



2nd ExCELLS Retreat for Young Scientists

February 7 & 8, 2020
Nishiura Onsen Hotel Tatsuki

Organizers

Masashi Tanimoto (Higashijima Lab), Hiroki Watanabe (Uchihashi Lab), Yuri Miyazaki (Fukata Lab), Sayaka Oda (Nishida Lab), Masataka Yamauchi (Okumura Lab), Saeko Yanaka (Kato Lab), Shigenori Nonaka, Yasuhiro Go
ExCELLS office members: Tomoyo Isogai, Midori Hachisuka, Tomo Okada

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For Your Information

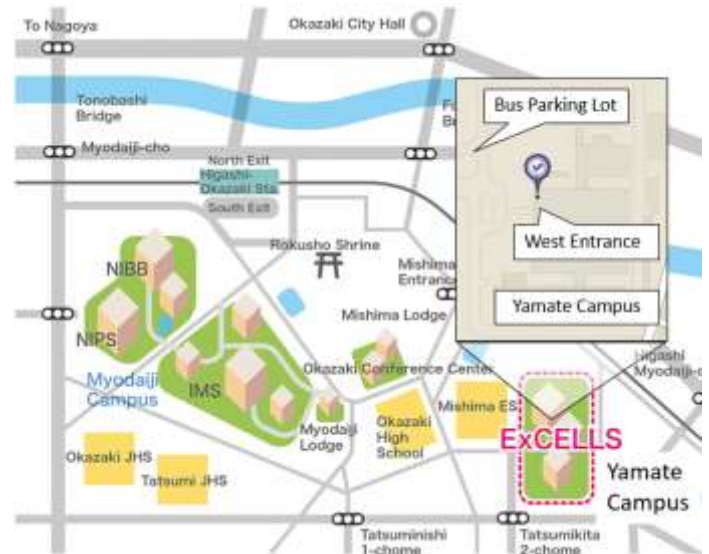
<Updated>

- Access
- By bus

Free bus service is available at the West Entrance of the Yamate Campus (see Map). The bus is scheduled to depart at **11:00 AM** on Day 1, Friday, February 7. (Prepare and bring your lunch. Can eat in the bus or at the hotel meeting room.)

- By other transportation

Maps are available at the end of this pamphlet.



- Lunch on Day 1 would not be provided. Please prepare and bring your lunch. You can have the lunch during the trip or at the hotel meeting room.
- Photos taken during the retreat will be used for publicity by ExCELLS. If you have any problem, please let the organizers know.
- Contents about Workshop “Design your extraterrestrial life: Conquer the planet “ExCELLS”!” will be announced in a separate PDF file and onsite.
- A shared room key will be provided for each room at the conference room after 18:00. Please return the room key at the conference room before 9:00.
- Public bath is available until 24:30 and from 5:00 in the morning.
- Available in-room amenities: bathrobe/yukata, towel, bath towel, toothbrush, body soap, shampoo, hair conditioner, razor, hair dryer
- Venue: Nishiura Onsen Hotel Tatsuki (Gamagori, Aichi, <https://www.tatsuki-aoi.com/en/>, <http://www.nishiuraonsen.com/en/spa/tatsuki/>)
- Language: English (Okay to use Japanese for Q&A and Workshop)
- Invited talks

Please check in your PC during a break immediately before your session starts (or before Opening Remark for speakers of the Invited Talk Session 1). Talks are 25 min + 5 min Q&A. Talks and slides should be in English.

- World Poster (details have been announced by e-mail from Masashi Tanimoto on Jan. 17th) With your World Poster, give a short (5-8 min) presentation to 7 or 8 group members on your table one after another in English. Group members will be shuffled for each Round to communicate as many audience as possible. The best 3 presenters will be awarded by ballot.

Upload your poster data in advance to a web site (<https://forms.gle/FnnK58YhoMu25T2d6>). Your poster will be printed, prepared and waiting you at the retreat.

● Guidelines and policies on presented contents

Scientific content may not be shared outside the retreat (including through tweets, websites, and blogs) without the permission of the presenter. Recording presentations by electronic or photographic means is not allowed unless you have obtained the permission of the presenter to do so.

● Payment (details have been announced by e-mail from Midori Hachisuka on Jan. 20th)

Attendees need to pay the fee for hotel room and drink. The fee will be collected before the retreat.

Hotel room fee: Free (Attendees need to pay, but the same amount will be reimbursed later)

Drink fee: Students/PostDocs/Invited Speakers: free, Assistant Prof.: 2000 JPY, Associate/Full Prof.: 3000 JPY

Contact: Masashi Tanimoto, tanimoto@nibb.ac.jp

Schedule Day 1, Friday, February 7

[11:00- Bus service from ExCELLS to the hotel (see Map on page 2)]

-12:50 Please take a seat on your table (see “Round 1” on Page 15) at the meeting room

12:50-13:00	Welcome & Opening Remarks (Koichi Kato) Invited Talk Session 1
13:00-13:30	Keiichi Inoue (Chair: Saeko Yanaka) The Institute for Solid State Physics, The University of Tokyo “Photobiology and Photochemistry of Microbial Rhodopsins”
13:30-14:00	Itaru Imayoshi (Chair: Masashi Tanimoto) Graduate School of Biostudies, Kyoto University “Regulatory mechanism of neural stem cells revealed by optical manipulation of gene expressions”
14:00-14:15	Break
14:15-15:15	World Poster Round 1 Invited Talk Session 2
15:15-15:45	Tsuyoshi Terakawa (Chair: Masataka Yamauchi) Department of Biophysics, Kyoto University “DNA curtain assays and molecular dynamics simulations to elucidate molecular mechanisms of DNA transactions”
15:45-16:00	Group Photo & Break Workshop “Design your extraterrestrial life: Conquer the planet “ExCELLS”!
16:00-16:10	Introduction (Organizers)
16:10-16:40	Invited Talk Ken Takai Institute for Extra-cutting-edge Science and Technology Avant-garde Research (X- star) Japan Agency for Marine-Earth Science and Technology (JAMSTEC) “Dark energy ecosystem in the present and past terrestrial and extraterrestrial oceans”
16:40-18:00	Workshop Group Discussion
18:00-20:00	Dinner & Discussion
20:00-21:00	Workshop Presentation
21:00-	Social Hour (beer, (rice) wine, cocktail, soft drink & snacks are available)

