

# A Bibliometric Study of Directory of Open Access Journals: Special reference to Microbiology

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## ABSTRACT

The present study aim is to determine the number of free e-journal in the field of Microbiology available on DOAJ. For this study the author has adopted bibliometric method and analyzed on the basis of country-wise distribution, language wise distribution and subject heading wise distribution.

**KeyTerms:** Bibliometric study, Open access, Directory of open access journals, Microbiology, India, Language.

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## INTRODUCTION

Information sources are very much needed for research purpose, especially in academic institutions. Primary sources such as journal, play a major role in academic research. The impact of open access in the world wide leads to users access the free open access journals for academic and research purpose. Directory of Open Access Journals is boon for users and it provide access to more than 10000 open access journal in field of science, social science, humanities, technology.

### Directory of Open Access Journals: DOAJ

The Directory of Open Access Journals was launched in 2003 at Lund University, Sweden, with 300 open access journals and today contains more than 10000 open access journals covering all areas of science, technology, medicine, social science and humanities.

DOAJ is a membership organization and membership is available in 3 main categories: Publisher, Ordinary Member and Sponsor. A DOAJ Membership is a clear statement of intent and proves a commitment to quality, peer-reviewed open access. DOAJ is co-author to the Principles of Transparency and Best Practice in Scholarly Publishing (Principles) and DOAJ members are expected to follow these principles as a condition of membership. DOAJ reserves the right to reject applications for membership, or revoke membership if a member or sponsor is found to contravene the Principles.

DOAJ is a white list of open access journals and aims to be the starting point for all information searches for quality, peer reviewed open access material. To assist libraries and indexers

keep their lists up-to-date, we make public a list of journals which have been accepted into or removed from DOAJ but we will not discuss the details of an application with anyone apart from the applicant. We will also not discuss the individual publishers or applications with members of the public unless we believe that, by doing so, we will be making a positive contribution to the open access community.

## OBJECTIVES

- To trace the number free e-journals offered by DOAJ on Microbiology.
- To determine the country wise distribution of e-journals.
- To trace the language wise distribution of e-journals.
- To find out the accessibility of archives of e-journals.

## METHODOLOGY

Directory open access journals website ([www.doaj.org](http://www.doaj.org)) is browsed for the present study<sup>1</sup>. In the field of Microbiology e-journals were searched out and 134 e-journals were analyzed based on subject Heading, Country wise, Languages of E-journals.

## DATA ANALYSIS

### □ List of Free E-Journals on Microbiology

Total 134 Microbiology e-Journals were analyzed based on subject headings, languages, country wise and accessibility of archives of E-journals and presented in the form of tables.

