International Workshop on Biomaterials in Biosis-Abiosis Intelligent Interface Science

-Innovative Research for Biosis-Abiosis Intelligent Interface Summer Seminar 2012-

Research on biomaterials has recently become crucial due to strong demands in developing materials for replacing human-body parts. The International Workshop on Biomaterials in Biosis-Abiosis Intelligent Interface Science (Innovative Research for Biosis-Abiosis Intelligent Interface Summer Seminar 2012) has provided a valuable forum for presentation, discussion, idea sharing, collaboration as well as interdisciplinary exchanges among the experts, researchers and students from different fields and expertise to meet and establish the intelligent interface science on biomaterials.

The Innovative Research for Biosis-Abiosis Intelligent Interface Summer Seminar 2012 was held on August 2 - 3, 2012 in Miyagi-Zao Royal Hotel, Miyagi, Japan as the first series of international forums in the frame of a 5-year research and collaboration project on Biomaterials in Biosis-Abiosis Intelligent Interface Science. The project involves 3 institutions, namely Institute for Materials Research, Graduate School of Dentistry, and Graduate School of Biomedical Engineering, Tohoku University. The financial support for the Summer Seminar was partly provided by International Collaboration Center-Institute for Materials Research (ICC-IMR), Tohoku University.

The Summer Seminar was held in a two-day technical program in which 24 papers were presented including 4 invited lectures by researchers of bio-/medical materials from Korea and the People Republic of China. About 48 participants consisting of experts, researchers and students attended the Summer Seminar. The invited speakers in this workshop were Prof. Zhixia LI (Dept of Chemical Eng., Guangxi University, China), Prof. Seog-Young YOON (School of Materials Science & Eng., Pusan National University, Korea), Prof. Jung-Suk HAN (School of Dentistry, Seoul National University, Korea) and Prof. Seong-Kyun KIM (School of Dentistry, Seoul National University, Korea).

The lecture by Prof. Z. Li was on the research on sol-gel derived magnetic microspheres for hyperthermia of cancer. Prof. S. Y. Yoon presented the study on in situ formation of biphasic calcium phosphates and their biological performance. Meanwhile, Prof. J. S. Han's lecture was on the clinical use of alumina-toughened zirconia abutments for implat-supported restoration. Prof. S. K. Kim's presentastion was on characterization of low-adherent bone marrow mesenchymal stem cells. Besides the invited lectures, numbers of papers on bio, dental and skeletal materials were presented by researchers and students.

The different academic backgrounds among the participants has provided the interdisciplinary exchange and enriched the viewpoints during the discussion of a specific topic. In addition, this workshop also accommodated researchers to have a good opportunity and forum to present their research in English as well as to touch the cutting edges of the development on biomaterials and innovative research for biosis-abiosis interface.

Fig.1. Participants of the International Workshop on Biomaterials in Biosis-Abiosis Intelligent Interface Science (Innovative Research for Biosis-Abiosis Intelligent Interface Summer Seminar 2012) in a photo session.

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