

**JSI & IGM present**

*The amazing world of the human body*

*The inner space superhero team,*

# **“MAMOLUNNGERS”**

**protecting our body against Bacchies**

JSI “Men-eki Fushigi Mirai” in Hokkaido

**Date** 2017. **2/20** **Mon**

**Time** 11:00-

**Place** BLUEBERRY English Preschool  
South 17 West 11, Chuo-ku, Sapporo

## **I. Short talk and play**

Prof. Akinori Takaoka

Do you know “Bacchies”?

They are bad guys, living on your hands and in the throat. But no worries! “Mamolunngers” living in your body beat them up!

## **II. Observation time**

Let’s look at “Mamolunngers” and “Bacchies”!  
They are so tiny. We use a microscope.



**Organizers:**  
**Japanese Society for Immunology**  
**Institute for Genetic Medicine, Hokkaido Univ.**

Also supported by Akiyama Life Science Foundation and Japanese Society of Interferon & Cytokine Research

Akinori Takaoka Signaling in Cancer and Immunology

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# Welcome to

The amazing world of the human body

## The inner space superhero team, "MAMOLUNNGERs" protecting our body against Bacchies

This program is organized by Institute for Genetic Medicine (IGM) and Japanese Society for Immunology (JSI). IGM, which is affiliated to Hokkaido University, has been committed to basic research for medicine by determining molecular mechanisms of biological processes in health and disease, in an effort to find a novel strategy for disease prevention and therapy. On the other hand, JSI is an association of approximately 3,500 professionally trained scientists in Japan dedicated to advancing the knowledge of immunology and its related disciplines. As one of the social contributions by these organizations, we launched this educational program particularly for preschool children, though which they can learn about the immune system of human body. This system is essential for eradication of microbes upon infection, a battle between immune cells and microbes. The content is actually what college students study in their immunological class, for example, how T- or B-lymphocytes attack bacteria or virus-infected cells or how human immunodeficiency virus (HIV) devastates the whole system of immunity in human. We make it easy to understand it by using illustrated slide presentation and short play. Additionally, in the second part, children observe immune cells (lymphocytes) and microbes (bacteria, fungi and Echinococcus worm; the last one is a well-known pathogen in Hokkaido) to not only promote their understanding of immune defense against microbial infection, but also provide a good opportunity for them to discover a microscopic world. Lastly, we explain the importance of gargling, washing hands, and sufficient sleep/eating in the context of the immune defense against infection. We hope that many children and parents participate in this program. (This program is also supported by the Akiyama life science foundation and Japanese Society of Interferon & Cytokine Research (JSICR).)

Akinori Takaoka, M.D., Ph.D.,

Professor, Institute for Genetic Medicine, Hokkaido University

### Program

20th (Mon.), Feb., 2017 from 11:00

#### I. Short talk and play

The amazing world of the human body  
The inner space superhero team, "MAMOLUNNGERs"  
protecting our body against Bacchies



#### II. Observation time

Let's look at "MAMOLUNNGERs"  
and "Bacchies", by using a microscope.



<Cast>



Mamolunnger **Shiraykan**  
Akinori Takaoka



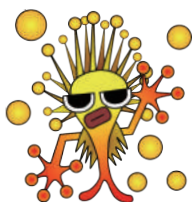
Mamolunnger **Mac-kun**  
Mei Hashizume



Mamolunnger **T**  
Takeshi Kameyama



Mamolunnger **B**  
Toshihiro Goh



Bacchie **Kabi**  
Kazuyoshi Muranishi



Bacchie **Kin-chan**  
Taisho Yamada



Bacchie **Influ-kun**  
Seichi Sato



Bacchie **Influ-chan**  
Yohei Miyashita



Bacchie **AIDS-kun**  
Yoko Nishimoto

<Illustration>

Tomohiro Kawabe  
Takeshi Kameyama

<Playscript>

Akinori Takaoka  
Kojiro Ishibashi  
Toshihiro Goh

<Sound/lighting>

Amiko Masuya  
Hinano Muto  
Naoya Katsuyama

<Costumes/props>

Kozo Ishikawa  
Kenichi Miyamoto  
Hidetaka Yajima  
Nozomi Sakurai  
Hiromi Machino  
Sara Iwabuchi  
Yurie Nagoshi

#### ● Organizers

Japanese Society for Immunology  
Institute for Genetic Medicine, Hokkaido University

#### Supported by

Akiyama Life Science Foundation  
Japanese Society of Interferon & Cytokine Research

#### ● Contact

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