Day 2, Saturday, February 8

07:00-09:00	Breakfast (Buffet style) & Discussion
09:00-10:00	World Poster Round 2
10:00-10:15	Break
	Invited Talk Session 3
10:15-10:45	Yusuke Hirabayashi (Chair: Yuri Miyazaki) Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo “Exploring the regulation of ER-mitochondria contact and its physiological roles”
10:45-11:15	Sa Kan Yoo (Chair: Sayaka Oda) RIKEN “How do animals deal with disruption of homeostasis?”
11:15-11:30	Break
11:30-12:30	World Poster Round 3
12:30-13:30	Lunch & Discussion
13:30-14:00	Poster Award, Closing Remarks, Group Photo
[14:00-	Bus service from the hotel to ExCELLS]

連絡事項

● 集合場所

- ・送迎バスをご利用の方（3 ページ目の地図をご参照ください）

2月7日（金）11:00 山手3号館西側玄関から出発予定（昼食は各自で用意。車中またはホテル講演会場で食事可。）

- ・自家用車、公共交通機関をご利用の方

プログラム末尾の地図をご参考にお越しください。

- 1日目の昼食は各自で準備をお願い致します。ホテルへの移動中あるいはホテル講演会場で昼食をとってください。
- リトリートの間に写真を撮らせていただき、ExCELLSの広報資料として使用させていただく場合がございますのでご了承ください。不都合がある場合は世話人までご連絡ください。
- ワークショップ「地球外生命をデザインする：惑星“ExCELLS”で覇権を握れ！」の内容は別途ファイルまた当日お知らせします。
- 宿泊部屋の鍵は複数利用者の場合でも共通のもの1つになります。18:00以降に講演会場でお渡しします。午前9時までに講演会場で返却してください。
- 大浴場は24:30まで、また翌朝5:00から利用可能です。
- アメニティー：浴衣、タオル、バスタオル、歯ブラシ、ボディソープ、シャンプー、ヘアコンディショナー、カミソリ、ヘアドライヤー
- 会場：西浦温泉 ホテル龍城（愛知県蒲郡市、<https://www.tatsuki-aoi.com>）

言語：英語（質疑応答・ワークショップは日本語も可）

招待講演

各セッションが始まる前の休憩時間（最初のセッション演者はリトリート開会前）にPCの動作確認を行っていただくようお願い致します。発表時間は25分+質疑応答5分です。発表は英語、質疑応答は英語か日本語をお願い致します。

ワールドポスター（詳細は1月17日にMasashi TanimotoよりE-mailにてご連絡済み）

少人数（7～8人）のグループで各自5～8分のポスター発表を行います。ラウンドごとに席替えを行い、できる限り多くの参加者とポスター発表を行います。投票により3名のポスター賞受賞者が選ばれます。

ポスターのデータは事前にWebサイト（<https://forms.gle/FnnK58YhoMu25T2d6>）へアップロードしていただきます。ポスター印刷・加工・当日持参する必要はありません。

発表内容の守秘義務

講演およびポスター発表には未公表の内容も含まれます。発表者の研究を尊重し、リトリート外へ情報共有をしないよう配慮をお願い致します。発表者の許可を得ない限り、第三者へ口外、インターネット等での情報拡散、写真撮影などによる発表データの記録はご遠慮ください。

費用（詳細は1月20日にMidori HachisukaよりE-mailにてご連絡済み）

以下の費用を事前に回収させていただきます。

宿泊費：無料（費用を事前回収させていただきますが、同額が後日支給されます）

懇親会費：学生・ポスドク・招待講演者：無料、助教：2000 円、准教授・教授：3000 円

世話人

谷本昌志（東島研），渡辺大輝（内橋研），宮崎裕理（深田研），小田紗矢香（西田研），山内仁喬（奥村研）谷中冴子（加藤研），野中茂紀，郷康広

ExCELLS 事務担当：磯貝知世，蜂須賀みどり，岡田知

（連絡先：tanimoto@nibb.ac.jp）

スケジュール 1 日目 (2/7)

[11:00- ExCELLS からホテルへのバス (集合場所は 2 ページ目参照)]

-12:50 講演会場にてご自分のテーブル (Page15 の表, " Round 1" 参照) にご着席ください

12:50-13:00 開会の挨拶 (加藤 晃一)

招待講演 1

13:00-13:30 井上 圭一 先生 (東京大学・物性研究所) (座長: 谷中冴子)
"Photobiology and Photochemistry of Microbial Rhodopsins"

13:30-14:00 今吉 格 先生 (京都大学・生命科学研究科) (座長: 谷本昌志)
"Regulatory mechanism of neural stem cells revealed by optical manipulation of gene expressions"

14:00-14:15 休憩

14:15-15:15 ワールドポスター①

招待講演 2

15:15-15:45 寺川 剛 先生 (京都大学・理学研究科) (座長: 山内仁喬)
"DNA curtain assays and molecular dynamics simulations to elucidate molecular mechanisms of DNA transactions"

15:45-16:00 休憩・集合写真

ワークショップ "地球外生命体をデザインする: 惑星 "ExCELLS" で覇権を握れ!

