

9-13-2019

USFT Prog Proposal CAS Cell Bio Microbio Molecular Bio Cell Molecular Bio BS 20190913

USF Libraries

Follow this and additional works at: https://scholarcommons.usf.edu/usf_lda_data

Scholar Commons Citation

USF Libraries, "USFT Prog Proposal CAS Cell Bio Microbio Molecular Bio Cell Molecular Bio BS 20190913" (2019). *All Assessment Data*. 55.

https://scholarcommons.usf.edu/usf_lda_data/55

This USF Tampa Library is brought to you for free and open access by the USF Libraries Data and Assessment at Scholar Commons. It has been accepted for inclusion in All Assessment Data by an authorized administrator of Scholar Commons. For more information, please contact scholarcommons@usf.edu.

X. Non-Faculty Resources

A. Describe library resources currently available to implement and/or sustain the proposed program through Year 5. Provide the total number of volumes and serials available in this discipline and related fields. List major journals that are available to the university's students. Include a signed statement from the Library Director that this subsection and subsection B have been reviewed and approved.

Part I – Overview of USF Libraries, Mission, and Program/Discipline Strengths

The University of South Florida (USF) is accredited by the Southern Association of Colleges and Schools' Commission on Colleges to award associate, baccalaureate, master's, specialist and doctorate degrees. The institution was initially accredited in 1965 and was last reviewed and reaffirmed in 2015.

The University of South Florida Libraries consist of USF's main research library and the Hinks and Elaine Shimberg Health Sciences Library, both located on the Tampa Campus; the Nelson Poynter Memorial Library, USF St. Petersburg campus; and an Information Commons at the USF Sarasota-Manatee campus. Access to print resources at the USF Tampa Library is available 24/5, and access to electronic resources is available remotely 24/7.

The USF Libraries inspire research, creativity, and learning by connecting the USF community to relevant and high-quality information. Our vision is to become the center of a highly engaged university community, driven to produce high-impact research and to nourish creativity. Together, the USF Libraries provide access to more than 2 million volumes and an extensive collection of electronic resources including approximately 64,928 e-journal subscriptions and over 900 aggregator databases containing another 92,855 unique e-journal titles, 693,313 e-books, and 826,000 digital images. In addition, students have access to over 83,000 audio/visual materials including electronic media, music scores, audiobooks, CDs, and DVDs.

The USF Libraries endeavor to develop and maintain a research collection that satisfies the resource needs of the undergraduate and graduate curriculums in College of Arts and Science Department of Integrative Biology and also meets the specialized needs of the students and faculty for a Bachelor of Science program in Cell and Molecular Biology.

Part II - USF Libraries' Collections

MONOGRAPHS (Print and Ebooks)

The USF Libraries contain extensive holdings of books in both print and e-book format that support student and faculty instructional and research needs in the new program. To identify the scope of relevant books, titles were derived from searching the library's catalog by Library of Congress Subject Headings relevant to Cell and Molecular Biology studies.

MONOGRAPHIC COUNTS			
Library of Congress Subject Headings for Cell and Molecular Biology			
Library of Congress (LC) Call Number	Subject Heading	Print	Number of E-books
QH	Natural History (Biology)	4,955	6,407
QH 366- 442	Genetics & Genomes	153	472
QH 450	Developmental Biology	179	302
QH 450	Molecular Biology	701	933
QH 573 -671	Cytology	446	1,308
QH 581-671	Cells	1,735	2,871
QD 431-QP 551	Proteins	808	1,260
QP 514	Biochemistry	779	3,176
QR	Microbiology	901	1,801
Total E-Books		10,657	18,530

Total Number of Monographs

- Print = 10,657
- Electronic = 18,530

Ebooks and Ebook Collections

- Cambridge Core Ebooks
- EBSCO Ebook Collection
- Oxford Scholarship Online and University Press Scholarship Online
- ProQuest Ebook Central
- ScienceDirect
- SpringerNature eBooks including Collection in Biomedicine & Life Sciences
- Taylor & Francis and CRCNetBase eBooks
- Wiley Online Library

MAJOR SERIAL TITLES (JOURNALS)

The USF Libraries subscribe to several scholarly and professional journals that have an editorial scope and content which support curricular activities at the Bachelor of Science level. A majority of the titles are in electronic format thereby enhancing accessibility. Journal titles were derived by searching Scopus SciMago and Web of Science JCR ranked journals for curriculum topics in Cell and Molecular Biology.

