‘Open Access Publishing with BioMed Central’

30th April 2014 – Marmara University

BioMed Central/SpringerOpen
The old world of information...
The new world of information...

http://environmentalstudies.vas sar.edu/major/fieldwork.html
Agenda

• Overview of open access
• Benefits of open access
• Open access at Springer
• Open access at Marmara University
## Two routes to open access (OA)

**Green Open Access Route**
- Self-archiving of accepted author version publication in a repository
- Embargo periods may apply
- An estimated 12% of all scholarly articles are available through some form of ‘Green’ OA

**Gold Open Access Route**
- Completely OA journals and OA option within subscription journals
- OA content is available to everyone everywhere in exchange for an article processing charge
- Eliminates restrictive barriers (license restrictions)
Open access publishing

Different business model.....

• no subscription barriers
• universal access
• research is openly licensed to allow reuse

Same quality and standards

• Editors in chief
• Editorial boards
• Peer review
• Indexing
• Impact Factors
Open Access Today

• Open access to research mandatory in 200+ institutions and by 80 funders in 47 countries
• 3,375 repositories in 101 countries
• Over 10,000 open access journals in the DOAJ
• 1,594,028 articles published in OA journals
• Almost 1000 open access journals now have an Impact factor
• 8.5% of peer reviewed articles now published in fully open access form*

*Study of open access – Bo Christer Bjork, PLOS One
(source ROARMAP, ROAR & DOAJ at March 1, 2013)
İzmir Yüksek Teknoloji Enstitüsü

Senato Karar Tarihi: 08.10.2013

İZMİR YÜKSEK TEKNOLOJİ ENİSTİTÜSÜ
AÇIK ERIŞİM POLİTİKASI

POLİTİKΑ BAŞLIĞI:

İzmir Yüksek Teknoloji Enstitüsü (IYTE) bünnesinde yapılan akademik çalışmalar için açık erişim, kurumsal arşivlerine, uzun dönemli derlemenin ve dijital koruma.

BAĞLAM:

Özellikle ileri düzeyde eğitim öğretim, araştırma, üretim, yayın ve danışmanlık yapmak üzere 1992 yılında kurulmuş olan IYTE, Türkiye Cumhuriyeti’nin辜arlannarına ve karmaşasına hizmet edecek, sanayinin ve toplumun ihtiyaçlarına cevap verecek nitelikte eğitim vermesi, araştırmalar yapmayı ve araştırma sonuçlarının mümkün olan en geniş çevrelerine sunulmasını ilke edinmiştir. Bir devlet üniversitesi olarak IYTE, lisans ve lisansüstü seviyelerde; araştırmacı, yaratıcı ve girişimi, eleştirel düşünmeye yetkin ve karar verme beceri, ekip çalışmasında başarlı, kendi teknolojimizin üretilmesine katkıda olacak, hammadde kaynaklarınıımızı değerlendirerek, kârına değer yüksek ürete ve önlemler de ve, kendi iş ortamını yaratacak bilim insanları, mühendisler, mimarlar ve planar yetişmerek ülkemizde katkıda bulunmayı hedeflemekte ve bir araştırma üniversitesi olarak geniş kiteleri karşı taşdıgı sorunların önemini çok iyi bilmektedir.

Türkiye’nin sanayi alanında gélişimi ve Türkiye ekonomisinin geleceği, yeni teknolojielere yönelik gelişmesine ve bu teknolojilerin geliştirilmesinde önana aktif rolü bağlı olacaktır. Burun içindeki, ilerleyenlerde; özellikle teknoloji alanında üst düzeyde eğitim-öğretim ve araştırma yapma temel amacıyla benimsenen en gelişmiş teknik üniversite modeli, teknoloji enstitüleridir. Ulkemizde böyle bir misyonu yüklenmesi için kurulan iki teknoloji enstitüsünden biri olan IYTE’nin akademik çalışmalarını açık erişim olarak paylaşıması, bu çalışmaların görünürüğünü ve tamamını anlattırmı mümkün kılacak, yapılabacak yeni araştırmalarla karu ve özel sektörden daha fazla proje destekli sağlanmasına olanak tanıyacaktır. Bu nedenle IYTE, mensuplarına alt akademik çalışmalarını mümkün olan en geniş kitelerle ulaşılabilirlik bir açık erişim mekanizması ve bu kapsamda hizmet verecek bir açık erişim arşiv karar vermiştir. IYTE Kütüphanesi, üniversite araştırmalarına alt çalışmaların uygun formattarda dönülenmedesinde, uzun dönemli korunmasında ve en geniş şekilde erişine sunulmasına stratejik bir rol oynayacaktır.
DSpace Repository

