

Array-based molecular allergy diagnostics: Development of a unique, world-wide database for knowledge discovery

Description:

In allergy diagnostics there is an increasing trend of interest from singleplex to multiplex testing and from traditional extract-based to molecular allergy diagnostics. The need for interpretation support increases with the increasing number of test results to handle. In addition, the molecular allergy diagnostics field is just in its beginning with new technologies for knowledge discovery. In parallel there is an ongoing trend towards personalized medicine where health care organisations increasingly turn to clinical decision support systems to improve clinical practice.

In order to fulfil the customer need for interpretation support Phadia is developing two test result guiding systems with artificial intelligence good enough to add guidance to ImmunoCAP® test results as an aid in allergy diagnosis. In addition we aim to form the basis for and develop a global database to enable improved possibilities for future knowledge discovery in molecular allergology.

The aim of the thesis work is to facilitate and build up the framework for a unique, world-wide molecular allergy database and complementing interpretation support tools. Since this research area is in an early phase we are convinced that the database will serve as a basis for amounts of research publications in collaboration with external researchers from all over the world as well as product quality assurance and improvements.

Competence: You have analytical skills, good cooperative skills and a positive personality. You are comfortable with problem/data visualization, object oriented programming and (scientific) writing.

Description of Bioinformatics unit: Development of data analysis applications for clinical decision support aimed for clinicians, laboratories and in the future also patients. One of our core missions is to evaluate and research the latest in new methodologies and tools for data interpretation generated by array-based biotechnologies and to translate research finding into clinical decision support systems.

Apply before: 2010-11-25

Start: End Jan 2010

City: Uppsala, Sweden

Job area: Scientific Affairs

Contact person:

Name: Annica Önell, Bioinformatics Manager, Phadia AB

E-mail: annica.onell@phadia.com

Phone: +46 18 163404