Table 1: List of Free E-Journals on Microbiology

Title of the E-journal	URL	ISSN / E-ISSN NO	Publisher	Place of publication	Language	Subject Heading
International journal of analytical, Pharmaceutical and Biomedical Sciences	<a href="http://www.ijapbs.com">http://www.ijapbs.com</a>	2278-0278(p)	International Journal of Analytical, Pharmaceutical and Biomedical Sciences	India	English	Medicine: Therapeutics. Pharmacology
Jundishapur journal of Microbiology	<a href="http://jjmicrobiol.com/">http://jjmicrobiol.com/</a>	2008-3645 (Print) 2008-4161 (Online)	Kowsar Corporation	Iran	English	Science: Microbiology
Dental journal of Hamadan University of Medical sciences	<a href="http://avicennajdr.com/?page=home">http://avicennajdr.com/?page=home</a>	2008-7659 (Print); 2008-7667 (Online)	Hamadan University of Medical Sciences	Iran	English	Medicine: Dentistry
ActaScientiarum : Biological Sciences	<a href="http://periodicos.uem.br/ojs/index.php/ActaSciBiolSci/index">http://periodicos.uem.br/ojs/index.php/ActaSciBiolSci/index</a>	1679-9283 (Print); 1807-863X (Online)	Eduem - Editora da Universidade Estadual de Maringá	Brazil	English, Portuguese	Science: Biology (General)
TürkHijyenveDeneyselBiyolojiDergisi	<a href="http://www.turkhiyjen.org/eng/jvi.aspx">http://www.turkhiyjen.org/eng/jvi.aspx</a>	0377-9777 (Print); 1308-2523 (Online)	RefikSaydamHifzissaha MerkeziBa?kanl???	Turkey	English, Turkish	Science: Biology (General)   Medicine: Public aspects of medicine
Frontiers in Cellular and Infection Microbiology	<a href="http://www.frontiersin.org/Cellular_and_Infection_Microbiology">http://www.frontiersin.org/Cellular_and_Infection_Microbiology</a>	2235-2988 (Online)	Frontiers Media S.A.	Switzerland	English	Science: Microbiology
International Journal of Bacteriology	<a href="http://www.hindawi.com/journals/ijb/">http://www.hindawi.com/journals/ijb/</a>	2356-6957 (Print); 2314-596X (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Microbiology
Pathogenesis	<a href="http://www.journals.elsevier.com/pathogenesis/">http://www.journals.elsevier.com/pathogenesis/</a>	2214-6636 (Online)	Elsevier	Netherlands	English	Medicine: Medicine (General)
Virology: Research and Treatment	<a href="http://la-press.com/journal.php?journal_id=50">http://la-press.com/journal.php?journal_id=50</a>	1178-122X (Online)	Libertas Academica	New Zealand	English	Science: Microbiology
Viruses	<a href="http://www.mdpi.com/journal/viruses">http://www.mdpi.com/journal/viruses</a>	1999-4915 (Print)	MDPI AG	Switzerland	English	Science: Microbiology
Journal of Medical Bacteriology ISSN;	<a href="http://jmb.tums.ac.ir">http://jmb.tums.ac.ir</a>	2251-8649 (Print)	Tehran University of Medical Sciences	Iran	English	Science: Microbiology
Emerging Microbes and Infections	<a href="http://www.nature.com/emi">http://www.nature.com/emi</a>	2222-1751 (Print)	Nature Publishing Group	China	English	Medicine: Internal medicine: Infectious and parasitic diseases   Science: Microbiology
Journal of Experimental Biology and Agricultural Sciences	<a href="http://www.jebas.org/">http://www.jebas.org/</a>	2320-8694 (Print)	Journal of Experimental Biology and Agricultural Sciences	India	English	Science: Biology (General)
Annals of Clinical Microbiology and Antimicrobials	<a href="http://www.ann-clinmicrob.com/home/">http://www.ann-clinmicrob.com/home/</a>	1476-0711 (Print)	BioMed Central	United Kingdom	English	Science: Microbiology
Microbiology Insights	<a href="http://la-press.com/journal.php?journal_id=108">http://la-press.com/journal.php?journal_id=108</a>	1178-6361 (Online)	Libertas Academica	New Zealand	English	Science: Microbiology
Retrovirology : Research and Treatment	<a href="http://www.la-press.com/journal.php?journal_id=52&amp;issue_id=170">http://www.la-press.com/journal.php?journal_id=52&amp;issue_id=170</a>	1178-1238 (Online)	Libertas Academica	New Zealand	English	Science: Microbiology
Journal of Cell and Molecular Biology	<a href="http://jcm.b.halic.edu.tr/">http://jcm.b.halic.edu.tr/</a>	1303-3646 (Print); 1306-0961 (Online)	Halic University	Turkey	English	Science: Biology (General): Cytology
Annals of Mechnikov's Institute	<a href="http://www.imiamn.org.ua/journal.htm">http://www.imiamn.org.ua/journal.htm</a>	1993-4327 (Print)	Annals of Mechnikov's Institute	Ukraine, Ukrainian, Russian	English,	Medicine: Medicine (General)
International Journal of Infection and Microbiology	<a href="http://www.nepjol.info/index.php/IJIM/index">http://www.nepjol.info/index.php/IJIM/index</a>	2091-2145 (Print)	Genesis Laboratory and Research	Nepal	English	Medicine: Medicine (General)
Journal of Microbiology, Biotechnology and Food sciences	<a href="http://www.jmbfs.org">http://www.jmbfs.org</a>	1338-5178 (Print)	Slovak University of Agriculture	Slovakia	English	Technology: Chemical technology: Biotechnology   Technology: Home economics: Nutrition. Foods and food supply   Science: Microbiology
Revista Argentina de Microbiología	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid_0325-7541/Ing_en/nm_iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid_0325-7541/Ing_en/nm_iso</a>	ISSN: 0325-7541 (Print); 1851-7617 (Online)	Asociación Argentina de Microbiología	Argentina	English, Spanish	Science: Microbiology
Advance Journal of Food Science and Technology	<a href="http://maxwellsci.com/jp/archives.php?jid=AJFST">http://maxwellsci.com/jp/archives.php?jid=AJFST</a>	ISSN: 2042-4868 (Print); 2042-4876 (Online)	Maxwell Science Publication	United Kingdom	English	Technology: Home economics: Nutrition. Foods and food supply

