EMBOSS: The European Molecular Biology Open Software Suite

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The European Molecular Biology Open Software Suite (EMBOSS) is a mature package of software tools developed for the molecular biology community. It includes a comprehensive set of applications for molecular sequence analysis and other tasks and integrates popular third-party software packages under a consistent interface. EMBOSS includes extensive C programming libraries and is a platform to develop and release software in the true open source spirit.

A major new stable version is released each year and the current source code tree can be downloaded via CVS. All code is open source and licensed for use by everyone under the GNU Software licenses (GPL with LGPL library code).

There have been many tens of thousands of downloads including site-wide installations all over the world since the project inception. EMBOSS is used extensively in production environments reflecting its mature status and has been incorporated into many web-based, standalone graphical and workflow interfaces including wEMBOSS, EMBOSS Explorer, JEMBOSS, SoapLab, Pise, SRS, Taverna and several commercial workflow packages.

EMBOSS 6.1 will be released on 15th July 2009 (we always release on 15th July). New features include:

- C programming library development
- New data formats
- Use of ontologies
- Performance profiling
- DAS protocol support

The EMBOSS project has received significant new funding for an ambitious programme of extensions and new applications covering:

- Comprehensive coverage of public data (sequence data, linked data resources)
- Access methods for major public data repositories (Ensembl, UCSC, CHADO, BioMart, SOAP, REST)
- Persistent metadata (coordinates, taxonomy, gene ontology, keywords, citations)
- Closer integration with interfaces (DAS, Galaxy, SoapLab, wEMBOSS, Artemis)
- Genome-scale analysis and annotation
- Next-Generation Sequencing data processing
- Common methods for Open-Bio projects
- Query language
- 100+ new applications

Project home page: http://emboss.sourceforge.net/
Release download site: ftp://emboss.open-bio.org/pub/EMBOSS/
Anonymous CVS server: http://www.open-bio.org/wiki/SourceCode