coevolution: a theoretical approach

来馬 道生
分子生命制御研究チーム
トリプトファンを基本骨格とする根寄生植物発芽誘導分子の開発

Michio Kuruma
Molecular Bioregulation Research Team
Development of Tryptophan-based seed germination inducers for root parasitic plants

Muhang Li
神経回路・行動生理学研究チーム
The role of hippocampal-thalamic-cortical coordination in memory consolidation

Muhang Li
Laboratory for Circuit and Behavioral Physiology
The role of hippocampal-thalamic-cortical coordination in memory consolidation

丸山 梨乃
細胞機能変換技術研究チーム
家族性血小板異常症から急性骨髄性白血病への進展メカニズムの解明

Rino Maruyama
Laboratory for Cellular Function Conversion Technology
Elucidation of the mechanism of progression from familial platelet disorder to acute myeloid leukemia

松村 理久
高速RIデータチーム
逆運動学法を用いた陽子・重陽子入射反応による同位体生成断面積から評価する中性子入射断面積

Riku Matsumura
Fast RI Data Team
Neutron-induced cross sections evaluated from isotopic-production cross sections via proton- and deuteron-induced reactions using inverse kinematics method

森川 源大
動的恒常性研究チーム
新規細胞死エレボーシスの機構解明

Motohiro Morikawa
Laboratory for Homeodynamics
Exploration of erebosis, a novel cell death pathway

森田 慶一
数理創造プログラム
種間の性的相互作用が多種共存に及ぼす影響を解明するための理論・定量解析の枠組み構築

Keiichi Morita
RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program
Developing a theoretical and quantitative framework to reveal the effects of sexual interactions between species on multi-species coexistence

村山 明希
タンパク質構造疾患研究チーム
非典型的翻訳による神経変性疾患の発症機序解明

Aki Murayama
Laboratory for Protein Conformation Diseases
Elucidation of the pathogenesis of neurodegenerative diseases caused by atypical translation

中村 能之
多階層生命動態研究チーム
遺伝子制御モデルにおける細胞分化の階層性と不可逆性

Yoshiyuki Nakamura
Laboratory for Multiscale Biosystem Dynamics
Hierarchy and irreversibility of cell differentiation in gene regulatory model

中下 輝士
核化学研究チーム
レーザーフランシウム原子分光実験による相対論効果の研究

Teruhito Nakashita
Nuclear Chemistry Research Team
Study of relativistic effect by laser francium atomic spectroscopy experiment

Ocana Adel Noronha
神経変性疾患連携研究チーム
Identification of novel immuno-therapeutic agent for Parkinson's Disease

Ocana Adel Noronha
Neurodegenerative Disorders Collaboration Laboratory
Identification of novel immuno-therapeutic agent for Parkinson's Disease

大井 綾乃
栄養応答研究チーム
排出器官の炎症が駆動する老化促進機構の解明

Ayano Oi
Laboratory for Nutritional Biology
The investigation of systemic ageing driven by inflammation of excretory organ

大川 裕貴
がんゲノム研究チーム
網羅的ゲノム解析による膵癌術前補助療法の影響の解明
胆道癌における遺伝性腫瘍関連遺伝子バリアントと相同組換え欠損についての解析

Yuki Okawa
Laboratory for Cancer Genomics
Genome Transcriptomic Analysis to Elucidate the Effects of Neoadjuvant Therapy for Pancreatic Ductal Adenocarcinoma
Prevalence of Hereditary Cancer Variants and Homologous Recombination Deficiency in Biliary Tract Cancer

太田 史恵
循環器ゲノミクス・インフォマティクス研究チーム
川崎病の易罹患性に顕著な違いが見られた一卵性双生児例の遺伝学的検討

Fumie Ota
Laboratory for Cardiovascular Genomics and Informatics
Genetic study of monozygotic twins who showed remarkable difference in Kawasaki disease susceptibility

Mahmoud Hassan Mahmoud Othman
創発生体工学材料研究チーム
Synthesis of thermoresponsive bonding cleavage system using physicochemical properties of polymer materials

Mahmoud Hassan Mahmoud Othman
Emergent Bioengineering Materials Research Team
Synthesis of thermoresponsive bonding cleavage system using physicochemical properties of polymer materials

坂本 優太
細胞機能変換技術研究チーム
転写因子ZEB1によるEMTの領域的制御の分子メカニズムの解明

Yuta Sakamoto
Laboratory for Cellular Function Conversion Technology
Identification of the molecular mechanism of regional regulation of EMT by the transcription factor ZEB1

Linfeng Sui
テンソル学習チーム
Tensor methods to biomedical data analysis and tensor networks for machine learning with respect to interpretability.

Linfeng Sui
Tensor Learning Team
Tensor methods to biomedical data analysis and tensor networks for machine learning with respect to interpretability.

