

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

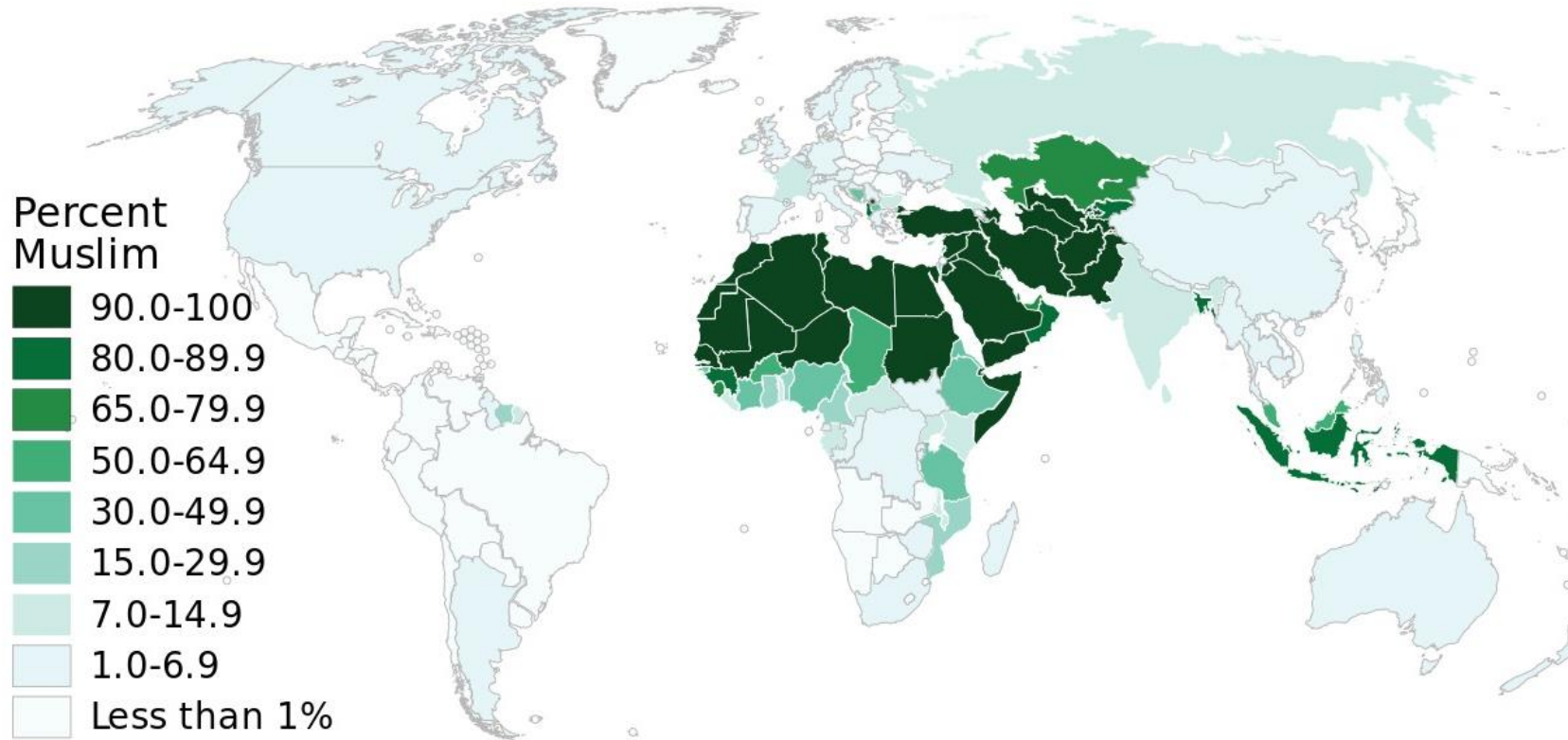


**Mustafa<sup>(pbuh)</sup> Science and Technology Foundation  
(MSTF)**

**MuSTaFa**

Prof. Saeed Sarkar,  
Member of Founding Committee.

