

UNIVERSITY OF LEEDS CLASSIFICATION OF BOOKS  
**GENERAL BIOLOGY**

**GENERAL BIOLOGY**

**[A General]**

- A-0.01 Periodicals *Stack only: separate sequences for Botany, Zoology, Biophysics, Agriculture*
- A-0.02 Monograph series eg CSIRO, University **Contributions, Publications**.  
[This may be used only for numbered series; where possible individual issues should be classed according to subject content eg Nature Conservancy Monographs]
- A-0.03 Symposia **series** eg Cold Spring Harbour; Society for Experimental Biology  
[Not to be used for specialised series eg Society for General Microbiology; Not to be used for single conferences]
- A-0.04 General bibliographies, guides to the literature, documentation
- A-0.05 Laboratory techniques and methods
- A-0.06 Teaching methods; reviews of syllabus; training of biologists for particular careers
- A-0.08 Collections of essays, Festschriften etc.  
*If possible, class according to theme subject*
- A-0.09 Tables; Nomograms
- A-0.19 Glossaries. Alphabetically arranged reference works  
*Class multilingual, translating dictionaries in the appropriate language section*
- A-0.2 Legislation & standards
- A-1 General textbooks. Multi-volume treatises  
[Not to be used indiscriminately]
- A-1.5 Mathematics and statistical methods for biology / medicine / life sciences
- A-1.7 Computer methods for biology etc; data processing
- A-2 Expeditions and surveys *Stack only; see also Geography G; Geology Z*
- A-3 Publications of particularly important bodies eg Ray Society [but *see also* Zoology A-3] *Not to be used for any new series*
- A-9 Biography [*See also* History of Science] and classical works of individual biologists [Except for Darwin, History of Science is to be preferred]

**[B Biophysics]**

- B-0.02 Society publications
- B-0.03 Symposia etc
- B-0.04 Bibliography
- B-0.06 Teaching, education

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- B-0.061 History *See: History of Science*  
B-0.08 Collections of essays, Festschriften etc.  
B-0.09 Tables  
B-1 General texts  
B-2 Mathematical biophysics; Biophysics calculations; mathematical models  
*see also General Biology A-1.5*  
B-3 Biophysical crystallography - general; liquid crystals *see also Physics D-1, Chemistry E-23, Chemistry E-34.1*  
B-4 Bioinformatics

**[D Practical biophysics: techniques & apparatus**

*See also General Biology E-1*

- D-0 General *Radiation protection at Physics E-2.5*  
D-2 Techniques using light (visible, ultra-violet & infra-red)  
*Microscopy: General Science A-4.2*  
D-3 Techniques using X-rays  
D-3.2 X-ray microscopy  
*Optics of microscopes: General Science A-4.3, Physics H-4*  
D-3.4 X-ray diffraction *see also Physics H-5, Physics D-1*  
D-4 Techniques using electron beams  
D-4.3 Electron microscopy *see General Science A-4.3*  
D-5 Radioisotope techniques; Autoradiography *see also Chemistry K-2, Applied Biology C-39, Physics E-2.5*  
D-6 Detection of size and shape of macromolecules: proteins, nucleic acids, polysaccharin  
D-6.3 The ultracentrifuge in biological research  
D-6.5 Light scattering  
D-6.7 Osmosis  
D-7 Electron spin resonance & nuclear magnetic resonance *see also Physics E-2.2*  
D-8 Atomic absorption spectroscopy  
D-9 Miscellaneous biophysical techniques & apparatus

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**[E Experimental biology]**

- E-1 Experimental methods, techniques eg tissue culture, chromatography not listed in D above *see also Chemistry B for analysis*
- E-2 Histochemistry *[see also Zoology E; General Biology U; Botany E];*  
Ageing; Biological clocks & rhythms, Photobiology analysis
- E-3 Endocrinology, ductless glands. Hormones  
*Plant growth substances eg auxins, gibberellins see Botany E-36*  
*see also Zoology E-3, Chemistry S-38.7, General Biology U-5.2, Endocrinology, Steroid chemistry, Hormone biochemistry*

**[F Microbiology]**

- F-0.03 Symposia of the Society for General Microbiology
- F-1 General texts
- F-2 Yeasts, fungi
- F-3 Bacteria
- F-4 Mycoplasmas
- F-5 Viruses. Bacteriophage. Interferon
- F-5.93 Retroviruses; HIV, AIDS
- F-7 Prions