Serial Title Subscriptions and Access

- 105 Journal Titles (electronic format)

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
Cell	JCR 242.829	705	ScienceDirect - Cell Press 01/01/1995 - present
Nature Medicine	JCR 79.243	257	Nature Journals Online 01/01/1995 - present
Nature Reviews Genetics	30.428	320	Nature Journals Online 01/01/2000 - present
Nature Reviews Microbiology	30.397	386	Nature Journals Online 01/01/2003 - present
Nature Reviews Molecular Cell Biology	30.397	386	Nature Journals Online 01/01/2000 - present
Nature Methods	21.178	257	Gale OneFile: Health and Medicine 10/01/2004 - present
Nature Chemical Biology	12.137	337	Nature Journals Online Most recent 2 years available.
Molecular Cell	12.076	356	ScienceDirect - Cell Press 01/01/1997 - present
Physiological Reviews	11.797	312	HighWire Press 01/01/1921 - present
Cancer Cell	11.741	295	ScienceDirect - Cell Press 01/01/2002 - present

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
Annual Review of Plant Biology	11.591	235	Annual Reviews 01/01/2002 - present
Cell Stem Cell	11.434	212	ScienceDirect Open Access Titles 06/07/2007 - present
Cell Metabolism	10.692	219	ScienceDirect Open Access Titles 01/01/2005 - present
Annual Review of Cell and Developmental Biology	10.329	204	Annual Reviews 01/01/1995 - present
Trends in Cell Biology	10.011	215	ScienceDirect Freedom Collection 01/01/1995 - present
Nature Structural and Molecular Biology	10.005	249	Nature Journals Online 01/01/2004 - present
Genome Biology	9.867	207	PubMed Central (PMC) 01/01/2000 - present
Annual Review of Biophysics	9.430	146	EBSCO Open Access Biology Collection 01/01/1997 - present
Trends in Biochemical Sciences	8.695	253	ScienceDirect Freedom Collection 01/01/1995 - present
Cell Host and Microbe	7.822	147	ScienceDirect Open Access Titles 03/15/2007 - present
EMBO Journal	7.579	368	PubMed Central (PMC) 01/01/1982 - present
Microbiology and Molecular Biology Reviews	7.278	229	HighWire Press 01/01/1937 - present
Molecular Biology and Evolution	7.124	197	Oxford University Press 01/01/1996 - present
Molecular Biology of the Cell	7.124	197	PubMed Central (PMC) 01/01/1992 - present
Current Opinion in Cell Biology	6.658	242	ScienceDirect Freedom Collection 01/01/1995 - present
Current Opinion in Structural Biology	6.658	242	ScienceDirect Freedom Collection 02/01/1995 - present

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
PLoS Genetics	6.626	197	PLoS - Public Library of Science 01/01/2005 - present
Cell Systems	6,370	30	ScienceDirect 07/29/2015 - present
Journal of Extracellular Vesicles	6,283	47	Taylor & Francis Open 01/01/2012 - present
Blood	6,065	426	HighWire Press 01/01/1946 - present
Developmental Cell	5.638	239	ScienceDirect - Cell Press 07/01/2001 - present
Plant Cell	5.624	309	PubMed Central (PMC) 01/01/1989 - present
Annual Review of Genomics and Human Genetics	5.315	104	Annual Reviews 01/01/2000 - present
Genome Medicine	5.084	66	PubMed Central (PMC) 01/01/2009 - present
Bioinformatics	4.549	335	Oxford University Press 01/01/1996 - present
EMBO Reports	4.459	164	Wiley Online Library 01/01/2000 - present
Mobile DNA	4.407	27	BioMed Central 01/01/2010 - present
Molecular Plant	4.269	85	ScienceDirect Freedom Collection 01/01/2008 - present
Development (Cambridge)	4,184	302	HighWire Press 01/01/1953 - present
Autophagy	4.168	121	Taylor & Francis Science & Technology Library 01/01/2005 - present
Ageing Research Reviews	4.125	98	ScienceDirect Freedom Collection 02/01/2002 - present

