The 2nd Japan - Germany Symposium on Advanced Preventive Medicine 2019

October 3-4, 2019 @Kanazawa, Japan
Welcome Message.

I would like to extend my warmest welcome to all the participants of the second Japan-Germany Symposium on Advanced Preventive Medicine, being held in Kanazawa, Japan, on October 2-3, 2019.

The Joint Graduate School of Advanced Preventive Medical Sciences among three universities: Chiba, Kanazawa, and Nagasaki Universities, was newly established in April 2016, in order to develop human resources who can practice tailor-made prevention based on various life stages and personal and environmental characteristics through elucidating genome-environment interactions in diseases and health. Our Joint Graduate School would like to establish a "double degree program" (DDP) with Heinrich-Heine University (HHU) in Germany as part of the globalization of the graduate school. For this purpose, we established an inter-university agreement with HHU, set up the Kanazawa University office at HHU, and held the first Germany-Japan Symposium at HHU in September 2018.

I would be very honored to hold the second Japan-Germany Symposium on Advanced Preventive Medicine here in Kanazawa, for facilitating scientific collaboration between our three universities and HHU. I believe that collaborative researches among these four universities will advance comparative sciences between Germany and Japan in the field of genome-environment interactions. I hope that the researchers will understand each other more deeply through interaction and discussion in this symposium, which leads to establishing the "double degree program" in near future.

Thank you for your participation and friendship.

October 2, 2019

Prof. Hiroshi ICHIMURA
Dean,
Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
Program
1. Title of the symposium
   The 2nd Japan - Germany Symposium on Advanced Preventive Medicine 2019

2. Host
   Kanazawa University Graduate School of Advanced Preventive Medical Sciences
   Kanazawa University Advanced Preventive Medical Sciences Research Center

3. Co-sponsored
   The Juzen Medical Society (Kanazawa University), The Alumni Association of the Juzen Medical Society (Kanazawa University), 金沢大学法人主導（トップダウン型研究課題）「機械学習を用いた医療関連ビッグデータ解析研究：多目的コホート統合ビッグデータを用いた超スマート医療実現化プロジェクト」（研究代表: Prof. Atshushi TAJIMA），金沢大学戦略的研究推進プログラム「超然プロジェクト」（国際共同研究スタートアップ支援）（研究代表：Prof. Toshinari TAKAMURA）

4. Detail
   1) Date: October 3rd (Thu)～October 4th(Fri), 2019
   2) Place: Shiinoki Cultural Complex, Ishikawa Prefecture, 2-1-1Hirosaka, Kanazawa, Ishikawa
      石川県政記念 しいのき迎賓館（石川県金沢市広坂2丁目1番1号）
Schedule for the 2nd Japan - Germany Symposium on Advanced Preventive Medicine

Research progress

<table>
<thead>
<tr>
<th>Date</th>
<th>Oct 3 (Thu), 2019</th>
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</thead>
<tbody>
<tr>
<td>Place</td>
<td>Shiinoki Geihinkan (Garden Room)</td>
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<tr>
<td>Subject Matters</td>
<td>Research progress (7 min + Q&amp;A 3min); Oral presentation</td>
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<td>Targets: Graduate students from Kanazawa-Chiba-Nagasaki Graduate School of Advanced Preventive Medical Sciences</td>
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</tbody>
</table>

**Kanazawa University**

**Chair: Prof. Shuichi KANEKO**

1. Serum aldo-keto reductase family 1 member B10 predicts advanced liver fibrosis and fatal complications of nonalcoholic steatohepatitis

   **Masatake Kanno**¹, Kazunori Kawaguchi², Masao Honda³, Shuichi Kaneko¹
   1) Department of System Biology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
   2) Gastroenterology, Department of Clinical Medicine, kanazawa University Hospital
   3) Laboratory Sciences, Faculty of Health Sciences, Institute of Medical, Pharmaceutical and Health Sciences, kanazawa University

**Chair: Prof. Toshinari TAKAMURA**

2. Pathological trajectories of non-alcoholic fatty liver disease in Japanese

   **Saori Sako**¹, Yumie Takeshita¹, Hitoshi Ando², Kiyoki Ishii³, Hiromasa Tsujiguchi⁴, Eishiro Mizukoshi⁵, Tatsuya Yamashita⁶, Kuniaki Arai⁷, Masao Honda⁸, Hiroyuki Nakamura⁹, Ken-ichi Harada¹⁰ Shuichi Kaneko¹¹, Toshinari Takamura¹¹
   1) Department of Endocrinology and Metabolism, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
   2) Cellular and Molecular Function Analysis, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University
   3) Endocrinology and Metabolism, Department of Internal Medicine, Graduate School of Medical Sciences
   4) Department of Environmental and Preventive Medicine, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University
   5) Gastroenterology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University
6) Department of Gastroenterology, Advanced Preventive Medical Sciences Research Center, Kanazawa University
7) Gastroenterology, Department of Clinical Medicine, Kanazawa University Hospital
8) Laboratory Sciences, Faculty of Health Sciences, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University
9) Department of Public Health, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
10) Human Pathology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, kanazawa University
11) Department of System Biology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University

3. Identification of a gene predicting glucose-lowering effect of metformin

Takeo Tanaka1), Yumie Takeshita1), Kiyoaki Ishii2), Shigeyuki Matsui3), Toshinari Takamura1)
1) Department of Endocrinology and Metabolism, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
2) Endocrinology and Metabolism, Department of Internal Medicine, Graduate School of Medical Sciences
3) Department of Biostatistics, Nagoya University Graduate School of Medicine

Chair: Prof. Hiroyuki NAKAMURA

4. Dietary Calcium Intake and Hypertension: Importance of Serum Concentrations of 25-Hydroxyvitamin D

Haruki Nakamura1), Hiromasa Tsujiguchi2), Akinori Hara3), Yasuhiro Kambayashi2), Sakaie Miyagi2), Thao Thi Thu Nguyen2), Keita Suzuki1), Yuichi Tao3), Yuriko Sakamoto3), Yukari Shimizu3), Norio Yamamoto4), Hiroyuki Nakamura1)
1) Department of Public Health, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
2) Department of Environmental and Preventive Medicine, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University
3) Environmental and Preventive Medicine, Department of Social and Environmental Medicine, Graduate School of Medical Sciences
4) Orthopaedic Surgery, Department of Surgery, Graduate School of Medical Sciences, kanazawa University

5. Association between serum concentrations of 25-hydroxyvitamin D and chronic pain: Effect of alcohol drinking habit

Keita Suzuki1), Hiromasa Tsujiguchi2), Sakaie Miyagi2), Thao Thi Thu Nguyen2), Akinori Hara2), Haruki Nakamura1), Yukari Shimizu3), Koichiro Hayashi1), Yohei
Yamada1, Phat Minh Nguyen3, Yuichi Tao3, Yuriko Sakamoto3, Masaharu Nakamura3, Hiroyuki Nakamura1

1) Department of Public Health, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
2) Department of Environmental and Preventive Medicine, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University
3) Environmental and Preventive Medicine, Department of Social and Environmental Medicine, Graduate School of Medical Sciences

Chiba University

Chair: Dr. Kenichi SAKURAI

6. Elder Abuse and Social Capital in Older Adults: The Japan Gerontological Evaluation Study
   Chie Koga1, Masamichi Hanazato2, Taishi Tsuji2, Norimichi Suzuki2, Katsunori Kondo2,3
   1) Department of Social Preventive Medical Sciences, Advanced Preventive Medical Sciences, Graduate School of Medical and Pharmaceutical Sciences, Chiba University
   2) Center for Preventive Medical Sciences, Chiba University
   3) Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology

7. Maternal gut microbiota is associated with fetal growth in a sex-specific manner
   Yumi Sato1, Kenichi Sakurai2, Hiromi Tanabe2, Tamotsu Kato3, Yumiko Nakanishi3, Hiroshi Ohno3,4, Chisato Mori2,5
   1) Department of Nutrition and Metabolic Medicine, Advanced Preventive Medical Sciences, Graduate School of Medical and Pharmaceutical Sciences, Chiba University
   2) Center for Preventive Medical Sciences, Chiba University, Chiba, Japan
   3) Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences
   4) Intestinal Microbiota Project, Kanagawa Institute of Industrial Science and Technology
   5) Department of Bioenvironmental Medicine, Graduate School of Medicine, Chiba University

Chair: Prof. Chisato MORI

8. Indoor Air Quality and Health ～Chemires Town Project Phase III～
   Kayo Tsumura1, Hiroko Nakaoka2, Norimichi Suzuki2, Yoshitake Nakayama2, Chisato Mori2
| 1) Department of Global Preventive Medicine, Advanced Preventive Medical Sciences, Graduate School of Medical and Pharmaceutical Sciences, Chiba University  
2) Center for Preventive Medical Sciences, Chiba University  

T. Takasugi¹², T. Tsuji³, Y. Nagamine³, Y. Miyaguni⁴ and K. Kondo³⁴.  
1) Department of Social Preventive Medical Sciences, Advanced Preventive Medical Sciences, Graduate School of Medical and Pharmaceutical Sciences, Chiba University  
2) Business R&D Department, Risk Management Business Unit, Sompo Risk Management Inc  
3) Department of Social Preventive Medical Science, Center for Preventive Medical Sciences, Chiba University  
4) Department of Gerontological Evaluation, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology  

### Nagasaki University  
**Chair: Prof. Yuji NAGAYAMA**  

#### 10. Intention to return to the town of Tomioka in residents 7 years after the accident at Fukushima Daiichi Nuclear Power Station.  
H. Matsunaga¹, M. Orita², Y. Taira², Y. Yamada¹² and N. Takamura².  
1) Department of Global Health, Medicine and Welfare, Division of Advanced Preventive Medical Sciences, Graduate School of Biomedical Sciences, Nagasaki University  
2) Department of Global Health, Medicine and Welfare, Atomic Bomb Disease Institute, Nagasaki University  

