

Daha İyi bir Gelecek için Açık Bilim: Açık veri, Açık Erişim, Açık İnovasyon

Prof. Dr. Yusuf BARAN

Abdullah Gül Üniversitesi

Yaşam ve Doğa Bilimleri Fakültesi

Moleküler Biyoloji & Genetik Bölümü

İzmir Yüksek Teknoloji Enstitüsü

Fen Fakültesi

Moleküler Biyoloji & Genetik Bölümü









HALK KÜTÜPHANESİ





ORTA DOĞU TEKNİK ÜNİVERSİTESİ
MIDDLE EAST TECHNICAL UNIVERSITY





MUSC

MEDICAL UNIVERSITY
OF SOUTH CAROLINA















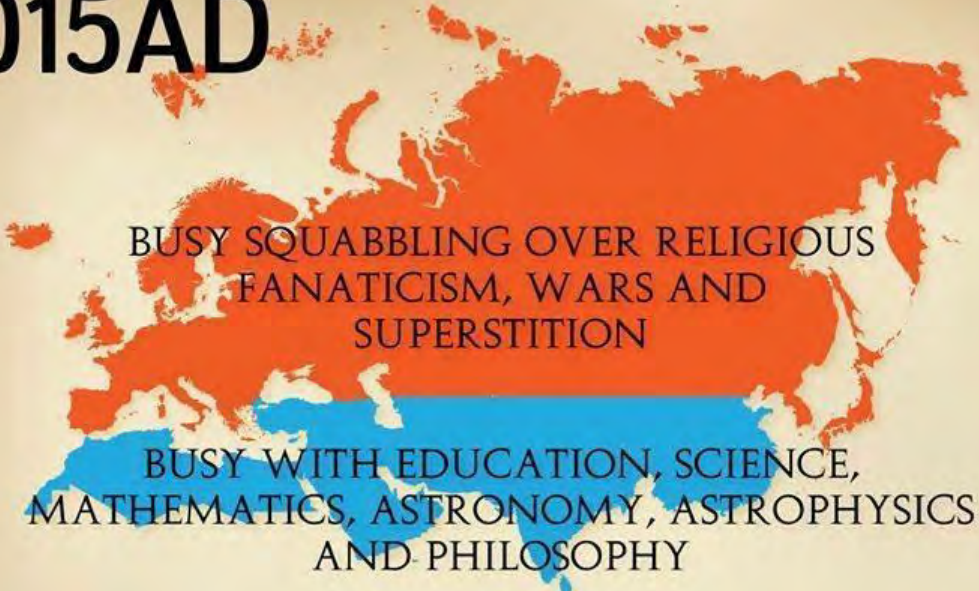
**Science is more essential for our prosperity, our security, our
health, our environment,
and our quality of life
than it has ever been before.**