Bioscience Discovery	<a href="http://bioscience.discovery.com">http://bioscience.discovery.com</a>	ISSN: 2229-3469 (Print); 2231-024X (Online)	RUt Printer and Publisher	India	English	Science: Science (General)
Microbial Ecology in Health and Disease	<a href="http://www.microbecol.healthdis.net/index.php/mehd">http://www.microbecol.healthdis.net/index.php/mehd</a>	ISSN: 0891-060X (Print); 1651-2235 (Online)	Co-Action Publishing	Sweden	English	Science: Microbiology
Virology Journal	<a href="http://biomedcentral.com/1743-422X">http://biomedcentral.com/1743-422X</a>	ISSN: 1743-422X (Print)	BioMed Central	United Kingdom	English	Science: Microbiology   Medicine: Medicine (General)
Micología Aplicada Internacional	<a href="http://www.redalyc.org/revista.oa?id=685">http://www.redalyc.org/revista.oa?id=685</a>	ISSN: 1534-2581 (Print)	Micología Aplicada Internacional	United States	English	Science: Microbiology   Science: Botany
Microbial Biotechnology	<a href="http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1751-7915">http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1751-7915</a>	ISSN: 1751-7915 (Online)	Wiley	United Kingdom	English	Technology: Chemical technology: Biotechnology
EurAsian Journal of Biosciences	<a href="http://www.ejobios.com">http://www.ejobios.com</a>	ISSN: 1307-9867 (Print)	Foundation for Environmental Protection and Research	Turkey	English	Science: Biology (General)
Journal of Microbiology & Biology Education	<a href="http://jmbe.asm.org/index.php/jmbe">http://jmbe.asm.org/index.php/jmbe</a>	ISSN: 1935-7877 (Print); 1935-7885 (Online)	American Society for Microbiology	United States	English	Science: Microbiology
Innovare Journal of Life Science	<a href="http://innovareacademics.in/journals/index.php/ijls">http://innovareacademics.in/journals/index.php/ijls</a>	ISSN: 2321-550X (Print)	Innovare Academic Sciences	India	English	General Works
Microbiome	<a href="http://www.microbiomejournal.com/">http://www.microbiomejournal.com/</a>	ISSN: 2049-2618 (Print)	BioMed Central	United Kingdom	English	Science: Microbiology
Frontiers in Microbiology	<a href="http://www.frontiersin.org/microbiology">http://www.frontiersin.org/microbiology</a>	ISSN: 1664-302X (Online)	Frontiers Media S.A.	Switzerland	English	Science: Microbiology
Indian Journal of Pathology and Microbiology	<a href="http://www.ijponline.org/">http://www.ijponline.org/</a>	ISSN: 0377-4929 (Print); 0974-5130 (Online)	Medknow Publications	India	English	Medicine: Pathology   Science: Microbiology
Jurnal Biologi el-Hayah	<a href="http://ejournal.uin-malang.ac.id/index.php/bio">http://ejournal.uin-malang.ac.id/index.php/bio</a>	ISSN: 2086-0064 (Print)	UIN Press	Indonesia	Indonesian	Science: Biology (General)
American Journal of Immunology	<a href="http://thescipub.com/aji.toc">http://thescipub.com/aji.toc</a>	ISSN: 1553-619X (Print)	Science Publications	United States	English	Science: Microbiology
Cell Journal	<a href="http://celljournal.org/">http://celljournal.org/</a>	ISSN: 2228-5806 (Print); 2228-5814 (Online)	Royan Institute (ACECR), Tehran	Iran	Persian, English	Science: Microbiology
Virus Reviews & Research	<a href="http://www.vrrjournal.org.br/index.php/vrrjournal">http://www.vrrjournal.org.br/index.php/vrrjournal</a>	ISSN: 1519-2563 (Print); 2357-9323 (Online)	Brazilian Society for Virology	Brazil	English	Medicine: Medicine (General)   Science: Microbiology
Malaysian Journal of Microbiology	<a href="http://web.usm.my/mjm">http://web.usm.my/mjm</a>	ISSN: 1823-8262 (Print); 2231-7538 (Online)	Malaysian Society for Microbiology	Malaysia	English	Science: Microbiology
Acta Agriculturae Slovenica	<a href="http://aas.bf.uni-lj.si/index-en.htm">http://aas.bf.uni-lj.si/index-en.htm</a>	ISSN: 1581-9175 (Print); 1854-1941 (Online)	University of Ljubljana	Slovenia		Agriculture: Agriculture (General)
REMISE : Revue de Microbiologie Industrielle Sanitaire et Environnementale	<a href="http://www.remise.ma">http://www.remise.ma</a>	ISSN: 2028-0351 (Print)	Université Mohammed Premier	Morocco	French, English	Science: Microbiology
Advancements in Life Sciences	<a href="http://www.als-journal.com">http://www.als-journal.com</a>	ISSN: 2310-5380 (Online)	University of the Punjab	Pakistan	English	Agriculture: Animal culture: Veterinary medicine   Science: Biology (General)
Journal of Microbiology and Infectious Diseases	<a href="http://www.jmidonline.org/">http://www.jmidonline.org/</a>	ISSN: 2146-3158 (Print); 2146-9369 (Online)	Association of Health Investigations	Turkey	English	Science: Microbiology   Medicine: Internal medicine: Infectious and parasitic diseases
Iranian Journal of Medical Microbiology	<a href="http://www.ijmm.ir/index.php?slc_lang=en&amp;sid=1">http://www.ijmm.ir/index.php?slc_lang=en&amp;sid=1</a>	ISSN: 1735-8612 (Print); 2345-4342 (Online)	Iranian Society of Microbiology	Iran, Islamic Republic of	Persian	Science: Microbiology
Research & Reviews : Journal of Microbiology and Biotechnology	<a href="http://rroj.com/jmb/index.php/jmb">http://rroj.com/jmb/index.php/jmb</a>	ISSN: 2320-3528 (Print)	Shastri Education Trust®	India	English	Science: Microbiology
Annals : Food Science and Technology	<a href="http://www.afst.valahia.ro">http://www.afst.valahia.ro</a>	ISSN: 2065-2828 (Print)	Valahia University Press	Romania	English	Technology: Home economics: Nutrition. Foods and food supply
Microbes and Health	<a href="http://journal.bsmp.org">http://journal.bsmp.org</a>	ISSN: 2226-0153 (Print); 2305-3542 (Online)	Bangladesh Society for Veterinary Microbiology and Public Health	Bangladesh	English	Medicine: Public aspects of medicine   Agriculture: Animal culture: Veterinary medicine
Open Biology	<a href="http://rsob.royalsocietypublishing.org/">http://rsob.royalsocietypublishing.org/</a>	ISSN: 2046-2441 (Online)	The Royal Society	United Kingdom	English	Science: Biology (General)
JMM Case Reports	<a href="http://jmmcr.sgmjournals.org/content/journal/jmmcr">http://jmmcr.sgmjournals.org/content/journal/jmmcr</a>	ISSN: 2053-3721 (Online)	Society for General Microbiology	United Kingdom	English	Medicine   Science: Microbiology