TMH. Luong¹, D. Niino³, K. Matsuda¹, H. Kurohama¹, M. Ito³, M. Nakashima¹.  
1) Department of Tumor and Diagnostic Pathology, Division of Advanced Preventive Medical Sciences, Graduate School of Biomedical Sciences, Nagasaki University  
2) Department of hology, Sasebo City Medical Center  
3) Department of Pathology, National Hospital Organization Nagasaki Medical Center
<table>
<thead>
<tr>
<th>Chair: Dr. Yasuyo ABE</th>
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<tbody>
<tr>
<td><strong>12.</strong> Factors associated with parenting stress among mothers with infants aged one and a half years.</td>
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<tr>
<td>A. Kit¹), K. Arima¹), S. Mizukami¹), Y. Tomita¹), T. Nishimura¹), Y. Abe¹), K. Aoyagi ¹)</td>
</tr>
<tr>
<td>1) Department of Public Health, Division of Advanced Preventive Medical Sciences, Graduate School of Biomedical Sciences, Nagasaki University</td>
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<tr>
<th>Chair: Prof. Atsushi KAWAKAMI</th>
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<tr>
<td><strong>13.</strong> Preoperative detection of TERT promoter mutations in papillary thyroid carcinomas</td>
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<tr>
<td>T. Nakao¹), N. Mitsutake²), M. Matsuse²), A. Tanaka³), M. Hirokawa⁴), A. Miyauchi⁵), A. Kawakami¹)</td>
</tr>
<tr>
<td>1) Department of Immunology and Rheumatology, Division of Advanced Preventive Medical Sciences, Graduate School of Biomedical Sciences, Nagasaki University</td>
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<tr>
<td>2) Department of Radiation Medical Sciences, Atomic Bomb Disease Institute, Nagasaki University</td>
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<tr>
<td>3) Department of Surgical Oncology, Department of Medical and Dental Sciences, Graduate School of Biomedical Sciences, Nagasaki University</td>
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<tr>
<td>4) Department of Diagnostic Pathology and Cytology, Kuma Hospital</td>
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<tr>
<td>5) Department of Surgery, Kuma Hospital, Kobe, Japan</td>
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| **14.** Expression of SLAMF6 and its functional significance in podocytes of lupus nephritis. |
| T. Igawa¹), K. Ichinose¹), A. Umetsu¹), K. Hara¹), S. Nishihata¹), M. Okamoto¹), Y. Endo¹), S. Tsuji¹), Y. Tsuji¹), A. Takatani¹), T. Shimizu¹), R. Sumiyoshi¹), T. Koga¹), S. Kawashiri¹), N. Iwamoto¹), M. Tamai¹), H. Nakamura¹), T. Origuchi¹), A. Kawakami¹) |
| 1) Department of Immunology and Rheumatology, Division of Advanced Preventive Medical Sciences, Graduate School of Biomedical Sciences, Nagasaki University |

| 12:00~ Lunch | Lunch box |
# Opening remarks

13:00~
[In English] @Shiinoki Geihinkan (Garden Room)

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<tr>
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<th>Opening remarks</th>
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<tr>
<td>1.</td>
<td>Koetsu YAMAZAKI, President, Kanazawa University</td>
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<td>2.</td>
<td>Prof. Hiroshi ICHIMURA, Dean, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University</td>
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<tr>
<td>3.</td>
<td>Prof. Heiner FANGERAU, Director of Department of the History, Philosophy and Ethics of Medicine, Heinrich-Heine University</td>
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<td>4.</td>
<td>Prof. Chisato MORI, Director, Center for Preventive Medical Sciences, Chiba University</td>
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<td>5.</td>
<td>Prof. Yuji NAGAYAMA, Chief, Division of Advanced Preventive Medical Sciences, Graduate School of Biomedical Sciences, Nagasaki University</td>
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<Photo session>
The 1st day

13:40~
[In English]
@Shiinoki
Geihinkan
(Garden Room)

Diabetes and Metabolism session

Special lecture

Chair: Prof. Toshinari TAKAMURA (Kanazawa U)

1. The integrative biology of type 2 Diabetes- Lessons from studying humans
   Prof. Michael RODEN (HHU) (30 min)

2. Introduction to the research group Inflammation [DDZ]
   Prof. Christian HERDER (HHU) (10 min)

3. The Role of Mitochondrial Function for the Development of Insulin Resistance
   Prof. Julia SZENDRÖDI (HHU) (10 min) +10 min Q&A
   <Tea break 10 min>

Chairs: Prof. Julia SZENDRÖDI (HHU) and Prof. Norio ABIRU (Nagasaki U)

4. Project S.H.I.P: a prospective genome-cohort study in Kanazawa
   Prof. Atsushi TAJIMA (Kanazawa U) (15 min talk + 5 min Q&A)

5. Lessons from NOD mouse as a model of human type 1 diabetes
   Prof. Norio ABIRU (Nagasaki U) (15 min talk + 5 min Q&A)

6. Lessons from type 2 diabetic liver
   Prof. Toshinari TAKAMURA (Kanazawa U) (15 min talk + 5 min Q&A)

7. Critical roles of gut microbiota in self-renewal of hematopoietic stem cells and leukemogenesis
   Prof. Atsushi HIRAO (Kanazawa U) (15 min talk + 5 min Q&A)

Environment and Health session

Chair: Prof. Michael RODEN (HHU)

8. Air pollution and Health
   Prof. Tamara SCHIKOWSKI (HHU) (20 min + 5 min Q&A)
   <Tea break 10 min>

Chairs: Prof. Prof. Christian HERDER (HHU) and Prof. Chisato MORI (Chiba U)

   Prof. Chisato MORI (Chiba U) (15 min + 5 min Q&A)

10. Effects of Environmental Chemicals on Respiratory Disorders including Allergic Diseases
    Prof. Hiroyuki NAKAMURA (Kanazawa U) (15 min + 5 min Q&A)

11. An overview of the research focuses of the Institute for Health Services Research and Health Economics
    Dr. Jana SOMMER (HHU) (15 min + 5 min Q&A)
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>[In English]</td>
<td>Special lecture</td>
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<td>Chair: Prof. Yuji NAGAYAMA (Nagasaki U)</td>
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<td>12.</td>
<td>Inflammatory arthritis research through systemic autoimmunity, joint</td>
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<td>imaging and epidemiology field</td>
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<td>Prof. Atsushi KAWAKAMI (Nagasaki U) (20 min + 5 min Q&amp;A)</td>
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<td>18:30~</td>
<td>Closing remarks</td>
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<tr>
<td>[In English]</td>
<td>Vice president Shigeki OTAKE (Kanazawa U)</td>
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The 2nd day

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<tr>
<th>Date</th>
<th>Oct 4 (Fri), 2019</th>
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<tbody>
<tr>
<td>Place</td>
<td>Shiinoki Geihinkan (Garden room)</td>
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<tr>
<td>Subject Matters</td>
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<td>AM (9:15~)</td>
<td>Special lecture</td>
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<tr>
<td>[In English]</td>
<td>Chair: Prof. Heiner FANGERAU (HHU)</td>
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<tr>
<td>@Shiinoki Geihinkan (Garden Room)</td>
<td>13. Knowledge translation for healthy ageing: lessons learnt from the Japan Gerontological Evaluation Study (JAGES) Prof. Katsunori KONDO (Chiba U) (20 min + 5 min Q&amp;A)</td>
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<td>Immunology and infection session</td>
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<td>Chairs: Prof. Makoto KURACHI (Kanazawa U) and Prof. Münk CARSTEN (HHU)</td>
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<td>14. HIV-1 cell biology: host factors and pharmacological inhibitors in sensing and restriction Prof. Carsten MÜNK (HHU) (15 min + 5 min Q&amp;A)</td>
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<td>15. Characterization of exosomes, endogenous nano-particles Prof. Rikinari HANAYAMA (Kanazawa U) (15 min + 5 min Q&amp;A)</td>
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<td>16. HIV infection among children in Kenya Prof. Hiroshi ICHIMURA (Kanazawa U) (15 min + 5 min Q&amp;A)</td>
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<td>&lt;Tea break 10 min &gt;</td>
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<td>Neuronal disorders session</td>
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<td>Chairs: Prof. Noriyuki OZAKI (Kanazawa U) and Dr. Bastian NONNENBERG (HHU)</td>
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<td>17. Dementia research in Kanazawa: From clinical and epidemiological studies to molecular pathogenesis and prevention Dr. Moeko SHINOHARA (Kanazawa U) (15 min + 5 min Q&amp;A)</td>
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<td>18. Non-verbal communications in humans Prof. Kazuyuki SHINOHARA (Nagasaki U) (15 min + 5 min Q&amp;A)</td>
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<td>Special lecture</td>
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<td>Chair: Prof. Atsushi KAWAKAMI (Nagasaki U)</td>
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<td>19. Combating hepatocellular carcinoma Prof. Shuichi KANEKO (Kanazawa U) (20 min + 5 min Q&amp;A)</td>
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<td>12:15~</td>
<td>Closing remarks</td>
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<tr>
<td>[In English]</td>
<td>Dean Hiroshi ICHIMURA (Kanazawa U)</td>
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<td>12:20~</td>
<td>Departure</td>
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</tbody>
</table>
# Collaboration meeting for each project