16:00-16:10 イントロダクション

16:10-16:40 招待講演 高井 研 先生 (海洋研究開発機構) (座長: 谷本昌志)
"Dark energy ecosystem in the present and past terrestrial and extraterrestrial oceans"

16:40-18:00 グループディスカッション

18:00-20:00 夕食 (情報交換会)

20:00-21:00 グループディスカッション発表

21:00-24:00 懇親会 (ビール、日本酒、ワイン、カクテル、ソフトドリンク、おつまみ
などがあります)

2 日目 (2/8)

07:00-09:00 朝食 (バイキング) (情報交換会)

09:00-10:00 ワールドポスター②

10:00-10:15 休憩

招待講演 3

10:15-10:45 平林 祐介 先生 (東京大学・工学系研究科) (座長: 宮崎裕理)
"Exploring the regulation of ER-mitochondria contact and its physiological roles"

10:45-11:15 Yoo Sa Kan 先生 (RIKEN) (座長: 小田紗矢香)
"How do animals deal with disruption of homeostasis?"

11:15-11:30 休憩

11:30-12:30 ワールドポスター③

12:30-13:30 昼食 (情報交換会)

13:30-14:00 ポスター発表賞・総評・集合写真

Invited Speakers



Keiichi Inoue

Associate Professor

The Institute for Solid State Physics, The University of Tokyo

inoue@issp.u-tokyo.ac.jp

“Photobiology and Photochemistry of Microbial Rhodopsins”

Carrier history

2007 Ph. D. (Science), Kyoto University
2007~2009 Project Assistant Professor, Chemical Resources Laboratory, Tokyo Institute of Technology
2009~2016 Assistant Professor, Nagoya Institute of Technology
2012~2015 PRESTO researcher (Research area: Design and control of cellular functions)
2015~2019 PRESTO researcher (Research area: FRONTIER)
2016~2018 Associate Professor, Nagoya Institute of Technology
2018~present Associate Professor, The Institute for Solid State Physics, The University of Tokyo

References and research background

Microbial rhodopsins are photoreceptive membrane proteins working mainly in unicellular microorganisms (bacteria, archaea, eukaryotic algae, fungi, giant viruses and so on). I'm physicochemically and biophysically studying their molecular functional mechanism by spectroscopic methods. Recently, new natural and artificial rhodopsins have been applied to optogenetics to control various cellular events by light *in vivo*.

- [1] K. Inoue, et al., *Nature Commun.* **4**, 1678 (2013)
- [2] H. E. Kato, K. Inoue, et al., *Nature* **521**, 48 (2015)
- [3] K. Inoue et al., *Nature Commun.* **7**, 13415 (2016)
- [4] A. Pusularev[†], K. Inoue[†] et al., *Nature* **558**, 595-599 (2018)
- [5] W. Shihoya. K. Inoue et al., *Nature* published online (2019)



Itaru Imayoshi

Professor

Graduate School of Biostudies, Kyoto University

imayoshi.itaru.2n@kyoto-u.ac.jp

“Regulatory mechanism of neural stem cells revealed by optical manipulation of gene expressions”

Career history

2008 Ph.D. (Biostudies), Kyoto University
2008~2009 Postdoctoral fellow at Institute for Virus Research, Kyoto University
2009~2013 JST PRESTO Scientist at Institute for Virus Research, Kyoto University
2011~2016 Associate Professor at The Hakubi Center, Institute for Virus Research, Kyoto University
2014~2018 JST PRESTO Scientist, Kyoto University
2016~2018 Associate Professor at Graduate School of Biostudies, Kyoto University
2018~ Professor at Graduate School of Biostudies, Kyoto University

References or research background

My research group aims to understand the cellular and molecular mechanisms involved in the growth and fate-determination of neural stem cells. My research is also focusing on the functional significance of neurogenesis in the postnatal and adult brain.



Tsuyoshi Terakawa

Assistant Professor

Department of Biophysics, Kyoto University

terakawa@biophys.kyoto-u.ac.jp

“DNA curtain assays and molecular dynamics simulations to elucidate molecular mechanisms of DNA transactions”

Career history

04/2011 – 03/2014

Ph. D, Dept. of Biophysics, Kyoto University

04/2014 – 03/2015

Post-Doctoral Fellow, Dept. of Biophysics, Kyoto University

06/2014 – 03/2015

Visiting Researcher, Dept. of Biochemistry & Molecular Biophysics, Columbia University

04/2015 – 03/2018

Post-doctoral Fellow, Dept. of Biochemistry & Molecular Biophysics, Columbia University

04/2018 to present

Assistant Professor, Dept. of Biophysics, Kyoto University

Research background

Important genomic information is written in DNA. DNA binding proteins govern read-out (transcription), preservation (repair), and regulation (chromatin conformation change) of the information. Thus, revealing molecular mechanisms of various DNA binding proteins are expected to shed light on the foundation of life. I have elucidated the mechanisms using coarse-grained molecular dynamics simulations and DNA curtain assays (total internal reflection fluorescent microscope-based single-molecule observations).

References

- [1] Terakawa T[†], Bisht S[†], Eeftens J[†], Dekker C, Haering C, Greene EC "The condensin complex is a mechanochemical motor that translocates along DNA" *Science* (2017) 358:672 (†equal contribution)
- [2] Terakawa T, Redding S, Silverstein TD, Greene EC "Sequential eviction of crowded nucleoprotein complexes by the RecBCD molecular motor" *Proc Natl Acad Sci U S A* (2017) 114:E6322
- [3] Tan C, Terakawa T, Takada S "Dynamic coupling among protein binding, sliding, and DNA bending revealed by molecular dynamics" *J Am Chem Soc* (2016) 138:8512
- [4] Lee JY, Terakawa T[†], Qi Z[†], Steinfeld JB, Redding S, Kwon Y, Gaines WA, Zhao W, Sung P, Greene EC "Base triplet stepping by the Rad51/RecA family of recombinases" *Science* (2015) 349:977 (†equal contribution)
- [5] Terakawa T, Kenzaki H, Takada S "p53 searches on DNA by rotation-uncoupled sliding at C-terminal tails and restricted hopping of core domains" *J Am Chem Soc* (2012) 134:14555