**[G Cytology & genetics]**

- G-0.02 Protoplasmatalogia
- G-0.03 - 0.99 Form sub divisions eg Bibliography
- G-1 Cytology - General
- G-2 Cytology - Structure *Cytogenetics: see G-6*
- G-2.2 External features eg Cilia, Flagella
- G-2.4 *[Membranes See Biophysics M, General Biology M]*
- G-2.6 Internal features eg Mitochondria
- G-3 Cytology - Physiology
- G-4 Cell-Gene-Organism interactions eg Differentiation
- G-4.5 Developmental genetics *see also Zoology F*
- G-5 Genetics - General; sub-divide by type of organism
- G-5.2 Micro-organisms
- G-5.22 Virus *Interferon see F-5*

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- G-5.224 Phage
- G-5.23 Bacteria
- G-5.24 Fungi
- G-5.26 Protozoa
- G-5.28 Algae
- G-5.4 Multi-cellular organisms
- G-5.42 Plants
- G-5.44 Animals
- G-5.49 Man and medical genetics
- G-6 Cytogenetics - structure of nucleus and chromosomes - including Mutagenesis and Mutagens, Hybrid cells & cell fusion. Molecular genetics
- G-7 Extra-chromosomal inheritance, Non-Mendelian heredity
- G-8 Quantitative genetics
- G-8.2 Plant breeding
- G-8.4 Animal breeding
- G-8.6 Systematics and taxonomy  
*See also Botany G, General Biology H-5, Zoology H-5*
- G-8.65 Molecular and chemo-taxonomy
- G-9 Population genetics *See also J-1 for Population ecology*

**[H Evolution]**

- H-0 General: Molecular evolution ie evolution of specific molecules eg differences between human and bovine insulin; Chemical origins of life
- H-1 Heredity
- H-2 Variation
- H-3 Biogeography; distribution of species; islands
- H-4 Fossils
- H-5 Systematics & taxonomy. Speciation

**[J Ecology & conservation]**

- See also Geography K-25*
- J-0.04 Bibliography
- J-0.19 Glossaries
- J-1 Struggle for survival. Evolution of species. Balance of nature. Population dynamics  
*[see also G-9]*

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- J-1.5 Methodology. Models & simulation
- J-1.7 Mapping. Distribution studies. Population census
- J-2 Environmental factors
  - J-2.1 Several
  - J-2.2 Climate *see also Geography D for Meteorology*
  - J-2.3 Humidity
  - J-2.4 Temperature
  - J-2.5 Light
  - [J-2.6 Environmental pollution *see also Engineering D*  
Pesticides, fallout, radio ecology] *No longer used. See Geography N-9*
  - J-2.7 Industrial reclamation
  - J-2.8 Conservation programmes *see also Geography*
  - J-2.9 Fire
- J-3 Biological productivity. Energetics of trophic systems
- J-4 Aquatic environments
  - Includes Eutrophication. For other aspects of Eutrophication see:  
Applied Biology C-43 (agricultural causes); Engineering D-5 (technology  
of pollution control and remediation)*
  - J-4.1 Marine. Oceanography
  - J-4.2 Plankton. Surface waters
  - J-4.3 Deep sea
  - J-4.4 Sea bed. Abyssal ooze
  - J-4.5 Littoral. Coasts and beaches. Sea Loughs
  - J-4.6 Estuaries. Brackish waters. Brine pools
  - J-4.7 Fresh water. Limnology
  - J-4.8 Rivers and streams
  - J-4.9 Lakes including man-made lakes
- [J-5/6 Terrestrial environment]
  - J-5.3 Soil chemistry, Soil biology (edaphic species)  
*Applied Biology C-43 for soil surveys etc.*
  - J-5.5 Microhabitats
  - J-5.7 Symbiosis
- J-6 Collective treatment of disparate environments; individual UK nature reserves
  - J-6.11 Polar. Arctic & Antarctic

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|        |   |
|--------|---|
| J-6.12 | Temperate                                   |
| J-6.13 | Tropical                                    |
| J-6.14 | Tundra                                      |
| J-6.15 | Mountains. Scree                            |
| J-6.16 | Grasslands. Steppe, Prairie, Savanna, Pampa |
| J-6.18 | Forest. Woodland. Bush                      |
| J-6.19 | Heath                                       |
| J-6.2  | Bogs. Swamps. Broads. Fens. Wetlands        |
| J-6.21 | Salt marshes. Halophytes                    |
| J-6.22 | Arid zones. Deserts; dunes. Xerophytes      |
| J-6.23 | Islands                                     |
| J-6.24 | Caves. Sub-terranean waters. Speliobiology  |
| J-6.25 | Urban ecology                               |
| J-6.26 | Waste ground. Industrial reclamation        |
| J-6.27 | Cultivated ground. Agroecology              |
| J-6.28 | Quarries                                    |
| J-6.29 | Atmosphere. "Aerial plankton"               |