Obama

*National Academy of Sciences Annual Meeting
Washington, D.C., April 27, 2009*



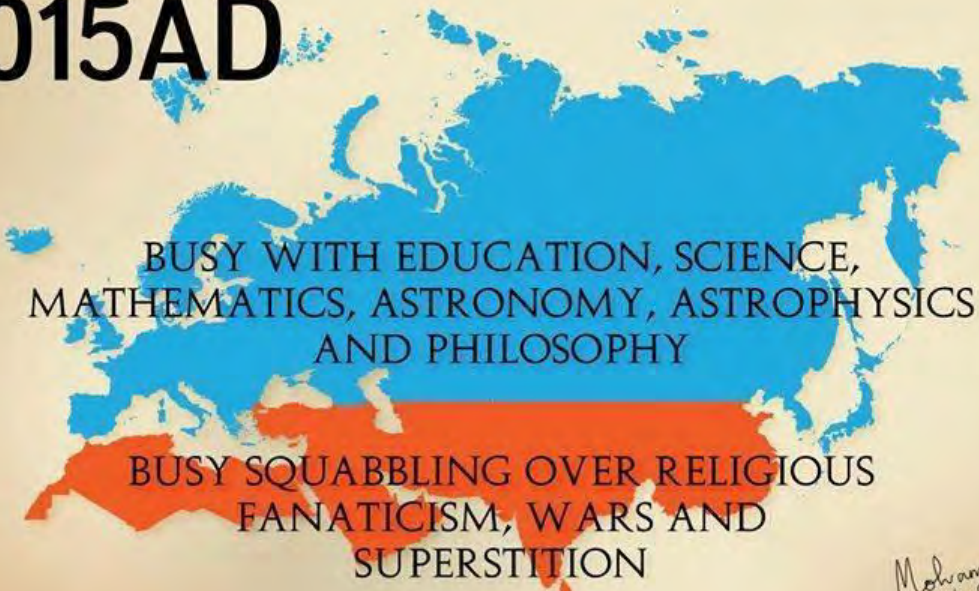
1015AD



BUSY SQUABBLING OVER RELIGIOUS
FANATICISM, WARS AND
SUPERSTITION

BUSY WITH EDUCATION, SCIENCE,
MATHEMATICS, ASTRONOMY, ASTROPHYSICS
AND PHILOSOPHY

2015AD

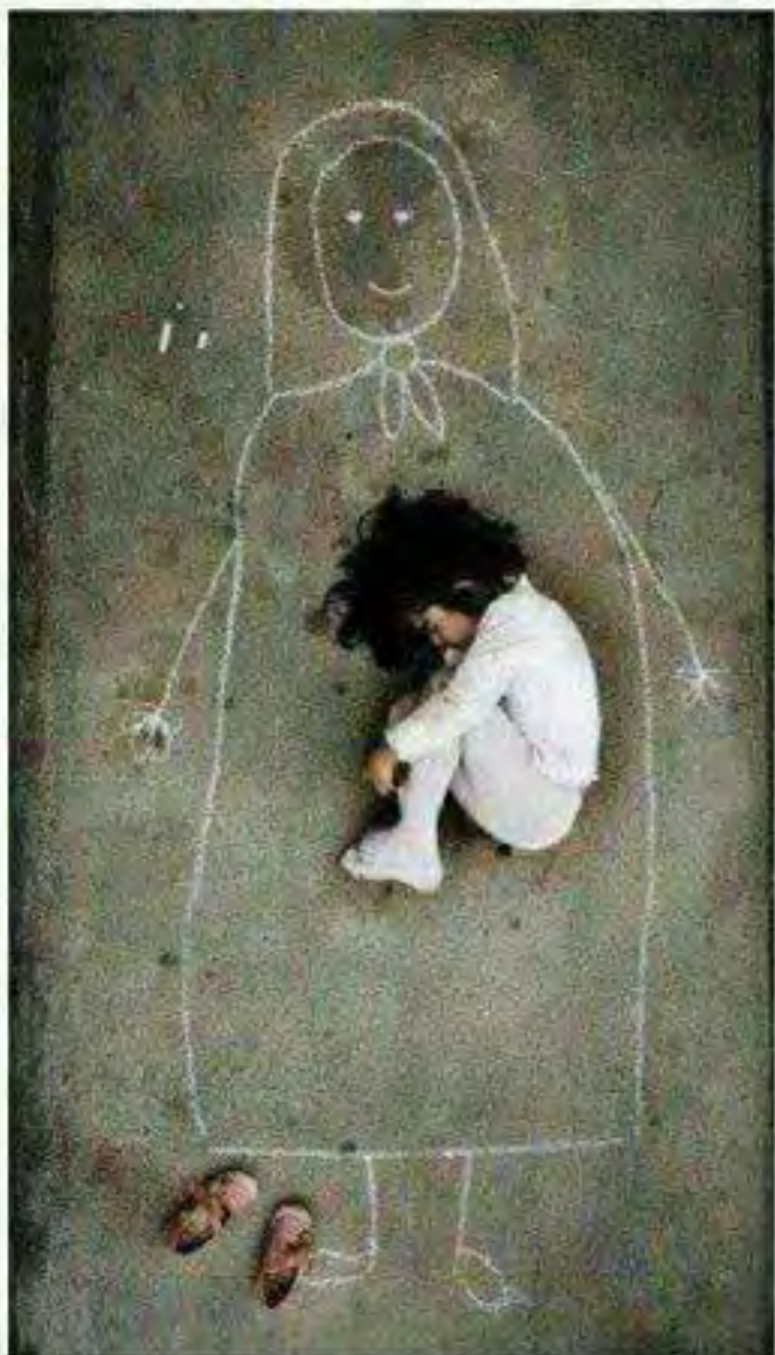


