

## **New Platform for Managing Various Types of Biomedical Data**

Gyeongwoo Cheon<sup>1</sup>, Hyoun-Joong Kong<sup>2</sup>, Kyongsoo Park<sup>3</sup> and Hee Chan Kim<sup>4\*</sup>

1. Interdisciplinary Program, Bioengineering Major, Graduate School, Seoul National University, Seoul 151-742, Korea
2. Interdisciplinary Program, Biomedical Engineering Major, Graduate School, Seoul National University, Seoul 151-742, Korea
3. Department of Internal Medicine, College of Medicine, Seoul National University, Seoul 110-744, Korea
4. Department of Biomedical Engineering, College of Medicine and Institute of Medical & Biological Engineering, Medical Research Center, Seoul National University, Seoul 110-744, Korea

E-mail : malignant82@melab.snu.ac.kr

Various types of biomedical data have been collected and integrated into hospital database. Whenever questionnaires change, database needs to be redesigned and tedious coding must be done. To overcome these problems, we devised a new DB management platform on genomic and health data. The platform uses Java Applet as a basic user interface program and MySQL for database management. It also supports functions for creating and modifying tables for each new questionnaire. The system handles various situations more flexibly by separating GUI and text parts from the questionnaire. The platform was applied to genomic and health DB from diabetes mellitus patients at Seoul National University. It has reduced complications in modification of the DB and UI without recompiling and editing codes. This development gives researchers opportunities to concentrate on analyzing data rather than the system itself.

### **References**

- [1] H. M. Deitel, P. J. Deitel, S. E. Santry, "Advanced JAVA2 Platform –How to Program" 1<sup>st</sup> ed., Prentice-Hall, Inc., New Jersey(2002).