DSpace@IZTECH showcases and preserves the scholarly work of anyone affiliated with Izmir Institute of Technology (faculty, staff, students or groups and organizations) established by the Library to support the dissemination or knowledge by the University community to the wider community locally and globally. Whenever possible, the outputs available from Dspace@IZTECH can be downloaded or viewed online, free of charge. This ensures the widest possible dissemination for the outputs of IZTECH researchers and contributes to the growing body of research literature that is now freely available online. The repository software used for Dspace@IZTECH is using is called Dspace, an open source software originally developed by MIT in the USA. Please contact the Dspace@IZTECH coordinator with any questions.

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- Distance Education / Uzaktan Eğitim
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- Faculty of Engineering / Mühendislik Fakültesi
- Faculty of Science / Fen Fakültesi
- OpenAIRE

Search DSpace

Enter some text in the box below to search DSpace.

[Go]
The Changing Landscape of OA Publishing

2000

BioMed Central
The Open Access Publisher

PLOS

ccAction Publishing

SAGE open

Cell Reports

eLIFE

2013

BioMed Central
The Open Access Publisher

Blackwell Publishing
Online Open

Hindawi

SpringerOpen

DOVE Medical Press

mBio

ATLANTIS Press

WILEY Open Access

EXIS Open Choice

Libertas Academica

ACS AuthorChoice Free Access

SCIENTIFIC JOURNAL INTERNATIONAL
Overall open access market growth: fully open access journals

Directory of Open Access Journals 2005 to 2012
Growth of OA articles


- Published in online-only journals with an article-processing charge
- Published in online-only journals without an article-processing charge
- Published in subscription-based print journals with open access content online
Growth in Submissions and Publications
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Why Open Access?

• Breaks down barriers between disciplines
• Promotes public engagement with scientific and medical research
• Creates an open global forum for scientific communication

• For researchers:
• Very high visibility
• Widely indexed
• No barriers to dissemination (also social sharing) and access to research
• Higher citations
Authors, funders, and universities: visibility

1. Metabolic adaptation to weight loss: implications for the athlete
   Eric T. Trexler, Abbie E. Smith-Ryan, Layne E. Norton
   [Abstract] [Full text] [PDF] [ePUB] [PubMed] [Editor's summary]

2. Does are sensitive to small variations of the Earth's magnetic field
   Vladimír Hant, Petra Nováková, Enich Makemper, Sabine Beggli, Vladimír Hanzal, Miroslav Ježek, Tomáš Kudlí, Veronika Němcová, Jana Adamková, Kateřina Benediktová, Jaroslav Červený, Hynek Buda
   *Frontiers in Zoology* 2013, 10:80 (27 December 2013)
   [Abstract] [Full text] [PDF] [ePUB] [PubMed] [2 comments]

3. Nutrient timing revisited: is there a post-exercise anabolic window?
   Alan Albert Aragon, Brad J. Schoenfeld
   [Abstract] [Full text] [PDF] [ePUB] [PubMed] [Cited on BioMed Central] [Editor's summary]

4. Decoding the massive genome of loblolly pine using haploid DNA and novel assembly strategies
   *Genome Biology* 2014, 15:R59 (20 March 2014)
   [Abstract] [Provisional PDF] [Editor's summary]
Visibility for BioMed Central authors

• 20 million page views a month
• 4 million user sessions per month
• Over 1 million registered users
• Over 400,000 recipients to fortnightly BioMed Central newsletter
• 13,000 new registrants a month
• Springer platform (16,000 customers, 13 million users)
Editors/journal owners...

• More and more journals transfer to OA publication
• Wider dissemination and more international reach
• Increase in number and quality of submissions
• Improvement of bibliometric performance / impact factor
• Increasing demand from authors within mandating institutions/funding bodies
• APCs can be lower than colour or page charges in subscription journals
Editor’s quote

“Acta Veterinaria Scandinavica moved to BioMed Central in 2006, along with its Impact Factor. As an effect of the much improved visibility of the journal’s content we have seen a significant rise in submissions, often from countries where researchers would not have considered publishing with us in the past.”

