LAGAN
RRID:SCR_008558
Type: Tool

Proper Citation
LAGAN (RRID:SCR_008558)

Resource Information

URL: http://lagan.stanford.edu

Description: About the LAGAN Toolkit The LAGAN Toolkit consists of four components: CHAOS CHAOS is a pairwise local aligner optimized for non-coding, and other poorly conserved regions of the genome. It uses both exact matching and degenerate seeds, and is able to find homology in the presence of gaps. LAGAN LAGAN is our highly parametrizable pairwise global alignment program. It takes local alignments generated by CHAOS as anchors, and limits the search area of the Needleman-Wunsch algorithm around these anchors; Multi-LAGAN Multi-LAGAN is a generalization of the pairwise algorithm to multiple sequence alignment. M-LAGAN performs progressive pairwise alignments, guided by a user-specified phylogenetic tree. Alignments are aligned to other alignments using the sum-of-pairs metric. Shuffle-LAGAN Shuffle-LAGAN is a novel glocal alignment algorithm that is able to find rearrangements (inversions, transpositions and some duplications) in a global alignment framework. It uses CHAOS local alignments to build a map of the rearrangements between the sequences, and LAGAN to align the regions of conserved synteny. The website uses scripts written by Alex Poliakov. The website was designed by Marina Sirota.

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Resource Type: Resource, software resource

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Parent Organization: Stanford University; Stanford; California

Website Status: Last checked up
Ratings and Alerts

No rating or validation information has been found for LAGAN.

No alerts have been found for LAGAN.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 34 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch Infrastructure.


Evolution and Relationship of Two Weedy Species, and (Asteraceae). Genes, 10(11).


Ruan R, et al. (2016) Organization and characteristics of the major histocompatibility complex class II region in the Yangtze finless porpoise (Neophocaena asiaeorientalis asiaeorientalis). Scientific reports, 6, 22471.