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
Wiley Interdisciplinary Reviews: RNA	4.075	56	Wiley Online Library 01/01/2010 - present
PLoS Computational Biology	4.001	194	PLoS - Public Library of Science 01/01/2005 - present
Cell Death and Differentiation	3.980	193	PubMed Central (PMC) 01/01/2011 - present
Cell Death and Disease	3.980	193	PubMed Central (PMC) 01/01/2010 - present
PLoS Pathogens	3.909	174	PLoS - Public Library of Science 01/01/2005 - present
Aging Cell	3.809	121	PubMed Central (PMC) 01/01/2011 - present
Critical Reviews in Biochemistry and Molecular Biology	3.703	97	Taylor & Francis Science & Technology Library 01/01/1997 - present
Stem Cell Reports	3.698	55	PubMed Central (PMC) 01/01/2013 - present
BMC Biology	3.628	90	PubMed Central (PMC) 01/01/2003 - present
Wiley Interdisciplinary Reviews: Developmental Biology	3.620	34	Wiley Online Library 01/01/2012 - present
Genomics Proteomics and Bioinformatics	3.599	35	PubMed Central (PMC) 01/01/2003 - present
Journal of Molecular Biology	3.578	251	ScienceDirect 01/01/1993 - present
Plant Journal	3.376	241	Wiley Online Library 01/01/1997 - present
Neurobiology of Stress	3.359	23	PubMed Central (PMC) 01/01/2015 - present
Molecular Metabolism	3.343	43	PubMed Central (PMC) 01/01/2012 - present

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
Molecular Therapy	3.288	158	PubMed Central (PMC) 01/01/2009 - present
Molecular Cancer	3.270	103	SpringerOpen 01/01/2002 - present
Science signaling	3.169	134	HighWire Press 01/01/1999 - present
Seminars in Cell and Developmental Biology	3.139	128	ScienceDirect Freedom Collection 02/01/1996 - present
Oncogene	3.127	312	Nature Journals Online 01/01/2013 - present
Human Molecular Genetics	3.097	255	Oxford University Press 01/01/1996 - present
Epigenetics and Chromatin	3.064	40	SpringerOpen 01/01/2008 - present
Cellular and Molecular Life Sciences	3.006	194	Springer Nature Journals 04/01/1945 - present
mSystems	2.979	19	American Society for Microbiology Journals 01/01/2016 - present
RNA	2.963	158	PubMed Central (PMC) 01/01/1995 - present
Journal of Hematology and Oncology	2.960	60	BioMed Central 01/01/2008 - present
Cell Chemical Biology	2.945	166	ScienceDirect - Cell Press 01/01/2016 - present
Cell Discovery	2.855	15	PubMed Central (PMC) 01/01/2015 - present
Matrix Biology	2.829	106	ScienceDirect Freedom Collection 02/01/1995 - present
Molecular and Cellular Proteomics	2.807	169	PubMed Central (PMC) 01/01/2008 - present

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
Briefings in Bioinformatics	2.748	90	Oxford University Press 01/01/2006 - present
Molecular and Cellular Biology	2.603	308	HighWire Press 01/01/1981 - present
Stem Cells	2.592	205	Wiley Online Library 01/01/1996 - present
RNA Biology	2.530	65	PubMed Central (PMC) 01/01/2009 - present
Biomolecules	2.525	37	PubMed Central (PMC) 01/01/2011 - present
Frontiers in Cell and Developmental Biology	2.515	31	PubMed Central (PMC) 01/01/2013 - present
Clinical Epigenetics	2.426	39	PubMed Central (PMC) 01/01/2010 - present
Journal of Biological Chemistry	2.403	477	PubMed Central (PMC) 01/01/2005 - present
Tissue Barriers	2.401	119	PubMed Central (PMC) 01/01/2013 - present
Traffic	2.401	119	Wiley Online Library 01/01/2000 - present
Cell Communication and Signaling	2.400	52	PubMed Central (PMC) 01/01/2003 - present
Frontiers in Synaptic Neuroscience	2.398	31	PubMed Central (PMC) 01/01/2009 - present
Biochimica et Biophysica Acta - Gene Regulatory Mechanisms	2.387	114	ScienceDirect Freedom Collection 01/01/2008 - present
Biochimica et Biophysica Acta - Molecular and Cell Biology of Lipids	2.342	147	ScienceDirect Freedom Collection 12/08/1998 - present
Protein & Cell	2.280	48	SpringerOpen 01/01/2010 - present
Molecular Microbiology	2.249	226	Wiley Online Library 01/01/1987 - present