**Participants from Heinrich-Heine University**

<table>
<thead>
<tr>
<th>Name (Last name, first name)</th>
<th>Position</th>
<th>Email</th>
<th>Introduction Link</th>
</tr>
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<tbody>
<tr>
<td>1. Roden, Michael</td>
<td>Professor, Head of German Diabetes Center Düsseldorf</td>
<td><a href="mailto:Michael.Roden@med.uni-duesseldorf.de">Michael.Roden@med.uni-duesseldorf.de</a></td>
<td><a href="https://ddz.de/en/research-at-the-ddz/institute-for-clinical-diabetology/inflammation">https://ddz.de/en/research-at-the-ddz/institute-for-clinical-diabetology/inflammation</a> Diabetes</td>
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<td>ローデン・ミハエル</td>
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<tr>
<td>2. Herder, Christian</td>
<td>Professor, (Team Prof. Roden) Research Team Leader at German Diabetes Center Düsseldorf</td>
<td><a href="mailto:christian.herder@ddz.uni-duesseldorf.de">christian.herder@ddz.uni-duesseldorf.de</a></td>
<td><a href="https://ddz.de/en/research-at-the-ddz/institute-for-clinical-diabetology/inflammation">https://ddz.de/en/research-at-the-ddz/institute-for-clinical-diabetology/inflammation</a> Diabetes</td>
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<tr>
<td>ヘアダ・クリスチアン</td>
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<tr>
<td>3. Szendrödi, Julia</td>
<td>PD Dr. (PhD), (Team Prof. Roden) Principal Investigator at Diabetes Center Düsseldorf</td>
<td><a href="mailto:Julia.Szendroedi@med.uni-duesseldorf.de">Julia.Szendroedi@med.uni-duesseldorf.de</a></td>
<td><a href="http://www.sfb1116.hhu.de/project-groups/project-group-b-metabolic-and-systemic-effectors/project-b05-szendroediwestenfeld.html">http://www.sfb1116.hhu.de/project-groups/project-group-b-metabolic-and-systemic-effectors/project-b05-szendroediwestenfeld.html</a> Diabetes</td>
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<tr>
<td>5. Sommer, Jana</td>
<td>PhD, (Team Prof. Icks and Prof. Roden) Researcher (German Diabetes Center and Institute for Health Services Research and Health Economics)</td>
<td><a href="mailto:Jana.Sommer@hhu.de">Jana.Sommer@hhu.de</a></td>
<td><a href="https://www.uniklinik-duesseldorf.de/patientenbesucher/klinikeninstitutzentren/institut-fuer-versorgungsforschung-und-gesundheitsoekonomie/team">https://www.uniklinik-duesseldorf.de/patientenbesucher/klinikeninstitutzentren/institut-fuer-versorgungsforschung-und-gesundheitsoekonomie/team</a> Economic burden in diabetes</td>
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<td>ゾマ・ヤーナ</td>
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<tr>
<td>6. Schikowski, Tamara</td>
<td>PhD, (Team Prof. Krutmann) Head of research group “Environmental epidemiology of lung, brain and skin aging”</td>
<td><a href="mailto:Tamara.Schikowski@IUF-Duesseldorf.de">Tamara.Schikowski@IUF-Duesseldorf.de</a></td>
<td><a href="http://www.iuf-duesseldorf.com/schikowski-team.html">http://www.iuf-duesseldorf.com/schikowski-team.html</a> influence of air pollution on lung function, inflammation and aging</td>
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<td>シコフスキ・タマラ</td>
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<td>7. Dukart, Jürgen</td>
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<td>PhD, (Team Prof. Eickhoff)</td>
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<tr>
<td>Leader of the working group &quot;Biomarker Development&quot;</td>
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<td><a href="https://www.fz-juelich.de/SharedDocs/Personen/INM/INM-7/EN/Dukart_j.html;nn=654218">https://www.fz-juelich.de/SharedDocs/Personen/INM/INM-7/EN/Dukart_j.html;nn=654218</a></td>
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<td>biomarkers and therapeutic targets in neuronal diseases, neuroscience</td>
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<th>8. Fangerau, Heiner</th>
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<tr>
<td>ファンゲラウ・ハイナー</td>
</tr>
<tr>
<td>Professor, Director of Department of the History, Philosophy and Ethics of Medicine</td>
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<tr>
<td><a href="mailto:heiner.fangerau@uni-duesseldorf.de">heiner.fangerau@uni-duesseldorf.de</a></td>
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<td>クリシェル・マッティス</td>
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<td>PhD, (Team Prof. Fangerau)</td>
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<tr>
<td>Research fellow Department of the History, Philosophy and Ethics of Medicine</td>
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<tr>
<td><a href="mailto:Matthias.Krischel@med.uni-duesseldorf.de">Matthias.Krischel@med.uni-duesseldorf.de</a></td>
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<td>Research fellow Department of the History, Philosophy and Ethics of Medicine</td>
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<tr>
<td><a href="mailto:AnneKristin.Oommen-Halbach@med.uni-duesseldorf.de">AnneKristin.Oommen-Halbach@med.uni-duesseldorf.de</a></td>
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<td>シマダ・シンゴ</td>
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<tr>
<td>Professor, head of the Department of Modern Japanese Studies II (Sociology)</td>
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<tr>
<td><a href="mailto:shimada@phil.hu.de">shimada@phil.hu.de</a></td>
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<td>Associate Prof. @SHIMADA Lab</td>
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<th>13. Piekenbrock, Tómoki</th>
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<tr>
<td>ピーケンブロック・トモキ</td>
</tr>
<tr>
<td>Master student @SHIMADA Lab</td>
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</table>
The integrative biology of type 2 diabetes- Lessons from studying humans

Dr. Michael RODEN
Professor of Medicine, Endocrinology and Metabolic Diseases, Director, Division of Endocrinology and Diabetology, Heinrich-Heine University (HHU) and University Clinics Düsseldorf (UKD), Germany
Chief Scientific Executive Officer, German Diabetes Center (DDZ), Leibniz Center of Diabetes Research, Düsseldorf Germany
E-mail michael.roden@ddz.de

Research focus
My scientific interests comprise clinical-experimental and basic research on the (patho)physiology of energy metabolism with a focus on the understanding of insulin resistance, obesity, nonalcoholic fatty liver diseases (NAFLD) and diabetes mellitus. I have developed and employed methods to non-invasively trace metabolic fluxes using magnetic resonance spectroscopy and stable isotopes in cohorts with and without diabetes mellitus. With this technology, my group contributed paradigm-shifting studies on the regulation of glycogen turnover, ectopic fat stores and mechanism of lipid- and amino acid-induced insulin resistance in humans. More recently, I focused on the role of mitochondrial function in metabolic diseases.

15 Key publications

Professional education and training
1986 Graduation as Dr. med. univ., University of Vienna, Austria
1993/97/03 Certification in Internal Medicine, Endocrinology& Metabolism Clinical Pharmacology, Austria
1994-95 Max-Kade-Fellow, Austrian Academy of Science, Yale University, CT, USA
1997-06 Associate Professor, of Medicine, Univ. of Vienna, Austria
2001-08 Head, 1. Med. Dept., Hanusch Hospital, (Teaching Hospital of Medical Univ. Vienna), Vienna, Austria
2008- Chair/Professor/Director, Div. of Metab. Diseases, later Endocrinol.&Diabetol., HHU/UKD, Düsseldorf
2009- Chief Scientific Executive Officer, DDZ, Head, Institute for Clinical Diabetology at DDZ, Düsseldorf
2016- Member, German Council of Science and Humanities (WR), appointed by the President of Germany
2017- Head, Committee Medicine of the WR, Germany

Selected awards
2004 International Novartis Award for Innovative Patient Oriented Research, Young Investigator
2006 ESCI (Mack-Foster) Award for Excellence in Clinical Sciences, Europ. Soc. for Clin. Invest
2006 Oskar-Minkowski Prize, Europ. Assoc. for the Study of Diabetes (EASD)
2013 Honorary Doctorate, Dr. h. c., Medical Faculty, University of Belgrade
2014 Somogyi Award, Hungarian Diabetes Association
2016 Honorary Doctorate, Dr. h. c., Medical School, University of Athens
2017 Paul Langerhans Medal, German Diabetes Association
2018 19th Areteaus lecture, Hellenic Diabetes Association
2018 G. B. Morgagni Prize - Gold Medal Career Achievement Association, Italy
Introduction to the research group Inflammation [DDZ]

**Dr. Christian HERDER**
Professor (Epidemiology), Medical Faculty, Heinrich Heine University Düsseldorf, Germany

Head of the research group Inflammation, Institute for Clinical Diabetology, German Diabetes Center (DDZ), Leibniz Center for Diabetes Research, Düsseldorf, Germany

Guest scientist, Division of Endocrinology and Diabetology (Director Prof. Dr. Michael Roden), Medical Faculty, Heinrich Heine University Düsseldorf, Germany

E-mail christian.herder@ddz.de

**Research focus**
We focus on epidemiological and mechanistic studies on the role of inflammation-mediated processes in the development and progression of type 2 diabetes. Our studies sharpened the concept that inflammation - as independent risk factor or induced by lifestyle and environmental factors - contributes to the development of type 2 diabetes and its chronic macro- and microvascular complications and therefore represents a promising therapeutic target in disease prevention and treatment. Recent publications included the first prospective studies on multiple inflammation-related biomarkers and pathways as predictors of incident sensorimotor polyneuropathy.

**Key publications**

**Professional education and training**
1993-1999 Heinrich Heine University Düsseldorf and University of Edinburgh (UK): Studies in Biology
1999 Diploma (Biology) Heinrich Heine University Düsseldorf
2003 Doctorate (Dr. phil. nat./Biochemistry), Johann Wolfgang Goethe University, Frankfurt am Main, Germany
2009 Master of Science (M.Sc.) in Epidemiology, Johannes Gutenberg University Mainz, Germany
2012 “Habilitation” in Epidemiology (highest academic qualification in Germany), Medical Faculty Heinrich Heine University Düsseldorf
2017 Professor (Apl. Prof.), Epidemiology, Medical Faculty, Heinrich Heine University Düsseldorf,

**Selected awards**
2007 Jühling Prize from the Anna Wunderlich-Ernst Jühling Foundation (Germany)
2009 Lecture in the Rising Star Symposium, Annual Meeting of the European Association for the Study of Diabetes (EASD)
2013 Ferdinand Bertram Prize (German Diabetes Association/DDG)
2016 Hans Christian Hagedorn Grant (German Diabetes Association/DDG)
2019 Menarini Grant from the German Diabetes Association (German Diabetes Association/DDG)
The Role of Mitochondrial Function for the Development of Insulin Resistance

Julia Szendroedi, MD., Ph.D.

