**第一屆微生物組和以微生物組為基礎的治療學研討會**

**1st Symposium on Microbiome and Microbiome-Based Therapeutics (SMMT)**

**日期: 2024年10月05日**

**地點: 林口長庚紀念醫院 研究大樓1樓**

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| **時間** | **演講者** | **主持人** | **題目** | **演講時間(含討論)** |
| **08:00~08:30** | **報到** | | | |
| **08:30~08:40** | **開場致詞:** 程文俊主委、陳建宗院長、陳冠仰理事長 (台灣腸道醫學會)、吳俊穎理事長 (台灣微菌聯盟)、邱正堂理事長 (台灣消化系內視鏡醫學會) (其他貴賓邀請中) | | | |
| **08:40~09:30** | **Keynote Speaker:**  Gabriel Nuñez  MD/PhD/教授  University of Michigan Medical School, USA | 邱政洵 教授  副院長  林口長庚醫院 | Host-microbiota interactions in health and disease | 50分鐘 |
| **09:30~10:20** | **Keynote Speaker:**  Kiyoshi Takeda  MD/PhD/教授  日本大阪大學 | 謝世良 教授  特聘研究員  免疫醫學研究中心  國家衛生研究院 | Immunoregulation by antigen-presenting cells in gut: Mechanism and clinical implication | 50分鐘 |
| **10:20~10:35** | **Break** | | | |
| **10:35~10:55** | 李柏賢  副教授  胃腸肝膽科  林口長庚醫院 | 羅景全 教授  主任 胃腸肝膽科  臺北榮民總醫院 | Microbiome-based therapeutics for gastrointestinal diseases | 20分鐘 |
| **10:55~11:45** | **Keynote Speaker:**  Laura Martinez-Gili  PhD/教授  Imperial College London, UK | 鄭美玲 教授  生物醫學研究所 長庚大學 | Microbial and metabolomic phenotypes associated with FMT for gastrointestinal diseases | 50分鐘 |
| **11:45~12:15** | 徐瑋萱 副教授  成功大學醫學院 | 黃玉書 教授  主任  精神醫學部  林口長庚醫院 | Microbiome and gut-brain axis | 30分鐘 |
| **12:15~13:20** | **Lunch** | | | |
| **13:20~14:10** | **Keynote Speaker:**  Seth Rakoff-Nahoum  MD/PhD/副教授  Harvard Medical School, USA | 楊皇煜 教授  主任  醫學研究部  林口長庚醫院 | Ecological drivers of microbiota assembly in preterm infants | 50分鐘 |
| **14:10~14:40** | 邱政洵 教授  副院長  林口長庚醫院 | 吳俊忠 講座教授  院長  亞洲大學醫學暨健康學院 | Finding the keystone microbiota controlling gut homeostasis in sepsis | 30分鐘 |
| **14:40~15:10** | 賴信志  CEO  微大生技 | 賴志河 教授  長庚大學生物醫學研究所 | Next generation probiotics and potential clinical use | 30分鐘 |
| **15:10~15:20** | **Break** | | | |
| **15:20~15:40** | 陳倩琪 博士  食品工業發展研究所 (BCRC) | 高正彥 副教授  微生物及免疫學研究所  陽明交通大學 | Prebiotics and probiotics | 20分鐘 |
| **15:40~16:00** | 蔡明釗  副教授  胃腸肝膽科  高雄長庚醫院 | 蔡成枝 教授  副院長  高雄長庚醫院 | FMT for *Clostridioides difficile* infection in liver transplant patients | 20分鐘 |
| **16:00~16:30** | 吳偉愷  副教授  胃腸肝膽科  臺大醫院 | 張明鈴 教授  主任  胃腸肝膽科  林口長庚醫院 | Quantification of fecal bbu genes predicts L-carnitine-mediated TMAO production | 30分鐘 |
| **16:30~16:40** | **Closing Remarks** | | | |

**主辦:** 林口長庚紀念醫院 (醫學研究發展部、胃腸肝膽科、兒童內科部、分子感染症醫學研究中心、微菌治療中心)

**協辦:** 國家科學及技術委員會、台灣腸道醫學會、台灣微菌聯盟、台灣兒童感染症醫學會、台灣微生物學會、台灣消化系內視鏡醫學會、長庚大學分子醫學中心

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.   
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

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POSITION TITLE: Paul de Kruif Professor of Pathology