Influenza and Other Respiratory Viruses	<a href="http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1750-2659">http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1750-2659</a>	ISSN: 1750-2640 (Print); 1750-2659 (Online)	Wiley	United Kingdom	English	Medicine: Internal medicine: Specialties of internal medicine: Diseases of the respiratory system I
Iranian Journal of Basic Medical Science	<a href="http://www.mums.ac.ir/basic_medical/en/index">http://www.mums.ac.ir/basic_medical/en/index</a>	ISSN: 2008-3866 (Print); 2008-3874 (Online)	Mashhad University of Medical Sciences	Iran, Islamic Republic of	English	Medicine: Medicine (General)
Scientific Journal of Biological Sciences	<a href="http://www.sjournals.com/index.php/SJBS">http://www.sjournals.com/index.php/SJBS</a>	ISSN: 2322-1968 (Print)	Sjournals	Iran, Islamic Republic	English	Science: Biology (General)
International Journal of Life science and Pharma Research	<a href="http://www.ijlpr.com/">http://www.ijlpr.com/</a>	ISSN: 2250-0480 (Print)	IJLPR	India	English	Science: Science (General)
ISRN Microbiology	<a href="http://www.isrn.com/journals/microbiology/">http://www.isrn.com/journals/microbiology/</a>	ISSN: 2090-7478 (Print); 2090-7486 (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Microbiology
Czech Journal of Food Sciences	<a href="http://www.agriculturejournals.cz/web/cjfs.htm">http://www.agriculturejournals.cz/web/cjfs.htm</a>	ISSN: 1212-1800 (Print); 1805-9317 (Online)	Czech Academy of Agricultural Sciences	Czech Republic	English	Agriculture: Agriculture (General)   Technology: Chemical technology: Food processing and manufacture
Microbiology Indonesia	<a href="http://jurnal.permi.or.id/index.php/mionline">http://jurnal.permi.or.id/index.php/mionline</a>	ISSN: 1978-3477 (Print); 2087-8575 (Online)	Indonesian Society for Microbiology	Indonesia	English	Science: Microbiology
Klimik Journal	<a href="http://www.klimikdergisi.org/">http://www.klimikdergisi.org/</a>	ISSN: 1301-143X (Print); 1309-1484 (Online)	AVES Yayincilik	Turkey	English Turkish	Medicine: Medicine (General)
International Journal of Oral Science	<a href="http://www.nature.com/ijos/index.html">http://www.nature.com/ijos/index.html</a>	ISSN: 1674-2818 (Print); 2049-3169 (Online)	Nature Publishing Group	United Kingdom	English	
Pathogens	<a href="http://www.mdpi.com/journal/pathogens">http://www.mdpi.com/journal/pathogens</a>	ISSN: 2076-0817 (Print)	MDPI AG	Switzerland	English	Medicine: Internal medicine: Infectious and parasitic diseases I Science: Microbiology
Journal of Viruses	<a href="http://www.hindawi.com/journals/jvi/">http://www.hindawi.com/journals/jvi/</a>	ISSN: 2356-7716 (Print); 2314-646X (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Microbiology
Lifesciences Leaflets	<a href="http://lifesciencesleaflets.blogspot.com/">http://lifesciencesleaflets.blogspot.com/</a>	ISSN: 0976-1098 (Print)	Paavan Education Society, Danta	India	English	Science: Biology (General)
Open Virology Journal	<a href="http://www.bentham.org/open/tovj/">http://www.bentham.org/open/tovj/</a>	ISSN: 1874-3579 (Print)	Bentham open	United States	English	Science: Microbiology
Iranian Biomedical Journal	<a href="http://ibj.pasteur.ac.ir/">http://ibj.pasteur.ac.ir/</a>	ISSN: 1028-852X (Print); 2008-823X (Online)	Pasteur Institute of Iran	Iran, Islamic Republic of	English	Science: Biology (General)   Medicine: Medicine (General)
AIMS Molecular Science	<a href="http://www.aimspress.com/journal/Molecular">http://www.aimspress.com/journal/Molecular</a>	ISSN: 2372-028X (Print); 2372-0301 (Online)	AIMS Press	United States	English	Science: Science (General)
Infectious Disease Reports	<a href="http://www.pagepress.org/journals/index.php/idr/index">http://www.pagepress.org/journals/index.php/idr/index</a>	ISSN: 2036-7430 (Print); 2036-7449 (Online)	PAGEPress Publications	Italy	English	Medicine: Internal medicine: Infectious and parasitic diseases
Journal of Biomedical Research	<a href="http://www.jbr-pub.org">http://www.jbr-pub.org</a>	ISSN: 1674-8301 (Print)	Editorial Department of Journal of Biomedical Research	China	English	Medicine: Medicine (General)
Microbiology Research	<a href="http://www.pagepress.org/journals/index.php/mr">http://www.pagepress.org/journals/index.php/mr</a>	ISSN: 2036-7473 (Print); 2036-7481 (Online)	PAGEPress Publications	Italy	English	Science: Microbiology
Microbial Cell Factories	<a href="http://www.microbialcellfactories.com/">http://www.microbialcellfactories.com/</a>	ISSN: 1475-2859 (Print)	BioMed Central	United Kingdom	English	Science: Microbiology
Chinese Journal of Biology	<a href="http://www.hindawi.com/journals/cjbb/">http://www.hindawi.com/journals/cjbb/</a>	ISSN: 2314-7474 (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Biology (General)
VacciMonitor	<a href="http://www.finlay.sld.cu/vaccimonitor.htm">http://www.finlay.sld.cu/vaccimonitor.htm</a>	ISSN: 1025-028X (Print); 1025-0298 (Online)	1025-0298 (Online)	Finlay Ediciones	Cuba	Spanish Science: Microbiology I Medicine: Therapeutics. Pharmacology
Molecular and Cellular Therapies	<a href="http://www.molcelltherapies.com/">http://www.molcelltherapies.com/</a>	ISSN: 2052-8426 (Online)	BioMed Central	United Kingdom	English	Science: Biology (General): Genetics I Science: Biology (General): Cytology I Science: Microbiology
International Journal of Microbiology Research	<a href="http://www.bioinfo.in/contents.php?id=27">http://www.bioinfo.in/contents.php?id=27</a>	ISSN: 0975-5276 (Print); 0975-9174 (Online)	Bioinfo Publications	India	English	Science: Microbiology
BMC Microbiology	<a href="http://www.biomedcentral.com/bmcmicrobiol">http://www.biomedcentral.com/bmcmicrobiol</a>	ISSN: 1471-2180 (Print)	BioMed Central	United Kingdom	English	Science: Microbiology
Journal of Pathogens	<a href="http://www.hindawi.com/journals/jpath/">http://www.hindawi.com/journals/jpath/</a>	ISSN: 2090-3057 (Print); 2090-3065 (Online)	Corporation	Egypt	English	Medicine: Internal medicine: Infectious and parasitic diseases I Science: Microbiology