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
Methods	2.225	132	ScienceDirect 01/01/1993 - present
DNA Repair	2.224	104	ScienceDirect Freedom Collection 01/22/2002 - present
Cell Division	2.219	40	PubMed Central (PMC) 01/01/2006 - present
Epigenetics	2.208	77	Taylor & Francis Science & Technology Library 01/01/2006 - present
FEBS Journal	2.202	186	Wiley Online Library 01/01/2005 - present
Biochimica et Biophysica Acta - Bioenergetics	2.200	154	ScienceDirect Open Access Titles 01/01/1995 - present
Molecular Phylogenetics and Evolution	2.179	142	ScienceDirect 03/01/1992 - present
mSphere	2.178	19	American Society for Microbiology Journals 01/01/2016 - present
Journal of Molecular Cell Biology	2.154	52	Oxford University Press 01/01/2009 - present
Biomolecular Detection and Quantification	2.150	14	PubMed Central (PMC) 01/01/2014 - present
Biochemical Journal	2.142	243	Geneva Foundation Free Medical Journals 01/01/1906 - present
Journal of Lipid Research	2.119	172	HighWire Press 01/01/1959 - present
Microbiology spectrum	2.093	32	American Society for Microbiology Journals 10/01/2013 - present
Biochimica et Biophysica Acta - Molecular Cell Research	2.092	155	ScienceDirect Freedom Collection 02/16/1995 - present
Journal of Molecular and Cellular Cardiology	2.089	142	ScienceDirect 01/01/1993 - present

Major Serial Titles			
Journal Title	SJR Index	H Index	USF Library Holdings
Plant and Cell Physiology	2.080	135	Oxford University Press 01/01/1996 - present
DNA Research	2.066	89	PubMed Central (PMC) 01/01/2007 - present
FASEB Journal	2.065	257	Publisher's Site 07/01/1987 - present

DATABASES and DIGITAL LIBRARIES

Scholarly, research and instructional activities associated with Cell and Molecular Biology endeavors are supported by a number of both specialized marine and general scientific databases which provide access to indexes, journal articles, and monographs.

Key Cell and Molecular Biology Databases

BIOSIS Citation Index
BIOSIS Citation Index combines the carefully indexed life science coverage found in BIOSIS Previews (Biological Abstracts, Reports, Reviews, and Meetings) with the power of cited reference searching. Subject coverage is the same as that of BIOSIS Previews and includes traditional areas of biology like botany, zoology, and microbiology.
Medline (CSA-ProQuest)
MEDLINE on this service contains over 4 million citations and abstracts, providing unparalleled access to worldwide biomedical literature. The database contains a broad range of medical topics relating to research, clinical practice, administration, policy issues, and health care services. Produced by the U.S. National Library of Medicine, MEDLINE contains all records published in Index Medicus and since 2002, most citations previously included in separate NLM specialty databases such as SPACELINE and HISTLINE.
PubMed
PubMed was developed by the National Center for Biotechnology Information (NCBI). It was developed in conjunction with publishers of biomedical literature as a search tool for accessing literature citations and linking to full-text journals at web sites of participating publishers. Provides access to over 12 million Medline citations back to the mid-1960's and additional life science journals. PubMed, a service of the National Library of Medicine, includes over 15 million citations for biomedical articles back to the 1950's.
Scopus
Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Delivering a comprehensive overview of the world's research output in the fields of science, technology, medicine, social sciences, and arts and humanities.

