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**P-082 Disulfide-coupled folding of *de novo* designed eel prouroguanylin protein**

Ryota Shinto, Koki Mizoe, Masaya Goto, Norie Nakajima, Shigeru Shimamoto, Yuji Hidaka (Graduate School of Science and Engineering Research, Kindai University)

**P-085–125: October 22 (Friday) 11:20–12:20**

**P-083 Mutational analyses of the enzymatic activities of a *Bombyx mori* cocoonase**

Ayumi Ogata<sup>1</sup>, Misaki Nishimura<sup>1</sup>, Nana Sakata<sup>1</sup>, Mitsuhiro Miyazawa<sup>2</sup>, Shigeru Shimamoto<sup>1</sup>, Yuji Hidaka<sup>1</sup> (<sup>1</sup>Graduate School of Science and Engineering Research, Kindai University, <sup>2</sup>Institute of Agrobiological Sciences, National Agriculture and Food Research Organization)

**P-084 Synthesis of immobilized gold nanoparticles with catalytic activity using resin conjugated with gold mineralizing peptide**

Shuhei Yoshida, Takaaki Tsuruoka, Kenji Usui (Graduate School of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University)

**P-085 Remineralization potential of bioactive glass and foldamer-based peptides on enamel**

Enrique Ezra Zuniga Heredia<sup>1</sup>, Fernando Arteaga Arteaga<sup>2,3</sup>, Masaya Sawamura<sup>2</sup>, Masahiro Iijima<sup>1</sup> (<sup>1</sup>Division of Orthodontics and Dentofacial Orthopedics, Health Sciences University of Hokkaido, <sup>2</sup>School of Sciences, Hokkaido University, <sup>3</sup>Institute for the Advancement of Higher Education, Hokkaido University)

**P-086 Amine-selective reaction of 2*H*-azirine for synthesis of peptidemimetics**

Hirotu Takahashi<sup>1</sup>, Makoto Roppongi<sup>2</sup>, Shingo Tamesue<sup>1</sup>, and Toru Oba<sup>1</sup> (<sup>1</sup>Department of Material and Environmental Chemistry, Graduate School of Engineering, Utsunomiya University, <sup>2</sup>Advanced Instrumental Analysis Department, Utsunomiya University)

**P-087 Functional analysis of cell-aggregate inducing peptide**

Ikumi Amimoto<sup>1</sup>, Rino Watanabe<sup>1</sup>, Yoshiaki Hirano<sup>1,2</sup> (<sup>1</sup>Faculty of Chemistry, Materials and Bioengineering, Kansai University, <sup>2</sup>Organization for Research and Development of Innovative Science and Technology, Kansai University)

**P-088 Artificially designed  $\alpha$ -helical peptide nanofibers showing liquid-crystal like thermal behavior**

Minami Kurokawa<sup>1</sup>, Mika Hirose<sup>2</sup>, Akihiro Kawamoto<sup>2</sup>, Atsuo Tamura<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Univ. Kobe., <sup>2</sup>IPR, Osaka Univ.)

**P-089 Development of temperature-responsive short-chain peptide analogues based on elastin-like peptide FPGVG**

Keitaro Suyama<sup>1</sup>, Shogo Sumiyoshi<sup>2</sup>, Naoki Tanaka<sup>2</sup>, Takumi Ando<sup>2</sup>, Akihiko Nagata<sup>3</sup>, Keisuke Tomohara<sup>1</sup>, Suguru Taniguchi<sup>4</sup>, Iori Maeda<sup>4</sup>, Takeru Nose<sup>1,2</sup> (<sup>1</sup>Faculty of Arts and Science, Kyushu University, <sup>2</sup>Department of Chemistry, Faculty and Graduate School of Science, Kyushu University, <sup>3</sup>Department of Chemistry, Faculty of Science, Kyushu University, <sup>4</sup>Department of Physics and