Name: Julia Magdalena Szendrödi
email: julia.szendroedi@ddz.uni-duesseldorf.de

Education
10/1996-3/2002 University of Vienna Medical School, Austria
4/2002-4/2004 Post doc., Institute of Pharmacology, Medical University of Vienna
5/2004-10/2006 Post doc., Division of Endocrinology and Metabolism, Medical University of Vienna
4/2002-4/2004 Post doc., Institute of Pharmacology, Medical University of Vienna
5/2004-10/2006 Post doc., Division of Endocrinology and Metabolism, Medical University of Vienna, Prof. Roden
11/2006-8/2008 Resident in Internal Medicine, Hanusch Hospital Vienna, Research fellow at the Karl Landsteiner Institute for Endocrinology and Metabolism
9/2008- Deputy working group leader, German Diabetes Center, Institute for Clinical Diabetology, Resident in Internal Medicine and Head of the outpatient care for Obesity, Heinrich Heine University Hospital, Department of Metabolic Diseases
1/2009- 11/2015: Resident in Internal Medicine, Department of Endocrinology and Diabetology, University Hospital Heinrich-Heine-University, Düsseldorf
9/2013- Leader Clinical Research Center, German Diabetes-Center, Institute for Clinical Diabetology
11/2017- Senior physician, German Diabetes-Center
10/2018- Senior physician, Department of Endocrinology and Diabetology, University Hospital Heinrich-Heine-University, Düsseldorf

Qualifications:
3/2002 MD, University of Vienna Medical School, Austria
7/2007 PhD, University of Vienna Medical School, Austria, major field of study: Signal Transduction, Title: “Speeding the Recovery from Ultra-Slow Inactivation of Voltage-Gated Na+ Channels by Metal Ion Binding to the Selectivity Filter: A Foot-on-the-Door?”
1/2014: Specialist in Internal Medicine, University Hospital Heinrich-Heine-University, Düsseldorf
11/2015: Specialist in Endocrinology and Diabetology, University Hospital Heinrich-Heine-University, Düsseldorf
07/2016: Habilitation, Venia legenti Internal Medicine, Title: “Cellular mechanisms of insulin resistance in skeletal muscle and the liver: the role of mitochondrial function and ectopic lipid deposition.”

Awards:
2007: Theodor Billroth-Price physicians combs of Vienna
2009: Jühling-Price, Anna-Wunderlich-Ernst-Jühling-Foundation
2010: Wewalka Price der Austrian Association for Gastroenterology
2011: Menarini Price, German Diabetes Association
2012: Karl-Oberdisse Price Nord-Rhine Westphalian Association of Endocrinology and Diabetology
2014: Young Investigator Award in Clinical Research of the European Association for the Study of Obesity (EASO)
2018: Ferdinand Bertram Price, German Diabetes Association

Presentations:
Over 40 presentations at annual meetings of the American Diabetes Association, European Association for the Study of Diabetes, European Society for Clinical Investigation, European Association for the Study of Obesity, Federation of International Danube Symposia on Diabetes mellitus, International Diabetes Federation

Publication Statistics:
84 original articles, 5 reviews, 1 editorial, total impact factors: 563, mean impact factor: 6.1, citations: 4138, HF: 32
HIV-1 cell biology: host factors and pharmacological inhibitors in sensing and restriction

Carsten Münk, PhD
Professor for AIDS Research, Clinic for Gastroenterology, Hepatology and Infectiology
University Hospital Düsseldorf, Heinrich-Heine-University Düsseldorf
E-Mail: carsten.muenk@med.uni-duesseldorf.de

Abstract: We are interested in early events until integration in HIV-1 replication and the Vif-APOBEC3 interaction. We try to develop pathways that interfere with the virus infection and explore new animal models for HIV-1. At the same time, we working on mechanisms of zoonosis of SIV of chimpanzee (SIVcpz) (see Fig. 1)

Research projects:
1. Vif- APOBEC3 interaction
2. Rolle of USP18 in HIV-1 replication
3. Mechanisms of resistance to integrase inhibitors
4. New animal models for HIV-1
5. Mechanism of restriction of rare HIV-1 N, O, P and SIVcpz

Key publications:
1. mBio July/August (10) 4 2019
2. Virology (523): 52-63. 2018
3. Journal of Virology 92(20) 2018
4. Retrovirology, 15:38 2018

Educational background and professional experience:

2008 to present: Professor for AIDS Research, University Hospital, Clinic for Gastroenterology, Hepatology and Infectiology (Director Prof. Dr. D. Häussinger), Heinrich-Heine University Düsseldorf, Germany.
2003-2008: Research Group Leader, Department of Medical Biotechnology (Head Prof. Dr. K. Cichutek), Paul-Ehrlich-Institute, Langen, Germany.
1999-2003: Postdoctoral Fellow, Infectious Disease Laboratory (Prof. Dr. N. R. Landau), The Salk Institute for Biological Studies, La Jolla, USA.
1999: Graduation, Dr. rer. Nat, University Hamburg, Germany.

Fig. 1 A model of SIVcpz's evolutionary path to HIV. SIVcpz to human cross-species transmission likely happened 100 years ago in central Africa. After spillover, SIV adapted to human cells. For high-level replication, SIVcpz had to adapt to human tetherin and evolve a Vif protein able to counteract human APOBEC3H (A3H). Only viruses that were able to adapt to these and possible other host-factors were able to spread globally.
An overview of the research focuses of the Institute for Health Services Research and Health Economics

Dr. Jana SOMMER

Scientific Associate in the Junior Research Group Patients’ needs and preferences, German Diabetes Center (DDZ), Leibniz Center for Diabetes Research, Düsseldorf Germany and at the Institute for Health Services Research and Health Economics, Centre for Health and Society, Faculty of Medicine, Heinrich-Heine-University Düsseldorf, Düsseldorf, Germany

jana.sommer@hhu.de

Research focus of the Institute (head: Prof Dr. Dr. Andrea Icks, MBA)

The Institute for Health Services Research and Health Economics focuses on the analysis of patient-relevant outcomes of prevention and care interventions as well as on the cost-benefit ratios of these interventions under everyday conditions. Particular attention is paid to the patient's perspective and the translation into routine care.

Diabetes-related healthcare research: Patient-relevant outcomes of prevention and care

- Clinical outcome research in diabetes
- Risk of late complications of diabetes at the population level: Analyses of the frequency of amputations, myocardial infarction, stroke, terminal renal insufficiency, blindness, pregnancy and birth complications
- Mental comorbidity: mental stress and depression in diabetes
- Gestational diabetes

Disease modeling and health economic evaluation

- Computer simulation models for the analysis of diabetes progression and its late complications
- Clinical and cost-effectiveness of preventive and curative interventions
- Patient time spent on diabetes self-management and associated costs

Needs and preferences of patients with diabetes and late complications

- Analysis of patients’ needs and preferences in observational studies, clinical cohorts and randomized controlled trials (RCTs) in cooperation with clinical partners
- Physical activity and quality of life after myocardial infarction
- Information needs of people with diabetes
- Patient-oriented research
- Analysis of lifestyle, time, and risk preferences
- Preferences for lifestyle changes, self-management, and telemedical coaching programs

Geriatric traumatology care research

- Epidemiology of fractures in old age
- Follow-up of trauma patients

Key publications of the Institute


Educational background & professional experience:

2006–2011 Graduation in Psychology, Heinrich-Heine University Düsseldorf
2012–2016 Scientific Associate, Institute of Experimental Psychology, Department of Psychological Assessment and Differential Psychology, PhD (Dr. rer. nat.) in Psychology, Heinrich Heine University Düsseldorf
2016–2018 Consultant, Head Office of the German Council of Science and Humanities (Wissenschaftsrat), Cologne, Germany
2018– Scientific Associate, Institute for Health Services Research and Health Economics, German Diabetes Center, Düsseldorf
Abstract: The work of the research group focuses on epidemiological aspects of environmentally-induced aging of the lung, the brain and the skin. The main focus is the collection and analyses of data on the effect of long-term exposure to air pollution on chronic diseases (lung, skin and brain) as well as the complex interplay between the organs. We were able to show that chronic exposure to air pollution, in particular PM$_{10}$ and NO$_2$ as well as living close to major roads, increases the risk of developing chronic obstructive pulmonary disease (COPD) and mild cognitive impairment (MCI) in elderly women. Furthermore, skin aging was enhanced. In addition, the working group could show that high exposure with traffic-related air pollution increases the risk of cardio-pulmonary mortality. Worldwide the working group Schikowski was the first one to show that particle exposure from traffic-related sources was associated with diabetes and skin aging (pigment spots and wrinkles).

Research projects:
- Gene-Environment Interaction analyses
- Investigation of air pollution decline on aging and health
- Investigation of the effect of particle pollution on mild cognitive impairment in elderly women
- Investigation of air pollution effects on skin aging and inflammation in China
- Investigation of air pollution effects on skin/lung aging India
- Investigation of the effect of carbon black on health in Manila
- Investigation of the effect of long-term air pollution on the development and incidence of COPD in particular in non-smoking women and interaction with reproductive factors and obesity

Key publications:
2. Tropospheric ozone and skin aging: Results from two German cohort studies. Environ Int. 2019 Mar;124:139-144
4. The role of air pollution and lung function in cognitive impairment. Eur Respir J. 2018 Feb 21;51(2).


**Educational background & professional experience:**

1996~ University of Cologne Medical School
2001~ Bachelor of Environmental Health, Swinburne University Melbourne
2004~ Master of Public Health, Monash University Melbourne
2008~ PhD Award Public Health, Heinrich-Heine University Düsseldorf
2009~ Postdoctoral Researcher, Swiss Tropical and Public Health Institute, Basel Switzerland
2013~ Working Group Leader, IUF Leibniz Institute for Environmental Medicine, Düsseldorf Germany

**Award:**

Vichy Exposome Award 2016, The combined effect of air pollution and sun exposome on extrinsic skin aging manifestation in the population-based SALIA study group by Vichy Laboratories, France

TGO Jordan Memorial Prize, Student with the highest academic results in the final year of the Bachelor of Health Science of 2002 by the Australian Institute of Environmental Health, Victorian Division
Heiner Fangerau (Prof. Dr. med., Dr. h.c. (Bucharest), ML) is Head and director of the Department of the History, Philosophy and Ethics of Medicine, Heinrich-Heine-University Duesseldorf. Before he went to Duesseldorf in 2016 he held chairs in the history, philosophy and ethics of medicine in Ulm (since 2008) and Cologne (2014). He has a strong research record in the history and ethics of modern medicine. He studied medicine at the University of Bochum. In 2000 he finished his doctorate on the history of eugenics at the Institute of the History of Medicine in Bochum (summa cum laude). His habilitation (“post doctoral thesis”) on the history of the biomedical model was defended in 2008. He is a member of the German National Academy of Sciences Leopoldina.

