



## Press Release

# Project COINS's Newsletter "NanoSky" Vol.8 (English Edition)

The project COINS's newsletter "NanoSky Vol.8" (English edition) has been published with the following contents:

- Talk: About the support organization for the research and entrepreneurship in iCONM beyond the world.
- Roundtable: Real talk of foreign scientists. Goodness of living in Japan.
- Nano-DDS research news: Adjuvant-free mRNA vaccine and Chemoimmunotherapy for

April 1, 2021 –As the Kawasaki hub (COINS) of the "Center of Innovation (COI) Program" of the Ministry of Education, Culture, Sports, Science and Technology, the KAWASAKI INSTITUTE OF INDUSTRIAL PROMOTION Innovation Center of NanoMedicine (Director General: Kazunori Kataoka, Location; Tonomachi Kawasaki City, Abbreviation: iCONM) aiming to establish "in-body hospitals ®" by 2045 has published the English edition of Newsletter "NanoSky Vol.8 -COINS' Innovation Platform that leads to Future Health Care-".

Click here for the newsletter "NanoSky Vol.8":

<https://coins.kawasaki-net.ne.jp/en/achievement/pdf/NanoSkyvol8.pdf>

COINS newsletter "NanoSky" introduces one sub-theme for each issue, and so far, 7 issues (general remarks + 1 issue for each theme) have been published.

#1 COINS A Future Created by "In-Body Hospital"

#2 Nanomachines Changing Cancer Treatment

#3 Nanodiagnostic Technology Changes Future Medicine

#4 New Route to Innovative Treatment of Central Nervous System Disease with Nanomachines

#5 Innovative Minimally Invasive Treatment led by "Nanomachines × Medical Equipment"

#6 Fascinating! World's first mRNA therapeutics

#7 COINS Social Implementation Strategy towards Realization of In-Body Hospitals

Click here for the back numbers:

<https://coins.kawasaki-net.ne.jp/en/achievement/newsletter.html>

The eighth issue, will be subtitled " COINS' Innovation Platform that leads to Future Health Care". How will COINS, which is about to expire in 15 months, undergo a transformation in the future? In the opening talk, Dr. Hiroshi Atsumi, Business Strategy Manager, Office for post COINS, Dr. Makoto Shimazaki, Chief Communication Officer of COINS and Business Officer, Office for post COINS, and Dr. Koji Nagai, Chief Research Coordinator of COINS, talked about the support organization for the research and entrepreneurship in iCONM beyond the world.

At the Round-Table, Real talk of foreign scientists about the goodness of living in Japan. It also explains the results of COINS research outcomes such as "Adjuvant-Free mRNA Vaccine" and " Chemo-immunotherapy for chemoimmunotherapy for glioblastoma". Please see the URL below for details.

Click here for the newsletter “NanoSky Vol.8”:

<https://coins.kawasaki-net.ne.jp/en/achievement/pdf/NanoSkyvol8.pdf>

## **NanoSky Vol.8 Contents (16 pages)**

-COINS' Innovation Platform that leads to Future Health Care-

### **Talking about Incubation**

Looking ahead to the Cooperation with the World, Establish a Research ▪ Incubation Support System

### **Interview with Scientists**

Create COVID-19 Vaccine Using the Combination of Partially Double-Stranded mRNA and Nanomachines

### **Research Highlight**

Nano-DDS (Epirubicin-loaded nanomedicines) beat immune checkpoint blockade resistance in Malignant Brain tumors (Glioblastoma)

### **Round-Table Talk**

Heart to Heart Talk by iCONM Foreign Scientists

### **Listen to COINS' Members**

My job and Challenge

### **Activity Report**

- Topics
- Turn adversity into chance! Establish a new online communication method
- Editor's note

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## **Public Interest Incorporated Foundation KAWASAKI INSTITUTE OF INDUSTRIAL PROMOTION**

KAWASAKI INSTITUTE OF INDUSTRIAL PROMOTION was established in 1988 funded 100% from Kawasaki City for the purpose of coping with the hollowing out of industry and changes in the demand structure.

In order to realize a higher level of market development, transforming R&D type companies, training technological capabilities to support it, human resources development, understanding market needs, etc., by utilizing the functions of the Kawasaki, KAWASAKI INSTITUTE OF INDUSTRIAL PROMOTION has been contributing to revitalize the local economy by promoting exchanges of local industry information, advancing technology and corporate exchanges with establishment of a R&D institutions, developing creative human resources through workshops and promoting businesses such as expanding sales channels through exhibition business.

<http://www.kawasaki-net.ne.jp/>

## **Innovation Center of NanoMedicine (iCONM)**

Innovation Center of NanoMedicine (iCONM) started its operation in April 2015 as a core research center in life science field at King SkyFront on the request of Kawasaki city that KAWASAKI INSTITUTE OF INDUSTRIAL PROMOTION utilized national policies as a business operator and proposer.

It is a unique research center that the world has ever seen which is designed for the purpose of promoting open innovation through industry-academia-government/medical-engineering collaboration, prepared with state-of-the-art facilities and experimental equipment, that enables comprehensive research and development from organic synthesis / microfabrication to preclinical testing.

<https://iconm.kawasaki-net.ne.jp/en/>

## **Center of Innovation Program (COI)**

The COI program is a research and development program under the Ministry of Education, Culture, Sports, Science and Technology and the Japan Science and Technology Agency. The program employs the backcasting approach and set interdisciplinary and collaborative R&D themes that should be challenged at the present from the issues that are underlying in the future society. Eighteen centers have been established nationwide to realize radical innovation through industry-academia collaboration which cannot be accomplished by industry and academia alone.

The Kawasaki center is the only COI center managed by local governments, not universities, and the research projects carried out there are called COINS (Center of Open Innovation Network for Smart Health).

COI: <https://www.jst.go.jp/tt/EN/platform/coi.html>

COINS: <https://coins.kawasaki-net.ne.jp/en/>

April 1, 2021