Botanical Studies	<a href="http://www.as-botanicalstudies.com/">http://www.as-botanicalstudies.com/</a>	ISSN: 1817-406X (Print)	Springer	Taiwan, Province of China	English	Science: Botany
South Asian Journal of Experimental Biology	<a href="http://sajeb.org">http://sajeb.org</a>	ISSN: 2230-9799 (Print)	Infofacility	India	English	Science: Biology (General)
Turkish Journal of Biology	<a href="http://journals.tubitak.gov.tr/biology/index.php">http://journals.tubitak.gov.tr/biology/index.php</a>	ISSN: 1300-0152 (Print); 1303-6092 (Online)	Scientific and Technical Research Council of Turkey	Turkey	English	Science: Biology (General)
PLoS Pathogens	<a href="http://www.plospathogens.org/">http://www.plospathogens.org/</a>	ISSN: 1553-7366 (Print); 1553-7374 (Online)	Public Library of Science (PLOS)	United States	English	Science: Microbiology   Medicine: Internal medicine: Infectious and parasitic diseases
Journal of Oral Microbiology	<a href="http://www.journaloforalmicrobiology.net/index.php/jom/index">http://www.journaloforalmicrobiology.net/index.php/jom/index</a>	ISSN: 2000-2297 (Print)	Co-Action Publishing	Sweden	English	Science: Microbiology
Parasites & Vectors	<a href="http://www.parasitesandvectors.com/home">http://www.parasitesandvectors.com/home</a>	ISSN: 1756-3305 (Print)	BioMed Central	United Kingdom	English	Science: Microbiology   Medicine: Internal medicine: Infectious and parasitic diseases
Egyptian Academic Journal of Biological Sciences : Microbiology	<a href="http://microbiology.eajbs.eg.net/">http://microbiology.eajbs.eg.net/</a>	ISSN: 2090-0872 (Print);	Ain Shams University	Egypt	English	Science: Microbiology 2090-0880 (Online)
Biodiversity Science	<a href="http://www.biodiversity-science.net/EN/volumn/home.shtml">http://www.biodiversity-science.net/EN/volumn/home.shtml</a>	ISSN: 1005-0094 (Print)	Science Press	China	Chinese, English	Science: Biology (General)
International Journal of Applied Biology and Pharmaceutical Technology	<a href="http://www.ijabpt.com">http://www.ijabpt.com</a>	ISSN: 0976-4550 (Print)	International Journal of Applied Biology and Pharmaceutical Technology	India	English	Medicine: Therapeutics. Pharmacology
The Microbes	<a href="http://www.themicrobes.net">http://www.themicrobes.net</a>	ISSN: 2321-3728 (Print)	The Microbes	India	English	Science: Microbiology
Italian Journal of Food Science	<a href="http://www.chiriottieditori.it/ojs/index.php/IJFS/index">http://www.chiriottieditori.it/ojs/index.php/IJFS/index</a>	ISSN: 1120-1770 (Print)	ChiriottiEditori	Italy	English	Technology: Home economics: Nutrition. Foods and food supply   Technology: Chemical
Iranian Journal of Microbiology	<a href="http://ijm.tums.ac.ir">http://ijm.tums.ac.ir</a>	ISSN: 2008-3289 (Print); 2008-4447 (Online)	Shahrood University of Medical Sciences	Iran, Islamic Republic of	Persian English	Science: Microbiology
Analele Stiintifice ale Universitatii Alexandru Ioan Cuza din Iasi, Sectiunea II A : Geneticasi Biologie Moleculara	<a href="http://www.gbm.bio.uai.ro/index.php/gbm">http://www.gbm.bio.uai.ro/index.php/gbm</a>	ISSN: 1582-3571 (Print)	Alexandru Ioan Cuza University of Iasi	Romania	French, English	Science: Biology (General): Genetics
Annals of Tropical Medicine and Public Health	<a href="http://www.atmph.org">http://www.atmph.org</a>	ISSN: 1755-6783 (Print); 0974-6005 (Online)	Medknow Publications	India	English	Medicine: Internal medicine: Special situations and conditions: Arctic medicine. Tropical medicine
Studia Universitatis Moldaviae: Stiintele ale Naturii	<a href="http://studiamsu.eu/stiinte-ale-naturii/">http://studiamsu.eu/stiinte-ale-naturii/</a>	ISSN: 1814-3237 (Print); 1857-498X (Online)	Moldova State University	Moldova, Republic of		Science: Biology (General)   Science: Chemistry
mBio	<a href="http://mbio.asm.org/">http://mbio.asm.org/</a>	ISSN: 2150-7511 (Online)	American Society for Microbiology	United States	English	Science: Microbiology
International Journal of Biological Sciences	<a href="http://www.biolsci.org/index.htm">http://www.biolsci.org/index.htm</a>	ISSN: 1449-2288 (Print)	Ivyspring International Publisher	Australia	English	Science: Biology (General)
Microbial Informatics and Experimentation	<a href="http://www.microbialinformaticsj.com/">http://www.microbialinformaticsj.com/</a>	ISSN: 2042-5783 (Print)	BioMed Central	United Kingdom	English	Science: Microbiology
Indian Journal of Medical Microbiology	<a href="http://www.ijmm.org/">http://www.ijmm.org/</a>	ISSN: 0255-0857 (Print); 1998-3646 (Online)	Medknow Publications	India	English	Science: Microbiology
Evolution Medicine and Public Health	<a href="http://emph.oxfordjournals.org/">http://emph.oxfordjournals.org/</a>	ISSN: 2050-6201 (Print)	Oxford University Press	United Kingdom	English	General Works
Journal of Advanced Laboratory Research in Biology	<a href="http://www.sospublication.co.in/jalrb.php?jid=1">http://www.sospublication.co.in/jalrb.php?jid=1</a>	ISSN: 0976-7614 (Print)	We-together to save yourself	India	English	Science: Biology (General)
Iranian Journal of Applied Animal Science	<a href="http://www.ijas.ir">http://www.ijas.ir</a>	ISSN: 2251-628X (Print); 2251-631X (Online)	Islamic Azad University	Iran, Islamic Republic of	English	Agriculture: Animal culture
Biotechnology Frontier	<a href="http://www.ivypub.org/bf">http://www.ivypub.org/bf</a>	ISSN: 2327-0837 (Print); 2327-0888 (Online)	Ivy Publisher	United States	Chinese, English	Technology: Chemical technology: Biotechnology