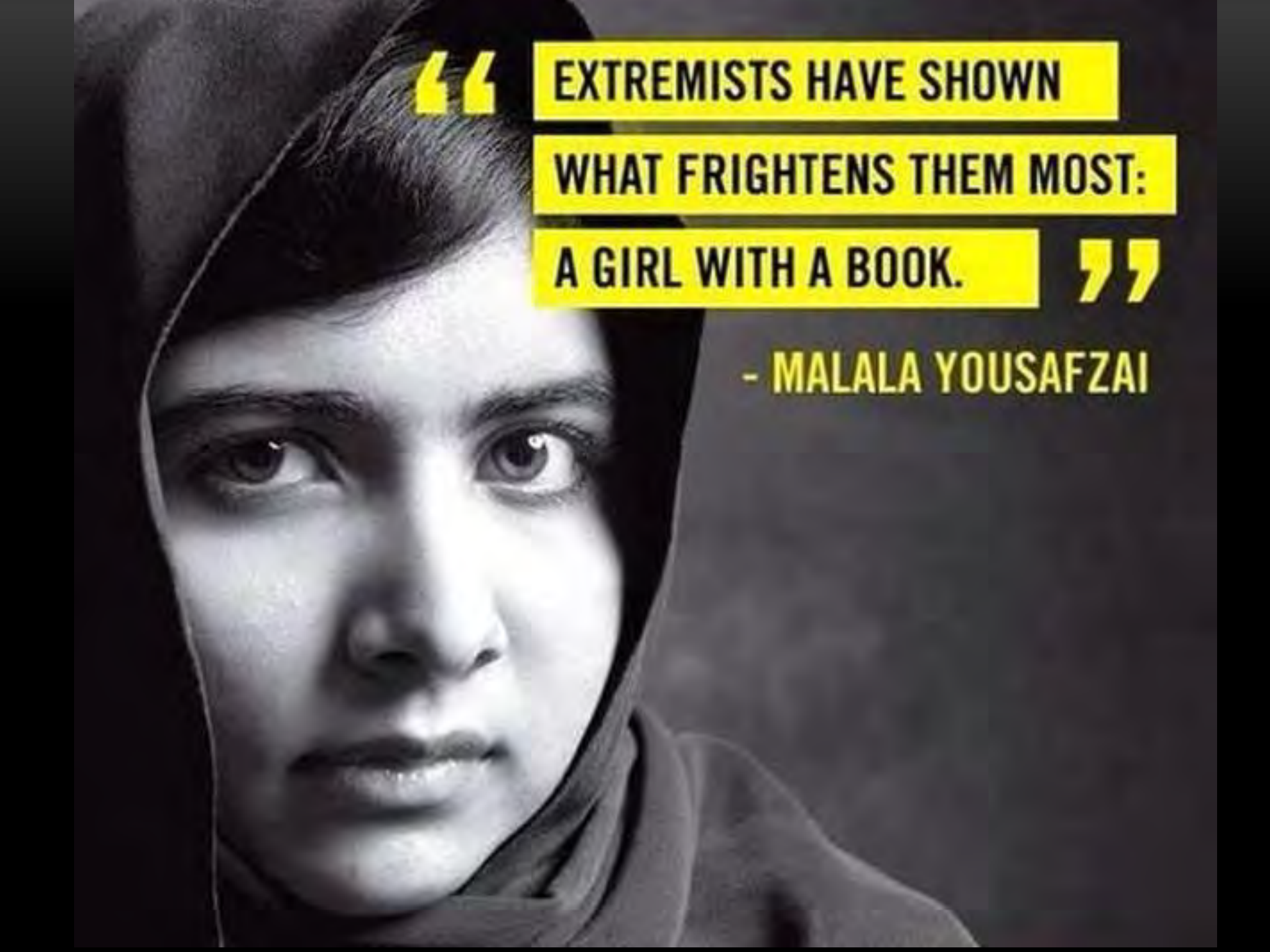
BUSY WITH EDUCATION, SCIENCE,
MATHEMATICS, ASTRONOMY, ASTROPHYSICS
AND PHILOSOPHY

BUSY SQUABBLING OVER RELIGIOUS
FANATICISM, WARS AND
SUPERSTITION

*Mohammed Sahar
Khan
2015.09.15*







“

EXTREMISTS HAVE SHOWN

WHAT FRIGHTENS THEM MOST:

A GIRL WITH A BOOK.