Ken Takai

Director-General

Institute for Extra-cutting-edge Science and Technology Avant-garde Research (X-star) Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

kent@jamstec.go.jp

“Dark energy ecosystem in the present and past terrestrial and extraterrestrial oceans”

Carrier history

1997	Ph.D., Kyoto University
1997	JSPS Research Fellow
1997	JST Research Fellow
1999	Researcher, Frontier Research System for Extremophiles, Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
2002	Group Leader, Subground Animalcule Retrieval (SUGAR) Project, Frontier Research System for Extremophiles, JAMSTEC
2005	Director, Subground Animalcule Retrieval (SUGAR) Program, Extremobiosphere Research Center, JAMSTEC
2009	Director, Subsurface Geobiology & Advanced Research (SUGAR) Project, Extremobiosphere Research Program, Institute of Biogeosciences, JAMSTEC
2009	Unit Leader, Precambrian Ecosystem Lab, JAMSTEC
2014	Director, Subsurface Geobiology & Advanced Research (SUGAR) Project, Institute of Biogeosciences, JAMSTEC
2019~present	The current position

References and research background

- [1] Isolation of an archaeon at the prokaryote-eukaryote interface. Imachi H, Nobu MK, Nakahara N, Morono Y, Ogawara M, Takaki Y, Takano Y, Uematsu K, Ikuta T, Ito M, Matsui Y, Miyazaki M, Murata K, Saito Y, Sakai S, Song C, Tasumi E, Yamanaka Y, Yamaguchi T, Kamagata Y, Tamaki H, Takai K. *Nature*. 2020 Jan 15. doi: 10.1038/s41586-019-1916-6. [Epub ahead of print]
- [2] Fluid transport and reaction processes within a serpentinite mud volcano: South Chamorro Seamount, Wheat CG, Seewald JS, Takai K, *Geochimica et Cosmochimica Acta* 269, 413-428
- Recent Topics on Deep-Sea Microbial Communities in Microbes and Environments. Takai K. *Microbes Environ*. 2019;34(4):345-346. doi: 10.1264/jsme2.ME3404rh.
- [3] The Nitrogen Cycle: A Large, Fast, and Mystifying Cycle. Takai K. *Microbes Environ*. 2019;34(3):223-225. doi: 10.1264/jsme2.ME3403rh
- [4] The making of natural iron sulfide nanoparticles in a hot vent snail. Okada S, Chen C, Watsuji TO, Nishizawa M, Suzuki Y, Sano Y, Bissessur D, Deguchi S, Takai K. *Proc Natl Acad Sci U S A*. 2019 Oct 8;116(41):20376-20381. doi: 10.1073/pnas.1908533116. Epub 2019 Sep 24.
- [5] An Improved Method for Extracting Viruses From Sediment: Detection of Far More Viruses in the Subseafloor Than Previously Reported. Pan D, Morono Y, Inagaki F, Takai K. *Front Microbiol*. 2019 Apr 29;10:878. doi: 10.3389/fmicb.2019.00878. eCollection 2019.
- [6] *Methanofervidicoccus abyssi* gen. nov., sp. nov., a hydrogenotrophic methanogen, isolated from a hydrothermal vent chimney in the Mid-Cayman Spreading Center, the Caribbean Sea. Sakai S, Takaki Y, Miyazaki M, Ogawara M, Yanagawa K, Miyazaki J, Takai K. *Int J Syst Evol Microbiol*. 2019 Apr;69(4):1225-1230. doi: 10.1099/ijsem.0.003297. Epub 2019 Mar 7.
- [7] Discovery and analysis of a novel type of the serine biosynthetic enzyme phosphoserine phosphatase in *Thermus thermophilus*. Chiba Y, Yoshida A, Shimamura S, Kameya M, Tomita T, Nishiyama M, Takai K. *FEBS J*. 2019 Feb;286(4):726-736. doi: 10.1111/febs.14703. Epub 2018 Dec 7.
- [8] Compositional and Functional Shifts in the Epibiotic Bacterial Community of *Shinkaia crosnieri* Baba & Williams (a Squat Lobster from Hydrothermal Vents) during Methane-Fed Rearing. Watsuji TO, Motoki K, Hada E, Nagai Y, Takaki Y, Yamamoto A, Ueda K, Toyofuku T, Yamamoto H, Takai K. *Microbes Environ*. 2018 Dec 28;33(4):348-356. doi: 10.1264/jsme2.ME18072. Epub 2018 Oct 17.



Yusuke Hirabayashi

Associate Professor

Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo

hirabayashi@chembio.t.u-tokyo.ac.jp

“Exploring the regulation of ER-mitochondria contact and its physiological roles”

Career history

October 2018 – **Associate Professor**

Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo

October 2016 – September 2018 **PRESTO Researcher**

Franck Polleux lab, Department of Neuroscience, Columbia University

November 2013 – September 2016 **Post Doctoral Fellow**

Franck Polleux lab, Department of Neuroscience, Columbia University

March 2013 – October 2013 **Research Associate**

Franck Polleux lab, Department of Cell Biology, The Scripps Research Institute

April 2007 – February 2013 **Assistant Professor**

Yukiko Gotoh Lab., Institute of Molecular and Cellular Biosciences, The University of Tokyo

April 2006 - March 2007 **Research Fellow**

Yukiko Gotoh Lab., Institute of Molecular and Cellular Biosciences, The University of Tokyo

March 2006 **Ph. D.**

Graduate School of Frontier Sciences, The University of Tokyo Awarded the degree of Ph.D. (Mar 23, 2006). (Supervisor: Yukiko Gotoh)

