

# 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

### WARNING

Groups [G16B 5/00](#), [G16B 5/10](#), [G16B 5/20](#), [G16B 5/30](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 5/00](#) is also impacted by reclassification into groups [G16B 5/10](#), [G16B 5/20](#), and [G16B 5/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/10 . Boolean models
- 5/20 . Probabilistic models
- 5/30 . Dynamic-time models

**10/00** ICT specially adapted for evolutionary bioinformatics, e.g. phylogenetic tree construction or analysis

### WARNING

Group [G16B 10/00](#) is incomplete pending reclassification of documents from group [G16B 99/00](#).

Groups [G16B 99/00](#) and [G16B 10/00](#) should be considered in order to perform a complete search.

**15/00** ICT specially adapted for analysing two-dimensional or three-dimensional molecular structures, e.g. structural or functional relations or structure alignment

### WARNING

Groups [G16B 15/00](#), [G16B 15/10](#), [G16B 15/20](#), [G16B 15/30](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 15/00](#) is also impacted by reclassification into groups [G16B 15/10](#), [G16B 15/20](#), and [G16B 15/30](#).

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- 15/10 . Nucleic acid folding
- 15/20 . Protein or domain folding

- 15/30 . Drug targeting using structural data; Docking or binding prediction

**20/00** ICT specially adapted for functional genomics or proteomics, e.g. genotype-phenotype associations

### WARNING

Groups [G16B 20/00](#), [G16B 20/10](#), [G16B 20/20](#), [G16B 20/30](#), [G16B 20/40](#), [G16B 20/50](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 20/00](#) is also impacted by reclassification into groups [G16B 20/10](#), [G16B 20/20](#), [G16B 20/30](#), [G16B 20/40](#), and [G16B 20/50](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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

### WARNING

Groups [G16B 25/00](#), [G16B 25/10](#), [G16B 25/20](#), [G16B 25/30](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 25/00](#) is also impacted by reclassification into groups [G16B 25/10](#), [G16B 25/20](#), and [G16B 25/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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****WARNING**

Groups [G16B 30/00](#), [G16B 30/10](#), [G16B 30/20](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 30/00](#) is also impacted by reclassification into groups [G16B 30/10](#), and [G16B 30/20](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 30/10 . Sequence alignment; Homology search
- 30/20 . Sequence assembly

**35/00 ICT specially adapted for *in silico* combinatorial libraries of nucleic acids, proteins or peptides****WARNING**

Groups [G16B 35/00](#), [G16B 35/10](#), [G16B 35/20](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 35/00](#) is also impacted by reclassification into groups [G16B 35/10](#), and [G16B 35/20](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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****WARNING**

Groups [G16B 40/00](#), [G16B 40/10](#), [G16B 40/20](#), [G16B 40/30](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 40/00](#) is also impacted by reclassification into groups [G16B 40/10](#), [G16B 40/20](#), and [G16B 40/30](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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 ICT programming tools or database systems specially adapted for bioinformatics****WARNING**

Groups [G16B 50/00](#), [G16B 50/10](#), [G16B 50/20](#), [G16B 50/30](#), [G16B 50/40](#), [G16B 50/50](#) are incomplete pending reclassification of documents from group [G16B 99/00](#).

Group [G16B 50/00](#) is also impacted by reclassification into groups [G16B 50/10](#), [G16B 50/20](#), [G16B 50/30](#), [G16B 50/40](#) and [G16B 50/50](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 50/10 . Ontologies; Annotations
- 50/20 . Heterogeneous data integration
- 50/30 . Data warehousing; Computing architectures
- 50/40 . Encryption of genetic data
- 50/50 . Compression of genetic data

**99/00 Subject matter not provided for in other groups of this subclass****WARNING**

Group [G16B 99/00](#) is impacted by reclassification into groups [G16B 5/00](#), [G16B 5/10](#), [G16B 5/20](#), [G16B 5/30](#), [G16B 10/00](#), [G16B 15/00](#), [G16B 15/10](#), [G16B 15/20](#), [G16B 15/30](#), [G16B 20/00](#), [G16B 20/10](#), [G16B 20/20](#), [G16B 20/30](#), [G16B 20/40](#), [G16B 20/50](#), [G16B 25/00](#), [G16B 25/10](#), [G16B 25/20](#), [G16B 25/30](#), [G16B 30/00](#), [G16B 30/10](#), [G16B 30/20](#), [G16B 35/00](#), [G16B 35/10](#), [G16B 35/20](#), [G16B 40/00](#), [G16B 40/10](#), [G16B 40/20](#), [G16B 40/30](#), [G16B 45/00](#), [G16B 50/00](#), [G16B 50/10](#), [G16B 50/20](#), [G16B 50/30](#), [G16B 50/40](#), and [G16B 50/50](#).

All groups listed in this Warning should be considered in order to perform a complete search.