

First International Symposium on Moringa  
Sixth National Moringa Congress

# Moringa

*a decade of advances  
in research and development*

November 15-18, 2015

Crowne Plaza Manila Galleria Hotel  
Manila, Philippines



Hosted by:

Moringaling Philippines Foundation, Inc. (MPFI)

# Moringa

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## Invitation and message from the Chairman of the International Symposium

Dear Colleagues,

On behalf of the organizing and scientific committees, I would like to invite you to the First International Symposium entitled **"Moringa: A Decade of Advances in Research and Development."** This meeting will be held at the **Crowne Plaza Manila Galleria Hotel, Manila, Philippines** from **November 15-18, 2015**.

The overall goal of this meeting is to bring together about 300 junior and senior scientists from the international community for a four-day symposium to share new knowledge and information on Moringa, the multi-purpose tree, and to promote the sustainability of its production, processing, utilization, marketing and trade as well as consumption for health and vitality, industry profitability and competitiveness in the context of globalization. The program includes invited speakers, poster sessions, student/fellow presentations, interactive discussion sessions, and free time for informal interaction with colleagues.

The upcoming symposium will continue the tradition of presenting and discussing the latest advances in Moringa research, development and industry in a wonderful location, with a relaxed and a collegial atmosphere.

Participants who may have special needs are asked to make their requests known to the organizers as soon as possible so that every effort can be made to address these needs. In addition, scientists from any discipline who may have an interest in the topics covered in this symposium are also encouraged to attend to enhance the quality of the discussions and interactions.

This first announcement will provide you with general information, the scientific program and important schedules of this symposium.

We look forward to seeing you in November 2015 in Manila, Philippines and thank you in advance for participating and contributing to the success of this event with your scientific contributions.

**MANUEL C. PALADA**

Chairman and Convener of the International Symposium  
Moringa: A Decade of Research and Development



Host:

Moringaling Philippines Foundation, Inc. (MPFI)

Organizers:

AVRDC - The World Vegetable Center  
International Society for Horticultural Science (ISHS)  
Central Philippine University (CPU)  
Farm Systems International Organization (FSI Org)



**AVRDC**  
The World Vegetable Center





# Moringa

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## Call for Papers

The symposium aims to encourage the sustainable improvement of Moringa production, market access, promotion and consumption for health and vitality, industry profitability and competitiveness in international trade. Prospective participants are invited to submit abstracts for papers on following topic areas:

### Session 1: Botany and Germplasm

*Topics: Ethnobotany and Germplasm*

- Taxonomy
- Biodiversity
- Breeding, varietal evaluation and improvement
- Ecological adaptation
- Seed and plant propagation

### Session 2: Production Technology & Agroecosystem

*Topics: Tree Crop Management*

- Climate and soil
- Cropping systems and production economics
- Integrated crop management with focus on Good Agricultural Practices (GAP)
- Low-input organic production
- Harvesting, postharvest and processing
- Good Manufacturing Practices (GMP)

### Session 3: Nutrition and Health

*Topics: Nutritional Benefits and Medicinal Properties*

- Moringa in traditional and alternative medicine
- Clinical studies on health benefits of Moringa
- Nutritional studies for improved health
- Nutritional quality of Moringa plant parts (leaf, fruit/pod, seed, root, flower)
- Moringa nutrition and health products in the market
- Food safety

### Session 4: Industrial Uses of Moringa

*Topics: Commercial and Industrial Utilization*

- Moringa in livestock and aquaculture feed industry
- Moringa as an alternative energy source (biofuel)
- Water treatment and clarification
- Moringa in cosmetics industry