References or research background

Correlated Light-Serial Scanning Electron Microscopy (CoLSSEM) for ultrastructural visualization of single neurons in vivo

Yusuke Hirabayashi, Juan Carlos Tapia, and Franck Polleux

Scientific Reports 2018, 8:14491

Emerging roles of mitochondria in synaptic transmission and neurodegeneration

Annie. Lee*, Yusuke. Hirabayashi*, Seok-Kyu Kwon*, Tommy L. Lewis*, Franck Polleux

Current Opinion in Physiology 2018, Vol. 3:82-93 * Equal contribution

ER-mitochondria tethering by PDZD8 regulates Ca²⁺ dynamics in mammalian neurons

Yusuke Hirabayashi*, Seok-Kyu Kwon*, Hunki Paek, Wolfgang M. Pernice, Maëla A. Paul, Jinoh Lee, Parsa Erfani, Ashleigh Raczkowski, Donald S. Petrey, Liza A. Pon and Franck Polleux

Science 2017, Nov 3:358(6363): 623-630 (*Research Article*) * Equal contribution

Epigenetic control of neural precursor cell fate during development

Yusuke Hirabayashi and Yukiko Gotoh

Nature Reviews Neuroscience 2010, 11 (6) 377-388

Polycomb limits the neurogenic competence of neural precursor cells to promote astrogenic fate transition

Yusuke Hirabayashi, Nao Suzuki, Masafumi Tsuboi, Takaho A Endo, Tetsuro Toyoda, Jun Shinga, Haruhiko Koseki, Miguel Vidal and Yukiko Gotoh

Neuron 2009, 63 (5), 600-13



Sa Kan Yoo

Chief scientist, team leader

RIKEN

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“How do animals deal with disruption of homeostasis?”

Carrier history

Sa Kan Yoo graduated in medicine from Kobe University. He worked on Ror-Wnt signaling at Dr Yasuhiro Minami's lab while he was not working on the wards. He obtained PhD at Anna Huttenlocher lab of University of Wisconsin-Madison, where he worked on wound responses in zebrafish. He joined Iswar Hariharan's lab of University of California-Berkeley as a postdoc and investigated mechanisms of tissue repair and oncogenic stress using *Drosophila* and zebrafish. He was appointed an associate chief scientist at RIKEN in 2015 and then a chief scientist in 2017. Dr Yoo's laboratory focuses on mechanisms of responses to various types of stresses such as wound, cancer, malnutrition and aging.

References or research background

Yoo SK, Pascoe H, Pereira T, Kondo S, Jacinto A, Zhang X and Hariharan I. An evolutionarily ancient role for Plexins during epithelial repair in *Drosophila* and zebrafish. *Nature Communications*. 2016 Jul 25;7:12282.

Yoo SK, Freisinger C, LeBert D and Huttenlocher A. Early redox, Src family kinase and calcium signaling integrate wound responses and tissue regeneration in zebrafish. *J Cell Biol*. 2012 Oct 15; 199(2):225-34.

Yoo SK, Lam PY, Eichelberg M, Zasadil L, Bement W and Huttenlocher A. Role of microtubules in neutrophil polarity and migration in live zebrafish. *Journal of Cell Science*. Dec 1;125(Pt23):5702-10.

Yoo SK, Starnes TW, Deng Q and Huttenlocher A. Lyn is a redox sensor that mediates leukocyte wound attraction in vivo. *Nature*, 2011 Nov 20;480(7375):109-12.

Yoo SK and Huttenlocher A. Spatiotemporal photolabeling of neutrophils during induction and resolution of inflammation in zebrafish. *J Leukoc Biol*. 2011 May;89(5):661-667.

Yoo SK, Deng Q, Cavnar P, Wu Y, Hahn KM, Huttenlocher A. Differential regulation of protrusion and polarity by PI(3)K during neutrophil motility in live zebrafish. *Developmental Cell*. 2010 Feb;18(2): 226-236.

Group/Table Assignment for World Poster & Workshop (Alphabetical Order)

Group/Table for the Workshop is the same as “Round 1” of the World Poster.

