

Programming for Biomedical Informatics

Lecture 8 “Mining & Analysing the Biomedical Literature”

GitHub Website- <https://github.com/biomedical-informatics/pbi>

Course Website- <https://groups.inf.ed.ac.uk/teaching/pbi/>

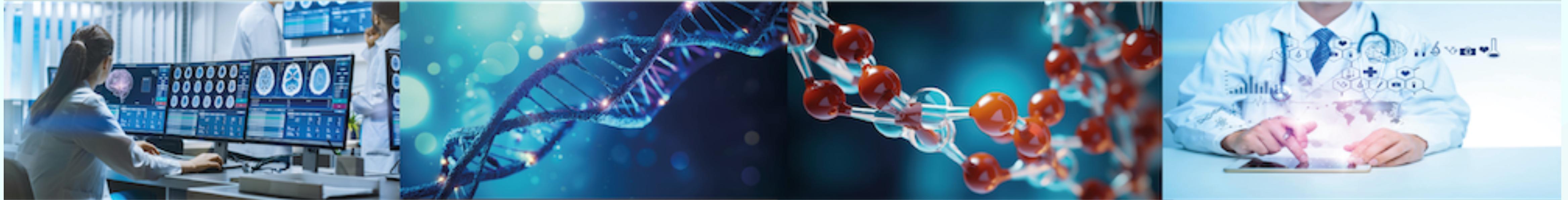
Ian Simpson

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Coding

eLink "link-names"

Entrez Link Descriptions:												
PubMed	Protein	Nucleotide	Structure	Genome	Books	CancerChromosomes	Conserved Domains	3D Domains	Gene			
Genome Project	GENSAT	GEO Profiles	GEO DataSets	HomoloGene	MeSH	NCBI Site Search	OMIA	OMIM	UniGene			
PMC	PopSet	Probe	PubChem BioAssay	PubChem Compound	PubChem Substance	SNP	Taxonomy	UniSTS	UniSTS			
Link name (used in Entrez URLs)	Label in "Links" menu		Label in "Display" menu									
assembly_assembly_diploid	Linked assembly from diploid		Linked assembly from diploid		Genome assembly that is the other (ps)							
assembly_biproject	BioProject		BioProject		BioProject		BioProject					
assembly_biproject	BioProject		BioProject		BioProject							
assembly_biproject	BioProject											
assembly_biosample	BioSample		pubmed_assembly		Assembly		Assembly		Assembly			
assembly_biosample	BioSample		pubmed_assembly		Assembly		Assembly		Assembly			
assembly_biosample	BioSample		pubmed_assembly		Assembly		Assembly		Assembly			
assembly_genome	Genome		pubmed_biproject		Related Project		Project Links		Related Projects			
assembly_genome	Genome		pubmed_biproject		Related Project		Project Links		Related Projects			
assembly_genome	Genome		pubmed_biproject		Related Project		Project Links		Related Projects			
assembly_nucore	Nucleotide		pubmed_biosample		BioSample		BioSample Links		BioSample links			
assembly_nucore_insd	Nucleotide INSDC		pubmed_biosample		BioSample		BioSample Links		BioSample links			
assembly_nucore_refseq	Nucleotide RefSeq		pubmed_biosample		BioSample		BioSample Links		BioSample links			
assembly_nucore_wgsmaster	WGS Master		pubmed_biosample		BioSample		BioSystem Links		Pathways and biological systems (BioSystems) that cite the current articles. Citations are from the BioSystems source data			
assembly_nucore_wgsmaster	WGS contigs		pubmed_biosystems		BioSystems		BioSystem Links		BioSystems			
assembly_nucore_insd	Nucleotide INSDC		pubmed_biosystems		BioSystems		BioSystem Links		BioSystems			
assembly_nucore_refseq	Nucleotide RefSeq		pubmed_biosystems		BioSystems		BioSystem Links		BioSystems			
assembly_nucore_wgsmaster	WGS Master		pubmed_books_refs		Cited in Books		Cited in Books		NCBI Bookshelf books that cite the current articles.			
assembly_nucore_insd	Nucleotide INSDC		pubmed_books_refs		Cited in Books		Cited in Books		PubMed links associated with Books			
assembly_nucore_refseq	Nucleotide RefSeq		pubmed_books_refs		Cited in Books		Cited in Books		PubMed links associated with Books			
assembly_nucore_wgsmaster	WGS Master		pubmed_cancerchromosomes		Cancer Chromosomes		CancerChrom Links		Cancer chromosome records that cite the current articles.			
assembly_pubmed	PubMed		pubmed_cdd		Conserved Domains		Conserved Domain Links		Conserved Domain Database (CDD) records that cite the current articles. Citations are obtained from the CDD source data			
assembly_pubmed	PubMed		pubmed_cdd		Conserved Domains		Conserved Domain Links		Link to related CDD entry			
assembly_sra	Sra		pubmed_cdd		Conserved Domains		Conserved Domain Links		Link to related CDD entry			
assembly_sra	Sra		pubmed_clinvar		ClinVar		ClinVar		Clinical variations associated with publication			
assembly_taxonomy	Taxonomy		pubmed_clinvar_calculated		ClinVar (calculated)		ClinVar (calculated)		Clinical variations calculated to be associated with publication			
assembly_taxonomy	Taxonomy		pubmed_clinvar		ClinVar		ClinVar		Clinical variations associated with publication			
assembly_taxonomy	Taxonomy		pubmed_clinvar_calculated		ClinVar (calculated)		ClinVar (calculated)		Clinical variations calculated to be associated with publication			
biocollections_biosample	BioSample		pubmed_clinvar		ClinVar		ClinVar		Clinical variations associated with publication			
biocollections_nucore	Nucleotide		pubmed_clinvar_calculated		ClinVar (calculated)		ClinVar (calculated)		Clinical variations calculated to be associated with publication			
biocollections_nucore	Nucleotide		pubmed_dbvar		dbVar		dbVar		Link from PubMed to dbVar			
biocollections_nucore	GSS		pubmed_dbvar		dbVar		dbVar		Link from PubMed to dbVar			
biocollections_nucore	GSS		pubmed_dbvar		dbVar		dbVar		Link from PubMed to dbVar			
biocollections_popset	PopSet		pubmed_domains		3D Domains		3D Domain Links		Structural domains in the NCBI Structure database that are parts of the 3D structures reported in the current articles.			
biocollections_protein	Protein		pubmed_epigenomics		Epigenomics		Epigenomics Links		Related Epigenomics records			
biocollections_protein	Protein		pubmed_epigenomics_experiment		Epigenomics (experiments)		Epigenomics (experiments)		Links to experimental data from epigenomic studies			
biocollections_bioconcepts_child	children		pubmed_epigenomics_sample		Epigenomics (samples)		Epigenomics (samples)		Links to descriptions of biological samples used in epigenomic studies			
biocollections_bioconcepts_parent	parent		pubmed_epigenomics_study		Epigenomics (study)		Epigenomics (study)		Links to overviews of epigenomic studies			
biocollections_bioconcepts_sibling	sibling		pubmed_epigenomics_experiment		Epigenomics (experiments)		Epigenomics (experiments)		Links to experimental data from epigenomic studies			
biocollections_bioconcepts_child	children		pubmed_epigenomics_sample		Epigenomics (samples)							



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No lectures or assignments next week - October Break

Next Lecture - Tuesday 22nd October
“Measuring Gene Expression”

Ask Questions on the Piazza Discussion Board

Background