CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(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 ada specially adapted machine learning discovery or patte
5/10	. Boolean models	40/10	 Signal processin
5/20	Probabilistic models		[MS] or from PO
5/30	• Dynamic-time models	40/20	 Supervised data
10/00	ICT appointly adopted for evolutionary	40/30	• Unsupervised da
10/00	ICT specially adapted for evolutionary bioinformatics, e.g. phylogenetic tree construction	45/00	ICT specially ada
	or analysis	45/00	data visualisation networks
15/00	ICT specially adapted for analysing two-	=0.000	
	dimensional or three-dimensional molecular	50/00	ICT programmin
	structures, e.g. structural or functional relations or structure alignment	50/10	 specially adapted Ontologies; And
15/10	Nucleic acid folding	50/20	 Heterogeneous of
15/20	 Protein or domain folding 	50/20	 Data warehousi
15/30	• Drug targeting using structural data; Docking or	50/40	. Encryption of g
	binding prediction	50/50	Compression of
20/00	ICT specially adapted for functional genomics or proteomics, e.g. genotype-phenotype associations	99/00	Subject matter no this subclass
20/10	• Ploidy or copy number detection		
20/20	 Allele or variant detection, e.g. single nucleotide polymorphism [SNP] detection 		
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	 Gene or protein expression profiling; Expression- ratio estimation or normalisation 		
25/20	 Polymerase chain reaction [PCR]; Primer or probe design; Probe optimisation 		
25/30	Microarray design		
30/00	ICT specially adapted for sequence analysis involving nucleotides or amino acids		
30/10	. Sequence alignment; Homology search		
30/20	• Sequence assembly		
35/00	ICT specially adapted for <u>in silico</u> combinatorial libraries of nucleic acids, proteins or peptides		
35/10	• Design of libraries		
35/20	Screening of libraries		

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	
40/10	• Signal processing, e.g. from mass spectrometry [MS] or from PCR	
40/20	Supervised data analysis	
40/30	• Unsupervised data analysis	
45/00	ICT specially adapted for bioinformatics-related data visualisation, e.g. displaying of maps or networks	
50/00		
50/00 50/10	networks ICT programming tools or database systems	
	networks ICT programming tools or database systems specially adapted for bioinformatics	
50/10	networks ICT programming tools or database systems specially adapted for bioinformatics . Ontologies; Annotations	
50/10 50/20	networks ICT programming tools or database systems specially adapted for bioinformatics . Ontologies; Annotations . Heterogeneous data integration	

0/00 Subject matter not provided for in other groups of this subclass