”

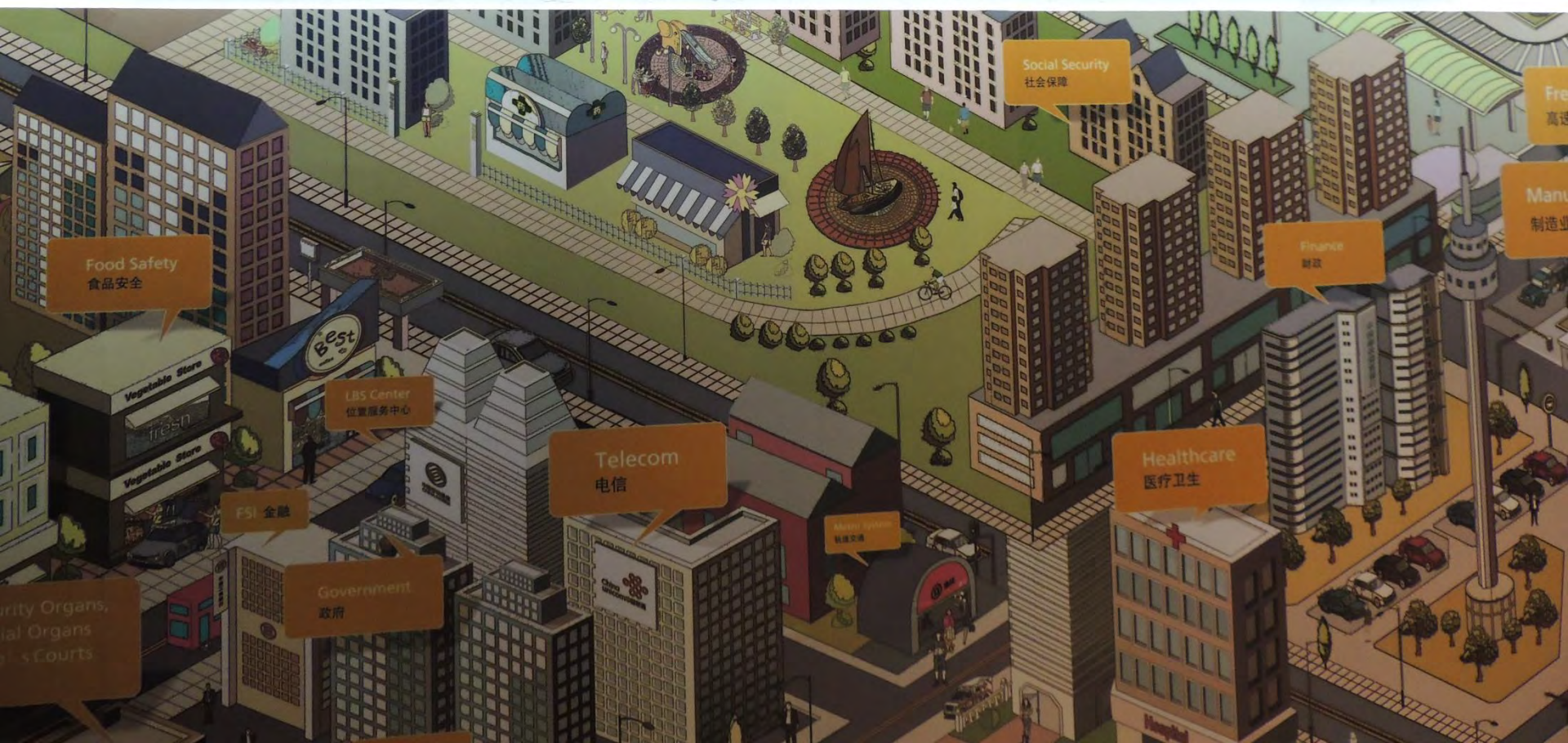
- MALALA YOUSAFZAI





创新推动社会可持续发展

Innovation Drives The Sustainable Growth Of The Society



Bilim İnsanları - Fonlama Kuruluşları

Araştırma Merkezleri -Bilim İnsanları

Deneyler - Bilim İnsanları

Veriler

**Makale
Bilim İnsanları**

**Editörler – Hakemler
Bilim İnsanları**

Telif

Ticari Yayınevleri

**Okuyucu
Bilim İnsanları**



Yayınevleri

- Dünya Çapında yayınevleri; Elsevier, Wiley vs
- Bilimsel yayınların yaklaşık maliyeti senede 9 Milyar \$
- Her bilimsel yayının yaklaşık maliyeti; 5000 - 9000 \$
- Bu paranın önemli bir kısmı yazardan veya kütüphanelerden geliyor
- Yüksek kar oranına sahip bir sektör



Cost of 10 Elsevier Journals

	<u>1999</u>	<u>2007</u>
Nuclear Physics A & B	\$18,040	\$28,820
Brain Research	15,200	24,860
Nuclear Instr. & Methods	13,670	23,790
Surface Science	13,230	21,570
Biochimica et Biophysica	10,570	17,280
Chemical Physics Letters	8,370	13,700
Mutation Research	7,790	12,730
Thin Solid Films	7,740	12,470
Journal of Crystal Growth	7,540	12,300
Gene	6,490	10,580
Total 10 journals	<u>\$108,640</u>	<u>\$178,500</u>
Average	10,864	17,850

64% increase

Publication Fees (Please see page 2 of 2 for fees.)