Scientifica	<a href="http://www.hindawi.com/journals/scientifica">http://www.hindawi.com/journals/scientifica</a>	ISSN: 2090-908X (Online)	Hindawi Publishing Corporation	Egypt	English/	Medicine: Medicine (General)   Science: Biology (General)
Journal of Applied Botany and Food Quality	<a href="http://pub.jki.bund.de/index.php/JABFQ/index">http://pub.jki.bund.de/index.php/JABFQ/index</a>	ISSN: 1613-9216 (Print); 1439-040X (Online)	Association for Applied Botany e. V., German Society for Quality Research on Plant Foods (DGQ)	Germany	English	Science: Botany   Technology: Home economics: Nutrition. Foods and food supply
Revista Cubana de Ciencias Biológicas	<a href="http://www.rccb.uh.cu">http://www.rccb.uh.cu</a>	ISSN: 2307-695X (Online)	Universidad de La Habana	Cuba	Spanish; Castilian	Science: Biology (General)
Scientific Journal of Microbiology	<a href="http://www.sjournals.com/index.php/SJMi">http://www.sjournals.com/index.php/SJMi</a>	ISSN: 2322-2948 (Print)	Sjournals	Iran, Islamic Republic of	English	Science: Microbiology
Advances in Virology	<a href="http://www.hindawi.com/journals/av/">http://www.hindawi.com/journals/av/</a>	ISSN: 1687-8639 (Print); 1687-8647 (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Microbiology
Clinical Cancer Investigation Journal	<a href="http://www.cci-journal.org">http://www.cci-journal.org</a>	ISSN: 2278-1668 (Print); 2278-0513 (Online)	Wolters Kluwer Health and Medknow Publications	India	English	Medicine: Internal medicine: Neoplasms. Tumors. Oncology. Including cancer and carcinogens
Biotechnology and Molecular Biology Review	<a href="http://www.academicjournals.org/bmbr">http://www.academicjournals.org/bmbr</a>	ISSN: 1538-2273 (Print)	Academic Journals	Nigeria	English	Technology: Chemical technology: Biotechnology
Bistua : Revista de la Facultad de Ciencias Básicas	<a href="http://www.redalyc.org/revista.oa?id=903">http://www.redalyc.org/revista.oa?id=903</a>	ISSN: 0120-4211 (Print)	Universidad de Pamplona	Colombia	English, Spanish	Science: Science (General)
Advances in Biology	<a href="http://www.hindawi.com/journals/ab/">http://www.hindawi.com/journals/ab/</a>	ISSN: 2356-6582 (Print); 2314-7563 (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Biology (General)
Scientific Journal of Veterinary Advances	<a href="http://www.sjournals.com/index.php/SJVA">http://www.sjournals.com/index.php/SJVA</a>	ISSN: 2322-1879 (Print)	Sjournals	Iran, Islamic Republic of	English	Agriculture: Animal culture: Veterinary medicine
International Journal of Microbiology	<a href="http://www.hindawi.com/journals/ijmicro/">http://www.hindawi.com/journals/ijmicro/</a>	ISSN: 1687-918X (Print); 1687-9198 (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Microbiology
International Microbiology	<a href="http://www.im.microbios.org/">http://www.im.microbios.org/</a>	ISSN: 1139-6709 (Print); 1618-1905 (Online)	Viguera Editores, S.L.	Spain	English	Science: Microbiology
Revista de Salud Animal	<a href="http://scielo.sld.cu/scielo.php?script=sci_serial&amp;pid=0253-570X&amp;lng=es&amp;nrm=iso">http://scielo.sld.cu/scielo.php?script=sci_serial&amp;pid=0253-570X&amp;lng=es&amp;nrm=iso</a>	ISSN: 0253-570X (Print); 2224-4700 (Online)	Sanidad Agropecuaria Centro Nacional de	Cuba	English	Agriculture: Animal culture
BIO Web of Conferences	<a href="http://www.bio-conferences.org">http://www.bio-conferences.org</a>	ISSN: 2117-4458 (Online)	EDP Sciences	France	French, English	Science: Biology (General)   Science: Microbiology   Science: Physiology   Science: Zoology   Science: Botany
Journal of the Faculty of Veterinary Medicine	<a href="http://vfdergi.yyu.edu.tr/">http://vfdergi.yyu.edu.tr/</a>	ISSN: 1017-8422 (Print); 1308-3651 (Online)	Yuzuncu Yil University	Turkey	English	Agriculture: Animal culture: Veterinary medicine
Journal of Global Infectious Diseases	<a href="http://www.jgid.org/">http://www.jgid.org/</a>	ISSN: 0974-777X (Print); 0974-8245 (Online)	Medknow Publications	India	English	Medicine: Internal medicine: Infectious and parasitic diseases
Japanese Journal of Medical Mycology	<a href="http://www.jsmm.org/magazine/magazine.html">http://www.jsmm.org/magazine/magazine.html</a>	ISSN: 0916-4804 (Print)	Japanese Journal of Medical Mycology	Japan	Japanese, English	Medicine: Medicine (General)   Science: Microbiology
Open Microbiology Journal	<a href="http://www.bentham.org/open/tomicroj/">http://www.bentham.org/open/tomicroj/</a>	ISSN: 1874-2858 (Print)	Bentham open	United States	English	Science: Microbiology
Virus Adaptation and Treatment	<a href="http://www.dovepress.com/virus-adaptation-and-treatment-journal">http://www.dovepress.com/virus-adaptation-and-treatment-journal</a>	ISSN: 1179-1624 (Online)	Dove Medical Press	United Kingdom	English	Science: Microbiology
Microbiologia Medica	<a href="http://www.pagepressjournals.org/index.php/mm">http://www.pagepressjournals.org/index.php/mm</a>	ISSN: 2280-6423 (Online)	PAGE Press Publications	Italy	English, Italian	Science: Microbiology
Avicenna Journal of Clinical Microbiology and Infection	<a href="http://ajcmicrob.com/">http://ajcmicrob.com/</a>	ISSN: 2383-0298 (Print); 2383-0301 (Online)	Hamadan University of Medical Sciences	Iran, Islamic Republic of	English	Medicine: Internal medicine: Infectious and parasitic diseases
Biomolecular Detection and Quantification	<a href="http://www.journals.elsevier.com/biomolecular-detection-and-quantification/">http://www.journals.elsevier.com/biomolecular-detection-and-quantification/</a>	ISSN: 2214-7535 (Print)	Elsevier	Germany	English	Science: Biology (General)   Science: Microbiology
Journal of Phytology	<a href="http://scienceflora.org/journals/index.php/jp/">http://scienceflora.org/journals/index.php/jp/</a>	ISSN: 2075-6240 (Print)	SILAE, Italy	Italy	English	Science: Botany
Archaea	<a href="http://www.hindawi.com/journals/archaea/">http://www.hindawi.com/journals/archaea/</a>	ISSN: 1472-3646 (Print); 1472-3654 (Online)	Hindawi Publishing Corporation	Egypt	English	Science: Microbiology

