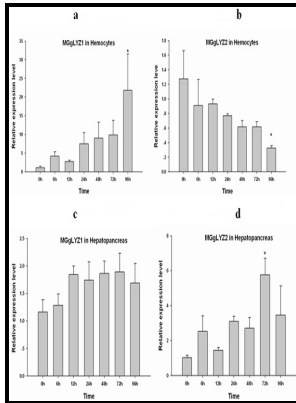


Evolution of stomach lysozyme - the structure and the function of the pig lysozyme gene.

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Episodic evolution in the stomach lysozymes of ruminants

Southern blot and sequence analyses showed that the lysozyme gene underwent several gene duplication events and evolved with amino acid replacements during the adaptive radiation of cichlids. Thank you for visiting nature. The tissue-specific expression of SLLP1 in reptiles, and that if SLLP1 is a sperm-specific protein in reptiles is not known.

Phylogenetic Analysis of Invertebrate Lysozymes and the Evolution of Lysozyme Function

Scale bars indicate rate of substitutions per site. Despite this, the coding regions of stomach lysozyme genes within a species e. Ose T, Kuroki K, Matsushima M, Maenaka K, Kumagai I 2009 Importance of hydrogen bonding network including Asp52 for catalysis, as revealed by Asn59 mutant hen egg white lysozymes.

Fish lysozyme gene family evolution and divergent function in early development

The hedgehog had three genomic scaffolds with similarity to lysozyme g, however it is possible that two of these scaffolds 182805 and 371836 are fragments of a single gene as they are non-overlapping Additional file : Table S1.

Gene duplications and the evolution of c

Interaction i This subsection of the 'Interaction' section provides information about the protein quaternary structure and interaction s with other proteins or protein complexes with the exception of physiological receptor-ligand interactions which are annotated in the 'Function' section. The most common neighborhood is that illustrated by the zebrafish in Figure.

Structural, Functional and Phylogenetic Analysis of Sperm Lysozyme

The avian and mammalian Lyz genes are flanked by the Cpsf6 and Yeats4 genes Figure. Gene sizes and distances between genes are not to scale.

Evolution of stomach lysozyme: the pig lysozyme gene

The posterior probability support for each node is shown.

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