Page Charges:

\$60 **per** journal page (up to 8 pages) \$ 930.00

\$150 **per** journal page (from 9 to 12 pages) \$

\$210 **per** journal page (over 12 pages) \$

Color Charges: **Nonmember** \$850 **per** color page
& \$300 each addl. color figure **per** color page. \$

Color Charges: **Member*** \$650 **per** color page &
\$300 each addl. color figure **per** color page. \$

Online Posting Fee (\$150) \$ 150.00

Molecular mechanisms of drug resistance and its reversal in cancer

Melis Kartal-Yandim, Aysun Adan-Gokbulut & Yusuf Baran 

Pages 716-726 | Received 05 Oct 2013, Accepted 21 Dec 2014, Published online: 11 Mar 2015

 Download citation  <http://dx.doi.org/10.3109/07388551.2015.1015957>  Crossmark

 Full Article

 Figures & data

 References

 Supplementary Materials

 Citations

 Metrics

 Reprints & Perm

Abstract

Chemotherapy is the main strategy for the treatment of cancer. However, the main problem limiting the success of chemotherapy is the development of multidrug resistance. The resistance can be intrinsic or acquired. The resistance phenotype is associated with the tumor cells that gain a cross-resistance to a large range of drugs that are structurally and functionally different. Multidrug resistance arises via many unrelated mechanisms, such as overexpression of energy-dependent efflux proteins, decrease in uptake of the agents, increase or alteration in drug targets, modification of cell cycle checkpoints, inactivation of the agents, compartmentalization of the agents,

Log in via your institution

➤ Shibboleth

➤ OpenAthens

Log in to Taylor & Francis Online

[Forgot password?](#)

☐ Remember Me

Log in

Or purchase it *



Critical Reviews in
Biotechnology

Volume 36 2016 - Issue 4

Article Purchase

 Add to cart

24 hours access for USD 54.00

Issue Purchase

 Add to cart

30 days access for USD 437.00

* Local tax will be added as applicable

Bu yayınların sahibi kimdir?

Yazarlar

Fonlama kuruluşları

Üniversiteler

Yayınevleri !

“Intermediaries that erect price and permission barriers between authors and readers serve neither, harm both, and enrich only themselves.”

Peter Suber,

the Director of the Harvard Open Access Project (HOAP)

Berlin Declaration 2003

‘To promote the Internet as a functional instrument for a global scientific knowledge base and for human reflection’

Defines open access contributions as including:

‘original scientific research results, raw data and metadata, source materials, digital representations of pictorial and graphical materials and scholarly multimedia material’

This talk is mainly concerned with open access to data

OECD
DECLARATION ON ACCESS TO RESEARCH DATA FROM PUBLIC
FUNDING

ADOPTED ON 30 JANUARY 2004 IN PARIS

The governments of Australia, Austria, Belgium, Canada, China, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, the Russian Federation, the Slovak Republic, the Republic of South Africa, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States recognize that:

- Optimum international exchange of data, information and knowledge contributes decisively to the advancement of scientific research and innovation
- Open access to, and unrestricted use of, data promotes scientific progress and facilitates the training of researchers
- Open access will maximise the value derived from public investments in data collection efforts
- Substantial benefits that science, the economy and society at large could be gained from the opportunities that expanded use of digital data resources
- The risk that undue restrictions on access to and use of research data from public funding could diminish the quality and efficiency of scientific research and innovation

NASA's Data Policy (1999): Earth Science Enterprise

- NASA is committed to full and open sharing of ESE data from its funded and owned systems
 - No period of exclusive access
 - Access is extended to the full scientific community and the general public
- NASA is committed to non-discriminatory access to data
 - This principle allows for the possibility that categories of users can be established, with preferential treatment between the categories
 - All users in a clearly defined user category can obtain data on the same terms and conditions, and the categories are defined in such a way that all potential users can be assigned to a category
 - All data required for long-term global change research shall be archived

NIH DATA SHARING POLICY (2003)

- ‘Data should be made as widely and freely available as possible while safeguarding the privacy of participants, and protecting confidential and proprietary data’
- Data Sharing Methods:
 - Publishing – scientific publications
 - Researcher’s efforts – CD, Web site
 - Data Enclave – secure, access controlled
 - Data Archive – ingest, curation and distribution
 - Mixed Mode – multiple levels of access



Driving Awareness and Adoption of Open Textbooks



You are here: [Home](#) ▶ [About Us](#) ▶ Who are we?