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

| INSTITUTION AND LOCATION | DEGREE  (if applicable) | Completion Date  MM/YYYY | FIELD OF STUDY |
| --- | --- | --- | --- |
| University of Seville Medical School, Spain | MD | 06/1977 | Medicine |
| UT Southwestern Medical Center, Dallas, TX | Postdoctoral | 06/1985 | Immunology |
| Washington University, St. Louis, MO | Resident | 06/1990 | Pathology |
| Howard Hughes Medical Institute, St. Louis, MO | Postdoctoral | 12/1990 | Molecular Biology |

**Kiyoshi TAKEDA, M.D. , Ph.D.**

Status Professor



Photograph of the presenting author

(40mm x 30mm)

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**Research Fields of Interest**

Mucosal Immunology, Inflammation, Microbiota, Epithelia

**Education and Appointment**

1992 M. D. Osaka University, Medical School

1998 Ph. D. Osaka University, Graduate School of Medicine

1998-1999 Research Associate, Hyogo College of Medicine

1999-2003 Research Associate, Research Institute for Microbial Diseases,

Osaka University

2003-2007 Professor, Medical Institute of Bioregulation, Kyushu University

2007-Present Professor, Immunology Frontier Research Center,

Graduate School of Medicine, Osaka University

2019-Present Director, Immunology Frontier Research Center, Osaka University

**Selected Publications**

1. Yokoi T, Murakami M, Kihara T, Seno S, Arase M, Wing JB, Søndergaard JN, Kuwahara R, Minagawa T, Oguro-Igashira E, Motooka D, Okuzaki D, Mori R, Ikeda A, Sekido Y, Amano T, Iijima H, Ozono K, Mizushima T, Hirota S, Ikeuchi H, Takeda K: **Identification of a unique subset of tissue resident memory CD4+ T cells in Crohn's disease. *Proc. Natl. Acad. Sci. USA*** 120, e2204269120 (2023).
2. Morita N, UmemotoE, Fujita S, HayashiA, Kikuta J, KimuraI, HanedaT, ImaiT, InoueA, MimuroH, Maeda Y, Kayama H, Okumura R, AokiJ, OkadaN, KidaT, IshiiM, Nabeshima R, Takeda K: GPR31-dependent dendrite protrusion of intestinal CX3CR1+ cells by bacterial metabolites.***Nature***566,110-114 (2019).
3. Okumura R, Kurakawa T, Nakano T, Kayama H, Kinoshita M, Motoka D, Gotoh K, Kimura T, Kamiyama N, Kusu T, Ueda Y, Wu H, Iijima H, Barman S, Osawwa H, Matsuno H, Nishimura J, Ohba Y, Nakamura S, Iida T, Yamamoto M, Umemoto E, Sano K, Takeda K: Lypd8 promotes the segregation of flagellated microbiota and colonic epithelia. ***Nature*** 532, 117-121 (2016)
4. Tsai SH, Kinoshita M, Kusu T, Kayama H, Okumura R, Ikeda K, Shimada Y, Takeda A, Yoshikawa S, Kurashima Y, Sato S, Umemoto E, Kiyono H, Karasuyama H, Takeda K: Ectoenzyme E-NPP3 (CD203c) negatively regulates ATP-dependent chronic allergic responses by basophils and mast cells. ***Immunity*** 42, 279-293 (2015).
5. Atarashi K, Nishimura J, Shima T, Umesaki Y, Yamamoto M, Onoue M, Yagita H, Ishii N, Evans R, Honda K, Takeda K: ATP drives lamina propria TH17 cell differentiation. ***Nature*** 455, 808-812 (2008).

**Laura Martinez-Gili, PhD, AFHEA**



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Liver unit/Division of Digestive Diseases, Department of Metabolism, Digestion and Reproduction, Faculty of Medicine. St Mary’s Hospital Campus, Imperial College London, 10th Floor, QEQM Wing, South Wharf Road, Paddington W2 1NY, UK

**Qualifications**

2009-2014 Doctor of Philosophy (PhD), *Universitat de Barcelona* (UB), Barcelona, Spain. “Role of ceramide produced by *de novo* synthesis in the lipotoxicity of non- alcoholic steatohepatitis”.

2009-2010 Master’s degree in Biomedical Research, *Universitat Pompeu Fabra* (UPF), Barcelona, Spain.

2004-2009 Bachelor’s degree in Biotechnology, *Universitat Autonoma de Barcelona*

(UAB), Barcelona, Spain.

**Current and previous appointments**

2021-present Research Fellow, Imperial College London, London, UK.

