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Blaz Skrlj, Tanja Kunej



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Computational identification of non-synonymous polymorphisms within regions corresponding to protein interaction sites

Blaz Skrlj, Tanja Kunej^{*}

Department of Animal Science, Biotechnical Faculty, University of Ljubljana

Blaž Škrlj: skrljblaz@gmail.com

Tanja Kunej: tanja.kunej@bf.uni-lj.si

^{*}Corresponding author. Tanja Kunej, PhD, Chair of Genetics, animal biotechnology and immunology, Department of Animal Science, Biotechnical Faculty, University of Ljubljana, Groblje 3, Slovenia, Tel.: +3861 320 3890, fax: +3861 7217 888, E-mail: tanja.kunej@bf.unilj.si

Keywords: *In silico*, PiSITE database, protein-protein interactions (PPIs), non-synonymous SNPs (nsSNPs)

Abstract

Background

Protein-protein interactions (PPI) play an important role in function of all organisms and enable understanding of underlying metabolic processes. Computational predictions of PPIs are an important aspect in proteomics, as experimental methods may result in high degree of false positive results and are more expensive. Although there are many databases collecting predicted PPIs, exploration of genetics information underlying PPI interactions has not been investigated thoroughly. The aim of the present study was to identify genomic locations corresponding to regions involved in predicted PPIs and to collect non-synonymous polymorphisms (nsSNPs) located within those regions; which we termed PPI-SNPs. **Methods**: Predicted PPIs were obtained from PiSITE database (http://pisite.hgc.jp). Non-synonymous Download English Version:

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