



- Associate Professor
- Department of Medicine
- Division of Pulmonary, Critical Care & Sleep Medicine

Conditions Treated:

Research Areas:

- Basic Immunology
- Inflammation
- Lung Cell Biology
- Mycobacterial and Respiratory Infections
- Pulmonary Medicine

Programs & Services:

- Department of Medicine
- Division of Pulmonary, Critical Care and Sleep Medicine (Adult)

Mari Numata-Nakamura has twenty years of experience as a clinical pulmonologist. She currently focuses on research investigating the role of pulmonary surfactant in regulating innate immunity in the lung, with special emphasis upon surfactant lipid antagonism of inflammation and viral infection. She discovered the anti-viral properties of the surfactant lipid palmitoyl-oleoyl-phosphatidylglycerol (POPG). The long-term goals of her research are to bring basic research observations to treatment of patients.

Board Certification

2006: Japanese Society of Allergology
1998: Japanese Society of Respiratory Medicine
1998: Japanese Society of Internal Medicine

Education

Yokohama City University School of Medicine, Yokohama, Japan,

Residency

Yokohama City University School of Medicine, Yokohama, Japan,

Fellowship

Yokohama City University School of Medicine, Yokohama, Japan,

Teaching or Professional Positions

2014-2015: Visiting Associate Professor of Medicine, Yokohama City University School, Yokohama, Japan
2014-2015: Department Head, Department of Respiratory Medicine, Omori Red Cross Hospital, Tokyo, Japan
2013-2014: Vice Head, Department of Respiratory Medicine, Omori Red Cross Hospital, Tokyo, Japan
2012-2013: Assistant Professor of Medicine, Department of Medicine, National Jewish Health,

Denver, CO

2009-2012: Instructor, Department of Medicine, National Jewish Health, Denver, CO

2002-2006: Senior Chief Physician, Department of Respiratory Medicine, Kanagawa Cardiovascular and Respiratory Center, Kanagawa, Japan

2002-2003: Assistant Professor, Yokohama City University Medical Center, Critical Care and Medical Emergency Center, Yokohama, Japan

Professional Memberships

American Thoracic Society

Japanese Society of Internal Medicine

Japanese Respiratory Society

Japanese Society of Allergology

Awards & Recognition

2011: International Conference on Lung Innate Immunity and Pulmonology at ATS (i-CLIPP 2011), The i-CLIPP 2011 Peter Hansen Award for the Best Poster Presentation

2010: National Jewish Health 2010 Faculty awared, Outstanding Scientific Achievement in Basic Research (Nominees)

2009: American Thoracic Society Travel Award Grant, ATS Assembly of Microbiology, Tuberculosis and Pulmonary Infections, 2009 International Conference, San Diego, California

2008: American Thoracic Society Travel Award Grant, ATS Assembly on Microbiology, Tuberculosis and Pulmonary Infections, 2008 International Conference, Toronto, Canada

Publications

Numata M, Chu HW, Dakhama A, Voelker DR: Pulmonary surfactant phosphatidylglycerol inhibits respiratory syncytial virus-induced inflammation and infection, *Proceedings of the National Academy of Sciences of the United States of America*. 2010.107:320-325.

Numata M, Kandasamy P, Nagashima Y, Posey J, Hartshorn K, Woodland D and Voelker DR. Phosphatidylglycerol Suppresses Influenza A Virus Infection. *Am J Respir Cell Mol Biol*. 2012. 46:479–487.

Numata M, Nagashima Y, Moore ML, Berry KZ, Chan M, Kandasamy P, Peebles SR Jr, Murphy RC and Voelker DR. Phosphatidylglycerol Provides Short Term Prophylaxis Against Respiratory Syncytial Virus Infection. *The Journal of Lipid Research*. 2013. 54: 2133–2143.

Numata M, Yoji Nagashima, Pitchaimani Kandasamy, and Dennis R. Voelker. Pulmonary Surfactant Lipid, Phosphatidylinositol is a Novel Anti-Viral Compound for Treating Respiratory Syncytial Virus Infection. *The Journal of Lipid Research*. 2015. 56:578-87.

Numata M, Voelker DR.: Asthma and Infections". In: Martin RJ, Sutherland ER, eds. Lung Biology in Health and Disease. New York: Informa Healthcare. 2010:145-165. Chapter10: Pulmonary Surfactant. *Innate Immunity and Asthma*.

Doctor's Contact Information

Office: 303.398.1298

Fax: 303.398.1806