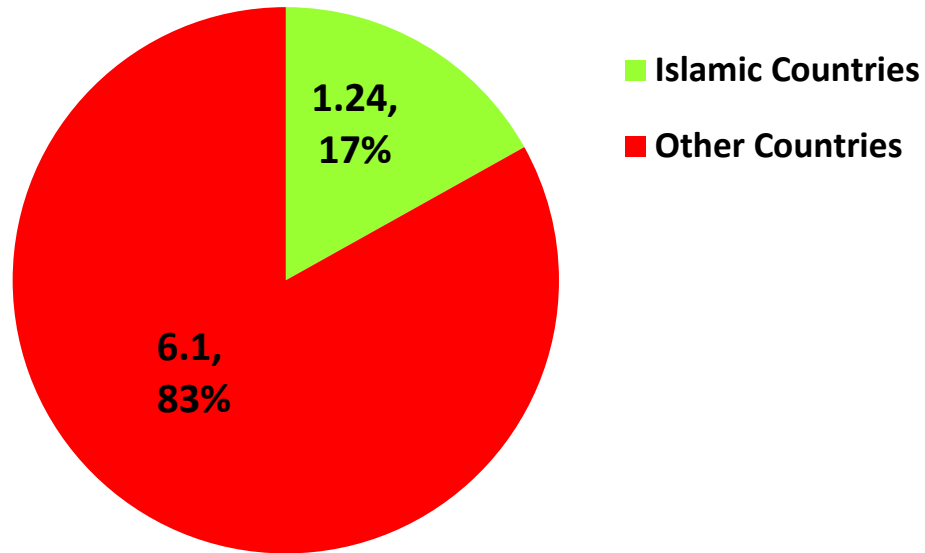
# Islamic Countries



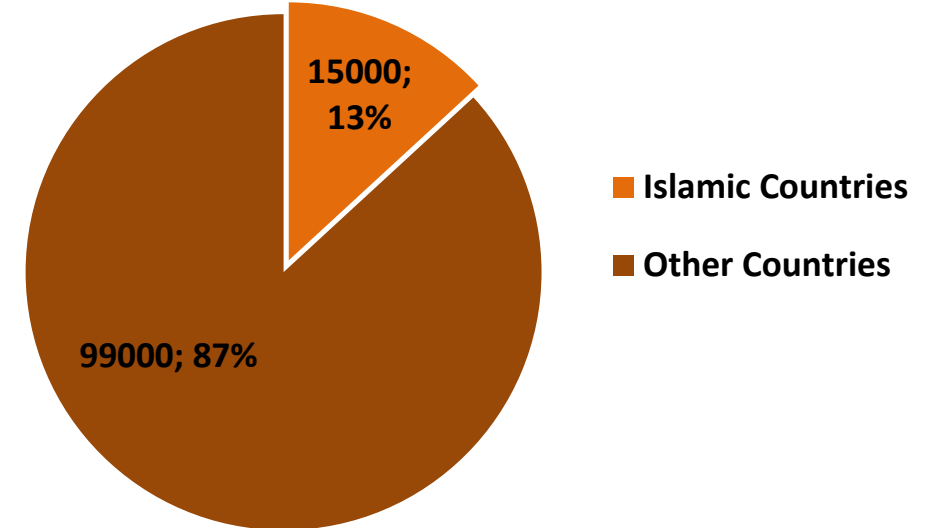
- Organization of Islamic Cooperation (OIC) : **57 members**