**[K Natural history: regional]**

|      |                                 |
|------|---------------------------------|
| K-1  | British Isles                   |
| K-2  | Europe                          |
| K-3  | Scandinavia, Baltic, Balkans    |
| K-4  | Asia                            |
| K-5  | South-East Asia                 |
| K-6  | Africa                          |
| K-7  | North America (USA, Canada)     |
| K-8  | South (Latin) America           |
| K-9  | Australasia                     |
| K-10 | Polar regions <i>see J-6.11</i> |

**[L Ultrastructure of tissues & cells: cytology]**

*See also General Biology C-2, Zoology D, Botany D*

|     |   |
|-----|---|
| L-2 | Animal and plant coverings (eg skin, epidermis, cuticle, external skeleton) |
|-----|---|

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- L-3 Animal tissues
  - L-3.1 Feathers & mammalian hair *For non-mammalian "hairs" see L-2*
  - L-3.3 Muscle *see also Zoology E-2*
  - L-3.4 Nerve & sensory cells *see also Zoology E-2*
  - L-2.5 Bone & teeth of vertebrates *see also Zoology E-2*
  - L-3.7 Connective tissue *see also Zoology E-2*
  - L-3.8 Blood *see also Zoology E-2*
- L-4 Plant ultrastructure
- L-5 Walls of plant cells including plant fibres, & fungal cell walls *see also Botany D-4*
- L-6 Ultrastructure of lower plants - Algae, Bryophytes & Fungi
- L-7 Ultrastructure of higher plants *For epidermis & cuticle see L-2*
  - L-7.4 Vascular tissues *see also Botany C-5*
  - L-7.6 Non-vascular tissues
- L-8 Protoplasm, plant & animal
- L-8.5 Protoplasmic organelles, plant & animal *For chromosome structure see F-6 & G*

**M-0 Membranes: structure & function**

**R-0 Rheology in organisms**

**S-0 Structure of macromolecules**

**[T Thermodynamics & energetics of living matter]**

*[Chemistry L; not photosynthesis]*

- T-0 General, oxidation-reduction potential
- T-3 Energy transformations: high energy compounds
- T-5 Irreversible thermodynamics & equilibrium states
- T-7 Bond energies

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**[U Biochemistry]**

- U-1 Textbooks & treatises including Physical
- U-2 Reaction mechanisms. Enzymology
- U-3 Physiology & metabolism. *See also Zoology E-2; sub-divide like Chemistry S-38*
- U-3.1 Peptides etc.
- U-3.2 Pigments
  - U-3.21 Haemoglobin
  - U-3.22 Carotenoids
  - U-3.24 Pteridines
  - U-3.25 Tannins, e.g. melanin
- U-3.3 Alkaloids
- U-3.4 Nucleic acids
- U-3.5 Carbohydrates
- U-3.6 Fats, lipids
- U-3.7 Steroids
- U-3.8 Essences (aromatic oils)
- U-3.9 Others
- U-4 Inorganic components (eg metals, minerals)
- U-5 Physiologically active compounds
  - U-5.1 Vitamins, co-enzymes
  - U-5.3 Antibiotics - *see also Chemistry*
  - U-5.4 Immunology
  - U-5.5 Poisons *See General Science A-4 for antidotes*
    - U-5.51 War gases
    - U-5.52 Insecticides *See also Applied Biology C-46*
    - U-5.53 Herbicides *See also Applied Biology C-46*
    - U-5.54 Fungicides *See also Applied Biology C-46*
  - U-5.7 Carcinogens

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|           |  |
|-----------|--|
| <b>[Y</b> | <b>Biotechnology]</b>                          |
| Y-0       | General texts                                  |
| Y-0.04    | Bibliography                                   |
| Y-0.19    | Encyclopaedic works                            |
| Y-2       | Sensors  |
| Y-4       | Monoclonal antibodies                          |
| Y-5       | Gene therapy                                   |
| Y-6       | Drugs, antibiotics & pharmaceuticals           |
| Y-8       | Fermentation, reactors and process engineering |
| Y-9       | Biomass for fuel & energy                      |
| Y-15      | Molecular motors (nanobiology)                 |
| Y-20      | Intellectual property rights                   |
| Y-25      | Social and political concerns; ethics          |

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