	Family Name	First Name	姓	名	Round 1	Round 2	Round 3	Room #	Poster title
1	Deveci	Aykut	Deveci	Aykut	E	D	D	422	Temperature regulates microglial motility via activation of thermo-sensitive Transient Receptor Potential Vanilloid 4 (TRPV4)
2	Ganser	Christian	Ganser	Christian	C	A	D	327	High-speed atomic force microscopy - a versatile tool to study protein dynamics and more
3	Go	Yasuhiro	郷	康広	A	A	A	425	
4	Hirabayashi	Yusuke	平林	祐介	B	B	B	521	
5	Hiranyakorn	Methanee	Hiranyakorn	Methanee	C	B	D	426	NMR analysis of conformational dynamics of Lys48-linked linear tri ubiquitin
6	Hiro	Sota	廣	蒼太	A	B	E	422	Optical imaging of nuclear and cytoplasmic circadian calcium rhythm in the SCN neurons
7	Imayoshi	Itaru	今吉	格	C	C	C	521	
8	Inoue	Keiichi	井上	圭一	E	D	C	522	
9	Ishii	Hirokazu	石井	宏和	B	B	A	421	Two-photon STED nanoscopy with novel light source system for deeper super-resolution imaging
10	Kato	Koichi	加藤	晃一	E	E	E	423	
11	Kim	Eunchul	Kim	Eunchul	A	C	A	327	Thermodynamic dissociation kinetics to quantify the binding energy within a membrane protein complex: Photosystem II Supercomplex
12	Koda	Shin-ichi	甲田	信一	A	D	A	421	Data-driven reaction model of the cyanobacterial biological clock
13	Komatsu	Yu	小松	勇	D	C	C	326	Theoretical search for photosynthetic pigments applicable around low-temperature stars
14	Lei	Jing	Lei	Jing	A	A	C	426	Investigation of functional roles between mTRPV4 and mTMEM79
15	Matsuo	Muneyuki	松尾	宗征	E	E	A	326	Concentration-induced Autocatalysis: Crucial Mechanism for Emergence of Proliferating Coacervate Droplets
16	Mii	Yusuke	三井	優輔	B	C	E	421	How does Wnt11 direct planar cell polarity?
17	Miyazaki	Yuri	宮崎	裕理	A	B	C	327	Binding mode and physiological role of epilepsy-related ligand/receptor LGI1-ADAM22 complex
18	Nishiguchi	Shigetaka	西口	茂孝	E	C	B	326	Analysis of the structural evolution of invertebrate classical cadherins using atomic force microscopy in solution
19	Nonaka	Shigenori	野中	茂紀	C	B	A	425	
20	Oda	Sayaka	小田	紗矢香	B	C	D	427	The role of TRPC6 channel in a cardiac sympathetic nerve regulation
21	Sekiguchi	Taichiro	関口	太一朗	C	C	E	325	Assembly mechanism of hetero protein complex
22	Shikata	Hiromasa	四方	明格	D	E	D	421	Optical manipulation of plant cell growth
23	Shinozuka	Takuma	篠塚	琢磨	B	A	E	326	Regulatory mechanism of morphological change of roof-plate cells in the mouse spinal cord
24	Takahashi	Taiga	高橋	泰伽	B	B	C	422	Novel fluoropolymer PEO-CYTOP nanosheet realizing deep and wide-field imaging of mouse brain in vivo
25	Takai	Ken	高井	研	D	C	B	522	
26	Tanimoto	Masashi	谷本	昌志	C	D	E	421	Functional Imaging Analysis of Neural Mechanism Controlling Posture in Young Zebrafish
27	Terakawa	Tsuyoshi	寺川	剛	D	D	B	day trip	
28	Tsutsumi	Motosuke	堤	元佐	C	E	E	327	Application of Novel Image Analysis Method SRRE for Deep and Fast Super-resolution Imaging
29	Umezawa	Fumiko	梅澤	芙美子	D	B	B	427	Biosynthesis of a novel glycerol phosphate modification on α-dystroglycan
30	Yamaguchi	Kazushi	山口	和志	D	A	A	422	Adaptive optical correction of rough surface induced aberration visualizes submicron living structures in deep regions
31	Yamamoto	Kei	山本	啓	E	A	E	325	Development and application of a new optogenetic system to manipulate the intracellular contractile force
32	Yamauchi	Masataka	山内	仁喬	D	E	A	325	Development of isothermal-isobaric replica-permutation method and its application to proteins
33	Yanaka	Saeko	谷中	冴子	E	A	B	426	Exploration of dynamical structures and interactions of antibodies
34	Yogo	Rina	與語	理那	C	D	C	427	Structural dynamics and function of antibodies
35	Yoke	Hiroshi	餘家	博	A	E	B	326	Left-right asymmetry in the structure of basal bodies in mouse node cilia
36	Yoo	Sa Kan	Yoo	Sa Kan	A	E	D	523	
37	Yunoki	Yasuhiro	柚木	康弘	D	D	D	325	KaiC ATP hydrolysis controls its binding to Kai proteins in the cyanobacteria circadian clock system

* Some group members may be absent depending on their schedule.

Guest Room

All the guest rooms are in “眺濤閣” building.