**Population in 2015 (Billion people)**



**GDP (ppp) in 2015 (Billion \$)**





## OIC Member Countries Economy

### Mainly Resource-Based:

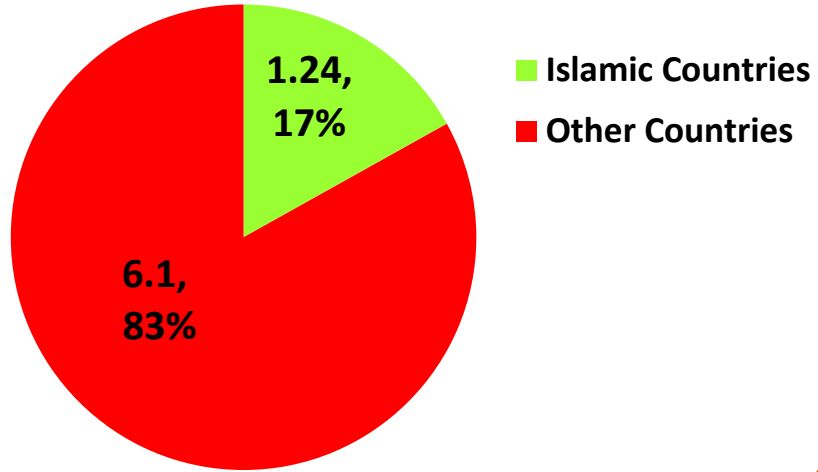
- Oil,
- Gas,
- Minerals,
- Agriculture
- Conventional Products,
- ...