Lead in multi-omics and bioinformatics of the NIHR BRC Digestive Health theme. Design, planning, implementation and supervision of omics and statistics analytical frameworks for clinical studies aimed at understanding metabolic and infectious disease phenotypes and mechanisms of treatment effectiveness.

2019-2021 Postdoctoral Research Associate, Imperial College London, London, UK. Development and implementation of tailored bioinformatic pipelines and software for the analysis of clinical multi-omics datasets to improve diagnosis, prognosis and treatments of metabolic and gastrointestinal diseases (NIHR BRC Gut Health theme).

2015-2019 Postdoctoral Research Associate, Imperial College London, London, UK. Study of gut microbiota and its derived metabolites in neurodevelopmental disorders, neuroinflammation and cognition (ERA-NET NeuroINF project).

**Invited talks**

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| --- | --- |
| 2023 | *The gut microbiome role in the inadequate response to UDCA in primary biliary* |
| 2023 | *cholangitis*. Liver Unit Research Highlights, London (UK).  *Faecal microbiota transplantation, are bacteria the cornerstone?* European Congress |
| 2021 | of Clinical Microbiology and Infectious Diseases (ECCMID), Copenhagen (Denmark).  *Challenges of analysing microbes*. MDR Bioinformatics seminar series, London (UK). |
| 2021 | *Exploring bacterial and metabolic phenotypes in twins with inflammatory bowel* |
| 2018 | *disease*. Microbiome Network annual meeting, London (UK).  *Disease modulation by host and gut microbiota metabolism*. MRC London Institute of |
|  | Medical Sciences, London (UK). |
| 2017 | *The gut microbiome in a mouse model of Down’s Syndrome*. Nutrition and |
| 2016 | microbiome seminar series, London (UK).  *µNeuroINF: The Gut Microbiome in Neuroinflammation and Neuro-developmental* |
|  | *Disorders*. Nutrition and microbiome seminar series, London (UK). |

**Workshops**

2023 Microbiome in chronic liver disease. EASL Basic Science School, London (UK).

**Seth Rakoff-Nahoum, MD, PhD**

**Format for the Curriculum Vitae**



|  |  |
| --- | --- |
| **Date Prepared:** | **09/13/23** |
| **Name:** | **Seth Rakoff-Nahoum** |
| **Office Address:** | **Boston Children’s Hospital**  **300 Longwood Avenue**  **Boston, MA 02115** |
| **Home Address:** | 52 Fulkerson St.  Cambridge, MA 02141 |
| **Work Phone:** | **617-919-2999** |
| **Work Email:** | **[seth.rakoff-nahoum@childrens.harvard.edu](mailto:seth.rakoff-nahoum@childrens.harvard.edu)** |
| **Work FAX:** | 617-730-0254 |
| **Place of Birth:** | Brooklyn, NY |

[Education](http://cv.hms.harvard.edu/index.php?page=education" \o "click for detailed instructions)

|  |  |  |  |
| --- | --- | --- | --- |
| Year | Degree  (Honors) | Fields of Study  (Thesis advisor for doctoral research degrees) | Institution |

|  |  |  |  |
| --- | --- | --- | --- |
| 05/1998 | BA | Biology (with honors)  Religious Studies | Brown University |
| 05/2006 | PhD | Department of Immunobiology Laboratory of Ruslan Medzhitov | Yale University |
| 05/2009 | MD | Medicine (Medical Scientist Training Program) | Yale University School of Medicine |
|  |  |  |  |

Postdoctoral Training

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Title | Specialty/Discipline  (Lab PI for postdoctoral research) | Institution |

|  |  |  |  |
| --- | --- | --- | --- |
| 07/09-06/10 | Intern | Pediatrics | Boston Combined Residency in Pediatrics (Boston Children’s Hospital and Boston Medical Center) |
| 07/10-06/12 | Resident | Pediatrics | Boston Combined Residency in Pediatrics (Boston Children’s Hospital and Boston Medical Center) |
| 07/12-06/15  07/12-06/16 | Clinical Fellow  Postdoctoral Fellow | Pediatric Infectious Diseases  Infectious Diseases  (Laboratory of Laurie Comstock) | Boston Children’s Hospital  Brigham and Women’s Hospital/Harvard Medical School |

