## CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS

35/00

35/10

35/20

ICT specially adapted for <u>in silico</u> combinatorial libraries of nucleic acids, proteins or peptides

. Design of libraries

. Screening of libraries

(NOTES omitted)

## G16 INFORMATION AND COMMUNICATION TECHNOLOGY [ICT] SPECIALLY ADAPTED FOR SPECIFIC APPLICATION FIELDS

(NOTES omitted)

## G16B BIOINFORMATICS, i.e. INFORMATION AND COMMUNICATION TECHNOLOGY [ICT] SPECIALLY ADAPTED FOR GENETIC OR PROTEIN-RELATED DATA PROCESSING IN COMPUTATIONAL MOLECULAR BIOLOGY

5/00	ICT specially adapted for modelling or simulations in systems biology, e.g. gene-regulatory networks, protein interaction networks or metabolic networks	40/00	ICT specially adapted for biostatistics; ICT specially adapted for bioinformatics-related machine learning or data mining, e.g. knowledge discovery or pattern finding
5/10	Boolean models	40/10	Signal processing, e.g. from mass spectrometry
5/20	Probabilistic models		[MS] or from PCR
5/30	Dynamic-time models	40/20	Supervised data analysis
10/00	ICT specially adapted for evolutionary	40/30	. Unsupervised data analysis
	bioinformatics, e.g. phylogenetic tree construction or analysis	45/00	ICT specially adapted for bioinformatics-related data visualisation, e.g. displaying of maps or networks
15/00	ICT specially adapted for analysing two-		
	dimensional or three-dimensional molecular structures, e.g. structural or functional relations or	50/00	ICT programming tools or database systems specially adapted for bioinformatics
	structure alignment	50/10	Ontologies; Annotations
15/10	Nucleic acid folding	50/20	Heterogeneous data integration
15/20	Protein or domain folding	50/30	<ul> <li>Data warehousing; Computing architectures</li> </ul>
15/30	<ul> <li>Drug targeting using structural data; Docking or</li> </ul>	50/40	Encryption of genetic data
	binding prediction	50/50	Compression of genetic data
20/00	ICT specially adapted for functional genomics or proteomics, e.g. genotype-phenotype associations	99/00	Subject matter not provided for in other groups of this subclass
20/10	Ploidy or copy number detection		
20/20	<ul> <li>Allele or variant detection, e.g. single nucleotide polymorphism [SNP] detection</li> </ul>		
20/30	Detection of binding sites or motifs		
20/40	Population genetics; Linkage disequilibrium		
20/50	• Mutagenesis		
25/00	ICT specially adapted for hybridisation; ICT specially adapted for gene or protein expression		
25/10	<ul> <li>Gene or protein expression profiling; Expression- ratio estimation or normalisation</li> </ul>		
25/20	<ul> <li>Polymerase chain reaction [PCR]; Primer or probe design; Probe optimisation</li> </ul>		
25/30	Microarray design		
30/00	ICT specially adapted for sequence analysis involving nucleotides or amino acids		
30/10	Sequence alignment; Homology search		
50/10			
30/20	Sequence assembly		

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