Mats Forsberg, Editor-in-Chief (2005 – 2012)
Case study 1: *Acta Veterinaria Scandinavica*

- Fifty year old journal
- Transferred 2006
- Impact Factor has increased more than 3x due to open access effect
BioMed Central Impact Factors

![Bar chart showing the impact factors for BioMed Central from 2000 to 2013. The impact factors start low in the early years and increase significantly towards the end of the period.]
# BioMed Central Impact Factors

<table>
<thead>
<tr>
<th>Journal Name</th>
<th>Impact Factor</th>
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</thead>
<tbody>
<tr>
<td>Genome Biology</td>
<td>10.3</td>
</tr>
<tr>
<td>BMC Biology</td>
<td>6.53</td>
</tr>
<tr>
<td>BMC Genomics</td>
<td>4.40</td>
</tr>
<tr>
<td>BMC Medicine</td>
<td>6.68</td>
</tr>
<tr>
<td>BMC Public Health</td>
<td>2.08</td>
</tr>
<tr>
<td>Breast Cancer Research</td>
<td>5.87</td>
</tr>
<tr>
<td>Critical Care</td>
<td>4.72</td>
</tr>
<tr>
<td>Stem Cell Research &amp; Therapy</td>
<td>3.65</td>
</tr>
<tr>
<td>BMC Plant Biology</td>
<td>4.65</td>
</tr>
<tr>
<td>Journal of Translational Medicine</td>
<td>3.46</td>
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<tr>
<td>Malaria Journal</td>
<td>3.40</td>
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<tr>
<td>Parasites &amp; Vectors</td>
<td>3.25</td>
</tr>
<tr>
<td>Arthritis Research &amp; Therapy</td>
<td>4.30</td>
</tr>
<tr>
<td>Retrovirology</td>
<td>6.47</td>
</tr>
</tbody>
</table>
Agenda

- Overview of open access
- Benefits of open access
- Open access at Springer
- Open access at Marmara University
### Open Access publishing at Springer

<table>
<thead>
<tr>
<th>Author Rights / Green route</th>
<th>Hybrid open access</th>
<th>‘Full’ OA</th>
</tr>
</thead>
</table>
| • Self-archiving of author’s accepted version | • Springer Open Choice  
• Creative Commons | • Books (NEW!)  
• Creative Commons |

Creative Commons Attribution (CC BY) license for journal articles  
Creative Commons Attribution Non-Commercial (CC BY-NC) license for books
BioMed Central

- Launched first open access journal in 2000
- Now publishes 260+ OA titles
- Over 140,000 peer-reviewed OA articles published
- More than 10 million article downloads per month
- Creative Commons
- Costs covered by 'article processing charge' (APC)
- Became part of Springer in 2008
- SpringerOpen
• Open access journals covering all disciplines

• Creative Commons

• 127 journals already, 15 already have impact factors

• Administered by BioMed Central
SpringerOpen subject fields

- Engineering: 13
- Medicine: 10
- Mathematics: 8
- Computer Science: 5
- Chemistry: 5
- Environmental Sciences: 5
- Earth Sciences & Geography: 4
- Materials: 4
- Life Sciences: 3
- Economics: 2
- Biomedical Sciences: 2
- Astronomy: 1
- Education & Language: 1
- Social Sciences: 1
- Business & Management: 1
- Natural Sciences/general: 1
- Psychology: 1
- Physics: 1
Models of Open Access Publishing

- **'Gold' Open Access**
  - Article freely available from publisher website

- **'Green' Open Access**
  - Self-archiving of author manuscript on author website, institutional or subject-based repositories

- **'Full' Open Access**
  - Whole journal is published Open Access

- **Author Payment**
  - Author/funder/institution pays for publishing

- **'Hybrid' Open Access**
  - Article level Open Access option in subscription journals

- **Sponsored**
  - Journal sponsored by a non-profit institution or organization
The business model

• No subscription revenue
• Small amount of revenue from reprints and advertising.
• Revenue from APCs - payable on editorial acceptance of articles
• APCs paid from:
  – research grants
  – by research funders
  – universities
  – societies
  – governmental agencies
  – charities
• Membership...
Article-processing charges

The article-processing charge covers:

- **Editorial**: handling of manuscripts
- **Technical**: development, maintenance and operation of online journal platforms and manuscript handling systems
- **Production**: Formatting and mark up of articles, inclusion in indexing services
- **Marketing**: Making sure readers and authors know about the journal
- **Customer service**: Responding to authors/readers

No extra charge for inclusion of colour figures, videos/animations or large data sets (no limits on article length)
## BioMed Central and SpringerOpen Institutional Agreements

### Prepay Agreement
- Organisation covers the article cost (APC) for their researchers by deposit
- No membership fee
- Researchers do not pay anything
- Discount on the APC for institution
- Deposit available without time limits

### Shared Support Agreement
- Cost shared equally between institution and researcher
- No membership fee
- Additional discount on APC’s for researchers
- Deposit available without time limits

### Supporter Agreement
- Organisation does not cover the APC for the researchers
- Annual membership fee for institution
- 15% discount on APC’s – researchers pay less

### For all agreement types:
- Automated article feeds
- Institutional Members Page
- Marketing and PR support
- Automatic IP recognition or submission by code
BioMed Central now has 469 Members in 52 countries. Browse our Members and their pages by country below, or search for a particular organization using the search box on the right. Each Member's page lists the articles published by its authors in a BioMed Central, Chemistry Central and SpringerOpen journal.