Faculty Academic Appointments

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Title | Specialty/Discipline  (Lab PI for postdoctoral research) | Institution |

|  |  |  |  |
| --- | --- | --- | --- |
| 07/15-06/16 | Instructor | Pediatrics | Harvard Medical School |
| 07/16-02/22  11/17-  4/18-  1/22-  02/23-present | Assistant Professor  Associate Member  Affiliated Faculty  Affiliated Faculty  Associate Professor | Pediatrics  Department of Microbiology  Center on the Developing Child  Pediatrics | Harvard Medical School  Broad Institute  Harvard Medical School  Harvard University  Harvard Medical School |
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Appointments at Hospitals/Affiliated Institutions

|  |  |  |  |
| --- | --- | --- | --- |
| 07/15-06/16 | Assistant in Medicine | Medicine | Boston Children’s Hospital |
| 07/16—2/23  07/16-  07/16-  07/16-10/18  04/17-  02/23-present | Associate in Medicine  Consultant Staff  Affiliate Staff  Consult Staff  Boston Children’s Hospital Microbiome Research  Endowed Investigator  Senior Associate in Medicine | Medicine (Infectious Diseases)  Medicine (Infectious Diseases) | Boston Children’s Hospital  BIDMC  BWH  DFCI  Boston Children’s Hospital  Boston Children’s Hospital |

CURRICULUM VITAE   
Name: Cheng-Hsun Chiu   
Sex: Male Birth Date: July 14, 1963 Birth Place: Miaoli, Taiwan Citizenship: R.O.C. Office Address: Department of Pediatrics, Chang Gung Children's Hospital, No. 5 Fu-Shin St., Kweishan 333, Taoyuan, Taiwan, R.O.C. FAX: (03)3288957 TEL: (03)3281200-8202 Education: 1. M.D. June, 1989, Chung Shan Medical and Dental College 2. Ph.D. September, 1997, Graduate Institute of Clinical Medicine, Chang Gung University College of Medicine (Supervisor: Prof. Jonathan T. Ou) 3. Postdoctoral Fellow, October 1997-March 1999, Division of Infectious and Immunological Diseases, Department of Pediatrics, University of British Columbia, Vancouver, British Columbia, Canada (Supervisor: Prof. David P. Speert) Employment Record: 1. Resident, June 28, 1989-June 30, 1992, Department of Pediatrics, Chang Gung Memorial Hospital. 2. Chief Resident, July 1, 1992-June 30, 1993, Department of Pediatrics, Chang Gung Memorial Hospital. 3. Attending Physician, since July 1, 1993, Department of Pediatrics, Chang Gung Children's Hospital. 4. Assistant Professor, July 1, 1995-June 30, 2003, Department of Pediatrics, Chang Gung Children's Hospital and Chang Gung University. 5. Associate Professor, July 1, 2003-June 30, 2005, Department of Pediatrics, Chang Gung Children's Hospital and Chang Gung University. 6. Professor, since July 1, 2005, Department of Pediatrics, Chang Gung Children's Hospital and Chang Gung University. Honors: 1. Best Intern Award, 1989, Chang Gung Memorial Hospital. 2. Louis Pasteur Award, 1st place of free paper presentation in microbiology, 1st World Congress of Pediatric Infectious Diseases, World Society of Pediatric Infectious Diseases, 1996. 3. Merck Foundation Research Award, 1997, Merck Sharp & Dohme (I.A.) Corp., Taiwan Branch and Chinese Taipei Pediatric Association. 4. First prize in free paper, 2001 Annual Meeting of Chinese-American Microbiology Society, May 21, 2001, Orlando, Florida, U.S.A.: Su LH, Chiu CH, Wu TL, Ou JT, Riley TV, Chang BJ. Penetration of clinical isolates of Serratia marcescens through MDCK epithelial monolayer.



**徐 瑋萱**

副教授

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學歷

* 國立臺灣大學生化科技學系 博士

經歷

* 2018 ~ 迄今 國立成功大學食品安全衛生暨風險管理研究所 助理教授
* 2015 ~ 2018 工業技術研究院生醫與醫材研究所 研究員
* 2014 ~ 2015 美國普渡大學醫藥科學系 博士後研究員
* 2013 ~ 2014 國立臺灣大學生化科技學系 博士後研究員

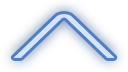
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* 食品微生物
* 食品發酵與生物技術
* 新型食品加工
* 食品品質管制
* 機能性食品
* 微生物與腸道功能

