

# QW

## MICROBIOLOGY. IMMUNOLOGY

### MICROBIOLOGY

- 4 Microbiology. General works
- 11 History of microbiology
- 13 Dictionaries. Encyclopaedias. Bibliographies  
Use for general works only. Classify with specific aspects where possible
- 15 Classification. Terminology
- 16 Tables. Statistics
- 18 Education and training  
Include educational materials for both teaching and study
- 20 Research. Research design  
Include research to support evidence-based practice  
Classify research on a specific subject with the subject
- 21 Microbiology and immunology as professions. Careers in microbiology and immunology
- 22 Directories
- 23 Laboratories. Institutes
- 25 Laboratory manuals. Techniques. Include bacteriological techniques, microbial sensitivity tests and virus cultivation
- 26 Apparatus. Equipment
- 26.5 Use of computers, IT and telecommunications technology
- 32 Laws
- 33 Discussion of laws

- 39 Handbooks. Resource guides
- 45 Microbial drug resistance
- 51 Morphology and variability of microorganisms. Microbial genetics  
Classify works on fungi in QW180; on viruses in QW160 or with the specific  
fungi or virus group
- 52 Physiology and chemistry of microorganisms. Metabolism  
Classify works on fungi in QW180; on viruses in QW160 or with the specific  
fungi or virus groups

### ENVIRONMENTAL MICROBIOLOGY

- 55 Environmental microbiology
- 60 Plant and soil microbiology  
Classify works on specific microorganisms by subject
- 75 Industrial microbiology
- 80 Water and sewage microbiology
- 82 Air microbiology
- 85 Microbiology of food, milk and other beverages
- 90 Biofilms

### BACTERIA

- 125 Actinobacteria. Actinomycetales. Include Actinomycetaceae; Bifidobacterium;  
Brevibacterium; Corynebacterium; Mycobacteriaceae; Propionibacteriaceae;  
Streptomycetaceae
- 127 Gram-positive endospore-forming bacteria. Include Bacillaceae; Clostridium.
- 128 Bacteroidetes
- 131 Gram-negative bacteria. (General) Including gram-negative aerobic bacteria  
(include cocci and rods). Cyanobacteria
- 133 Gram-negative anaerobic bacteria (include cocci and rods and leptothrix)

- 135 Gram-negative chemolithotrophic bacteria
- 137 Gram-negative facultatively anaerobic rods
- 138 Enterobacteriaceae. Include Enterobacter; Escherichia; Klebsiella; Proteus; Salmonella; Serratia; Shigella; Yersinia
- 139 Haemophilus
- 140 Pasteurella
- 141 Vibrionaceae
- 142 Gram-positive bacteria. Include Asporogenous rods, Cocci
- 143 Mollicutes
- 145 Phototrophic bacteria
- 150 Proteobacteria. Include Rickettsiaceae
- 152 Chlamydiales
- 154 Campylobacter. Helicobacter. Spirillaceae
- 155 Spirochaetales

### VIRUSES

- 160 Virology. Viruses. (General) Include oncolytic viruses  
Classify works about a virus disease with the disease  
See WC500 for viral disease
- 161 Bacteriophages. Include Coliphages; Mycobacteriophages; Staphylococcus phages
- 164 Vertebrate viruses
- 165 DNA viruses. Include Adenoviridae; Herpesviridae; Papillomaviridae; Parvoviridae; Poxviridae
- 166 Oncogenic viruses

168 RNA viruses. These include Arboviruses; Arenaviridae; Bunyaviridae; Coronaviridae; Flaviviridae; HIV; Influenza viruses; Orthomyxoviridae; Paramyxoviridae; Picornaviridae; Reoviridae; Retroviridae; Rhabdoviridae; Rubivirus. Rubella virus

169 Vertebrate viruses, unclassified

170 Hepatitis viruses

#### **FUNGI. BACTERIAL SPORES**

180 Mycology. Pathogenic fungi. Include Ascomycota; Arthrodermataceae; Basidiomycota; Mitosporic fungi; Phycomyces; Yeasts. Classify specific yeasts under the appropriate number for the class.  
Classify general non-medical works on mycology and non-pathogenic fungi in QK

190 Bacterial and fungal spores  
Classify works on bacterial spores alone in QW51; on fungal spores alone in QW180

#### **BIOLOGICAL WARFARE**

300 Biological warfare. See W410 for disaster planning, WD450-458 for medical services and QV663 for chemical warfare agents

#### **IMMUNOLOGY**

504 Immunology. General works. Use for immunologic theory.  
Classify clinically orientated works with the system or disease  
See WD350 for immunologic disease

504.5 Immunochemistry. Immunohistochemistry

511 History of immunology

513 Dictionaries. Encyclopaedias

515 Classification. Terminology

516 Tables. Statistics

- 518 Education and training  
Include educational materials for both teaching and study
- 520 Research. Research design  
Include research to support evidence-based practice  
Classify research on a specific subject with the subject
- 525 Laboratory manuals. Techniques.  
Include immunoassay; immunoblotting; immunoenzyme techniques;  
immunophenotyping; radioallergosorbent test; radioimmunoassay
- 526 Equipment and supplies in immunology
- 539 Handbooks. Resource guides in immunology

#### IMMUNITY BY TYPE

- 540 Immunity. General works or not elsewhere classified
- 541 Natural immunity. Immunogenetics
- 545 Autoimmunity
- 551 Acquired immunity. Artificial immunity  
Classify preparations producing artificial immunity in QW800-815
- 552 Active immunity
- 553 Maternally acquired immunity
- 563 Local immunity
- 568 Cellular immunity. Immunologic cytotoxicity. Immunocompetence. Immunologic factors

#### ANTIGENS AND ANTIBODIES. TOXINS AND ANTITOXINS

- 570 Serology. Antigen-antibody reactions
- 573 Antigens
- 573.5 Histocompatibility antigens. HLA antigens

- 575 Antibodies
- 575.5 Monoclonal antibodies
- 601 Immunoglobulins
- 630 Toxins. Antitoxins. Include antivenins  
Classify works on toxoids, antitoxins etc as preparations producing immunity in QW800-815
- 630.5 Bacterial toxins; Cytotoxins; Endotoxins; Enterotoxins; Immunotoxins; Marine toxins; Mycotoxins; Neurotoxins; Ricin

### IMMUNE RESPONSES

- 640 Agglutination. Precipitation  
Classify works on immunologic tests at QY265
- 660 Lysis and bacterial action
- 680 Complement. Complement fixation
- 690 Phagocytosis
- 700 Infection. Mechanisms of infection and resistance. Disease carriers
- 730 Virulence. Invasiveness

### IMMUNOTHERAPY AND HYPERSENSITIVITY

- 800 Biological products producing immunity. Interferons  
Classify works on vaccines and vaccination for a specific disease with the disease.
- 805 Vaccines. Antitoxins. Toxoids  
Classify works on toxins or antitoxins formed in the body in QW630-630.5
- 806 Vaccination. Technical works only  
See W121 for immunisation programmes and policies; W124 for travel medicine and immunisation for travel purposes; WS130 for childhood immunisation
- 815 Immune sera

- 900 Anaphylaxis and hypersensitivity. Allergens.  
Classify works on diseases of hypersensitivity in general in WD 300-375.  
Classify specific allergic reactions with the system affected.
- 920 Immunosuppression. Immunosuppressive agents  
Classify transplantation immunology in WO305
- 940 Immunotherapy  
Classify works on therapy of a particular disease with the disease.
- 945 Serotherapy
- 949 Active immunotherapy