高原 規行
強相関界面研究グループ
SrVO3/EuTiO3超格子のEu4fスピン状態による金属絶縁体制御

Noriyuki Takahara
Strong Correlation Interface Research Group
Control of metal insulator transition in SrVO3/EuTiO3 superlattice by Eu 4f spin states

竹田 航太
データ同化研究チーム
トポロジカルデータ同化理論の構築

Kota Takeda
Data Assimilation Research Team
An establishment of theory on Topological Data Assimilation

武重 祥子
情報処理技術チーム
高周波デジタル波形処理システムによる不安定原子核散乱の網羅的測定～元素合成における核反応の理解へ向けて

Shoko Takeshige
Computing and Network Team
Comprehensive measurement of unstable-nuclear scattering with high frequency digital waveform processing system ~toward understanding of nuclear reaction in nucleosynthesis

田中 祐太朗
量子多体ダイナミクス研究ユニット
三角光格子中でのフラストレートスピン系の量子シミュレーション

Yutaro Tanaka
Quantum Many-Body Dynamics Research Unit
Quantum simulation of frustrated spin systems in a triangular optical lattice

辻 崚太郎
上坂スピン・アイソスピン研究室
核物質のクラスター発生機構の解明に向けたCa同位体におけるノックアウト反応の研究

Ryotaro Tsuji
Spin isospin Laboratory
Study of cluster formation in nuclear matter via p-induced cluster knockout reactions of Ca isotopes

鶴谷 雅文
比較コネクトミクス研究チーム
ASDモデルマウスにおけるオキシトシン神経の神経回路と機能

Masafumi Tsurutani
Laboratory for Comparative Connectomics
Neural circuit organization and functions of oxytocin neurons in a mouse ASD model

若林 大貴
杉田理論分子科学研究室
分子動力学計算を用いたグルタミン酸脱水素酵素における補酵素結合経路および酵素反応機構の解明

Taiki Wakabayashi
Theoretical Molecular Science Laboratory
Elucidation of the cofactor binding pathway and enzymatic reaction mechanism in glutamate dehydrogenase by molecular dynamics simulations

舒 許峰
トランスクリプトーム研究チーム
Using newly developed RADIP-seq technology to find functional lncRNAs for mouse embryonic stem cells identity.

Xufeng Shu
Laboratory for Transcriptome Technology
Using newly developed RADIP-seq technology to find functional lncRNAs for mouse embryonic stem cells identity.

孫 正寛
形態形成シグナル研究チーム
ショウジョウバエ味覚受容器官形成におけるOsiris遺伝子ファミリーの機能解析

Zhengkuan Sun
Laboratory for Morphogenetic Signaling
Analysis of the Osiris gene functions in Drosophila gustatory sensillum morphogenesis

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高岡 美渚季
システム分子行動学研究チーム
ストレスと嗅覚機能

Misaki Takaoka
Laboratory for Systems Molecular Ethology
Stress and Olfactory System

武田 朋志
玉川高エネルギー宇宙物理研究室
超小型X線衛星を用いた長期多波長観測による強重力天体への質量降着機構の解明

Tomoshi Takeda
High Energy Astrophysics Laboratory
Mass accretion mechanism onto strong gravitational objects studied by long-term multi-wavelength observations with a micro X-ray satellite

田中 志歩
思考・実行機能研究チーム
自己内面化された第三者からの評価が向社会行動に及ぼす作用の行動学的検証とfMRIによる神経基盤の解明

Shiho Tanaka
Laboratory for Imagination and Executive Functions
Neural Foundation of Internalized Public Evaluation for Prosocial Action: fMRI and Behavioral Investigation

寺内 優
メタボローム研究チーム
胚の発生・分化における脂質分子種の時空間的役割の解明

Yu Terauchi
Laboratory for Metabolomics
Elucidation of the temporal and spatial roles of lipid molecular species in embryonic development and differentiation.

辻 竜太朗
連続系場の理論研究チーム
格子場の理論に基づく核子構造の第一原理精密計算および原子核物理への展開

Ryutaro Tsuji
Field Theory Research Team
Ab initio calculation of nucleon structure with lattice field theory and its application toward the nuclear physics

臼田 ゆかり
ヒト器官形成研究チーム
腎臓オルガノイドを用いた糸球体自己免疫反応の再現とネフローゼ症候群モデルの作成

Yukari Usuda
Laboratory for Human Organogenesis
Reproduction of glomerular autoimmune response using kidney organoids and creation of a nephrotic syndrome disease model

渡邊 峻
iPS細胞高次特性解析開発チーム
患者由来iPS細胞を用いた胆道閉鎖症の病態解明と治療法開発

Shun Watanabe
iPS Cell Advanced Characterization and Development Team
Elucidation of pathogenesis and development of treatment for biliary atresia using patient-derived iPS cells

