**Specification development of Hayabusa2 Curation facilities at JAXA.**

M. Uesugi¹, A. Nakato¹, Y. Karouji¹, M. Hashiguchi¹, T. Matsumoto¹, K. Kumagai¹, M. Nishimura¹, T. Yada¹, T. Okada¹, M. Abe¹, K. Hashizume², N. Imae³, M. Ito⁴, Y. Kebukawa⁵, F. Kitajima⁶, A. Kouchi⁷, T. Kunihiro⁸, Y. N. Miura⁹, K. Nakamura¹⁰, T. Nakamura¹¹, H. Naraoka⁶, T. Noguchi⁶, T. Ohigashi¹², R. Okazaki⁶, S. Sakai⁷, K. Sakamoto¹, H. Sawada¹, N. Shirai¹³, S. Tachibana⁷, Y. Takanono⁴, N. Tomioka⁶, K. Uesugi¹⁴, H. Yabuta², K. Yamada¹⁵, A. Yamaguchi³, and H. Yurimoto⁷.

¹JAXA. E-mail: uesugi@planeta.sci.isas.jaxa.jp. ²Osaka Univ. ³NIPR. ⁴JAMSTEC. ⁵YNU. ⁶Kyushu Univ. ⁷Hokkaido Univ. ⁸Okayama Univ. ⁹Univ. Tokyo. ¹⁰NASA. ¹¹Tohoku Univ. ¹²IMS. ¹³TMU. ¹⁴JASRI. ¹⁵TITECH.

**Introduction:** Hayabusa2 spacecraft was successfully launched at Dec. 3, 2014 from Tanegashima space center, JAXA. Target asteroid of Hayabusa2, 1999JU3, is a C-type asteroid which is considered to be a parent body of carbonaceous chondrites those containing hydrous minerals and organic materials [e.g. 8-9]. Such primitive materials will provide new insights to the nature of our solar system, such as evolution of asteroids, circumstance of early solar nebula even before the formation of asteroids or before the formation of our solar system.

Specification development of curation facilities for the samples to be obtained by Hayabusa2 started from June 2015. The committee is going to develop specifications for series of sample curation; i.e., sample catcher opening procedure, sample transfer system, contamination and cleanness control, sample handling and manufacturing, initial description at JAXA, clean room, clean chambers and sample preservation with steering of astromaterials science research group (ASRG), JAXA.

In this presentation, we report the flow and current status of the development of the specification, and will also discuss the curation facility for the future sample return missions.