



NOMINATION GUIDELINES

MAHATHIR SCIENCE AWARD

The Mahathir Science Award was created in 2004 to recognize exceptionally significant achievement by any scientist, group (of not more than three people) or institution/organization worldwide who have made remarkable contributions and innovations in pioneering tropical research discovery or innovative solution in the fields of Tropical Agriculture, Tropical Medicine, Tropical Natural Resources and Tropical Architecture and Engineering that have brought positive impact on the well-being of the society.

The award extends beyond the boundaries of Malaysia in order to encourage excellence in tropical science research that will accord direct benefits to the countries in the tropics and also, to the wider global community.

Presented annually, the Laureate will receive US\$100,000, a gold medallion and a certificate of recognition.

SELECTION CRITERIA

The Mahathir Science Award accepts nominations from four main categories of tropical sciences, namely:

- Tropical Agriculture
- Tropical Architecture & Engineering
- Tropical Medicine
- Tropical Natural Resources

The selection of candidates is based on the originality of each candidate's achievements, the impact of candidate's achievements, including future impact and its significance in solving the problems of the tropics by improving the quality of life and contributing to the region's prosperity.

Selection Criteria:

- Novel scientific discovery or innovative solution
- Application of the discovery/solution in solving the problems of the tropics
- Impact of the discovery/solution on society

NOMINATION DOCUMENTATION

Any experts in the award categories or institutions/organizations may nominate any worthy nominees for the Award. The scientific achievement of the nominee, as well as the impact that is measurable and sustainable must be highlighted in the nominee's nomination. **Self-nominations will not be considered for this award.**

To submit a nomination, please provide the following information:

DETAILS OF THE NOMINEE

Nominee's name, organization, current position, mailing address, e-mail address, telephone and fax number. A recent photograph of the nominee must be attached with the nomination.

DETAILS OF THE NOMINATOR

Nominator's name, organization, current position, mailing address, e-mail address, telephone and fax number.

AWARD CITATION

Award citation must be less than 40 words. The citation should spell the key reason why the award is being awarded to the nominee. For example: *"The nominee is nominated for his breakthrough achievement in developing the genetic materials and technologies essential for breeding high yielding hybrid rice varieties"*

NOVEL SCIENTIFIC DISCOVERY OR INNOVATIVE SOLUTION

In not more than 1,500 words, describe the scientific discovery or innovative solution of the nominee by enunciating the science behind the nominee's original work, how such discovery or solution is seen as impetus in the development of its scientific/technological application and its relevance to the problems of the tropics.

APPLICATION OF THE DISCOVERY/SOLUTION IN SOLVING THE PROBLEMS OF THE TROPICS

In not more than 1,500 words, describe the significant contributions of the nominee's scientific work in providing innovative and sustainable solutions to the problems of the tropics and how the application of the scientific discovery or innovative solution could further improve quality of life or contribute towards the prosperity of the region.

IMPACT OF THE DISCOVERY/SOLUTION ON SOCIETY

In not more than 1,500 words, describe the impact of the nominee's scientific discovery or innovative solution. Impact can be measured in terms of socio-economic benefits, number of beneficiaries or people impacted, results of clinical trials/field tests, number of citations by other researchers and also potential or future benefits from such discovery or solution.

ADDITIONAL INFORMATION FOR NOMINATION OF GROUP/ORGANIZATION

Describe the role and contribution of each scientist/researcher in the development of the nominated scientific work.

DETAILED LIST OF PUBLICATIONS, LIST OF PATENT (GRANTED/PENDING)

List 10 most outstanding publications related to the scientific work and include the cumulative citations in Thomson Reuters (WOS/ISI) database; and Hirsch-Index score. Include also the list of patent that have been granted or pending.

REFERRALS

Referees must be familiar with the nominee's scientific work but cannot be from the same organization as the nominee. MSAF will be contacting referees if necessary, therefore, providing valid contact details is essential. Letters of referral must be provided to support the nomination. Please include the valid contact details of each referee such as referee's name, organization, current position, mailing address, e-mail address, telephone and fax number.

SUPPORTING DOCUMENTS

- Curriculum Vitae
- Supporting document such as newspaper clippings, articles, announcements, etc.

SELECTION PROCESS

A selection exercise is carried out through a stringent vetting process by the Academy of Sciences Malaysia that involves an International Panel of technical experts including Nobel Laureates and world-renowned scientists.

CLOSING DATE

A nomination form can be downloaded from the MSAF official website (www.msa-foundation.org). MSAF encourages nomination documents to be submitted via e-mail. Alternatively, nomination documents may be submitted by post to:

Mahathir Science Award Foundation
c/o Academy of Sciences Malaysia
902-4 Jalan Tun Ismail
50480 Kuala Lumpur, MALAYSIA

For nomination submission by post, please provide a CD of the soft-copy of all nomination documents. The complete nomination form with supplemental documents must reach the Mahathir Science Award Foundation before 15th April 2014. Please be informed that unsuccessful nominations will not be carried forward to the following year, therefore, a fresh nomination must be submitted every year.

MAHATHIR SCIENCE AWARD LAUREATES



Year 2005

Professor John S. MacKenzie

Tropical Medicine

“for his contribution in solving problems related to Japanese Encephalitis virus”



Year 2006

Faculty of Medicine, University of Malaya

Tropical Medicine

“for outstanding contribution to the understanding and treatment of the Nipah Encephalitis”



Year 2007

Professor Joseph Sriyal Malik Peiris

Tropical Medicine

“for his discovery of aetiological agent causing SARS leading to understanding of the pathogenesis and the epidemiology of the disease in 2003”



Year 2008

Professor Dr Gurdev Singh Khush

Tropical Agriculture

“for his perseverance, leadership, commitment and revolutionary work in systematically directing and developing several rice varieties that have overwhelmingly contributed towards reducing global hunger”



Year 2009

Forest Research Institute Malaysia (FRIM)

Tropical Natural Resources

“for technology and development of the rubberwood furniture industry in Malaysia and globally”



Year 2011

Professor Yuan Long Ping

Tropical Agriculture

“in recognition of his courage of independently thinking out of the norm in rice breeding that has innovatively developed hybrid rice, a staple food of the tropics which has revolutionized global rice production and sustainability”



Year 2012

Professor Emeritus James M. Kelly

Tropical Architecture & Engineering

“in recognition of his contribution to the development and application of seismic rubber bearings used for protecting buildings, bridges and other such structures against devastating impact of earthquake”



Year 2013

Professor Alan Cowman

Tropical Medicine

“in recognition of his groundbreaking research on Malaria that has led to effective understanding of the pathogenesis of the infection and innovative technological development of reverse genetics of *Plasmodium falciparum*, describing the first gene knock out for this organism. These contributions have led to (i) the identification of better targets for the development of new drugs against the infection, (ii) paved the way for a candidate vaccine against the disease and (iii) accelerated efforts to solve one of the major health problems in the tropics”