

## Poster B-1

### MPVAD: System of integration of biological data



#### Authors:

R Puga (*Faculty of Medicine of Ribeirão Preto, Department of Genetic, University of São Paulo, Ribeirão Preto*)

S Amui (*Faculty of Pharmaceutical Sciences, University of São Paulo, Ribeirão Preto, SP, Brazil*)

D Jorge (*Faculty of Medicine of Ribeirão Preto, Department of Genetic, University of São Paulo, Ribeirão Preto*)

M Junior (*Department of Biotechnology, University of Ribeirão Preto, Ribeirão Preto, SP, Brazil*)

A Soares (*Faculty of Pharmaceutical Sciences, University of São Paulo, Ribeirão Preto, SP, Brazil*)

S Giuliatti (*Faculty of Medicine of Ribeirão Preto, Department of Genetic, University of São Paulo, Ribeirão Preto*)

**Short Abstract:** In order to establish a relationship between scientific data of medicinal plants ant poison and poisons of animals and Venom was developed the Medicinal system Plants of Animals Database (MPVAD)

#### Long Abstract:

##### Introduction:

In order to establish an integration between scientific data of anti-poison medicinal plants and animal poisons, we proposed the system Medicinal Plants and Venom of Animals Database (MPVAD). The MPVAD is a system that makes the integration between the data. Being a system of scientific content, the complexity and the amount of information that will be stored in the database require the use of a flexible platform for it's development. Therefore, the aim of this work is the development of a system that is robust and flexible. It was developed to a web interface to facilitate the use of the functionalities of the system as, for example, cadastre of users, laboratorials data, chemical composites, protein sequences, and others. The MPVAD presents a security system for accessing the information, which is restricted only collaborating researchers, thus assuring that the data of the flora and fauna brazilian are preserved. The only assessible date are those that have been published or authorized for researcher.

##### Methodology:

In order to have malleability of future updates the CMS (Content Management System) was chosen Drupal (<http://www.drupal.org>) for the implementation of the interface. The CMS Drupal manages all the content and services attributed to the web interface like: user access (login), search, and insertion data, updates, and others. The relationship between the data in the database is managed by the Drupal through the categories, where each type of content is specified. The MPVAD is being executed in a PC - P4 3,0 with the operational system GNU/Linux Fedora 4 (<http://fedoraproject.org/>), data base MySQL (<http://www.mysql.com>). Scripts are being implemented in PHP (<http://www.php.net>) and Perl (<http://www.perl.com>)

languages. Conclusion: The technological advances have contributed in the biological and scientific areas offering computational tools and specific systems to analysis of data in silico, supplying fast and accurate results. Therefore, this advance helps the researchers to decide which is the next step to be taken, based on the results of these systems. This type of approach shows how system like MPVAD is of great importance to research, by joining scientific information in just only one system.

Sponsorship: FAPESP 05/55713-5.