Further information on all Membership types can be found [here](#).

<table>
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<th>Country</th>
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<td>Austria (6)</td>
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<td>Brazil (4)</td>
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<td>India (8)</td>
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<td>Ireland (1)</td>
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<td>Israel (1)</td>
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<td>United Kingdom (49)</td>
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<tr>
<td>United States of America (160)</td>
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Flawed sting operation singles out open access journals

by Martin Eve, The Conversation

In a sting operation, John Bohannon, a correspondent of Science claims to have exposed dodgy open access journals. His argument seems to be that, because of their business model, some journals are biased towards accepting scientific articles, regardless of their quality. Sadly, Bohannon's operation adds little to what we already know.
What happened?

• Versions of a fake science paper submitted to 304 Open Access journals, claiming miracle cure for cancer had been found
• Papers include very serious mistakes; experiments are obviously flawed and therefore meaningless
• Of 304 journals..
  – 255 said that they would review the study
  – 157 journals accepted the paper to be published.
What does this mean?

• Bad news for Open Access?
  *The study did not include any non-OA journals*
  *Where is the fair comparison??*

• Peer Review system is flawed

• It's the ethics of the publisher / journal, not the business model that determines quality and sound publishing and peer review

• BioMed Central, Plos and Hindawi rejected the paper

• Remember to please be aware of....
Predatory Open Access Publishers

**Beall’s List:** Potential, possible, or probable predatory scholarly open-access publishers

- Ethical standards established by membership organisations such as OASPA (Open Access Scholarly Publishers Association) or COPE
- Editor and staff
- Business management
- Integrity
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Acceptance rate

- 2010: 44.44%
- 2011: 40%
- 2012: 5.55%
- 2013: 9.09%
Most popular journals for submissions at MU / BMC and SpringerOpen

- BMC Family Practice
- BMC Cardiovascular Disorders
- BMC Anesthesiology
- Annals of Clinical Microbiology and...
- SpringerPlus
- Journal of Industrial Engineering International
- Italian Journal of Pediatrics
- International Journal of Health Geographics
- BMC Public Health
- BMC Medical Informatics and Decision Making
- Arthritis Research & Therapy
- Radiation Oncology
- BMC Health Services Research
Section Editors
Dina Bobonova, London School of Hygiene and Tropical Medicine
Anna Gagliardi, University of Toronto
Marie-Pierre Gagnon, Laval University
Kinderen Howard, University of Sydney
Stephen Jay, The George Institute
Jany Rademakers, NIVEL - Netherlands Institute for Health Services Research
Hendrik Vondeling, Twente University

Executive Editor
Christopher Morrey, BioMed Central

Scope
BMC Health Services Research is an open access, peer-reviewed journal that considers articles on all aspects of health services research, including delivery of care, management of health services, assessment of healthcare needs, measurement of outcomes, allocation of healthcare resources, evaluation of different health markets and health services organizations, international comparative analysis of health systems, health economics and the impact of health services.
Proportion of articles published in IF - journals

- Impact Factor: 75%
- no Impact Factor: 25%
Publications from Marmara University in all of Springer

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Publications</th>
<th>Traditional</th>
<th>Open Access</th>
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<td>2007</td>
<td>250</td>
<td>240</td>
<td>10</td>
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<td>2012</td>
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<td>10</td>
</tr>
<tr>
<td>2013</td>
<td>230</td>
<td>220</td>
<td>10</td>
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Subject areas for open access articles at Springer published by MU authors

- Medical School
- Faculty of Engineering
- School of Engineering
- Vocational School of Health Related Professions
- Department of Physics
- Department of Mathematics
- Faculty of Dentistry
- Faculty of Economics and Administrative Science
- Marmara Research Center (MRC)
- Faculty of Education
- Department of Chemistry
- Faculty of Pharmacy
- Department of Biology
- Faculty of Education (blank)
Subject areas for traditional journals at Springer published by MU researchers

