

Host: Nagasaki University School of Medicine • Graduate School of Biomedical Sciences and  
Julius-Maximilians-Universität Würzburg Medical Faculty • Graduate School of Life Sciences

## The 3rd Joint Symposium between Nagasaki University and Würzburg University — Advances in Comprehensive Cancer Therapy —



Venue: Nagasaki University School of Medicine  
2019

April 15 (Mon), 9:30 ~ Bauduin Lecture Hall, Ryojun Auditorium 2F  
April 16 (Tue), 8:30 ~ Bauduin Lecture Hall, Ryojun Auditorium 2F

Graduating from Universität Würzburg, Philipp Franz von Siebold came to Nagasaki in 1823, and introduced various Western cultures including the state-of-art medicine to Japan under the closed country policy except Dejima island opening to the West. Reflecting on the relations, the presidents of Nagasaki University and Universität Würzburg agreed to start medical student exchange in 1996. Since then, the academic cooperation between us has continued and expanded to graduate student and faculty member levels.

Recent developments on nuclear medicine have contributed to cancer therapy as well as diagnosis of various diseases including cancer. In addition, immunotherapy especially employing T cells against cancer has advanced over the last several years. This symposium for “**comprehensive cancer therapy**” will provide more effective and comfortable cancer therapy for each patient, because the two universities have complementary research experts, and excellent scientific achievements in this field. Especially, medical students and young researchers are encouraged to attend the symposium to obtain the **Japanese-German Graduate Externship**.




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<http://www.med.nagasaki-u.ac.jp/medura/>



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and Nagasaki Yurino Hospital



**The 3<sup>rd</sup> Joint Symposium between Nagasaki University and Würzburg University**  
**—Advances in Comprehensive Cancer Therapy—**

April 15 (Mon) - 16 (Tue), 2019

Venue : Bauduin Lecture Hall, Ryojun Auditorium 2F, Nagasaki University School of Medicine

April 15 (Mon)

**Opening remarks** : 9:30~

President of Nagasaki University, Shigeru Kohno

Trustee and Vice-President of Nagasaki University, Isao Shimokawa

Dean of Nagasaki University School of Medicine, Takeshi Nagayasu

Dean of Faculty of Medicine, Würzburg University, Matthias Frosch

Medical Director, University Clinic, Georg Ertl

**Photograph session** : 10:20~

**Session I. Improving cancer therapy: Immunotherapy and novel drug targets** : 10:40~

Adoptive cell therapy with gene-engineered T cells for cancer patients

*(Hiroaki Ikeda)*

Cancer immunotherapy harnessing PD-1 immune checkpoint inhibitors and  $\gamma\delta$  T cells

*(Yoshimasa Tanaka)*

Targeted therapy using novel immunotherapeutic strategies

*(Gernot Stuhler)*

Immune checkpoint inhibitors - current and future use in thoracic tumors

*(Rainer Leyh)*

**Lunch** : 12:00~

13:50~

Mitochondrial respiratory chain as a drug target of cancer cells

*(Kiyoshi Kita)*

Inflammation-related microRNAs regulate neutrophilic functions at *S. aureus*-infected skin wound sites

*(Ryoichi Mori)*

Short presentations by young researchers

· Pericytes Protect Brain Metastasis from Lung Cancer *(Kei Sato)*

· A cell culture based model of the blood-brain barrier to study brain metastatic potential of cancer cells *(Yuki Matsunaga)*

**Session II. Mechanism of radiation-induced cancer, and improving the effectiveness of radionuclide therapy** : 14:50~

Genetic alterations in thyroid cancers in Fukushima

*(Norisato Mitsutake)*

Radiation induced thyroid cancer - lessons learned

*(Christoph Reiners)*

**Coffee break**

15:40~

Recovery efforts from the nuclear disaster: Models in Kawauchi village and Tomioka town

*(Noboru Takamura)*

Biological radiosensitization for cancer therapy

*(Mitsuko Masutani)*

Long term effects of A-bomb radiation on hematopoiesis

*(Yasushi Miyazaki)*

Short presentations by young researchers

- Environmental monitoring by car-borne survey system in difficult-to-return zone of Tomioka Town, Fukushima Prefecture *(Cui Limeng)*
- Intention to Return and Radiation Risk Perception of Residents in Tomioka Town, Fukushima Prefecture Stratified by Gender and Generation: A cross sectional *(Hitomi Matsunaga)*
- The role of GM-CSF in the response of cancer cells after BNCT irradiation *(Lichao Chen)*
- The pros and cons of autophagy in cancer therapy *(Kaio Kitazato)*

April 16 (Tue)

**Session III. Contribution of imaging and radionuclide therapy to precision oncology : 8:30~**

Imaging diagnosis and chemoradiation for lung cancer

*(Kazuto Ashizawa)*

Dual source-CT for assessment of bone marrow infiltration in hematological neoplasms

*(Thorsten Bley)*

Chemical shift MR imaging in differentiating hematopoietic bone marrow hyperplasia from intertrabecular metastasis

*(Masataka Uetani)*

PET/CT and PET/MR imaging for monitoring response to treatment and target definition

*(Andreas Buck)*

Radioisotope therapy: present condition in Japan and hurdle to be solved

*(Takashi Kudo)*

Nuclear medicine for oncology: present condition in Japan and hurdle to be solved

*(Takahiro Higuchi)*

**Coffee break**

**Session IV. Stem cells - use in comprehensive cancer therapy : 10:40~**

Stem cells and tumor progression

*(Tao-sheng Li)*

Translational study on effective-mono-nuclear cell (E-MNC) therapy for radiation injured salivary glands

*(Yoshinori Sumita)*

Tissue-specific vascular wall-resident stem cells and stem cell based micro-organoid models

*(Süleyman Ergün)*

The molecular regulation of the hematopoietic niche in response to radiation damage

*(Matthias Becker)*

Short presentations by young researchers

- Postoperative systemic inflammatory response and tumor metastasis *(Zhang Xu)*

Lunch : 12:10~

**Session V. Improving Palliative care : 13:00~**

Current status and future perspective of team medicine in palliative care

*(Koji Ishii)*

Palliative care in Germany

*(Birgitt van Oorschot)*

Short presentations by young researchers

· Liquid phase separation of prion protein *(Tange Hiroya)*

#### **Coffee break**

#### **Further collaboration between Nagasaki and Würzburg Universities : 14:00~**

Philipp Franz von Siebold's youth in Würzburg and his first stay in Nagasaki

-Known facts and new findings-

*(Andreas Mettenleiter)*

Current status of Medical student exchange between the two universities

*(Barbara Moll and Yuko Kusumoto)*

Collaboration between the two universities in Psychiatric research

*(Jürgen Deckert)*

To obtain the Bilateral Programs Joint Research Projects/Seminars sponsored by JSPS and DFG

*(Hideki Hayashi)*

#### **Closing remarks : 14:50~**

Vice Dean of Graduate School of Biomedical Sciences, Nagasaki University, Nobuhisa Iwata

Dean of Faculty of Medicine, Würzburg University, Matthias Frosch