[Home](#)

[About Us](#)

[Open Textbook Content](#)

[Adoption Resources](#)

[Success Stories](#)

[Badges](#)

[Press Room](#)

[Events](#)

[College Open Textbooks Blog](#)

[Contact us](#)

[Join the Community](#)

Who are we?

ABOUT COLLEGE OPEN TEXTBOOKS

The Community College Open Textbooks Collaborative is funded by The William and Flora Hewlett Foundation. This collection of sixteen educational non-profit and for-profit organizations, affiliated with more than 200 colleges, is focused on driving awareness and adoptions of open textbooks to more than 2000 community and other two-year colleges. This includes providing training for instructors adopting open resources, peer reviews of open textbooks, and mentoring online professional networks that support for authors opening their resources, and other services.

The initiatives and leadership of College Open Textbooks are driven by member organizations including Benetech Bookshare, California Community Colleges Chancellor's Office, Carnegie Mellon University, Community College for Open Educational Resources, Foothill De Anza Community College District, Flat World Knowledge, Florida Distance Learning Consortium, Happy About, Inc., Institute for the Study of Knowledge Management in Education (ISKME), League of Innovation, Macmillan Dynamic Books, MERLOT, Open Education Resources Center for California, Rice University Connexions, Textbook Media, Virtual Ability, and Words & Numbers.

The formation of the College Open Textbooks coincides with the growing international interest in open educational resources and the need to move to open digital textbooks as a way to help financially distressed states such as California reduce the cost of public education.

The focus of these efforts could save students millions of dollars by increasing the number of open high-quality textbooks available online as alternatives to expensive printed textbooks sold by publishers.

Driving Awareness and Adoption of Open Textbooks

You are here: [Home](#) ▶ [Open Textbook Content](#) ▶ Open Textbooks by Subject

[Home](#)[About Us](#)[Open Textbook Content](#)[Adoption Resources](#)[Success Stories](#)[Badges](#)[Press Room](#)[Events](#)[College Open Textbooks Blog](#)[Contact us](#)[Join the Community](#)

Open Textbooks by Subject

[▶ Anthropology and Archeology](#)[▶ Art](#)[▶ Biology & Genetics](#)[▶ Business](#)[▶ Chemistry](#)[▶ Computer Science](#)[▶ Economics](#)[▶ Education](#)[▶ Engineering & Electronics](#)[▶ English & Composition](#)[▶ Health & Nursing](#)[▶ History](#)[▶ Languages and Communications](#)[▶ Law](#)[▶ Literature](#)[▶ Math](#)[▶ Music](#)[▶ Philosophy](#)[▶ Physics](#)[▶ Political Science](#)[▶ Psychology](#)[▶ Science](#)[▶ Sociology](#)[▶ Statistics & Probability](#)

See College Open Textbook list of Adoptions

[List of Adoptions](#)

STAY IN TOUCH WITH US



114 people like this. Be the first of your friends.

Driving Awareness and Adoption of Open Textbooks

Search...

Home

About Us

Open Textbook Content

Adoption Resources

Success Stories

Badges

Press Room

Events

College Open Textbooks Blog

Contact us

Join the Community

STAY IN TOUCH WITH US



Like 114 people like this. Be the first of your friends.

You are here: [Home](#) » [Open Textbook Content](#) » [Open Textbooks by Subject](#) » Engineering & Electronics