**Resource-Based**

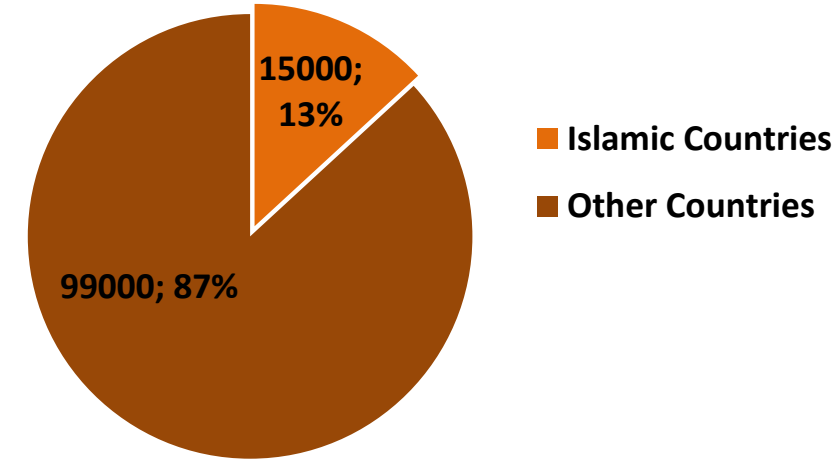


**Knowledge-Based**

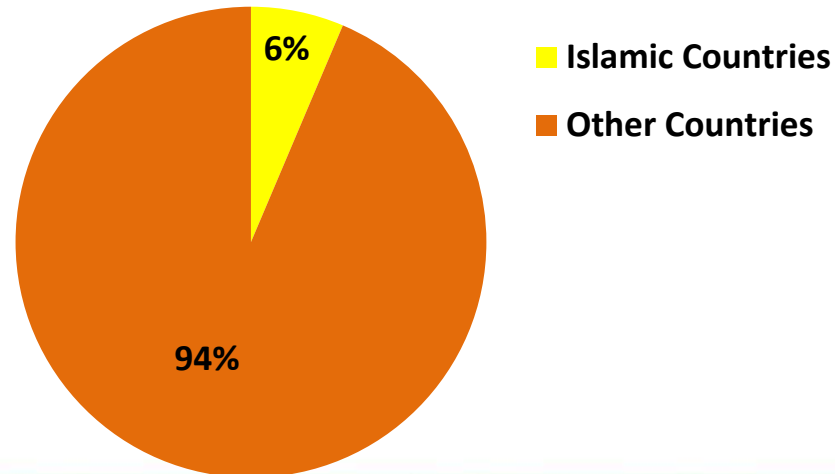
**Population in 2015 (Billion people)**



**GDP (ppp) in 2015 (Billion \$)**



**Total ISI Articles in 2015**



# Muslim Nobel Laureates



**Mohammad Abdus Salam**  
**(Physics, 1979)**  
**Pakistan**



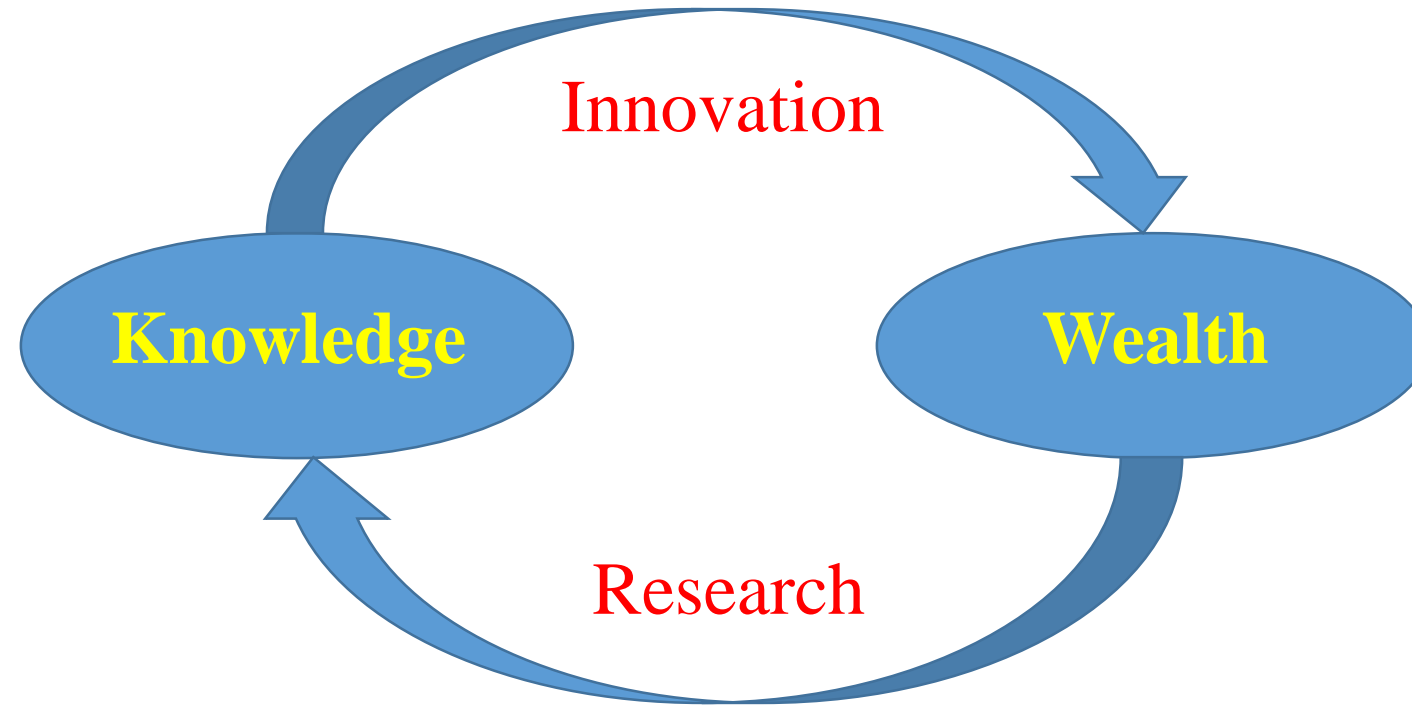
**Ahmed Zewail**  
**(Chemistry, 1999)**  
**Egypt**