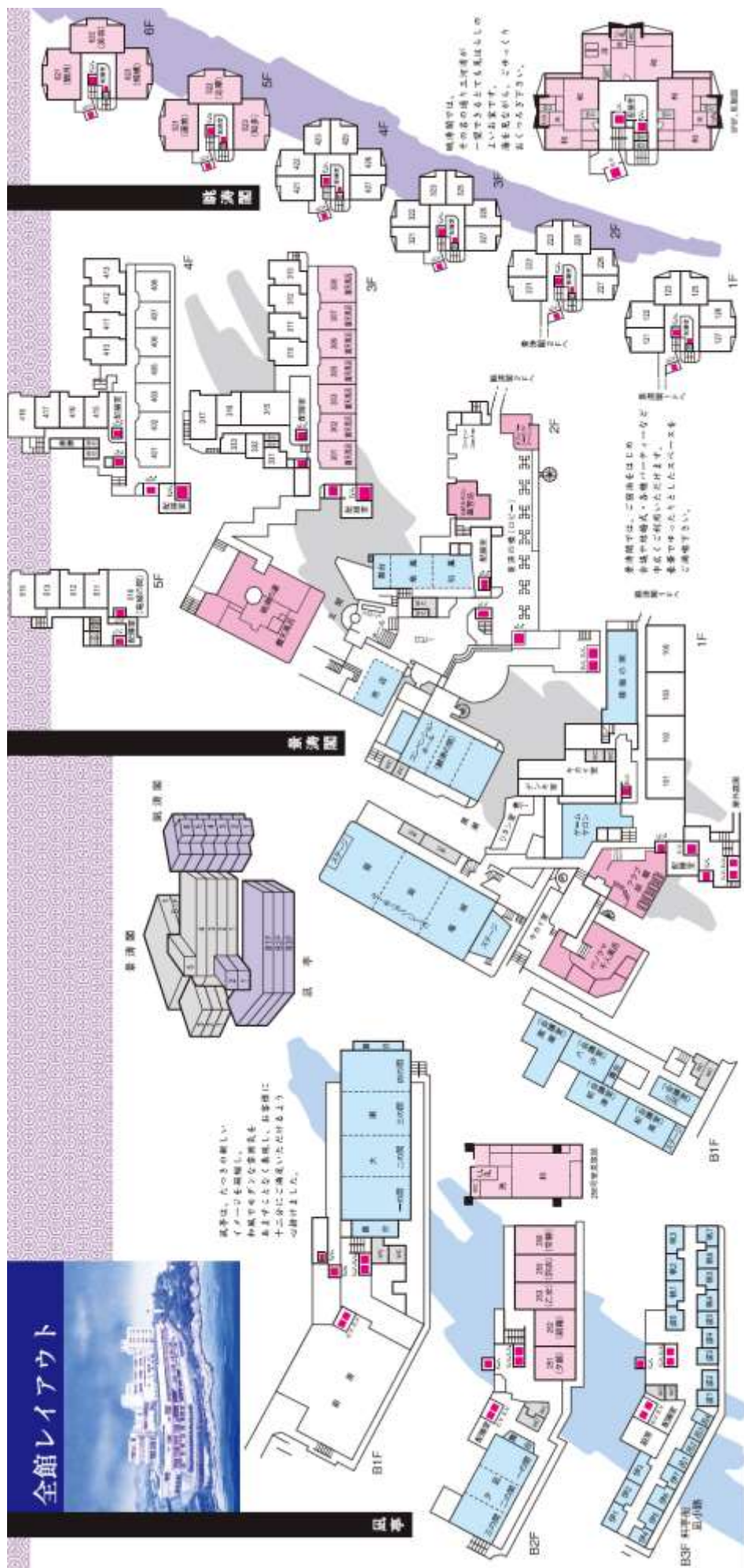
Room #	Name	Affiliation
325	Masataka Yamauchi Taichiro Sekiguchi Yasuhiro Yunoki Kei Yamamoto	ExCELLS・IMS(Okumura G) ExCELLS・IMS(Kato G) Nagoya City Univ., ExCELLS(Kato G) ExCELLS・NIBB(Aoki G)
326	Muneyuki Matsuo Shigetaka Nishiguchi Takuma Shinozuka Hiroshi Yoke Yu Komatsu	ExCELLS・IMS(Kurihara G) ExCELLS・IMS(Uchihashi G) ExCELLS・NIBB(Takada G) ExCELLS・NIBB(Nonaka G) ABC / NAOJ・NIBB
327	Christian Ganser Motosuke Tsutsumi Yuri Miyazaki Eunchul Kim	ExCELLS・IMS(Uchihashi G) ExCELLS・NIPS(Nemoto G) NIPS(Fukada G) Nagoya Univ.・NIBB(Minagawa G)
421	Shin-ichi Koda Yusuke Mii Masashi Tanimoto Hiromasa Shikata Hirokazu Ishii	IMS(Saito G) ExCELLS・NIBB(Takada G) ExCELLS・NIBB(Higashijima G) NIBB(Morita G) ExCELLS・NIPS(Nemoto G)
422	Aykut DEVECİ Sota Hiro Taiga Takahashi Kazushi Yamaguchi	ExCELLS・NIPS(Tominaga G) ExCELLS・NIPS(Nemoto G) ExCELLS・NIPS(Nemoto G) ExCELLS・NIPS(Nemoto G)
423	Koichi Kato	ExCELLS・IMS(Kato G)
425	Yasuhiro Go Shigenori Nonaka	ExCELLS・NIPS(Go G) ExCELLS・NIBB(Nonaka G)
426	Saeko Yanaka Methanee Hiranyakorn Jing Lei	ExCELLS・IMS(Kato G) ExCELLS・IMS(Kato G) ExCELLS・NIPS(Tominaga G)
427	Rina Yogo Fumiko Umezawa Sayaka Oda	Nagoya City Univ., ExCELLS(Kato G) Nagoya City Univ., ExCELLS(Kato G) ExCELLS・NIPS(Nishida G)

Hotel Room (continued)

All the guest rooms are in “眺濤閣” building.

Room #	Name	Affiliation
521	Itaru Imayoshi	Kyoto University(Invited Speaker)
	Yusuke Hirabayashi	The University of Tokyo(Invited Speaker)
522	Keiichi Inoue	The University of Tokyo(Invited Speaker)
	Ken Takai	JAMSTEC・ExCELLS(Invited Speaker)
523	Sa Kan Yoo	RIKEN (Invited Speaker)
Day trip	Tsuyoshi Terakawa	Kyoto University(Invited Speaker)