Textbooks by Subject Engineering & Electronics

- » [All About Circuits \(DSL\)](#) (CC-BY)
- » [Basics of Fluid Mechanics](#) (GDFL)
- » [Chemical Engineering Process Dynamics and Controls](#) (CC-BY)
- » [Communication Systems](#) (CC-BY-SA)
- » [Data Coding Theory](#) (CC-BY-SA)
- » [Discrete Time Signals and Systems](#) (CC-BY-NC-SA) ([BoundCopy](#))
- » [Electronic Circuit Analysis](#) (CC-BY)
- » [Engineering Statics](#) (CC-NC-BY-SA)
- » [A First Course in Electrical and Computer Engineering*](#) (CC-BY) ([BoundCopy](#))
- » [Fundamentals of Die Casting Design](#) (GDFL)
- » [Fundamentals of Electrical Engineering I](#) (CC-BY) ([BoundCopy](#))
- » [Fundamentals of Compressible Flow Mechanics](#) (GDFL) ([BoundCopy](#))
- » [Introduction to Physical Electronics](#) (CC-BY) ([BoundCopy](#))
- » [Lessons in Electric Circuits, Vol I DC*](#) (custom license)
- » [Mechanics of Engineering](#) (custom license)
- » [Project Management for Scientists and Engineers*](#) (CC-BY) ([BoundCopy](#))
- » [Socratic Electronics A Resource for Inquiry-Based Electronics Instruction](#) (CC-BY)

Disclaimer: College Open Textbooks has not yet vetted all of the open textbooks on this list for quality or accuracy of the content. However, peer reviews, as indicated by a "*" next to the book title, are available at [The Reviewed Engineering License Attributes](#): BY=Open w/ Attribution. CC=Creative Commons license. GDFL=GNU Free Documentation License. GPL=GNU General Public License. NC=Non-Commercial. ND=No Derivative Works. PD=Public Domain. SA=Share Alike.

The First and Largest Publisher Of Free and Open Textbooks

We are the world's largest publisher of free and open college textbooks. With our ever-expanding catalog of top quality books by expert authors, now is your chance to be a hero and help your students save thousands of dollars. Get started today and join the textbook affordability movement.

[VISIT OUR CATALOG](#)[Learn more >](#)[Or, request more information >](#)

It's easy to customize our books with
MIYO — **Make It Your Own**. Edit down
to the word, add content and more.

View a Catalog Category

[Business &
Economics](#)[Humanities &
Social Sciences](#)[Professional &
Applied Sciences](#)[Mathematics](#)[Sciences](#)



California Takes a Big Step Forward: Free, Digital, Open-Source Textbooks

By Megan Garber

A Golden State experiment with nationwide impact



California governor Jerry Brown meets with university students while signing legislation aimed to offer them financial help. (gov.ca.gov)

This week, California took a big step forward in the march toward online education. Governor Jerry Brown [signed into law](#) a proposal to create a website that will allow students to download digital versions of popular textbooks for free.

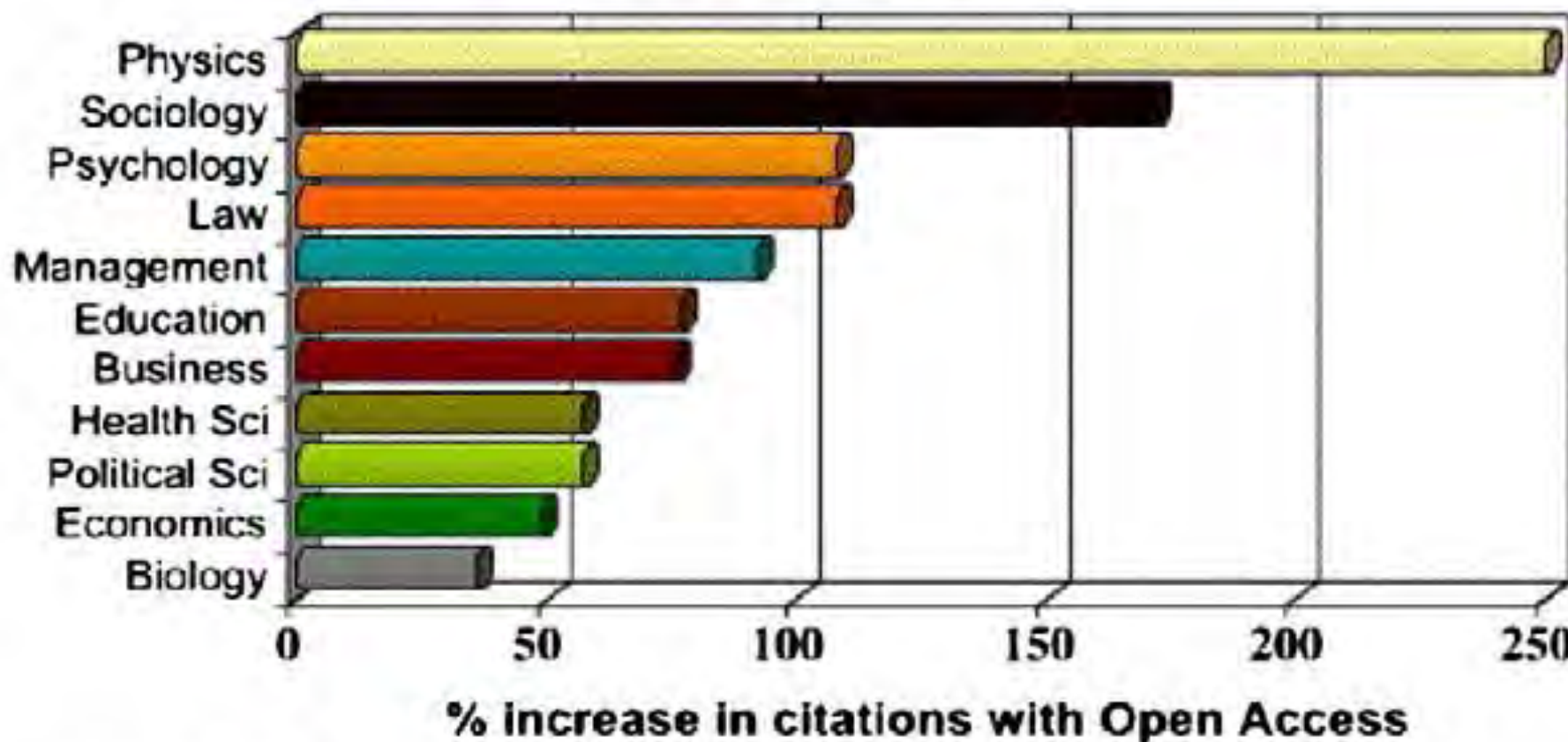
NEDEN Açık ERİŞİM?

