Western Libraries
Collections Management Policy
Microbiology & Immunology

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Purpose of the Collection:

The microbiology and immunology collection is intended to support the research activities of faculty and staff as well as students at the undergraduate, M. Sc. and PhD levels. The collection is also intended to support the work of the affiliated research groups and centres such as the BioTherapeutics Research Group, the Canadian Research and Development Centre for Probiotics, the Centre for Human Immunology and the Multi-Organ Transplant Program. Finally, the collection also supports the instructional requirements of the Department at the undergraduate and graduate levels.

The collection, both print and electronic, of the Allyn & Betty Taylor Library is the primary source for material supporting the research and instructional needs of the Microbiology & Immunology Department.

Program Information:

It is recognized that the Department offers both undergraduate and graduate programs in Microbiology and Immunology for students through to the PhD level. As well, the Department also provides instruction for Medicine, Dentistry and Nursing programs. Collections activity will take this into consideration.

Subject Areas Covered:

Collections activity will address all aspects of microbiology and immunology. In particular, collection development and management will focus on materials supporting the two main areas of scientific endeavour within the Department which include:
• The molecular and cellular biology of microorganisms.
• The molecular and cellular biology of the immune system.
Special attention will be given to the areas of research excellence identified for the Department which include immunopathogenesis of type 1 diabetes and transplantation, chronic inflammation, immunoregulation, innate immunity, infectious diseases and probiotics.
A more detailed listing of topics covered for both research and instruction can be found in the Appendix at the end of this document.

**Format:**

Acquisitions will include monographs, book series, and journals. Resources, particularly journals, in digital format are preferentially selected over their print counterparts. Alternate formats, such as CD-ROM, video, DVD, and microform, are considered on an individual request basis.

**Language:**

English is the primary language of collection in microbiology and immunology with other languages being considered upon request.

**Source of Publication:**

Sources of publication are primarily Canada, the United States, Australia and Europe with the language restriction applied. Material published in other regions may be considered on request and will be evaluated for quality and relevance.

**Date of publication:**

Materials with a recent imprint date are preferred. Older material will be considered upon request.

**Exclusions:**

With the exception of individual requests and some selective acquisitions, the following types of material are not acquired:
- popular literature
- conference and symposium proceedings
- theses
- or dissertations from other institutions
- course textbooks

**Related collections and cooperation:**

The collection for microbiology and immunology is further supplemented by collection activities in related fields such as the allied health sciences, basic medical sciences, clinical medical sciences, dentistry, and nursing.

**Gifts:**
The library gratefully accepts gifts of materials in good condition. As considerable expense is incurred by Western Libraries in the receipt and processing, the library only accepts gifts of materials which support current teaching and research needs, or which are not adequately represented in the collection.

Managing the Collection:

In order to ensure that collections remain optimally useful for our patrons, it is necessary to analyze collection usage and available space regularly. Items will need to be selectively removed from the onsite collection from time to time.

Duplicate items that are no longer required to support the curriculum, and damaged items that can no longer be replaced may be removed from the collection at the discretion of the Subject Librarian.

Items that are unique to Western may be transferred to a storage facility. Material housed in these storage facilities is available on request through the Library Catalogue.

Criteria for transfer selection include, but are not limited to, the following:

1) Outdated or previous editions of titles
2) Medium- to low-use items
3) Material that is available in alternate formats, i.e., online
4) Materials that would benefit from storage in a more controlled environment.

Consult with the Subject Librarian for further details about these criteria.

Resources to aid in acquisition of material:

The majority of monograph purchases for microbiology and immunology are acquired through the use of a monographs profile with the book vendor Coutts. Also, there is weekly monitoring of titles through Doody’s Alerting Service. Finally, patrons have two avenues for becoming involved with the acquisition of materials. Firstly, they can make recommendations for the collection through the online form available at https://www.lib.uwo.ca/acquire.html. Secondly, through the Demand Driven Acquisition process, users can automatically trigger purchases of non-owned e-books listed in our catalogue dependent upon the frequency of access to the content.

Appendix – Detailed Subject Listing for Microbiology and Immunology

Subject areas in support of research:  Acute myeloid leukemia
Antigens with attention to superantigens
Antiviral agents
Autoimmune diseases with attention to
  Diabetes especially Type 1  Multiple sclerosis
  Rheumatoid arthritis
Autoimmunity with attention to
  Induction and regulation
  Major histocompatibility complex molecules
Bacillus anthracis
Bacillus cereus
Bacteriology
Bdellovibrio bacteriovorus and Bdellovibrio-and-Like-Organisms  Biomarkers
Biotherapeutics
Burkholderia cepacia
Campylobacter jejuni
Cell signaling including pathways
Cell surface components and structure with attention to
  bacterial surfaces
glycolipids  glycoproteins
surface proteins
Chemotaxis
Dendritic cells
Diagnostic microbiology
Drug resistance with attention to anticancer drugs
Efferocytosis
Gene therapy
Host-pathogen interactions
Human adenovirus
Human T-Cell Lymphotropic Virus Type 1 (HTLV-1)
Human Immunodeficiency Virus (HIV) aka AIDS virus
Human papilloma virus (HPV)
Immune system development with attention to transcriptional regulation
Immunology  Immunoregulation
Immunosuppression
Inflammation with special attention to chronic conditions
Innate immunity
Interferon
Lipopolysaccharide (LPS)
Macrophages
Membrane trafficking
Metal homeostasis with attention to iron
Metallothioneins
Metastasis and tumor invasion
Microbial molecular biology with attention to
transcriptional and translational control mechanisms Microbial pathogenesis with attention to factors and mechanisms Microbial ultrastructure Multiphoton microscopy Oncogenes Phagocytosis Plant-microbe interactions Probiotics RNA polymerase Sepsis with attention to molecular aspects Staphylococcus aureus including MRSA Streptococcus pyogenes Stress response including biotic and abiotic stressors T lymphocytes with attention to  
  T cell receptors (TCR) 
  T regulatory cells 
  T cell mediated immune response 
  Natural killer T cells 
Toxic shock syndrome Transplantation biology with attention to rejection and tolerance especially in kidney and cardiac transplantation, Urinary tract infections – prevention & treatment Vaccine development with attention to  
  Human T-Cell Lymphotropic Virus Type 1 (HTLV-1) 
  Human Immunodeficiency Virus (HIV) 
Virology Virulence factors Yersinia pseudotuberculosis

Subject areas in support of instruction
Advanced immunology Bacterial pathogenesis Gene expression General immunology General microbiology Infection and immunity Laboratory methods and protocols Lymphocyte development Microbial diversity Molecular biology of bacteria Molecular biology of viruses Molecular genetics Scientific communication Virology