

University of Leeds Classification of Books

General Biology

[A General]

- A-0.01 Periodicals Stack only: separate sequences for Botany, Zoology, Biophysics, Agriculture
- A-0.02 Monograph series e.g. CSIRO, University Contributions, Publications.
[This may be used only for numbered series; where possible individual issues should be classed according to subject content e.g. Nature Conservancy Monographs]
- A-0.03 Symposia series e.g. Cold Spring Harbour; Society for Experimental Biology
[Not to be used for specialised series e.g. 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 e.g. Ray Society [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
[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
- [B-0.061 History] See *History of Science G-2*
- 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 : see Physics E-4.2*

D-2 Techniques using light (visible, ultra-violet & infra-red)

Microscopy: see General Science A-4.2

D-3 Techniques using X-rays

D-3.2 X-ray microscopy

Optics of microscopes: see General Science A-4.3, Physics H-4

D-3.4 X-ray diffraction *See also Physics D-4.1*

D-4 Techniques using electron beams

Electron microscopy : see General Science A-4.3

D-5 Radioisotope techniques; Autoradiography

See also Chemistry K-2, Applied Biology C-39, Physics E-4

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

[E Experimental biology]

E-1 Experimental methods, techniques e.g. tissue culture, chromatography not listed in D above
Analysis : see also Chemistry B

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 e.g. auxins, gibberellins see Botany E-36

Endocrinology, Steroid chemistry, Hormone biochemistry see also Zoology E-3, Chemistry S-38.7, General Biology U-5.2

[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 e.g. Bibliography *

G-1 Cytology – General

G-2 Cytology – Structure *Cytogenetics: see G-6*

G-2.2 External features e.g. Cilia, Flagella

[G-2.4 Membranes] *see M*

G-2.6 Internal features e.g. Mitochondria

- G-3 Cytology - Physiology
- G-4 Cell-Gene-Organism interactions e.g. Differentiation
- G-4.5 Developmental genetics *See also Zoology F*

- G-5 Genetics - General
- G-5.2 Micro-organisms
- G-5.22 Virus *Interferon : see F-5*
- 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]

See also Zoology H, History of Science G-4

Intelligent design / Creationism : see History of Science P-10

- H-0 General: Molecular evolution i.e. evolution of specific molecules e.g. 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 *Fossils in amber : see Zoology P-6*
- H-5 Systematics & taxonomy. Speciation

[J Ecology & conservation]

- J-0.04 Bibliography
- J-0.19 Glossaries
- J-1 General, including: Struggle for survival. Balance of nature. Population dynamics
See also G-9 (Population genetics)
- 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
- 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
- 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. Subterranean 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] *see J-6.11*

[L Ultrastructure of tissues & cells: cytology]

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

- L-2 Animal and plant coverings (e.g. skin, epidermis, cuticle, external skeleton)
- 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 *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

[U Biochemistry]

- U-1 Textbooks & treatises including Physical
- U-2 Reaction mechanisms. Enzymology
- U-3 Physiology & metabolism. *See also Zoology E-2; sub-divided like Chemistry S-38*
- U-3.1 Peptides etc. *See also Chemistry S-38.1*
- U-3.2 Pigments
 - U-3.21 Haemoglobin
 - U-3.22 Carotenoids *See also Chemistry S-38.22*
 - U-3.24 Pteridines *See also Chemistry S-38.24*
 - U-3.25 Tannins, e.g. melanin *See also Chemistry S-38.25*
- U-3.3 Alkaloids *See also Chemistry S-38.3*
- U-3.4 Nucleic acids
- U-3.5 Carbohydrates
- U-3.6 Fats, lipids *See also Chemistry S-38.6*
- U-3.7 Steroids *See also Chemistry S-38.7*
- U-3.8 Essences (aromatic oils) *See also Chemistry S-38.8*
- U-3.9 Others
- U-4 Inorganic components (e.g. metals, minerals)

U-5	Physiologically active compounds	
U-5.1	Vitamins, co-enzymes	
U-5.3	Antibiotics	<i>See also Chemistry</i>
U-5.4	Immunology	
U-5.5	Poisons	<i>See General Science A-4 for antidotes</i>
U-5.51	War gases	
U-5.52	Insecticides	<i>See also Applied Biology C-46</i>
U-5.53	Herbicides	<i>See also Applied Biology C-46</i>
U-5.54	Fungicides	<i>See also Applied Biology C-46</i>
U-5.7	Carcinogens	

[Y Biotechnology]

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