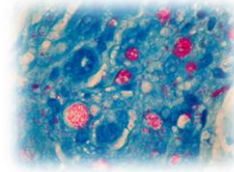




US-Japan Cooperative Medical Science Program

Mycobacterial Panel Meeting

February 9-10, 2017



Day 1: Host Response and Pathogenesis

8:30am *Welcome & Opening Remarks*

- Welcome from Korean hosts

Dr. Yasuhiko Suzuki
Mycobacterial Panel Chair (Japan)
Dr. Ray Cho

Session 1: Host Response

Session Chairs: Sabine Ehrh (USA), Naoto Keicho (Japan)

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|---------|--|--|-------|
| 9:00am | Role of IL-17 producing $\gamma\delta$ T cells in the granuloma formation in the lung during mycobacterial infection | Dr. Masayuki Umemura <i>Ryukyu University</i> | Japan |
| 9:20am | The Role of Neutrophils in TB Pathogenesis | Dr. Christina Stallings <i>Washington University</i> | USA |
| 9:40am | Immune Responses against Mycobacteria through C-type Lectin Receptors | Dr. Sho Yamasaki <i>Kyusyu University</i> | Japan |
| 10:00am | The fate of memory T cells during pulmonary tuberculosis | Dr. Samuel Behar <i>University of Massachusetts</i> | USA |

10:20am **BREAK**

| | | | |
|---------|--|--|-------|
| 10:40am | Polymorphisms and blood expression levels of interleukin 12 receptor subunit beta 2 gene in tuberculosis | Dr. Naoto Keicho <i>Research Institute of Tuberculosis</i> | Japan |
| 11:00 | Identification of infected cell population in the lung during tuberculosis | Dr. Jinhee Lee <i>University of Massachusetts</i> | USA |
| 11:20 | Suppressive effect of mycolactone on antibody production against co-administered antigens | Dr. Noriko Shinoda <i>Kitasato University</i> | Japan |
| 11:40 | Characterization of the immune mechanisms of leprosy reactions | Dr. Kathryn Dupnik <i>Weill Cornell Medical College</i> | USA |

Noon **Lunch and Poster Viewing**

Working Lunch for US and Japanese Panel Members: 2019 & Beyond- Planning for future meetings

- Alison Kraigsley (Mycobacterial Panel Secretariat)

Session 2: Pathogenesis

Session Chairs: Manabu Ato (Japan), Steven Reed (USA)

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|--------|---|--|-------------------|
| 1:20pm | Molecular characterization of a nicotinate phosphoribosyltransferase from <i>Mycobacterium tuberculosis</i> H37Rv | Dr. Shigetarou Mori <i>National Institute of Infectious Diseases</i> | Japan |
| 1:40pm | Metabolic prerequisite that enables <i>Mycobacterium tuberculosis</i> to co-catabolize multiple carbons within the host | Dr. Hyungjin Eoh <i>University of Southern California</i> | USA |
| 2:00pm | Epigenetic regulation of the CD82 is essential for the tuberculosis pathogenesis via RUNX1 | Dr. Chul-Su Yang <i>Hanyang University</i> | Republic of Korea |
| 2:20pm | <i>M. lepromatosis</i> , a new organism which also causes leprosy | Dr. Richard Truman <i>Health Resources and Services Administration</i> | USA |

BREAK

| | | | |
|--------|--|--|-------------------|
| 3:00pm | Autophagy and microRNA in mycobacterial infection | Dr. Eun-Kyeong Jo <i>Chungnam National University School of Medicine</i> | Republic of Korea |
| 3:20pm | The C-type lectin DCAR is an activating receptor for mycobacterial phosphatidyl-inositol mannoside | Dr. Kenji Toyonaga <i>Kagoshima University</i> | Japan |
| 3:40pm | The mechanisms of persistence of mycobacteria and risks of <i>M. tuberculosis</i> infection | Dr. Sohichi Matsumoto <i>Niigata University</i> | Japan |
| 4:00 | <i>Mycobacterium tuberculosis</i> : Metabolic adaptation to host environments | Dr. Sabine Ehrh <i>Weill Cornell Medical College</i> | USA |

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Day 2: Diagnosis, Treatment, and Prevention

8:40am *Opening Remarks*

Session 3: Diagnosis

Session Chairs: Yasuhiko Suzuki (Japan), , Ray Cho (Korea)

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|---------|--|---|-------------------|
| 9:00am | Sero-diagnosis of Mycobacterium avian complex lung diseases from international collaboration studies | Dr. Manabu Ato <i>National Institute of Infectious Diseases</i> | Japan |
| 9:20am | Production and screening of M. leprae specific antigens for detection of leprosy | Dr. Tetsu Mukai <i>National Institute of Infectious Diseases</i> | Japan |
| 9:40am | Efforts to detect paucibacillary leprosy patients by serological methods | Dr. Yumi Maeda <i>National Institute of Infectious Diseases</i> | Japan |
| 10:00am | Molecular diagnosis of tuberculosis: obstacles to be overcome | Dr. Hyeyoung Lee <i>College of Health Sciences, Yonsei University</i> | Republic of Korea |

10:20am **BREAK**

Session 4: Treatment

Session Chairs: Richard Truman (USA), Tetsu Mukai (Japan)

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|---------|--|---|-------------------|
| 10:40am | Current status of delamanid, and a new candidate compound against Tuberculosis | Dr. Makoto Matsumoto <i>Otsuka Pharmaceutical Co, Ltd.</i> | Japan |
| 11:00am | Novel strategies to identify synergistic anti-tubercular drug targets | Dr. Yusuke Minato <i>University of Minnesota</i> | USA |
| 11:20am | Ongoing Trials for MDR-TB treatment | Dr. Jae-Joon Yim <i>Seoul National University College of Medicine</i> | Republic of Korea |

11:40am **Lunch and Poster Viewing**

Session 5: Prevention

Session Chairs: Sohkiichi Matsumoto (Japan), Samuel Behar (USA)

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|---------|--|---|-------------------|
| 12:40pm | Innate Immune Mechanisms of Nerve Damage in Leprosy | Dr. Cressida Madigan <i>University of California- Los Angeles</i> | USA |
| 1:00pm | Optimization of prophylactic TB vaccine for adult with combinatorial adjuvants | Dr. Sang-Jun Ha <i>Yonsei University</i> | Republic of Korea |
| 1:20pm | Role of SOCS1 for establishment of mycobacterium infection | Dr. Shogo Soma <i>National Institute of Biomedical Innovation, Health and Nutrition</i> | Japan |
| 1:40pm | Vaccines to Prevent Infection | Dr. Steven Reed <i>Infectious Disease Research Institute</i> | USA |

2:00pm *Closing Remarks*

Dr. Steven Reed & Dr. Alison Kraigsley
Mycobacterial Panel Chair & Secretariat (USA)

**** Note: Talks are 15 minutes + 5 minutes of discussion**