Centre for Research In Biotechnology for Agriculture (CEBAR) Highlights of Activities & Achievements in 2012



The Centre for Research in Biotechnology for Agriculture www.cebar.um.edu

(CEBAR) has a mission "to Create A Platform For World Class Research, Development, Applications And Training With Outputs And Products That Interface Between The Fundamental And Applied Sciences And The Nations Needs In Agriculture.", and aims to qualify as University Malaya Centre of Excellence (UMCoE) in 2013.

In the year 2012, CEBAR researchers produced **71 WoS (ISI) publications** with over 75% of these in tier 1 and 2 ranked journals.

CEBAR members secured over **RM5.8 million in research grants** and CEBAR also raised income of over **RM37,000 through workshops and training courses** run by our staff and members.

Currently, CEBAR has **over 179 graduate students** under supervision by our Principal Investigators with over 38% of these at the PhD level of which over 14% are International students. In 2012, CEBAR also hosted **5 national and 3 international interns** in our various labs.

CEBAR staff and students won a total of **2 National Awards** and registered **5 patent applications** in 2012.

Activities in 2012 included **8 workshops**, **2 training courses**, **5 seminars /mini-symposia** and visits by **local** (Hexagon Green Biotech Sdn Bhd) and **international** scientists including from **Japan**, **India**, **and France**.

CEBAR continues to manage and operate the University of Malaya Plant Biotech Facility (PBF), which allows researchers to test novel hybrid plants on a large scale in a contained and climate controlled setting. CEBAR **successfully achieved re-certification** of the Plant Biotech Facility to international standards for Biosafety in August 2012 and the certificate is valid until 1st September 2013.

In terms of International and national networking, 2012 saw CEBAR as co-signatory to MOAs with the Nara Institute of Science and Technology (NAIST), JAPAN; Beijing Genome Institute-Hong Kong Co., Ltd with 3 different PIs and Terra Garden Biotech Sdn. Bhd, Malaysia. CEBAR also conducted activities under several on-going MOU.

In 2012, CEBAR continued to host several workshops and training courses which helps in the development of important skills not only among students but also the staff of CEBAR. Among workshops and trainings conducted are Grant Writing Workshop, Tissue Culture Workshop, Plant Cryopreservation Workshop and Risk Assessment Training.

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CEBAR FACTS & FIGURES FOR THE YEAR 2012

Item	Detail	Comment
71 ISI publications	Tier 1: 29 (40.8%)	Tier 3: 9 (12.6 %)
	Tier 2: 24 (33.8 %) (75% Q1&Q2)	Tier 4: 10 (14.%)
Research Grants	National grants:	14 MOHE grants
>RM 5.8 million	RM 3,980,900.00 (68%)	6 MOSTI grants
		12 KPT grants
	RU grants:	RU grants: 34
	RM 1,690,207 (28.9%)	
	Private grants:	Terra Garden Biotech
au i	RM 180,000.00 (3.1%)	W. I. I
Other income	RM37,442.00	Workshops: RM 36,142.00
		Training courses: RM 1300.00
179 Postgraduate	110 MSc	Local: 96 (87.3%)
students		International: 14 (12.7.3%)
	69 PhD	Local: 51 (73.91%)
		International: 18 (26.09%)
8 Interns	International : 3	Zakho University, Iraq
	National : 5	Polytech Clermont Ferrand, France
0.04011/0404	5.840A	Vellore Institute of Technology, India
8 MOU/MOA	5 MOA National : 1	MOA: Agreement on research collaboration and
	National: 1 International: 4	academic exchanges between University of Malaya &
	international . 4	NARA Institute of Science and Technology (NAIST), JAPAN; Beijing Genome Institute-Hong Kong Co., Ltd
		with 3 different PIs and Terra Garden Biotech Sdn.
		Bhd, Malaysia
	3 MOU	MOU: Student exchange between University of
	International : 3	Malaya and Nara Institute of Science and Technology
	international . 5	(NAIST), JAPAN; The University of Tehran, Iran and
		Asia Pacific International Molecular Biology Network
		(A-IMBN), Korea
2 Awards to CEBAR PI	National : 2	FRIM Publications Awards, FRIM, 2012 awarded to
and students		Prof. Dr. Rofina Yasmin binti Othman.
		First Prize in Poster Presentation. Chee CS, Alias Z, Tan
		IKP. 2012. Biochemical characterisation of isoforms of
		Glutathione S-Transferase (GSTs) purified from
		Acinetobacter calcoaceticus Y1. Abstracts of the 17th
		Biological Sciences Graduate Congress, 8-10
Intellectual consusció	C Datasta	December 2012, Bangkok, Thailand. p
Intellectual property	5 Patents	Pending: 5 National
CEBAR activities	8 Workshops	Topics included: Plant Biotechnology methods;
	2 Training course	genetic engineering; molecular biology techniques,
	7 Seminar/symposia	plant tissue culture; cryopreservation; biosafety
	2 Expositions (participation in	standard operating procedure development; grant
	booth exhibition)	preparation; scientific writing;

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Visitors hosted	12 National	International visitors: NAIST, Japan; Queen`s
	13 International	University Belfast, United Kingdom; Japanese Science
		Venture Company (Leave a Nest Co. Ltd.); University
		Aberystwyth, Bangor, & Reading, United Kingdom;
		Laboratory of Tropical Crop Improvement, Catholic
		University of Leuven, Belgium.
Physical Resources	Re-certification of Plant Biotech	The certification inspection was performed on August
and System	Facility to international standards	2012 and the certificate is valid until September 2013.
	for infrastructure and operation to	
	BSL-2	