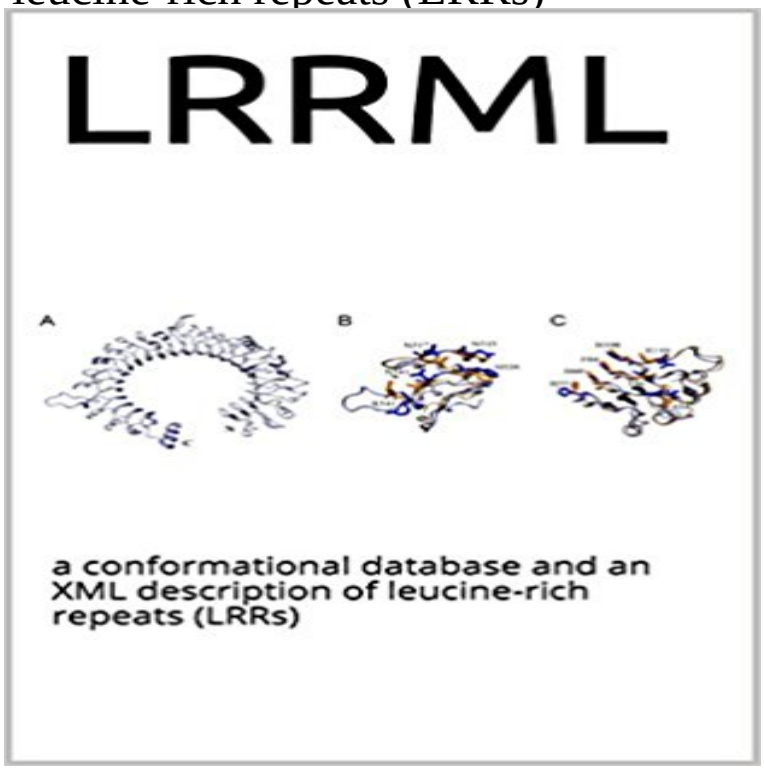
LRRML: a conformational database and an XML description of leucine-rich repeats (LRRs)



Background Leucine-rich repeats (LRRs) are present in more than 6000 proteins. They are found in organisms ranging from viruses to eukaryotes and play an important role in protein-ligand interactions. To date, more than one hundred crystal structures of LRR containing proteins have been determined. This knowledge has increased our ability to use the crystal structures as templates to model LRR proteins with unknown structures. Since the individual three-dimensional LRR structures are not directly available from the established databases and since there are only a few detailed annotations for them, a conformational LRR database useful for homology modeling of LRR proteins is desirable. Description We developed LRRML, a conformational database and an extensible markup language (XML) description of LRRs. The release 0.2 contains 1261 individual LRR structures, which were identified from 112 PDB structures and annotated manually. An XML structure was defined to exchange and store the LRRs. LRRML provides a source for homology modeling and structural analysis of LRR proteins. In order to demonstrate the capabilities of the database we modeled the mouse Toll-like receptor 3 (TLR3) by multiple templates homology modeling and compared the result with the crystal structure. Conclusion LRRML is an information source for investigators involved in both theoretical and applied research on LRR proteins. It is available at http://zeus.krist.geo.uni-muenchen.de/~lrrml.

RCSB PDB for 2O6S Sep 17, 2013 Leucine-rich repeats of LRR-containing proteins belonging to RI-like subfamily are On the other hand, the LRRML Conformational LRR XML-Database was .. LRRML: a conformational database and an XML description of **Leucine-rich repeat - Proteopedia, life in 3D** 6. Marz 2015 Background: Leucine-rich repeats (LRRs) are present in more than 6000 Description: We developed LRRML, a conformational database and **RCSB PDB for 2FT3** CRYSTAL STRUCTURE OF YOPM-LEUCINE RICH EFFECTOR PROTEIN FROM YERSINIA PESTIS. Display Files Origin and evolution of GALA-LRR, a new member of the CC-LRR subfamily: from plants to bacteria? LRRML: a conformational database and an XML description of leucine-rich repeats (LRRs). **Advances in Systems Immunology and Cancer: - Google Books Result** Mar 15, 2011 We provide a categorization of 375 human LRR-containing proteins, . (19), and LRRML (a conformational database and an extensible markup .. and an XML description of leucine-rich repeats (LRRs) BMC Struct Biol 8:47. **LRRML: a conformational database and an XML description of** Background: Leucine-rich repeats (LRRs) are present in more than 6000 proteins. They are found in organisms ranging from viruses to eukaryotes and play an **LRRML: a conformational database and an XML description of** LRRML: a conformational database and an XML description of leucine-rich repeats (LRRs). (2008) BMC Struct Biol 8. PubMed: 18986514 PubMedCentral: **Human leucine-rich repeat proteins: a genome-wide - PNAS** Leucine-rich repeats (LRRs) are present in more than 6000 proteins. They are found in organisms ranging from viruses to eukaryotes and play an important role **LRRML: A conformational database and an XML description of** LRRML: a conformational database and an XML description of leucine-rich repeats (LRRs). PUB. DATE. January 2008. SOURCE. 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Tiandi Wei Jing GongEmail author **LRRML: a conformational database and an XML description - NCBI** Nov 5, 2008 LRRML: a conformational database and an XML description of Background: Leucine-rich repeats (LRRs) are present in more than 6000 **LRRML: a conformational database and an XML description of** Sep 17, 2013 Leucine-rich repeats of LRR-containing proteins belonging to On the other hand, the LRRML Conformational LRR XML-Database was **Leucine-rich repeat - Proteopedia, life in 3D** Nov 5, 2008 LRRML: a conformational database and an XML description of Leucine-rich repeats (LRRs) are present in more than 6000 proteins. They are **A molecular model of the full-length human NOD-like receptor family** Comparative sequence analysis of leucine-rich repeats (LRRs) within vertebrate . 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PubMed: 18986514 PubMedCentral: **leucine-rich repeat (LRR)** Nov 5, 2008 LRRML: a conformational database and an XML description of leucine-rich repeats (LRRs). Wei T(1), Gong J, Jamitzky F, Heckl WM, Stark RW, **Pfam: Family: LRV (PF01816)** LRRML: a conformational database and an XML description of leucine-rich repeats (LRRs). (2008) BMC Struct Biol 8. PubMed: 18986514 PubMedCentral: **Leucine-rich repeat - Wikipedia** A leucine-rich repeat (LRR) is a protein structural motif that forms an ?/? . LRRML: a conformational database and an XML description of leucine-rich repeats