Hotel map



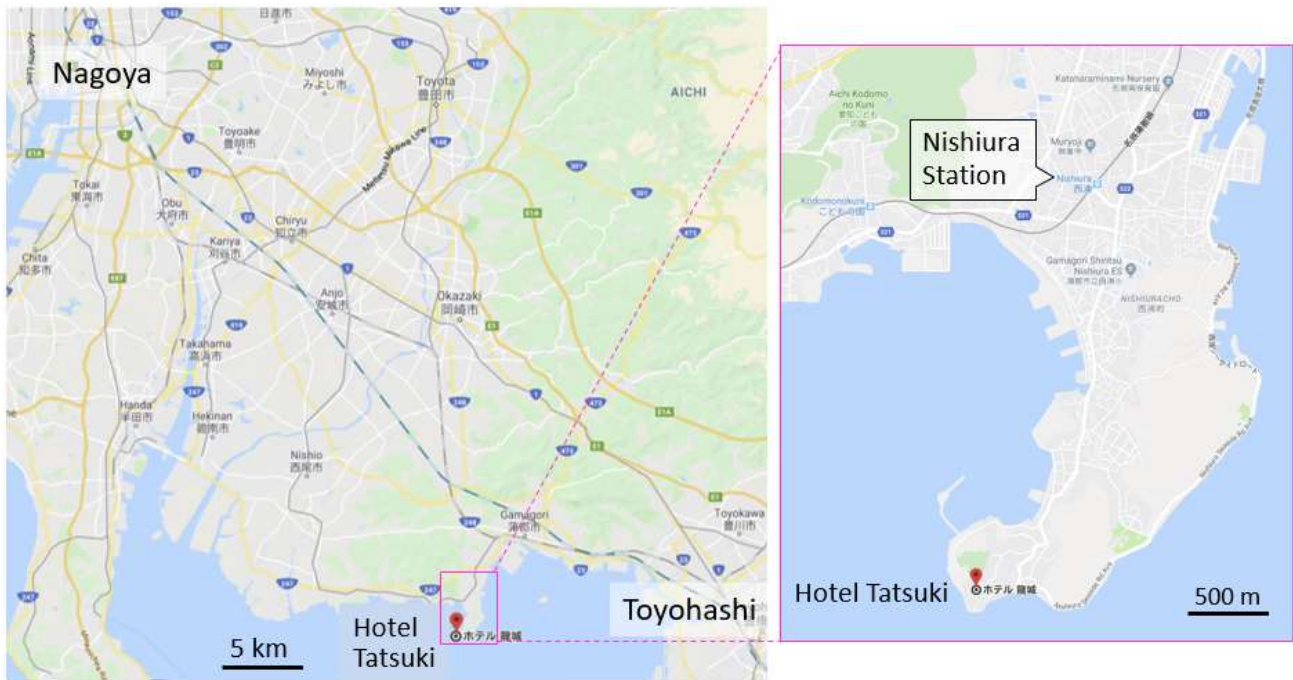
Directions

Nishiura Onsen Hotel Tatsuki

Address: Oyama 25, Nishiuracho, Gamagouri, Aichi 443-0105

〒443-0105 愛知県蒲郡市西浦町大山 25 番地

Phone: +81-533-57-5111



By Train (may need to reserve a shuttle bus)

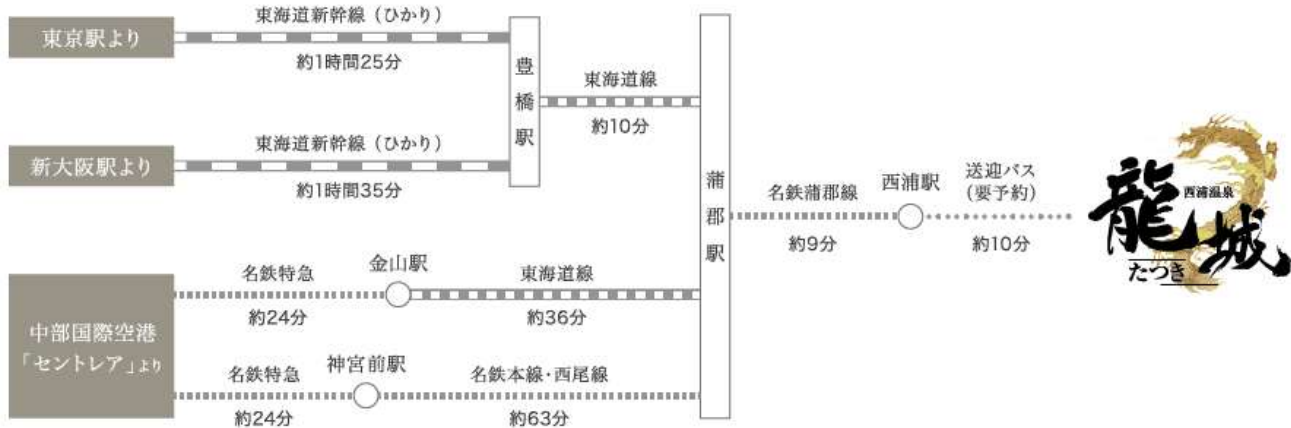
- Take the 'Hikari' Tokaido Shinkansen to Toyohashi station (1.5 hr from Tokyo/Osaka)
- Change to the Tokaido Main Line to get to Gamagori station (10 min).
- Change to the Meitetsu Nishio/Gamagori Line to get to Nishiura station (9 min).
- From Nishiura station, a free shuttle bus to the hotel is available between 14:20 and 16:20. If you arrive other than this time, call +81-533-57-5111 beforehand to reserve a shuttle bus.

JR東海道本線蒲郡駅乗り換え、名鉄蒲郡線西浦駅下車送迎車で約10分。

名鉄「西浦駅」から「龍城」までは【西浦温泉組合の無料送迎バス】をご利用ください。

西浦駅14:20～16:20到着電車にあわせて随時運行してございます(予約不要)。

※16:30以降のご到着の際は、ご到着時刻がわかり次第弊館までお電話ください。ご到着時間にあわせてお迎えに上がります。



By Car

Free parking lot is available at the hotel.

From East: Take the Tomei Expressway to exit Otowa-Gamagori.

From West: Take the Meishin, Shin-Meishin and Isewangan Expressway to exit Toyoake.

名古屋方面: 豊明ICより約35分(国道23号線バイパス蒲郡西IC～蒲郡競艇方面に南下、国道247号線から西浦半島へ)

浜松方面: 東名高速道路浜松ICより約50分～東名高速道路音羽蒲郡IC～三河湾オレンジロード(無料)経由約35分



Organizers

Masashi Tanimoto (Higashijima Lab), Hiroki Watanabe (Uchihashi Lab), Yuri Miyazaki (Fukata Lab), Sayaka Oda (Nishida Lab), Masataka Yamauchi (Okumura Lab), Saeko Yanaka (Kato Lab), Shigenori Nonaka, Yasuhiro Go
ExCELLS office members: Tomoyo Isogai, Midori Hachisuka, Tomo Okada

世話人

谷本昌志（東島研），渡辺大輝（内橋研），宮崎裕理（深田研），小田紗矢香（西田研），山内仁喬（奥村研）谷中冴子（加藤研），野中茂紀，郷康広
ExCELLS 事務担当：磯貝知世，蜂須賀みどり，岡田知

Contact

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