写真
Photo

氏名
受入研究室
研究課題

Name
Host Laboratory
Research Topic

渡邉 大介
細胞シグナル動態研究チーム
1分子イメージングを用いた薬剤スクリーニング法の開発

Daisuke Watanabe
Laboratory for Cell Signaling Dynamics
Establishment of a drug screening platform using single molecule imaging

吉野 宗一郎
ゲノム解析応用研究チーム
発育性股関節形成不全症の病因遺伝子の研究

Soichiro Yoshino
Laboratory for Statistical and Translational Genetics
Research on the etiological genes of the developmental dysplasia of the hip

米原 克磨
植物免疫研究グループ
植物病原糸状菌感染の分子メカニズム解明に向けた病原性因子の同定と機能解析

Katsuma Yonehara
Plant Immunity Research Group
Identification and functional analysis of virulence factors to elucidate the molecular mechanism of infection with phytopathogenic fungi

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

Supparat Charoenphon
中間子科学研究室
計算科学を用いた強相関電子系の電子状態の解明

Supparat Charoenphon
Meson Science Laboratory
Density Functional Theory Studies with μSR on Spin States in Pyrochlore Systems

Quynh Thi Nhu Do
植物ゲノム発現研究チーム
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Quynh Thi Nhu Do
Plant Genomic Network Research Team
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Mohamed Said Ramadan Elafify
伊藤ナノ医工学研究室
高アスペクト比のペプチド・キャリアによるドラッグ・デリバリー・システム

Mohamed Said Ramadan Elafify
Nano Medical Engineering Laboratory
Drug delivery system with peptide carrier having a high aspect ratio

Yiming Gao
齋藤高エネルギー原子核研究室
ドイツGSIでのWASA-FRS実験に対する機械学習解析アルゴリズムの開発とK+中間子同時測定によるハイパー核生成の研究

Yiming Gao
High Energy Nuclear Physics Laboratory
Development of analysis algorithms with machine learning for the WASA-FRS experiment at GSI and studies of hypernuclear productions with coincident measurements of associated K+-mesons

Yan He
齋藤高エネルギー原子核研究室
HIAF加速器施設での将来ハイパー核実験に向けたダブルストレンジネスハイパー核の研究

Yan He
High Energy Nuclear Physics Laboratory
Studies of double-strangeness hypernuclei towards the future experiment at HIAF

Muhammad Alief Irham
創発デバイス研究チーム
高性能エネルギー貯蔵およびハーベスティングデバイスのための量子ドットの開発

Muhammad Alief Irham
Emergent Device Research Team
Development of Quantum Dots for High-performances Energy Storage and Harvesting Devices

Yutian Li
スピン・アイソスピン研究室
ボロミアン核 11Liの励起コア成分の研究

Yutian Li
Spin Isospin Laboratory
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Anita Eka Putri
中間子科学研究室
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Anita Eka Putri
Meson Science Laboratory
Quantum Size Effect on the Superconducting state of La-Based Nano-Size High-TC Cuprate

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グリーンナノ触媒研究チーム
固体触媒の開発と有機合成反応への応用

Eman Soliman Hassan Elsayed Soliman
Green Nanocatalysis Research Team
Development of solid catalysts and their application to synthetic organic reactions

Yi-Hsien Wu
量子機能システム研究グループ
シリコン量子ドットスピン量子ビットを用いた最適パルスによる高忠実度安定な量子ゲートの実装

Yi-Hsien Wu
Quantum Functional System Research Group
Implementing high-fidelity and robust quantum gates in Si-based quantum-dot spin qubits by optimal pulses

Sandeep Yadav
田原分子分光研究室
二次元蛍光寿命相関分光法を用いた様々な環境におけるDNA/RNA/タンパク質のコンフォメーションダイナミクスの研究

Sandeep Yadav
Molecular Spectroscopy Laboratory
Conformational Dynamics of DNA/RNA/Protein in various environments using Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy

写真
Photo

氏名
受入研究室
研究課題

Name
Host Laboratory
Research Topic

Jinn Ming Yap

RI物理研究室
理研のMRTOFを使用した希土類元素の質量測定

Jinn Ming Yap

Radioactive Isotope Physics Laboratory
Nuclear Mass Measurement of Rare Earth Region using MRTOF at RIKEN

Ya Fen Yong

天然物生合成研究ユニット
放線菌における天然物の生合成に関する研究

Ya Fen Yong

Natural Product Biosynthesis Research Unit
Study on biosynthesis of natural products in actinomycetes

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。

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.

編集後記

若手研News32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。

From the editors

Thank you for reading the *Young Researcher News* No.32. This annual magazine introduces the new members participating in RIKEN’s programs for junior scientists and the research activities conducted by the members, and is distributed to all the members and alumni of the programs.

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

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

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

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若手研 NEWS　2022 年号（第 32 号）
2022 年 3 月 31 日発行
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Young Researcher NEWS 2022 Issue No.32
March 31, 2022
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RIKEN 2021-058