

## Bioinformatics to Support Drug Development and Clinical Studies

Source BioScience offers a range of bioinformatics analysis options for target ID through validation and clinical trials to interpret genomic data and drug signalling pathways.

**Using our expertise and bioinformatics platforms our clients can save both time and money. Our Bioinformatics scientists provide a complete analysis package which can be customised to your specific needs providing you with high quality data.**

**We can decrease your drug development time**

**Basic or advanced bioinformatics is offered to provide bioinformatics support for Sequencing, Microarray analysis, Gene Expression and Genotyping.**

## Source BioScience can provide Next Generation Sequencing Data Analysis

- **Sequence reads; sequence data visualisation; sequence alignment**
- **Base quality scores**
- **Genome alignment; genome wide discovery of regions involved in protein binding**
- **Interpretation of QC data; metrics and GA sequencing run statistics**

### ChIP-Seq Data Analysis

- Annotation of ChIP-Seq identified regions with gene functional information using Ensembl

### Digital Gene Expression

- mRNA sequence tag profiling enables digital gene expression analysis at a whole genome level
- Analysis of genes in relation to biological function

### Resequencing & Polymorphism Detection Analysis

- Discovery of novel mutations using a high throughput search of sequence polymorphism results
- Annotation of regions and polymorphisms with regard to known function & genome functional information

### Small RNA Expression Data Analysis

- Annotation of small RNA by aligning sequences to microRNA databases
- Determination of the likelihood of a detected RNA to be a mature microRNA using latest approaches

***We can also provide De Novo Sequence Assembly providing personalised support for you and your project.***

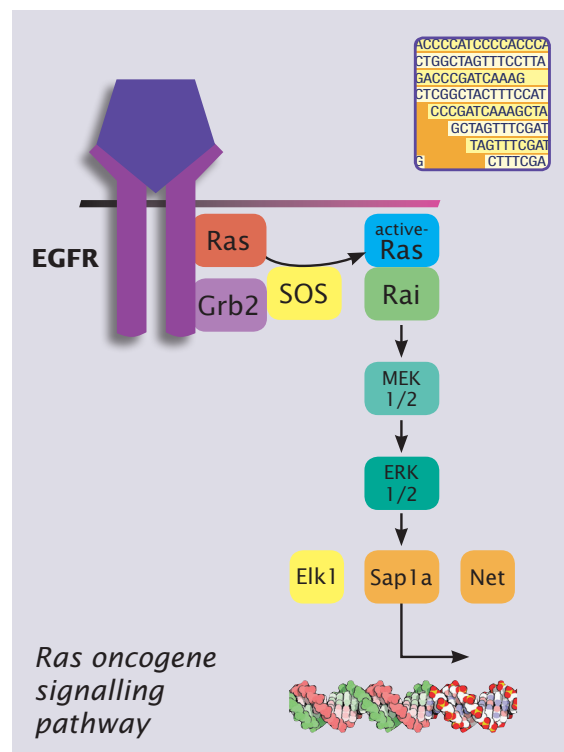
# Biological Pathway Analysis

We use Pathway Studio from Ariadne, the leading software for visualisation and analysis of biological pathways.

Pathway Studio enables in-depth analysis of any list of interrelated biological data (eg: expression and SNP microarrays, proteomics and metabolomics data), extremely useful in drug development studies for new and existing targets eg EGFR.

## Our pathways analysis service allows

- Interpretation of gene expression/SNP microarray data
- Focus on specific pathways targeted by drugs eg EGFR;PI3K/mTor
- Finding network relationships among genes, proteins, cell process and disease
- Use of text mining algorithms to ID network relationships within PubMed for your data
- Build dynamic pathway models from your data



## Your Bioinformatics Team

Your main contact in the Bioinformatics team will be available for discussion at every stage of your project. We will be able to ensure that your requirements are interpreted successfully and you meet your project deadlines.

Let our bioinformatics experience benefit your project. For more information please contact [bioinformatics@sourcebioscience.com](mailto:bioinformatics@sourcebioscience.com)

If you require any further information please do not hesitate to contact us:

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