# 科学研究費助成事業 研究成果報告書

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研究課題名(和文)レゾナンスバイオ国際活動支援

研究課題名(英文)Accelerating international cooperative researches

### 研究代表者

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研究成果の概要(和文): 本プロジェクトは以下の5つの柱で構成される。1)国際シンポジウム、学会との共催、2)若手育成・国際連携推進、3)技術講習会、4)Webによる情報発信、5)Forum開催。プロジェクト内の若手研究者には、海外研究者と一緒に、国際シンポジウムを企画・運営させた。また、本領域の成果の国際的発信を狙い、国際会議開催の定期化やウェブサイトの英文化を徹底した。さらに、本プロジェクトの集大成として、国際シンポジウムを開催し、最先端の海外研究者と、バイオイメージング技術開発研究の将来を議論する機会を得ることができた。

研究成果の学術的意義や社会的意義 本プロジェクトにおいては、革新的なバイオイメージング技術を、国際シンポジウム、若手ワークショップ、イメージング講習会、ホームページなどを通じて国内外に広く発信してきた。有難いことに、学術分野のみならず産業界からも多くの賛同が得られ、集大成となった国際シンポジウムでは多数の企業参加もあり、新たな産学連携の芽を作った。近未来的に、国民生活を支える技術の革新に我々レゾナンスバイオが貢献することが期待される。

研究成果の概要(英文): This project has five pillars. 1. International symposium and Collaborations with academic societies, 2. Human resource development, 3. Technical training course, 4. Outreach, 5. Forum.

In human resource development, young researchers worked with foreign researchers and organized three international conferences in Academia Sinica (Taiwan, 2017), in OIST (Japan, 2018) and EMBO (Germany, 2019). Each time had 50-100 participants. In technical training course and forum, we invited frontier researchers from overseas. Researchers in our project had chances to learn cutting-edge technologies and researches. In outreach, we continually updated a bilingual website. In the last international symposium, which was successfully held in Tokyo 2019, we invited nine frontier researchers from all over the world and had a fruitful discussion on the future of bioimaging technologies.

研究分野: 生物物理

キーワード: バイオイメージング 画像処理 ワークショップ シンポジウム

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## 1. 研究開始当初の背景

「未来の長改造イメージングや生体深部イメージングに求められる技術は何か?」「曖昧なストレスを体系的に分析するイメージングとは?」「多様な階層レベルを自由に往来するズームイン・アウトとは?」「巨大容量のデータを捌くには?」「イメージングにおける次元とは?」などのテーマを理論的・実践的に議論し、現代バイオイメージングが孕む問題を共有する必要性があった。

本領域において、バイオイメージング技術の学際的開発によって、生物学者の多様な要求・要望に応えるべきいくつかの標準技術が形成されことを目指した。

## 2.研究の目的

分子と光の間の相互作用を介して、特徴的な振る舞いが観察対象に現われる。こうした現象を活用してバイオイメージング技術を開発する試みを狭義の「レゾナンスバイオ」と呼ぶ。本領域は、分子をデザインする研究者と光をコントロールする研究者の集いを基本に、分子と光の間の相互作用を究めて革新的なバイオイメージング技術を開発することを目的とする。さらに、バイオイメージングを中心に据えた学際的な共同研究を推進して、様々な生物学分野におけるパラダイムを揺り動かす試みを広義の「レゾナンスバイオ」の名のもとに行う。

## 3.研究の方法

本国際活動において、本領域の活動を国内外に広めるとともに、本プロジェクトだけでなく将 来の研究にも資する国際連携を推進した。

具体的には、下記を行った。

- (1) 国際シンポジウム、学会との共催
- (2) 若手育成・国際連携推進
- (3) 技術講習会
- (4) Web による情報発信
- (5) Forum 開催

