

## Translation

### Chugai to Participate in High-Quality Protein Crystal Growth Experiment in the International Space Station, “Kibo,” as Private Company

March 20, 2014 (Tokyo) - Chugai Pharmaceutical Co., Ltd. [Head Office: Chuo-ku, Tokyo; Chairman & CEO: Osamu Nagayama] (hereafter, Chugai)] announced today that it will participate in the high-quality protein crystal growth experiment under microgravity environment in “Kibo,” the Japanese Experiment Module on the International Space Station conducted by Japan Aerospace Exploration Agency (hereafter, JAXA PCG).

JAXA PCG is the protein crystal growth experiment conducted at “Kibo” based on JAXA’s accumulated high-quality protein crystal growth technology. In the first experiment of the second series, proteins to be crystallized will be filled up into JAXA’s crystallization instrument (named as JCB-SGT) and launched by the Soyuz Spacecraft on March 26, 2014. Koichi Wakata, the Japanese astronaut who now resides at the international space station for an extended period, will support the first experiment.

Chugai applied for the Industrial R&D course of JAXA PCG for target drug discovery and its protein was selected as one of the targeted proteins for the first experiment of the second series by the “High-Quality Protein Crystal Growth Experiment Working Group” consisting of external members which evaluates candidates for targeted proteins in the view of its safety and feasibility etc. With this experiment, Chugai is aiming at revealing a precise 3D structure of the protein by the high-quality crystals grown under the space microgravity environment to help understand the functions of drug candidate protein and create revolutionary new drugs.

#### 【Outline of the First Experiment of the Second Series on JAXA PCG】

Launch date : March 26, 2014

Launch site : Baikonur Cosmodrome, Kazakhstan

Scheduled return date : May 14, 2014

Landing location : Kazakhstan

Return flight : By Soyuz Spacecraft

Reference) Press release dated March 20 from Japan Aerospace Exploration Agency  
“Pharmaceutical Companies Participation in High-Quality Protein Crystal  
Growth Experiment on Kibo”

[http://www.jaxa.jp/press/2014/03/20140320\\_protein\\_e.html](http://www.jaxa.jp/press/2014/03/20140320_protein_e.html)