Tropical Life Sciences Research	http://www.tlsr.usm.my/	ISSN: 1985-3718 (Print); 2180-4249 (Online)	UniversitiSains Malaysia Press	Malaysia	Bahasa	Malaysia, English Science: Biology (General)
Microorganisms	http://www.mdpi.com/journal/microorganisms	ISSN: 2076-2607 (Print)	MDPI AG	Switzerland	English	Science: Microbiology
Open Immunology Journal	http://www.bentham.org/open/toij/	ISSN: 1874-2262 (Print)	Bentham open	United States	English	Medicine: Internal medicine: Specialties of internal medicine: Immunologic
ISRN Virology	http://www.hindawi.com/isrn/virology/	ISSN: 2090-8814 (Print)	Hindawi Publishing Corporation	Egypt	English	Medicine: Medicine (General)
Memórias do Instituto Oswaldo Cruz.	http://www.scielo.br/scielo.php?pid=0074-0276&script=sci_serial	ISSN: 0074-0276 (Print); 1678-8060 (Online)	Instituto Oswaldo Cruz, Ministério da Saúde	Brazil	Portuguese, Spanish,	English Science: Microbiology   Medicine: Internal medicine: Special situations and conditions: Arctic medicine. Tropical medicine
ActaProtozoologica	http://www.eko.uj.edu.pl/ap/	ISSN: 0065-1583 (Print); 1689-0027 (Online)	agiellonian University	Poland	English	Science: Biology (General): Ecology   Science: Microbiology
Brazilian Journal of Microbiology	http://www.scielo.br/bjm	ISSN: 1517-8382 (Print); 1678-4405 (Online)	Sociedade Brasileira de Microbiologia	Brazil	Portuguese, English	Science: Microbiology
Revista CENIC : Ciencias Biológicas	http://www.redalyc.org/revista.oa?id=1812	ISSN: 0253-5688 (Print); 2221-2450 (Online)	Centro Nacional de Investigaciones Científicas	General Works		
Microbiology Open	http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)2045-8827	ISSN: 2045-8827 (Online)	Wiley	United Kingdom	English	Science: Microbiology
Angewandten Biologie Forschung	http://www.ctbscience.com	ISSN: 2321-1733 (Print)	Ingenious Knowledge Solutions		India English	Science: Biology (General)
International Journal of Food and Allied	http://ijfaas.com/index.php/ijfaas	ISSN: 2413-2543 (Online)	Bahauddin Zakariya University	Pakistan	English	Agriculture: Agriculture (General)   Technology: Home economics: Nutrition. Foods and food supply Sciences