#### 4. 研究成果

## (1) 国際シンポジウム、学会との共催

- ・2016 年 3 月に国際シンポジウム (@熱海) を開催した。国内外の若手研究員達の意見交換の場を設けるため、海外で活躍する若手研究者 2 名、Dr. Nam Young Kang (National University of Singapore)、Dr. Evan Miller (UC Berkeley) を招待した。海外からの招待講演者からは多くの質問や意見があり、活発な議論の場になった。
- ・2017年2月にThe 1st ABiS Symposium T owards the Future of Advanced Bioimaging for Life Sciences との共催シンポジウムを自然科学研究機構岡崎コンファレンスセンターで行った。台湾中央研究所のPeilin Chen 博士と韓国慶熙大学のSun Kwang Kim 博士を招聘し、シンポジウムで講演をしてもらった。シンポジウムには100名程度の参加者があった。英語での発表と討論、および海外研究者との交流は、 若手研究者には貴重な研鑽の場となった。
- ・2018 年「Joint Symposium ABiS-OIST-ResonanceBio」新学術領域「レゾナンスバイオ」、新学術領域「先端バイオイメージング支援プラットフォーム」の領域間連携 促進のため、シンポジウムを合同開催した。
- ・集大成として、2019 年 10 月に Resonance Bio International Symposium を開催した。5 年間の領域の成果報告を行うとともに、バイオイメージング分野の最先端で活躍する9名の研究者を海外から招聘し、シンポジウムを開催した。講演者にはポスター賞選定にも携わってもらい、3 日間の会期中、班員との活発な意見交換が行われた。また、産学の交流の場とするため、学術だけでなく産業界にも本シンポジウムを周知した。会期3日間で、参加者は333名であった。
- ・2020 年度は、オンラインで開催された招待講演「Cell signaling distinguished lecture (UCSD)」において本領域の革新的なバイオイメージング技術などの成果を紹介した。また、2019 年の Resonance Bio International Symposium に招聘した UCSD Prof. Jin Zhang とバイオイメージング研究の今後の発展について意見交換を行った。

## (2) 若手育成・国際連携推進

- ・2017年2月に、自然科学研究機構・自然科学研究機構基礎生物学研究所(岡崎市)にて、若手研究者ワークショップを開催した。国内外の15名の若手が講演を行い、参加者は30名程度であった。
- ・2017 年 11 に、台湾 Academia Sinica にて、"Taiwan-Japan Joint Meeting on Bioimaging for Young Researchers (日台合同若手研究者のためのバ イオイメージング会議) "を開催した。本会議は、Academia Sinica、科研費新学術領域「ResonanceBio」および理研理事長ファンド「4DCeII」の各グループに所 属する若手研究者(若手 PI を含む)の協力のもと、若手研究者の「国際感覚の育成」と「国際連携の構築」を目的として開催さ

れた。 レゾナンスバイオからはゲストスピーカー2 名と計画班長を含む 25 名が参加した。 ゲストスピーカーには、外観検査アルゴリズムコンテスト 2016 でレゾンナスバ イオ賞を 受賞したみずほ情報総研株式会社 橋本大樹氏が含まれた。4DCell からは中野明彦代表(理研)を含む 25 名が参加。台湾側からは Lattice Light-Sheet Microscopy の開発に携わった Dr. Bi-Chang Chen をはじめ、50 名以上が参加した。全体の参加者は約 100 名であった。ポスター会場や食堂では、分子をデザインする研究者と光をコントロールする研究者を含む集団が多く形成され、活発な意見交換が行われた。