His main research fields are research ethics, history and ethics of psychiatry and neurology, child and adolescence psychiatry and historical network analyses. A particular focus of Prof. Fangerau has experience in collaborating in several interdisciplinary research projects, including BMBF and EU projects. Current works include the history and ethics of technology development in medicine including m-health and e-health applications.

Selected publications:


Matthis Krischel, PhD

Lecturer, Institute for the History, Philosophy and Ethics of Medicine
Centre for Health and Society
Medical Faculty of Heinrich Heine University Düsseldorf
matthis.krischel@hhu.de
matthiskrischel.de

Research Interests
History and ethics of medicine and the life sciences, especially
- Nazi medicine and its commemoration
- History and ethics of anthropology, eugenics and human genetics
- History and ethics of urology, venereology and sexology
- Historical network research

Representative Publications (in English)

Education and Experience
Since 2017: Member of the Clinical Ethics Committee, Düsseldorf University Hospital
Since 2016: Lecturer at the Department of History, Theory and Ethics of Medicine, Heinrich Heine University Düsseldorf
2013: PhD in History and Philosophy of Medicine, Ulm University, Germany
2013: Research Prize on the Role of Doctors during the Nazi Era, German Medical Association („Herbert Lewin Research Prize“, second prize, with Friedrich Moll, Julia Bellmann, Albrecht Scholz und Dirk Schultheiss)
2007: M.A. in History of Science, University of Oklahoma, USA
Dr. Anne Oommen-Halbach

Licensed Paediatrician, Lecturer Department of the History, Philosophy and Ethics of Medicine, Centre for Health and Society, Medical Faculty, Heinrich-Heine University (HHU) and University Clinics Düsseldorf (UKD), Germany
E-mail anne.oommen-halbach@hhu.de

Research focus

My scientific interests are focused on medical history of the 19th/20th century with a special interest in questions on the history of medical historiography. My thesis contained a critical edition of letters of German medical historians at the beginning of the 20th century.
As I am a fully trained paediatrician I focused more recently on the history and ethics of paediatrics and paediatric psychiatry in various aspects. Actually I participate in a joint research project ("Testimony") concerning historical dimensions of medical and psychological care in former children’s homes in the German Democratic Republic (1949-1990).

Key publications


Professional education, training and awards

Since 2016  Postdoc at the Department of the History, Philosophy and Ethics of Medicine, University of Düsseldorf, Germany, Member of the Ethics Committee for clinical research, Medical Faculty Düsseldorf
2012-14  Postdoc at the Department of the History of Medicine, University of Bonn, Germany; Member of the Ethics Committee for clinical research, Medical Faculty Bonn
2011/12; 2015  Research Assistance: PD Dr. Thomas Rütten, Director of the Northern Centre for the History of Medicine, Newcastle, United Kingdom
2009  Research funding Wellcome Trust, Edition of the Letters of Karl Sudhoff to Tibor Györy (1898-1937)
2009  Certification in Paediatrics (Hamburg, Germany)
2003  Graduation doctor medicinae (summa cum laude), Award for the best medical thesis at the University of Münster, Germany
2002  Full license to practise as physician (Arnsberg, Germany)
2001-2002  Resident at the Department of Pediatric Hematology and Oncology, University of Bonn, Germany
2000  State examination Medicine, University of Witten/Herdecke, Germany
1992-1999  Studies of Medicine, University of Münster and Witten/Herdecke, comprising study visits in Bayonne (France), Melbourne (Australia), Cleveland/Ohio (USA)
Prof. Dr. Shingo Shimada

Chairholder Department of Modern Japanese Studies II

Since 2005 Prof. Dr. Shingo Shimada is head of the Department of Modern Japanese Studies II (Sociology) at Heinrich-Heine-University Dusseldorf. Before that, he was professor at the Institute for ethnology at Halle University.

Research focus

Cross-cultural sociology

Ageing society of Japan

Education and career

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<th>Event</th>
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<tr>
<td>July 1988</td>
<td>Magister Artium, Westfälische Wilhelms-University of Münster</td>
</tr>
<tr>
<td>December 1991</td>
<td>PhD, Friedrich-Alexander University Erlangen-Nuremberg</td>
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<tr>
<td>July 1997</td>
<td>Habilitation, Friedrich-Alexander University Erlangen-Nuremberg</td>
</tr>
<tr>
<td>1988 - 1992</td>
<td>Research fellow, research center for sociology, University Erlangen-Nuremberg</td>
</tr>
<tr>
<td>1992 - 1998</td>
<td>Research assistant, research center for sociology, University Erlangen-Nuremberg</td>
</tr>
<tr>
<td>1994 - 1995</td>
<td>Stand-in C3 professorship &quot;Comparative social structure analysis with focus on Japan&quot;, University of Duisburg</td>
</tr>
<tr>
<td>1997</td>
<td>Appointment as visiting professor, Scuola Superiore die Studi Universitari e die Perfezionamento Sant'Anna&quot; in Pisa/Italy</td>
</tr>
<tr>
<td>1997 - 1998</td>
<td>Stand-in C3 professorship &quot;Sociology with with focus on Japan&quot;, University of Duisburg</td>
</tr>
<tr>
<td>1998 - 2002</td>
<td>Assistant professor, research center for sociology, University Erlangen-Nuremberg</td>
</tr>
<tr>
<td>2000</td>
<td>Appointment as visiting professor, Scuola Superiore die Studi Universitari e die Perfezionamento Sant'Anna&quot; in Pisa/Italy</td>
</tr>
<tr>
<td>2000 - 2001</td>
<td>Stand-in C4-professorship &quot;Economy, politics, society of modern Japan” Wirtschaft, Politik, Gesellschaft des modernen Japans an der University of Halle-Wittenberg</td>
</tr>
<tr>
<td>2002-2004</td>
<td>Professorship &quot;Cross-cultural sociology&quot;, University of Halle-Wittenberg</td>
</tr>
<tr>
<td>since 2005</td>
<td>Professorship and chairholder Department of Modern Japanese Studies II, Heinrich-Heine University Dusseldorf</td>
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Key Publications


**Articles in edited volumes (only the latest 5 articles)**


„Shakaiteki hiyoke to arata naru rentai ni mutoku - nihon to doitsu“. In: Kumamoto gakuen daigaku fuzoku shakai fukushi kenkyūsho no 2008 rento dai ni kai kenkyūkai kiroku. Kumamoto University, 2009.


„Biographie, Kultur, sozialer Wandel“. In: Cappai, Gabriele; Shimada, Shingo; Straub, Jürgen (Hg.) Interpretative Sozialforschung und Kulturanalyse. Hermeneutik und die komparative Analyse kulturellen Handelns. Bielefeld: transcript (2010), S. 159-176.

**Articles in magazines (only the latest 5 articles)**


Bastian Nils Nonnenberg, M.A.

Nonnenberg has studied Modern Japanese Studies, English and American literature and Old English studies at Heinrich-Heine University Dusseldorf and Bunkyō University. He finished his studies with a Magister degree in 2011. Among his research interests are the demographic change in Japan with focus on family structures, Japanese movie studies and history of the Japanese Self-Defense-Forces. He currently writes his PhD-Thesis about the discourse concerning the justification of the existence of Japanese Self-Defense-Forces in contemporary Japanese movies.

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<th>Education</th>
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<tr>
<td>04.2003 – 09.2011</td>
<td>Student - Heinrich Heine University Dusseldorf</td>
</tr>
<tr>
<td>03.2006 – 03.2007</td>
<td>Exchange student - Bunkyo University in Saitama</td>
</tr>
<tr>
<td>Career</td>
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</tr>
<tr>
<td>10.2004 – 02.2006</td>
<td>Student assistant, Dusseldorf airport for “Blue Wings” airline</td>
</tr>
<tr>
<td>04.2007 – 09.2011</td>
<td>Student assistant for Prof. Christian Tagsold and Prof. Annette Schad-Seifert at the department of modern Japanese studies, Heinrich-Heine University Dusseldorf</td>
</tr>
<tr>
<td>08.2008 – 09.2011</td>
<td>Freelance Collaborator, NIO Field Service GmbH</td>
</tr>
<tr>
<td>10.2011 – 09.2015</td>
<td>Assistant Professor for German language studies at the department of foreign language studies, Kanazawa University</td>
</tr>
<tr>
<td>04.2013 – 03.2015</td>
<td>Teaching assignment as lecturer for German language and literary studies, Fukui University</td>
</tr>
<tr>
<td>11.2015 – 09.2018</td>
<td>German teacher, Nihon Dialog Dusseldorf</td>
</tr>
<tr>
<td>01.2016 – 09.2018</td>
<td>Research fellow at the department of modern Japanese studies, Heinrich-Heine University Dusseldorf</td>
</tr>
<tr>
<td>10.2018-present</td>
<td>Research fellow and head of the Kanazawa liaison office at the department of modern Japanese studies, Heinrich-Heine University Dusseldorf</td>
</tr>
</tbody>
</table>
Basic Information

Full Name: Tömoki Johann Piekenbrock
Place of Birth: Mainz, Germany
Nationality: German and Japanese

Education

2000 – 2006: Elementary School in Tokyo, Japan
2006 – 2009: St. Ursula Gymnasium, Düsseldorf
2011 – 2015: University of Freiburg, GER – Bachelor of Arts in Archaeology
2015 – 2016: Voluntary Social Service Program (FSJ) in Ramallah, Palestine
Since Oct. 2016: Düsseldorf University – Master of Arts in Modern Japanese Studies
   → Projected Time of Graduation: Mar. 2020
Apr. 2018 – Mar. 2019: Exchange program at Kanazawa University, Japan

Language Proficiency

Native: German, Japanese
Fluent: English
Intermediate: Arabic, French, Italian

Experience in professional Interpretation


Contact Information

Tömoki Johann Piekenbrock
Graf-Recke-Str. 209b - 28, 40237, Düsseldorf, Germany
Tel: +49 176 23657976   e-mail: tomoki.piekenbrock@gmx.de
HIV infection among children in Kenya

Hiroshi ICHIMURA, MD & PhD
Professor, Department of Viral Infection and International Health;
Dean, Graduate School of Advanced Preventive Medical Sciences/
Graduate School of Medical Sciences, Kanazawa University
E-mail: ichimura@med.kanazawa-u.ac.jp
Web site: http://virus.w3.kanazawa-u.ac.jp/

Abstract: Since 1996, I have collaborated with Kenya Medical Research Institute on (i) the prevention of mother-to-child transmission of human immunodeficiency virus type 1 (HIV), (ii) viral and host factors influencing on disease progression in children with HIV infection, (iii) monitoring of HIV vertically infected children in Kenya on antiretroviral therapy (ART), and so on. Some of these results will be introduced.