## □ Country Wise Distribution

Table 2 shows the country wise distribution of Microbiology e-journals found in DOAJ. It is clear from the table that India is the highest number ranking i. e., 19 open access e-journals publishes microbiology free open access e-journals, followed by United Kingdom is the second ranking i.e., 17 open e-journals, and USA publishes 11 open access e-journals. Here it is clear that Indian contribution in the field of Microbiology is more.

Table 2: Country Wise Distribution of E-Journals on Microbiology

Name of the Country	E-Journals	%age	Rank
Argentina	1	0.0074	11
Australia	1	0.0074	11
Bangladesh	1	0.0074	11
Brazil	4	0.029	8
China	3	0.022	7
Colombia	1	0.0074	11
Cuba	4	0.029	8
Czech Republic	1	0.0074	11
Egypt	11	0.080	5
France	1	0.0074	11
Germany	2	0.014	10
India	19	0.14	1
Indonesia	2	0.014	10
Iran	13	0.095	3
Italy	5	0.036	7
Japan	1	0.014	10

Malaysia	2	0.014	10
Moldoves	1	0.0074	11
Morocco	1	0.0074	11
Nepal	1	0.0074	11
Netherlands	1	0.0074	11
Newsstand	4	0.029	8
Nigeria	1	0.0074	11
Pakistan	2	0.014	10
Poland	1	0.0074	11
Romania	2	0.014	10
Slovakia	2	0.014	10
Spain	1	0.0074	11
Sweden	3	0.022	9
Switzerland	5	0.037	7
Taiwan	1	0.0074	11
Turkey	7	0.052	6
United Kingdom	17	0.12	2
Ukraine	1	0.0074	11
USA	11	0.082	4
Total	134	100	

## □ Language Wise Distribution

Table 3 reveals the language wise publication of open access e-journals on Microbiology. There are 16 languages publishing the Microbiology e-journals worldwide. Out of 16 languages, English is the most dominate language and Spanish is the next top

language. It is clear from the table that Romanian, Italian, Castilian, Japanese publish single journals.

Table 3: Language Wise Distribution of E-Journals on Microbiology

Languages	E-journals	Rank
English	129	1
Portages	3	4
Spanish	6	2
Russian	2	5
Ukrainian	1	6
Indonesian	1	6
Persian	3	4
Turkish	2	5
French	4	3
Chinese	2	5
Romanian	1	6
Italian	1	6
Bahasa Malaysia	1	6
Castilian	1	6
Moldavian; Moldovan	1	6
Japanese	1	6

### □ List of Subject Headings

Table 4 shows the subject wise distribution of e-journals in the field of Microbiology published in DOAJ. It is clear from the table that a majority 65 of thee-journals are published in the core are Science, Microbiology, followed by in Biology, 29 e-journals publishes under this subject heading. It is shown by table that Microbiology is an interdisciplinary subject with Medicine and its sub fields, General Science, Botany and Zoology etc.

Table4: List of Subject Headings of E-Journals on Microbiology

Subject Headings	E-journals
Medicine: Therapeutics. Pharmacology	3
Science: Microbiology	65
Medicine: Dentistry	1
Science: Biology (General)	29
Medicine: Public aspects of medicine	2
Cytology	2
Medicine: Medicine (General	13
Medicine: Internal medicine: Infectious and parasitic diseases   Science: Microbiology	12
Pathology	1
Technology: Chemical technology: Biotechnology	5
Science: Botany (General)	5
Technology: Home economics: Nutrition. Foods and food supply   Science: Microbiology	6
General Works	3
Agriculture: Agriculture (General)	3
Agriculture: Animal culture: Veterinary medicine	6
Geography. Anthropology. Recreation: Environmental sciences	1
Medicine: Internal medicine: Infectious and parasitic diseases	1
Medicine: Internal medicine: Specialties of internal medicine: Diseases of the respiratory system	1
Medicine: Otorhinolaryngology	1
Science: Chemistry	1
Medicine: Internal medicine: Neoplasms. Tumors. Oncology. Including cancer and carcinogens	1
Science: Physiology	1
Science: Zoology	1
Geography	1

### FINDINGS

- It is found from the study that there are 134 e-journals in the field of Microbiology published in DOAJ.
- It is observed from the study that Indian contributions are more in DOAJ.
- It is revealed from the study that English is the dominating language and Spanish is the net dominated language.
- It is found from the study that Microbiology is co-relation with Medicine and its sub fields, science and other branches of Science subjects.

### CONCLUSION

Microbiology is the interdisciplinary subject in science and presently it is the most popular subject and many research activities are conduct by the scientists. It is in co-relation with many subject such as Medicine, Biotechnology and other branches of science and it is found in this study. In the present study it is found that 134 e-journals are available in DOAJ. It is also found from the study that India, UK, USA are the three dominating countries which publish Microbiology journals in DOAJ. English is the dominant language among the 16 languages.

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