- Bilimsel bilgiye erişimde yasal, ticari ve teknolojik engelleri kaldırmak suretiyle araştırma süreci daha etkili, araştırma sonuçları daha görünür hale gelir.
- Açık erişim bilgiyi ve teknolojik transferi geliştirir ve yeniliği destekler.
- Bilimsel iletişim sistemindeki çeşitli paydaşlar bilimsel araştırmalara ve araştırma verilerine açık erişimden yararlanırlar.

Kurumlar ve yazarlar

- Araştırma çıktıları anında görünür
- Elde edilen sonuçlar hızlı yayılır ve bu sonuçların kullanımı artar.
- Araştırmaların etkisinin ve uluslararası işbirliğinin artmasına yol açar
- Yeni fon kaynakları ve fırsatlar yaratır.

Open Access increases citations



Range = 36%-200%

(Data: Brody & Harnad 2004; Hajjem et al. 2005)

Araştırmacılar

➤ Zaman

➤ Motivasyon

➤ Yeni bilgi yaratmak için sadece açık araştırma içeriği üzerinde etkin çalışabilen metin ve veri madenleme teknolojilerini kullanarak çoğu kez çeşitli araştırma alanlarındaki makalelerden veri ve bilgi çıkarabilirler.

➤ Motivasyon

Fon sađlayan ajanslar

- Arařtırma sürecinin kalitesini ve saydamlıđını ve arařtırmaya yatırımın getirisini izlerler
- Ulusal ve uluslararası düzeyde artan görünürlükten yararlanırlar

Kütüphaneler

- Kullanıcılarının bilimsel materyallere erişimini artırma olanağı sağlar
 - Geleneksel dergi aboneliklerine harcadıkları para miktarı azaltır
 - Yeni roller üstlenme olanağı sunar
-

Yol Haritamız

- Konuşalım, gündemde turalım
- Makalelerimiz için açık erişim dergilerini tercih edelim
- Ticari dergiler için hakemlik yapmayalım
- Ticari dergilerin editörler kuruluna girmeyelim
- Kendi dergimizi başlatalım
- Yayınlarımızı erişime açalım

Okumaz-Yazmaz

Okumaz-Yazmaz

Okur-Yazmaz

Okumaz-Yazmaz

Okur-Yazmaz

Okumaz-Yazar

Okumaz-Yazmaz

Okur-Yazmaz

Okumaz-Yazar

Okur-Yazar

Okumaz-Yazmaz

Okur-Yazmaz

Okumaz-Yazar

Okur-Yazar

Okur-Yazar-Zarar Verir

Okumaz-Yazmaz

Okur-Yazmaz

Okumaz-Yazar

Okur-Yazar

Okur-Yazar-Zarar Verir

Okur-Yazar-Katkı sunar





**KEEP
CALM
AND
CHANGE THE
WORLD**