

MIS36-11

会場:314

時間:5月1日 14:45-15:00

国際宇宙ステーションでのタンパク質結晶成長その場観察実験結果 In-Situ Observation of Protein Crystal Growth in The International Space Station

村山 健太^{1*}; 吉崎 泉²
MURAYAMA, Kenta^{1*}; YOSHIZAKI, Izumi²

¹ 塚本勝男, ²JAXA
¹Katsuo Tsukamoto, ²JAXA

In-situ observation of protein crystal growth was conducted at the international space station in 2012. Both growth rate and surface topography of lysotyme crystals vs supersaturation and purity of the solution were measured for the first time by interferometry in space. The differences from ground-base experiments became clear to answer the question "Why better crystal could be grown in space?".

キーワード: 結晶成長, 宇宙実験

Keywords: crystal growth, space experiment, microgravity