Research projects:
1. Viral and host factors associated with disease progression in children with HIV infection
2. Impact of anti-retroviral therapy (ART) on the immune status and gut microbiota of HIV-infected children
3. Viral and host factors associated with the virulence of enterovirus 71 that causes Hand-Foot-and-Mouth disease

Key publications:

Educational background & professional experience:
1974–1980 Yamaguchi University School of Medicine. License of Medical Doctor (No. 251554).
1980–1984 Tottori University Graduate School of Medical Sciences, Doctor of Medical Science.
1985–1987 Research Associate, Department of Biochemical Virology, Baylor College of Medicine, USA.
1991–1992 International Scholarship Doctor for 1991 of the Japan Ministry of Health, Labor and Welfare; Cancer Research Institute, University of California, San Francisco, School of Medicine, USA.
1994–1994 Assistant Professor, Department of Microbiology, Kyoto Prefectural University of Medicine.
1994–1999 Associate Professor, Department of Microbiology, Kyoto Prefectural University of Medicine.
1999– Professor, Department of Viral Infection and International Health, School of Medicine, Kanazawa University
2018– Dean, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University.

Award:
2016 "Medal for People's Health" from the Ministry of Health, Vietnam.
2011 Honorary Professor of Hanoi Medical University, Vietnam (No. 156/QD-DHYHN)
2012 Honorary Professor of Hai Phong Medical University, Vietnam (No. 720/QD-DHYHP)
Abstract: The opportunities of the exposure to various environmental chemicals have been increased recently. We have demonstrated that several chemicals have produced allergy or allergy-like detrimental effects on health. The urban atmospheric environment was found to be involved in the increase in Japanese cedar pollinosis. Rhinoconjunctival sensitization to hydrolyzed wheat protein (HWP) in facial soap (Cha no Shizuku; Yuka) induced wheat-dependent exercise-induced anaphylaxis (WDEIA) from 2009 in Japan. Parabens, which are a class of widely used preservatives in cosmetic and pharmaceutical products, were observed to be associated with the development of allergic diseases including atopic dermatitis in infants. We have found effects of environmental chemicals including Asian dust and polyaromatic hydrocarbon (PAH) on respiratory symptoms including chronic cough. At the same time, we are exploring to develop the preventive methods for effects of environmental chemicals by means of the clarification of the pathogenesis for the health effects.

Fig. East Asia PAHs Monitoring Network (Colaboratory studies with Prof. K. Hayakawa)
Research projects:
1. Basic and epidemiologic research on the effects of ambient chemicals on allergic diseases
2. Epidemiology on the effects of lifestyles on non-communicable disease including obesity, diabetes, vertebral and cardiovascular, renal, and respiratory diseases and musculoskeletal systems
3. Effects of physical and chemicals and stress assessment in workplaces

Key publications:
2) Hirota R et al., Allergy. 2018
7) Anyenda EO et al, 2016 Atmospheric Environment. 140, 34-41
9) Ogino K et al, 2016 Free Radic Res. 50 (11) 1165-1172
11) Fukutomi Y et al, 2014 Allergy. 69 (10) 1405-11
12) Higashi T et al, 2014 Atmospheric Environment. 92, 506-513
13) Higashia T et al., 2014 Atmospheric Environment. 97, 537-543

Educational background & professional experience:
1985 Graduate from Kanazawa University School of Medicine
1988-86 Researcher at Johannes Gutenberg-Universität Mainz. FRG
1989 Graduated from Kanazawa University Graduate School of Medicine (PhD)
2003-07 Professor of Kochi University School of Medicine (Department of Environmental Medicine)
2007- Professor of Kanazawa University School of Medicine (Department of Environmental and Preventive Medicine)
2016-18 Dean, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University
2017- Director of Center of Advanced Preventive Medical Sciences, Kanazawa University
2018- Dean, School of Medical, Pharmaceutical and Health Sciences, Kanazawa University

Awards:
1991: Incentive Award from Japanese Hygiene Society
2004: Prize of the Society of Fitness, Nutrition and Immunity
Combating hepatocellular carcinoma

Shuichi Kaneko, MD
Professor, Department of System Biology,
Kanazawa University Graduate School of Medical Sciences
Director, WHO Collaborating Center for Chronic Hepatitis and Liver Cancer
E-mail: skaneko@med.kanazawa-u.ac.jp

Abstract: Worldwide, approximately 325 million people have viral hepatitis, responsible for 1.34 million deaths in 2015. WHO advocated targets that seek to reduce incidences of chronic hepatitis infection and annual deaths from chronic hepatitis by 2030. In addition to viral hepatitis, another liver disease attracts attention. Global prevalence of nonalcoholic fatty liver disease (NAFLD) is estimated to be over 20%. NAFLD often progresses to nonalcoholic steatohepatitis (NASH), and finally develops to HCC. Given the high burden of NAFLD, the number of patients with NAFLD- and NASH-related HCC will continue to increase. As the global epidemic of obesity fuels metabolic conditions, the clinical and economic burden of NAFLD will become enormous. We focus on virus- and NAFLD-related HCC research collaborating with WHO as the collaborating center.

Research projects:
1. Research on clinical epidemiology of hepatitis and HCC.
2. Understanding of carcinogenesis of HCC.
3. Development of new diagnosis and treatment for HCC.

Key publications:

Education:
1982 Graduate from Kanazawa University School of Medicine (MD)

Honors:
2004 Industry-Academia-Government Collaboration Service Award from Minister
2014 Science and Technology Award from Japanese Ministry of Education, Culture, Sports, Science and Technology
2015 The “Khubilai Khan” Gold Medal of the Mongolian Academy of Sciences
2015 Industry-Academia-Government Collaboration Service Award Minister Award of Japanese Ministry of Economy, Trade and Industry
Lessons from type 2 diabetic liver

Toshinari TAKAMURA, MD & PhD
Professor, Department of Endocrinology and Metabolism, Kanazawa University Graduate School of Medical Sciences
E-mail ttakamura@med.kanazawa-u.ac.jp
Web site https://metabology.w3.kanazawa-u.ac.jp/english/

Abstract: We aim to elucidate the pathophysiology of and establish new diagnosis and treatment methods for metabolic diseases such as diabetes and obesity. Overnutrition disrupts inter-organ networks to keep energy homeostasis governed by the liver. Our group has identified key pathways and molecules (hepatokines) through comprehensive gene expression analyses of the liver from type 2 diabetic people. Through functional analyses of these pathways/hepatokines, we aim to create medical systems for preclinical diagnosis and preemptive/tailor-made medicine.

Research projects:
1. Basic and clinical research on pathophysiology and treatment of diabetes, obesity, and their complications
2. Pathological trajectories of non-alcoholic fatty liver disease
3. Hepatokine-mediated inter-organ networks in diabetes and obesity

Key publications:
1. Cell Host Microbe 25:588-601.e7, 2019
2. Sci Rep 8:16727, 2018
7. Diabetes 63:1649-64, 2014
17. Diabetologia 47:638-647, 2004

Educational background & professional experience:
1988~ Kanazawa University Graduate School of Medical Science
1992 Awarded the degree of PhD in Internal Medicine)
1993~ Department of Biochemistry, Tohoku University (Prof. Hiroshi Okamoto)
1994~ Special Researcher, Japan Society for the Promotion of Science
1997~ Assistant Professor, Department of Endocrinology and Metabolism, Kanazawa University Hospital
2001~ Associate Professor
2014~ Professor, Department of Endocrinology and Metabolism, Kanazawa University Graduate School of Medical Sciences

Award: 2018 Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology

Figure: The hepatokine selenoprotein P causes multi-signal resistances via reductive stress leading to pathology of type 2 diabetes such as insulin resistance, angiogenesis resistance, exercise resistance, and insulin secretory failure.
Abstract: Most human disease and traits result from complex interactions of genetic and environmental factors. The main objective of our study is to identify novel factors that contribute to inter-individual differences in disease susceptibility and quantitative traits, considering both genetic and environmental variables. In this presentation, as one of our recent studies, I will introduce our efforts to build a population-based genome-cohort (called Project S.H.I.P) in Noto area in Ishikawa prefecture, Japan, and discuss its pivotal role in establishing causality and developing new diagnostic and preventive strategies for human disease.

Education:
1990 B.Pharm., Faculty of Pharmaceutical Sciences, Kyoto University, Japan
1992 M.Pharm., Department of Pharmacology, Kyoto University, Japan
2002 Ph.D., Department of Biosystems Sciences, The Graduate University for Advanced Studies (SOKENDAI), Japan

Professional experience:
2002 - 2004 Postdoctoral Fellow, The Graduate University for Advanced Studies (SOKENDAI), Japan
2004 - 2006 Project Research Associate, Institute of Medical Science, The University of Tokyo, Japan
2006 - 2007 Project Research Associate, School of Medicine, Tokai University, Japan
2007 - 2009 Research Associate, School of Medicine, Tokai University, Japan
2009 - 2010 Lecturer, School of Medicine, Tokai University, Japan
2010 - 2014 Associate Professor, Department of Human Genetics, Institute of Health Biosciences, The University of Tokushima Graduate School, Japan
2014 - Professor, Department of Bioinformatics and Genomics, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University, Japan

Recent publications (selected):
1. J Diabetes Investig 10(3):817-826, 2019
2. Science 361(6397):88-92, 2018
Characterization of exosomes, endogenous nano-particles

Rikinari HANAYAMA, MD & PhD
Professor, WPI Nano Life Science Institute (NanoLSI) & Department of Immunology, Graduate School of Medical Sciences, Kanazawa University
E-mail hanayama@med.kanazawa-u.ac.jp
Web site http://immunology.w3.kanazawa-u.ac.jp/index2.html

Abstract: Exosomes are secreted small membrane vesicles, composed of a lipid bilayer with inserted transmembrane proteins, enclosing cytosolic components derived from the exosome-producing cells. Recently, exosomes have received much attention as messengers of intercellular communication networks, allowing the exchange of proteins and lipids between the exosome-producing cells and target cells to trigger various cellular responses. Exosomes were also shown to carry mRNAs and microRNAs inside them, raising the possibility that exosomes transfer genetic information between cells. However, it is not clear whether these processes occur under physiological conditions. Therefore, our lab is aimed at clarifying physiological and pathophysiological functions of exosomes and their secretory mechanisms.