**Aziz Sancar**  
**(Chemistry 2015)**  
**Turkey**

**< 0.5% of the total No. of NL in the Fields of Physics, Chemistry, Physiology, Medicine and economy**

# Knowledge Based Economy Cycle







# **Mustafa Science and Technology Foundation (MSTF)**

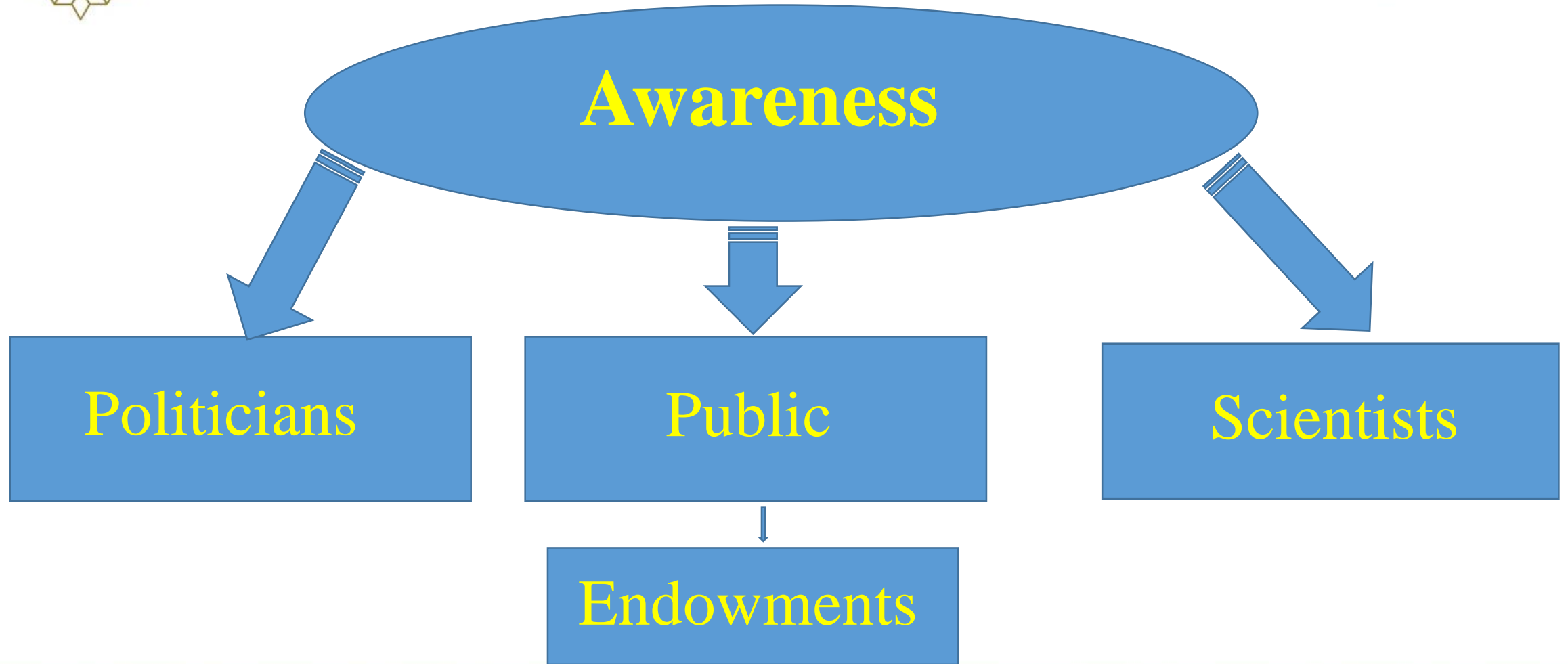
## **MuSTaFa**

### **Vision:**

- **Revitalize the golden era of S&T in Muslim world**
- **To achieve sustainable knowledge-based economy for Muslim societies**



# Framework of **MuSTaFa**



# Framework of **MuSTaFa**





# Framework of **MuSTaFa**



## **Other Important Issues;**

- Capacity Building
- R&D Infrastructure
- Innovation Ecosystem
- Knowledge Managements



# **MuSTaFa Major Activities**



## **Supporting/Providing:**

- **Educational, research and tech-development grants**
- **Workshops, seminars and conferences**
- **Joint R&D activities and technological collaborations**
- **Sharing financial, R&D infrastructures.**
- **Exchange of researchers and scientists**
- **Networking**
- **Tech-exchange forum, hi-tech exhibitions**





# MuSTaFa Financial Resources



## Fund Raising in Islamic World

- **People's Donations**
- **Endowment**
- **Zakat**
- **Financial Institutions**
- **Charity Organizations**



# The Mustafa<sup>(pbuh)</sup> Prize

**As a Profund Activity of MuSTaFa**

**([www.mustafaprize.org](http://www.mustafaprize.org))**



# The Mustafa<sup>(pbuh)</sup> Prize



Mustafa Prize is granted:

To a distinguished scientist/technologist with outstanding achievement extending scientific and technology borders having a profound effect on human life and society.