Curriculum Vitae   
Name：Le, Puo-hsien (李柏賢) Education： 2001/9-2009/6 Chang Gung University College of Medicine, Taoyuan 333, Taiwan Post-Graduate Education： 2013/06/24 Tumor speciallist training course 2014/07 National Cancer Center, Tokyo, Japan 2018/12/21-22 Cellular therapy traning course 2019/01/05 Fecal microbiota transplantation training course 2019/11 University of Chicago IBD Center Academic Appointment（lnclude Teaching Experience）： 1. Member of the new Editorial Board for the Artificial Intelligence in Gastroenterology, 2021/01/01 – 2024/12/31 2. Official peer reviewer for the World Journal of Clinical Cases. 2021/09/01 – 3. Deputy Secretary-General, Taiwan Association for the Study of Small Intestinal Diseases, 2019/03/31-2022/03/31 Employment Record： 2009/08-2014/7 Resident, Internal Medicine, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2012/08-2014/7 Fellowship, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2014/08/01-2018/07/01 Attending physician, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2018/07/01-2022/07/01 Assistant professor, attending physician, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2022/07/01- Associate professor, attending physician, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, TaoyuanCurriculum Vitae Name：Le, Puo-hsien (李柏賢) Education： 2001/9-2009/6 Chang Gung University College of Medicine, Taoyuan 333, Taiwan Post-Graduate Education： 2013/06/24 Tumor speciallist training course 2014/07 National Cancer Center, Tokyo, Japan 2018/12/21-22 Cellular therapy traning course 2019/01/05 Fecal microbiota transplantation training course 2019/11 University of Chicago IBD Center Academic Appointment（lnclude Teaching Experience）： 1. Member of the new Editorial Board for the Artificial Intelligence in Gastroenterology, 2021/01/01 – 2024/12/31 2. Official peer reviewer for the World Journal of Clinical Cases. 2021/09/01 – 3. Deputy Secretary-General, Taiwan Association for the Study of Small Intestinal Diseases, 2019/03/31-2022/03/31 Employment Record： 2009/08-2014/7 Resident, Internal Medicine, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2012/08-2014/7 Fellowship, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2014/08/01-2018/07/01 Attending physician, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2018/07/01-2022/07/01 Assistant professor, attending physician, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, Taoyuan 2022/07/01- Associate professor, attending physician, Department of Gastroenterology and Hepatology, Chang Gung Memorial Hospital, Linkou branch, Taoyuan



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[](https://web.nstc.gov.tw/cen/oaa/award_109/48301694604.html#top)

**賴信志 主任**

•微大生技REVIVEBIO CO., LTD. 總經理

長庚大學 微生物相研究中心主任

長庚大學 特聘教授

台灣微生物學會常務理事  
台灣微菌聯盟理事

**學歷**

* 英國劍橋大學病理系所博士 ( 1994 )
* 國立陽明醫學院微生物及免疫學系所碩士 ( 1988 )
* 國立臺灣大學醫技系學士 ( 1986 )

**經歷**

* 長庚大學微生物相研究中心 ( 2018/3 ～ 迄今 )
* 長庚大學醫學生物技術暨檢驗學教授及國立臺灣大學兼任教授 ( 2007/8 ～ 迄今 )
* 長庚大學醫學生物技術暨檢驗學系主任／ 所長 ( 2007/8～2018/7 )



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蔡明釗

長庚醫療財團法人高雄長庚紀念醫院 主治醫師

醫師專長

* 慢性B,C肝炎治療
* 肝癌診斷及侵入性射頻燒灼治療
* 消化道疾病及診斷性內視鏡

醫師專科

* 胃腸肝膽科

看診單位

|  |  |
| --- | --- |
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| 執業縣市 | 高雄市 |

醫師經歷

|  |  |
| --- | --- |
| 現職 | 高雄長庚紀念醫院 胃腸肝膽科系 肝臟科負責人(2023.07)  高雄長庚紀念醫院 胃腸肝膽科系 副教授主治醫師(2020.07) |
| 經歷 | 高雄長庚紀念醫院  胃腸肝膽科系病房主任  高雄長庚醫院內科部住院醫師  高雄長庚醫院胃腸肝膽科系研究員  高雄縣鳳山醫院胃腸肝膽科主治醫師  長庚大學  醫學系兼任助理教授 |

醫師學歷

* 中國醫藥大學中醫學系畢
* 長庚大學臨床醫學研究所博士班畢業(2022.01)
* 美國西奈山醫院Mount Sinai Hospital 進修
* ---肝臟移植後纖維化分子生物醫學暨臨床移植肝臟醫學研究(2014.7~2016.6)

偉愷醫師

|  |  |
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