Research projects:
1. Molecular mechanisms of exosome secretion
2. Physiological and pathophysiological functions of exosomes
3. In vivo imaging of exosomes

Key publications:
2. J Immunol. 201(10):3051-7, 2018
3. JCI Insight. 3(8):e99680, 2018
5. Oncotarget. 8:24668-78, 2017
11. PNAS. 102:16886-91, 2005

Educational background & professional experience:
1999 M.D., Osaka University
2004 Ph.D., Osaka University (Advisor: Dr. Shigekazu Nagata)
2005~ HFSP Fellow, Harvard Medical School (Supervisor: Dr. Michael E. Greenberg)
2008~ Assistant Professor, Graduate School of Medicine, Kyoto University
2011~ Associate Professor, WPI Immunology Frontier Research Center (IFReC), Osaka University
2015~ Professor, Kanazawa University

Award: Yamamura Award, Osaka University (1999 & 2004), GE and Science Prize for Young Life Scientist (2006), MEXT Young Scientist's Prize (2009), HFSP Career Development Award (2011), Astellas Biomedical Award (2012), Osaka University Presidential Award (2014), Kanazawa University Commendation for Achievements (2019)
Critical roles of gut microbiota in self-renewal of hematopoietic stem cells and leukemogenesis

Atsushi HIRAO, MD & PhD
Professor, Department of Molecular Genetics, Cancer Research Institute, Kanazawa University
E-mail:ahirao@staff.kanazawa-u.ac.jp
Web site https://ganken.cri.kanazawa-u.ac.jp/eng/about/cscr07/

Abstract: Nutrients, such as amino acids, glucose and lipids, are critical determinants of cell survival, proliferation and differentiation processes in normal and malignant tissues. It has been shown that metabolic control is critical for maintenance of hematopoietic stem cell (HSCs) functions. HSCs utilize glycolysis to sustain undifferentiated status, whereas oxidative phosphorylation becomes dominant in progenitors. Unlike HSCs, leukemia stem cells (LSCs) appear to have low glycolytic flow, indicating that there are critical differences in metabolic regulation between these cell types. Therefore, knowledge of the molecular mechanisms of metabolic regulation will provide novel therapeutic approaches for eradication of LSCs.

While numerous epidemiologic studies have reported that significant relationships exist between cancers and obesity-related parameters, it has not been unclear how abnormal diet affects stem cell homeostasis. We have recently shown that Spred1, a negative regulator of RAS-MAPK signaling, safeguards HSC homeostasis under high-fat diet (HFD) conditions by modulating HSC self-renewal. HFD induces ERK hyperactivation and aberrant self-renewal in Spred1-deficient HSCs, resulting in functional failure associated with severe anemia and myeloproliferative neoplasm-like disease. In addition, HFD-induced hematopoietic abnormalities are partly due to altered gut microbiota. These data indicate that altered gut microbiota as microenvironments dramatically affect HSC system, leading to development of hematopoietic neoplasms. In this symposium, I would like to present recent data regarding how gut microbiota controls stem cell fate in normal and malignant hematopoiesis.

Research projects:
1. Self-renewal control of hematopoietic stem cells in aging and leukemogenesis
2. Metabolic control of stemness of cancers
3. Discovery of targeting molecules for cancer therapy

Key publications:
1. Cell Stem Cell. 22:713-725, 2018

Educational background & professional experience:
1988 Jichi Medical University (MD)
1994 Tokushima University (PhD)
1995 Postdoctoral fellow, Japan Society for the Promotion of Science (Kumamoto University)
1997 Postdoctoral fellow, Ontario Cancer Institute, University of Toronto, Canada
2001 Assistant professor, Institute of Molecular Embryology and Genetics, Kumamoto University
2002 Assistant professor, Keio University School of Medicine
2004 Associate professor, Keio University School of Medicine
2005~ Professor, Cancer Research Institute, Kanazawa University
2017~ Director, Cancer Research Institute, Kanazawa University

Award:
2007 The JSPS PRIZE, 2010 The Commendation for Science and Technology by the MEXT
Dementia research in Kanazawa: From clinical and epidemiological studies to molecular pathogenesis and prevention

Moeko Noguchi-Shinohara, MD & PhD, Junji Komatsu, MD & PhD, Kenji Sakai, MD & PhD, Tsuyoshi Hamaguchi, MD & PhD, Masahito Yamada, MD & PhD

Department of Neurology & Neurobiology of Aging, Kanazawa University Graduate School of Medical Sciences
E-mail m-yamada@med.kanazawa-u.ac.jp
Web site http://neurology.w3.kanazawa-u.ac.jp/english/

Abstract: Our mission is to overcome dementia through clinical, epidemiological, and laboratory studies of dementing diseases and related disorders such as Alzheimer’s disease (AD), cerebral amyloid angiopathy (CAA), prion diseases, and dementia with Lewy bodies (DLB). In 1996, we discovered a novel dementing disease, “senile dementia of the neurofibrillary tangle type (SD-NFT)”, currently also known as dementia due to “primary age-related tauopathy (PART)” pathology. We established the value of \(^{123}\text{I}-\text{MIBG}\) myocardial scintigraphy for the diagnosis of DLB, and incorporated it into the 2017 revised consensus criteria for DLB. Our population-based cohort study in Nakajima (Nakajima Study) indicated significant associations between green tea consumption and reduced risk of future cognitive decline, and also between serum vitamin C levels at baseline and reduced risk of future cognitive decline in women with apolipoprotein E (ApoE) E4. Our in vitro and in vivo studies revealed anti-AD effects of some dietary polyphenols (Figure); a community-based intervention trial with rosmarinic acid-rich lemon balm extract for prevention of dementia is ongoing. Our group has identified all the patients with prion diseases in Japan since 1999; our prion research further extended to basic and clinical studies of prion-like transmission of protein aggregates of neurodegenerative diseases. Our CAA studies revealed the role of ApoE in CAA pathogenesis and the epidemiology of CAA-related intracerebral hemorrhage and inflammation in Japan.

Research projects:
1. Epidemiological, clinical, pathological, imaging, and magnetoencephalography (MEG) studies of dementia and dementing diseases (AD, DLB, CAA, prion diseases, and related disorders).
2. In vitro and in vivo experimental studies with models of AD and related disorders focusing on amyloidogenesis and prion-like transmission of aggregated proteins.
3. Development of the method for dementia prevention using dietary factors that showed significant reduction of dementia risk in prospective longitudinal cohort studies and anti-AD effects in experimental AD models.


Figure: High-speed atomic force microscopy (HS-AFM) revealed inhibition of the Aβ1–42 fibril growth by myricetin, a kind of natural polyphenols. (A) Serial images of the HS-AFM stage on which reaction mixtures of Aβ fibril seeds and myricetin. (B) Serial images of the same surface after the removal of myricetin. See the reference (PNAS 113:5835, 2016) for details.
In recent, some epidemiological studies have shown that environmental factors, like maternal nutrition, smoking habit and economic stability during the period from the fetal to early childhood stage might affect the risk of non-communicable diseases (NCD) in adulthood. This is referred to as the ‘developmental origins of health and disease’ (DOHaD) concept. In addition, exposure to chemicals is also an important risk factor for fetal development. A birth cohort study, Chiba Study of Mother and Children’s Health (C-MACH), focusing on environmental health effects on fetuses and involving multiomics analysis has been conducted to identify potential biomarkers. Almost four hundred women were recruited, and now we are following their children. We perform several omics analyses. Preliminary, we performed epigenome, microbiome, metabolome analyses. Chemical exposure assessment is assessed by PCB measurement. We are now trying to establish a health examination system to detect highly contaminated women at the reproductive age. If we can decrease the level of contamination of mothers, we can expect that the exposure to fetuses and babies also will decrease, then future generations will be able to enjoy a higher quality of life.

研究テーマリスト: Proposal collaborate research fields from Chiba University

<table>
<thead>
<tr>
<th>Field</th>
<th>Contact person in charge</th>
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<tbody>
<tr>
<td>1, Environmental medicine</td>
<td>Prof. Mori</td>
</tr>
<tr>
<td>2, Non-communicable diseases (NCD) in modern society</td>
<td>Dr. Sakurai</td>
</tr>
<tr>
<td>3, Aging and Aging society</td>
<td>Prof. Kondo</td>
</tr>
<tr>
<td>4, Healthy town planning Landscape and health</td>
<td>Dr. Hanazato</td>
</tr>
</tbody>
</table>

Curriculum Vitae: Professor Mori graduated from Asahikawa Medical College in 1984, and became an assistant professor at Faculty of Medicine, Kyoto University. After working as a visiting associate at National Institute of Health (USA) and then as an associate professor at Kyoto University, he became a professor at Chiba University School of Medicine in 2000. He has been a professor at Department of Bioenvironmental Medicine, Graduate School of Medicine, Chiba University since 2001. He has been appointed as a director of Center for Preventive Medical Sciences, Chiba University since 2008. Professor Mori has been appointed as a member of International Linkage Committee of Japan Environment and Children’s Study (JECS) by the Ministry of the Environment of Japan. In 2014, he started cooperative work with the Department of Public Health, Environmental and Social Determinants of Health, World Health Organization (WHO) in Geneva, Switzerland.
Key publication:
Knowledge translation for healthy ageing: lessons learnt from the Japan Gerontological Evaluation Study (JAGES)

Katsunori Kondo, M.D., Ph.D.,
Professor of Social Epidemiology and Health Policy, Department of Social Preventive Medical Sciences, Center for Preventive Medical Sciences and the Graduate School of Medicine, Chiba University.