The prize is awarded biannually



# The Prize



**The Prize includes:**

**a) Medal**

**b) Diploma**

**c) Award: \$500.000**







# The Prize Fields and Nomination Process



The Prize fields are as follows:

- a) Information and Communication Technologies**
- b) Life Sciences and Medicine**
- c) Nano Science and Nanotechnology**
- d) All areas of Science and Technology; (including interdisciplinary and following fields)**
  - **Cognitive Science**
  - **Islamic Economic and Banking**

**Nominations must be declared only by **eminent scientists** of the world or **nominating institutions**.**

# The Laureates, 2015



**The 2015 Mustafa<sup>(pbuh)</sup> Prize  
in Bio Nanotechnology  
was awarded to Prof. Jackie Ying.**

Prof. Jackie Ying (born 1966, Taiwan) is the Executive Director of the Institute of Bioengineering and Nanotechnology in Singapore. The 2015 Mustafa<sup>(pbuh)</sup> Prize was granted to Prof. Ying for her remarkable work on "Stimuli-Responsive Systems for Controlled Drug Delivery".



**The 2015 Mustafa<sup>(pbuh)</sup> Prize  
in Nanoscience and Nanotechnology  
was awarded to Prof. Omar Yaghi.**

Prof. Omar Yaghi (born 1965, Jordan) is the Co-Director of the Kavli Energy NanoScience Institute at Berkeley. The 2015 Mustafa<sup>(pbuh)</sup> Prize was granted to Prof. Yaghi for his remarkable work on "Porous Metal-Organic Frameworks (MOFs)".





# The Mustafa<sup>(pbuh)</sup> Prize, 2015



- Time: 25th Dec. 2015
- Venue: Vahdat Theater, Tehran, Iran
- Delegates:
  - ✓ Eminent scientists, scholars and academicians:
  - ✓ 60 scientists worldwide
  - ✓ Ambassadors of 20 countries





# The Mustafa<sup>(pbuh)</sup> Prize, 2015 in Media

SCIENCE sciencemag.org



Reported in more than **280 different Media** worldwide  
and top scientific journals such Nature and Science



## Iran needs to present a united front on science

*Iranian scientists must be allowed to interact abroad without fear of persecution, says Elise Auerbach.*

Iranian officials last month unveiled the Mustafa Science and Technology prizes, for researchers in Islamic countries. The creation of the four US\$500,000 prizes illustrates the growing importance to the Iranian leadership of domestic science and the nurturing of scientific cooperation and exchange with other nations.

The Iranian government has already developed a cadre of distinguished scientists. State-run media routinely vaunt advances made by Iranian researchers, often new military systems. Iran hosted the Fifth International Conference of Cognitive Science in Tehran last year. And Hossainaddin Arfaei, a physicist at the Institute for Research in Fundamental Sciences in Tehran, visited the United States in April 2005 to deliver a lecture at a meeting of the American Physical Society.

Iranian authorities to work on military and intelligence per- claimed crimes were communicating with a hostile govern receiving illegitimate funds — an apparent reference to il stipend given to graduate students at his university.

His case and others like it must have a chilling effect on oth scientists engaged in legitimate interactions with colleag West. This inhibits the advancement of science in Iran an be utterly counterproductive to the state-endorsed efforts t Iran's scientific achievements internationally.

The more moderate members of Iran's ruling establisher understand that the country's successful integration into community is undermined if its best and brightest schola

## Iran creates 'Muslim Nobels'

TEHRAN | Iran is offering a lucrative new science prize, which it hopes will further its goal of becoming known as a research powerhouse. Late last month, two nano-technology experts took home inaugural Mustafa Prizes, each including \$500,000 in cash. Jackie Ying, executive director of the Agency for Science, Technology and Research's Institute of Bioengineering and Nanotechnology in Singapore, won the "top scientific achievement" award for a body of work including nanoparticles that deliver insulin to diabetic patients, and Omar Yaghi, co-director of the Kavli Energy NanoSciences Institute at the University of California, Berkeley, snared the prize for nanoscience. One rationale for the awards is that only three Muslims have won a Nobel Prize in science, but





Thank You For Your Attention