- Medical School
- Faculty of Pharmacy
- Department of Chemistry
- School of Engineering
- Faculty of Education
- Institute For Graduate Studies In Pure and...
Top 20 authors for traditional publishing at Springer

- Direkseneli, Haner
- Şener, Göksel
- Birol, Y
- Alpay, Harika
- Erçan, F.
- Yüksel, Meral
- Rollas, Sevim
- Kılıç, Türker
- Dane, Faysal
- Tozun, Nurdan
- Tahan, Veysel
- Ozben, B.
- Inanç, N
- Karahan, Mustafa
- Güngör, Atilla
- Turkeri, L. N.
- Turhal, N. Serdar
- Eren, Fatih
- Biyikli, Neşe
- Çetinel, Şule
Top 20 authors for Open access publishing at Springer
Average citations for top publishing authors at Marmara University

- OA avg citations
- trad avg citations
Examples of average citations for top publishing authors at Marmara University

Yumuk, P. Fulden
Direskeneli, Haner
Kalaça, Sibel
Origin of funding by country - Open Access

- Italy: 29%
- Turkey: 7%
- United States: 3%
- European Commission: 3%
- Belgium: 3%
- Switzerland: 29%

Origin of funding by country - Open Access
Origin of funding by organisation type - Open Access

- Governmental: 32%
- University: 11%
- Private non-profit funder: 7%
- European Commission: 7%
- Pharmaceutical: 4%
- Research organisation: 4%
- TUBITAK: 3%
- Unknown: 3%
Origin of funding by country - non Open Access

- Turkey: 63%
- United States: 15%
- United Kingdom: 4%
- Europe: 4%
- France: 3%
- Germany: 3%
- India: 2%
- United Nations: 2%
- Switzerland: 2%
- Saudi Arabia: 1%
- Sweden: 1%
- (blank): 2%
Origin of funding by organisation type - non Open Access

- University: 43%
- Governmental: 9%
- TUBITAK: 9%
- Pharmaceutical: 4%
-European Commission: 4%
-Private charity: 3%
-Research organisation: 2%
-Finance: 1%
-United Nations: 0%
Top foreign contributions to Open Access articles published at Marmara University

- USA
- Germany
- England
- Australia
- Greece
- Sweden
- Belgium
- Denmark
- Netherlands
- Italy
- Japan
- South Africa
- Spain
- Netherlands
- Belgium
- Sweden
- Greece
- Australia
- England
- Germany
- USA
Top foreign contributions to non Open Access articles published at Marmara University

- Japan
- Israel
- Greece
- Canada
- Spain
- Switzerland
- France
- Belgium
- Netherlands
- Italy
- Germany
- England
- USA
Foreign contribution to Turkish Open Access projects 2013

- USA: 10%
- SAUDI ARABIA: 9%
- IRAN: 6%
- ROMANIA: 6%
- SOUTH KOREA: 5%
- ITALY: 4%
- PEOPLES R CHINA: 4%
- SPAIN: 4%
- GERMANY: 3%
- INDIA: 3%
- AZERBAIJAN: 2%
- THAILAND: 2%
- ENGLAND: 2%
- ISRAEL: 2%
- AUSTRALIA: 2%
- OTHERS: 37%
Data analyses for Marmara University

- BMC submissions and acceptance rate on decline after 2012 – why?
- Most popular journals at MU: BMC Public Health; Radiation Oncology
- All of Springer: slight increase of publications over the years (both Open access and traditional publishing)
- Medical School and Faculty of Pharmacy published the most; also Engineering Faculty for open access content
- Researchers publishing in OA journals more likely to publish also in traditional journals than vice versa: OA recognition may still be low among researchers used to traditional journals
Analyses continued...

• OA can help increase number of citations by making research easier accessible – benefits yet to be discovered at Marmara University
• Funding for OA articles at Marmara U. from the USA, Italy or Turkey / mostly by governmental funders or the universities themselves
• Great part of non OA content funded by Turkish Universities -> do Turkish universities not fund OA projects?
• International cooperation for Marmara U. research projects mostly with the USA (both OA and non OA)
• All over Turkey, the US and Saudi Arabia were the most common countries researchers tended to collaborate with
Summary

• Open access publishing is growing fast, also in Turkey and gaining more and more importance due to its benefits for the researchers, funding agencies, institutions and the general public.

• Increasing quality and recognition of open access journals are encouraging this development.

• BioMed Central and SpringerOpen work closely with authors and organisations to encourage open access and to make sure we provide the service and quality they are looking for in publishing.

• Although OA is growing in Turkey and at Marmara University, more can be done to encourage it and make the most of its benefits.
Thank you!

Any questions?