Japanese society, which has one of the longest life expectancies in the world, are implementing policies for healthy ageing. While many studies gather scientific evidence that could inform such policies, less attention has been given to how to translate research findings to government policies and practices.

The Japan Gerontological Evaluation Study (JAGES) initiative originally started in 1999 and expanded to 41 collaborating municipalities across Japan with approximately 200,000 respondents by 2016–17. As the research findings from JAGES have been continuously translated into national and local government policy for healthy ageing, WHO published a monograph summarizing process and analyzing key driving factors of JAGES initiative.

To produce high quality and large longitudinal data are needed to build scientific bases. To develop a data visualization tool, the JAGES Health Equity Assessment and Response Tool, were useful for knowledge translation into users. Having a long-term vision and commitment to strengthen research, knowledge translation, and community-based participatory researches were essential factors of JAGES initiative. The lessons learned from the JAGES initiative could be useful for other countries.

Potential research topics collaborated with the JAGES initiative

1. Social Determinants of Health
2. Social Capital, Social Participation and Health
3. Built Environment and health
4. Aging and Aging society

Dr. Kondo is also the head of Department of Gerontological Evaluation at the Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology.

He is the Principal Investigator of the Japan Gerontological Evaluation Study (JAGES) Project, which is one of the first prospective cohort studies to investigate the influence of social determinants of health and community social capital on health outcomes among older people. He is the author of bestselling books, “Health Gap Society · what undermining mental health and society?”; Igaku-Shoin, 2005, which is awarded in 2006 by The Society for the Study of Social Policy. He also edited and wrote “Health Inequalities in Japan: An Empirical Study of the Older People”; Trans Pacific Press, Melbourne, 2010: ”Social Determinants of Health · reviews of 'health disparities' in Non Communicable Diseases”, Japan Public Health Association, 2013; wrote “Beyond 'healthcare crisis' · future of health and long term care in the UK and Japan”, Igaku-Shoin, 2012; “Prescriptions for Health Gap Society”, Igaku-Shoin, 2017
Key publication:
Inflammatory arthritis research through systemic autoimmunity, joint imaging and epidemiology field

Atsushi Kawakami, MD, PhD
Dean, Nagasaki University Graduate School of Biomedical Sciences
Professor and Chairman
Department of Immunology and Rheumatology,
Division of Advanced Preventive Medical Sciences,
Nagasaki University School of Biomedical Sciences
E-mail atushik@nagasaki-u.ac.jp
Web site http://www.med.nagasaki-u.ac.jp/intmed-1/

Abstract: Title of talk
Inflammatory arthritis research through systemic autoimmunity, joint imaging and epidemiology field
Rheumatoid arthritis (RA) is a prototype of inflammatory arthritis in humans. Although the prognosis of RA has greatly improved due to the progress of therapeutic drugs, the understanding of mechanism of onset as well as disease’s process are unclear. Also, there still stand clinical questions, i.e., which type of RA patients is responsive to specific type of therapeutic drugs including biologics through serum biomarkers as well as imaging biomarkers. Anti-citrullinated protein antibodies (ACPA), exhibiting remarkably high specificity for the disease and showing a well-established association with a severe, erosive phenotype, is a characteristic hallmark of RA. In this symposium, we are going to discuss our research trying to identify “RA-prone pathways”, especially ACPA-positive RA.

Research projects:
1. Inflammatory arthritis: Genetic, environmental, immunological and imaging analysis
2. Autoinflammatory diseases: Genetic and inflammasome analysis leading to drug discovery
3. Sjögren’s syndrome: Pathological analysis especially role of HTLV-1
4. Systemic lupus erythematosus: Pathological analysis especially identification of autoantigen
5. Immuno-related adverse events: Identification of susceptibility through whole-genome analysis

Key publications:
2. Virus Res 269:197643, 2019
3. Arthritis Rheumatol 71(5):766-772, 2019
5. Arthritis Care Res 26, 2018
6. Frontiers in Immunology 8:8, 1958, 2018
7. Arthritis Rheumatol 70(7):1014-1021, 2018
9. Rheumatology 1:57(4):718-726, 2018

Educational background & professional experience:
1985 First Department of Internal Medicine, Nagasaki University School of Medicine
1987–1991 Department of Immunology and Rheumatology, Nagasaki University Graduate School of Biomedical Sciences
1991–1993 Post-Doctoral Fellow, Division of Tumor Immunology, Dana-Farber Cancer Institute, Boston (Supervised by Prof. Paul Anderson)
2000 Assistant Professor, Unit of Translational Medicine, Department of Immunology and Rheumatology, Nagasaki University Graduate School of Biomedical Sciences
2009 Associate Professor
2010 Professor and Chairman
2017 Post-Doctoral Fellow, Division of Tumor Immunology, Dana-Farber Cancer Institute, Boston (Supervised by Prof. Paul Anderson)
2019 Associate Professor
2020 Professor and Chairman, Department of Immunology and Rheumatology, Unit of Advanced Preventive Medical Sciences, Division of Advanced Preventive Medical Sciences, Nagasaki University Graduate School of Biomedical Sciences

Award:
2000 Japan College of Rheumatology Scientific Award
2001 7th The Japanese Society of Inflammation and Regeneration Promotion Award
2004 32nd Japan Clinical Immunology Society of the General Assembly Best Poster Award
Non-verbal communications in humans

Kazuyuki SHINOHARA, MD & PhD

Professor
Department of Neurobiology & Behavior
Division of Advanced Preventive Medical Sciences
Graduate School of Biomedical Sciences, Nagasaki University
E-mail kazuyuki@nagasaki-u.ac.jp
Web site http://www.med.nagasaki-u.ac.jp/physlgy2/

Abstract: We aim to elucidate the neural mechanism of non-verbal communications in humans including autistic spectrum disorder (ASD). We will present neural correlate of family love by means of near-infrared spectroscopy (NIRS) in the conference. Neural correlates of paternal and maternal love are determined by interaction between gene and environment. We also study successful aging with circadian clock and exercise.

Other research projects:
1. Exercise physiology for brain health: Our research focuses on the exercise-mediated regulation of neural functions via myokines, which is hormones and metabolites secreted from skeletal muscles
2. Successful aging with Circadian clock: A wide array of evidence has emerged that dysregulation of circadian clock accelerates aging process in humans and rodents. Our research goal is to contribute to successful aging in human by revealing molecular mechanisms of how the circadian clock regulates aging process.

Key publications:
2. PERSONALITY AND INDIVIDUAL DIFFERENCES 135 45-50 2018
4. INFANT BEHAVIOR & DEVELOPMENT 52 89-96 2018
7. MMArt&ACM@ICMR 2018 26-29
8. PERSONALITY AND INDIVIDUAL DIFFERENCES 125 106-111 2018
12. ICCE-Berlin 2017 3-4
18. Behav Brain Res. 2017 May 15;325(Pt B):87-89.

Educational background & professional experience:
1984~ Residency (Psychiatry)
National Center Hospital, National Center of Neurology and Psychiatry, Japan
1990~ Lecturer, Department of Child Psychiatry, Tokai School of Medicine, Japan
1993~ Lecturer, Department of Chronobiology, Hokkaido University Graduate School of Medicine, Japan
1995~ Assistant Professor, Department of Physiology, Yokohama City University School of Medicine, Japan
1997~ Visiting Assistant Professor, Physiology Department, University of Groningen, Netherlands
2001~ Associate professor, Department of Physiology, Dokkyo Medical School, Japan
2002~ Professor, Chair, Department of Neurobiology and Behavior.
Nagasaki University Graduate School of Biomedical Sciences
Lessons from NOD mouse as a model of human type 1 diabetes

Norio ABIRU, MD & PhD
Associate Professor, Department of Endocrinology and Metabolism, Nagasaki University Graduate School of Biomedical Sciences
E-mail abirun@nagasaki-u.ac.jp
Web site http://www.med.nagasaki-u.ac.jp/intmed-1/

Abstract: We aim to elucidate the mechanisms of development of type 1 diabetes. Firstly, we have studied an insulin B chain peptide as a primary epitope in non-obese diabetic (NOD) mouse. Secondly, our group have established several gene-targeted NOD mouse to seek the target molecule for the intervention to inhibit the autoimmune β cell destruction. We found that haploinsufficiency of pioneer transcription factor-IRF4 gene strongly protects against autoimmune diabetes. We currently investigate the relevance of IRF4 expression to the differentiation and metabolism in the autoreactive T cells or other immune cells in the pathogenesis of diabetes in NOD mouse.

Research projects:
1. Basic research of investigation of relevance of IRF4 to acquired or innate immunity in type 1 diabetes.
2. Clinical research to explore the genetic polymorphisms or mutations associated with type 1 diabetes induced by immune checkpoint inhibitor; nivolumab

Key publications:
5. Autoimmunity. 44(6):504-10, 2011  

Figure: Candidate molecules for autoimmune destruction of β cells in the pathogenesis of type 1 diabetes in NOD mouse

Educational background & professional experience:
1990~ Nagasaki University School of Medicine
1997 PhD in Nagasaki University Graduate school of Biomedical Science
1997~2000 Research fellow in Barbara Davis center (GS Eisenbarth Labo.), Denver CO USA
2007~ Assistant professor, Nagasaki University Graduate School of Biomedical Sciences, Translational Medical Sciences.
2012~ Associate Professor
2016~ Associate Professor, Nagasaki University Graduate School of Biomedical Sciences, Division of Advanced Preventive Medical Sciences.

Award: 2004 Nagasaki University School of Medicine, 21st The Tsunoo Award for Scientific Excellence  
2019 Japan Association for Diabetes Education and Care, Juvenile Diabetes Lifetime Achievement Award