- ・2018 年度は「若手研究者のための国際バイオイメージング会議」科研費新学術領域「ResonanceBio」(共鳴誘導で革新するバイオイメージング)(代表・宮脇敦史)の若手 研究者が中心になり、沖縄科学技術大学院大学(OIST)の協力を得て、Bioimaging に関する会議を開催した。国際色豊かな OIST や台湾 Academia Sinica の若手研 究者たちとの交流を通して国際感覚を養うとともに、現行プロジェクトおよび将来の研究に資する関係構築を行った。
- ・2019年5月に、科研費新学術領域「レゾナンスバイオ」(代表:理研 宮脇敦史) 新学術領域「植物新種誕生の原理」(代表:名古屋大学 東山哲也) EMBO Practical Course "Functional live imaging of plants" (代表:名古屋大学:東山哲、Universitaet Heidelberg:Alexis Maizel、Heinrich-HeineUniversitaet Duesseldorf:Ruediger Simon)が主催し、3 グループの若手研究者が一堂に集まり、科学議論を行った。ミーティング前日には基礎生物学研究所、生理学研究所、分子科学研究所の研究室見学を行い、自然科学研究機構 3 研究所の研究者たちと意見交換の機会を持った。

## (3) 技術講習会

- ・若手研究者と海外研究者の技術交流の促進を目的に、海外の卓越したイメージング研究者を招聘し、実際に顕微鏡を使いながら技術指導を行う国際連携企画技術講習会を開催した。第1回は2017年2月に開催し、台湾中央研究院のPeilin Chen博士と、韓国慶熙大学のSun Kwang Kim博士に講師を依頼した。第2回は2018年8月に開催し、台湾中央研究院 Dr. Bi-Chang Chenを講師として招聘した。
- ・「GBI-ABiS International Training Course for Bioimage Analysis」は新学術領域「先端バイオイメージング支援プラットフォーム (ABiS)」が主催し、新学術領域「レゾナンスバイオ」が協賛したトレーニングコースである。画像解析は新学術領域「レゾナンスバイオ」でも重要な課題である。ABiSの持つ画像処理技術の習得するため、若手研究者数名が本領域から参加した。

## (4) Web による情報発信

・ホームページ「共鳴誘導で革新するバイオイメージング」(https://reso.m.ehime-u.ac.jp/)の更新と英文化を進めた。本領域の革新的なバイオイメージング技術などの成果を広く周知し、バイオイメージングを中心に据えた学際的な共同研究を推進するため、国内外に向けて情報発信を行っている。

# (5) Forum 開催

先端をゆく研究者を招聘し、情報収集をするとともに、共同研究につながる関係構築を行った。

- ・2017年2月22日(水)にEMBLのJAN ELLENBERG博士を理化学研究所に招聘し、"Systems biology by light and electron microscopy -f rom protein complexes via cellular protein networks to embryonic development"というタイトルでForumを開催した。
- ・2018 年 8 月に台湾中央研究院 Bi-Chang Chen 博士を東京大学に招聘し、「Light Sheet 顕微鏡を用いた研究」について講演会を開催した。

# 5 . 主な発表論文等

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1.発表者名 Takafumi Kamada
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Yutaro Kashiwagi
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superresolution imaging
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1 . 発表者名
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1.発表者名 Kohei Otomo
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Ryo Tachibana
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Masafumi Shimojo
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# 〔図書〕 計0件

# 〔産業財産権〕

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s://reso.m.ehime-u.ac.jp/	
<b>亚尔</b> 伯婵	

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# 7.科研費を使用して開催した国際研究集会

[国際研究集会] 計9件

国際研究集会	開催年
Resoance Bio International Symposium	2019年~2019年
国際研究集会	開催年
Joint Meeting for Young Researchers on "Frontiers in Imaging Probes and	2019年~2019年
Technologies "	

8年
- 1
7年
7年
•
7年
7年
•
7年
6年

# 8. 本研究に関連して実施した国際共同研究の実施状況

共同研究相手国	相手方研究機関				
米国	The Scripps Research Institute				
その他の国・地域	The Chinese University of Hong Kong	National Tsing Hua University			
ドイツ	EMBO				
その他の国・地域	中央研究院				
アメリカ	Salk Institute				
台湾	Academia Sinica				
アメリカ	Stanford大学			他1機関	