# Introduction

EMBL-EBI provides programmatic access to various data resources and analysis tools via Web Services technologies 1) 2). Web Services is an integration and inter-operation technology. To ensure client and server software from various sources will work well together, the technology is built on open standards:

- **Representational state transfer** (REST): a software architecture style.
- **Simple Object Access Protocol** (SOAP): a messaging protocol for transporting information.
- **Web Services Description Language** (WSDL): a method for describing Web Services and their capabilities.

For the transport layer Web Services utilise common network protocols, typically the **Hypertext Transfer Protocol** (HTTP) used to provide access to web sites.

## Usage

We kindly ask all users of EMBL-EBI Web Services to submit tool jobs in batches of no more than 30 at a time and not to submit more until the results and processing is complete. Please ensure that a valid email address is provided. Excessive usage of a particular resource will be dealt with in accordance with EMBL-EBI's Terms of Use. Please contact us if you need further information.

### Programs organised by function

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Retrieval</td>
<td>A list of EMBL-EBI Web Services for data retrieval.</td>
</tr>
<tr>
<td>Protein Functional Analysis</td>
<td>Tools to perform protein functional analysis.</td>
</tr>
<tr>
<td>Sequence Similarity Search</td>
<td>Identify potentially homologous sequences based on sequence similarity.</td>
</tr>
<tr>
<td>Multiple Sequence Alignment</td>
<td>Alignment of a set of three or more, protein or nucleotide sequences.</td>
</tr>
<tr>
<td>Pairwise Sequence Alignment</td>
<td>Identify regions of similarity that may indicate functional, structural and/or evolutionary relationships between two biological sequences (protein or nucleic acid).</td>
</tr>
<tr>
<td>Phylogeny</td>
<td>Access to phylogenetic tree generation methods.</td>
</tr>
<tr>
<td>RNA</td>
<td>RNA Analysis</td>
</tr>
</tbody>
</table>

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1) [EMBL-EBI's Terms of Use](#)
2) [EMBL-EBI's Terms of Use](#)

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Korean / EMBL-EBI ( ) 30 . . . . EMBL-EBI . . .
## Citation
To cite the EMBL-EBI Job Dispatcher Web Services, please refer to the following publication:


DOI: 10.1093/nar/gkac240

EuropePMC: 35412617

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**References**