Web of Science

The ISI Web of Science provides seamless access to the Science Citation Expanded, Social Sciences Citation Index, and Arts & Humanities Citation Index. It enables users to search current and retrospective multidisciplinary information from approximately 8,500 of the most prestigious, high impact research journals in the world. ISI Web of Science also provides a unique search method, cited reference searching. With it, users can navigate forward, backward, and through the literature, searching all disciplines and time spans to uncover all the information relevant to their research. Users can also navigate to electronic full-text journal articles.

General Scientific Databases.**Annual Reviews**

For over 70 years Annual Reviews has synthesized the vast amount of primary research literature available, offering critical review articles in 29 specific disciplines in the Biomedical, Physical and Social Sciences. The USF Libraries offer current access to the latest Annual Reviews and have also purchased an electronic collection of all Annual Reviews volumes ever published with content dating back to the very first volume of Annual Review of Biochemistry in 1932.

BioOne

BioOne aggregates over eighty high impact bioscience research journals. Most of BioOne's titles are published by small societies and non-commercial publishers, and, until now, have been available only in printed form. BioOne journals focus on the biological, ecological and environmental sciences.

BioMed Central

BioMed Central is an independent publishing house committed to providing immediate free access to peer-reviewed biomedical research.

Biological Science Database

The collection contains biological science related full-text articles, granular access to figures and tables within articles, and the entire range of bibliographic records from Biological Sciences database. Supporting over two dozen areas of expertise, Biological Sciences provides access to literature from serials, as well as conference proceedings, technical reports, monographs and selected books and patents.

Journals@Ovid

The database aggregates hundreds of scientific, technical, and medical journals from over 50 publishers and societies, with each journal available by individual subscription. Includes access and searching of all the bibliographic citations, references, and abstracts in the database as well as to the full text of select journals.

JSTOR

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible.

Nature Publishing

Provides indexing coverage for publications from the Nature Publishing Group; including biotechnology, cancer, chemistry, clinical medicine, dentistry, developmental biology, drug discovery, evolution & ecology, genetics, immunology, medicine, microbiology, molecular cell biology, neuroscience, pharmacology, and physics.

Oxford Academic Journals

Provides full-text online access to electronic journals published by the Oxford University Press. Disciplines covered are humanities, social sciences, and the sciences. A brief bibliographic description

of each title is given in an "About this journal" section. The "Online journals" table lists the available online material for each journal. The full text of these online journals is generally available for the past several years, though abstracts of articles date back additional years.
SAGE Journals Online
Presents information about SAGE Publications, Inc. online journals. Allows keyword searching of article contents, as well as browsing articles by topic and journals by title. Includes an overview and history of the company, based in Thousand Oaks, California, which focuses on the social science, science, and electronic publishing fields. Links to information about books and other materials available from the company, along with ordering information.
ScienceDirect
A web database for scientific research that contains the full text of more than 2000 Elsevier Science journals in the life, physical, medical, technical, and social sciences available through the Internet. Contains abstracts and articles from the core journals in major scientific disciplines. The journals are arranged under subject areas for topical navigation.
SpringerLink
Provides online access to full text of journals from the Springer Publishing Group.
Taylor & Francis Online
Taylor & Francis Online is the journal content platform for the Taylor & Francis Group. The platform gives online access to all journals published by Taylor & Francis and Routledge.

B. Describe additional library resources that are needed to implement and/or sustain the program through Year 5. Include projected costs of additional library resources in Table 2 in Appendix A. Please include the signature of the Library Director in Appendix B.

As of September 13, 2019, the collections of the USF Tampa Library and affiliates are sufficient to support the new program proposal for a Bachelor of Science in Cell and Molecular Biology in the Department of Cell Biology, Microbiology, and Molecular Biology (CMMB) The Libraries maintain an exceptionally strong collection of resources and services needed to support USF as a Preeminent Research University. The librarians and Dean of the Libraries work closely with the College of Arts and Sciences to ensure all curricular and research needs are more than adequately supported. No additional resources are required to support the new program at this time. Sustained annual investments to maintain the recurring elements of this collection and to purchase newly published materials are required to preserve sufficiency. With escalating costs, typical annual increases of 3-6% are likely. Strategic investments are required as new faculty are hired and areas of emphasis, including new research agendas not described in this proposal, evolve.