### Session 5: Cross-Commodity/Sectoral Issues

*Topics: The Role of Moringa in Food Security and Poverty Alleviation*

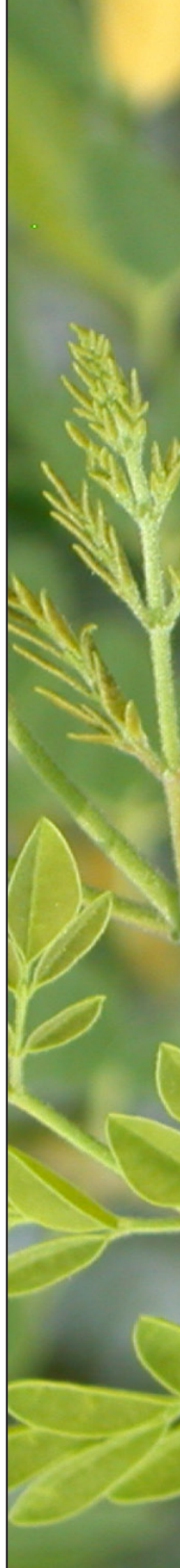
- Farmer participation and community livelihood development
- Moringa and climate change
- Urban and peri-urban horticulture
- Ecological sanitation
- Disaster risk management
- Organic Moringa production
- Market, quality standards and international trade
- Microfinancing

## Organizing Committee

- Chairman: **Manuel C. Palada**, Central Philippine University, Philippines
- Vice Chairman: **Honorio Tan**, Moringaling Philippines Foundation, Inc., Philippines
- Members: **Andreas W. Ebert**, AVRDC – The World Vegetable Center, Taiwan
- Ricky Bates**, Pennsylvania State University, USA
- Bernadette E. Arellano**, Moringaling Philippines Foundation Inc., Philippines
- Gina Matsuoka**, Moringaling Philippines Foundation, Inc., Philippines
- David Makin**, Moringa Propagation Company, Israel
- Rafael Barrozo**, University of the Philippines at Los Banos
- Secretariat: **Elena Van Tooren**, Moringaling Philippines Foundation, Inc., Philippines

## Scientific Committee

- Chairman: **Andreas W. Ebert**, AVRDC - The World Vegetable Center, Taiwan
- Members: **Manuel C. Palada**, CPU, Philippines
- Ricky Bates**, Pennsylvania State University, USA
- Jed W. Fahey**, Johns Hopkins University, USA
- Mark E. Olson**, University of Mexico, Mexico
- Abram J. Bicksler**, ECHO-Asia, Thailand
- Rafael S. Barrozo**, UPLB, Philippines
- David Makin**, Moringa Propagation Co., Israel
- Nikolaus Foidl**, Graz, Steiermark, Austria
- Mahmoud A. Sharaf-Eldin**, Sulman bin Abdulaziz University, Saudi Arabia





# Moringa

## Symposium Information

### Date and venue

The International Symposium on “*Moringa: A Decade of Advances in Research and Development*”, will be held from **November 15-18, 2015** at the **Crowne Plaza Manila Galleria, Manila, Philippines**.

Spectacular opportunities match its perfect location whether for business or leisure. Centrally located in the vibrant Ortigas Commercial District between Quezon City, Mandaluyong and Pasig, Crowne Plaza Manila Galleria is just a short walk from distinguished organizations such as the Asian Development Bank & Philippine Stock Exchange. The hotel is also directly connected to Robinsons Galleria Mall. Minutes from the hotel are must-see tourist destinations such as Greenhills Shopping Center and Tiendesitas. Providing easy access to other tourist spots is the nearby MRT – Ortigas station. Crowne Plaza is also located at the center of Metro Manila and is easily accessible to Makati, Bonifacio Global City and Ninoy Aquino International Airport. Each of the hotel's 263 guest rooms and suites offer spacious contemporary rooms with floor to ceiling windows, 42" LED TV & high-speed internet. If you are looking for exclusivity, stay at the Club Floor a private lounge located at the 19<sup>th</sup> floor with a view of the city. Special privileges include express check-in/out, complimentary refreshments and breakfast. Sample two of Manila's best dining destinations – Xin Tian Di, a Chinese premier restaurant, and Seven Corners, an international buffet restaurant. Relaxing facilities awaits your stay such as swimming pool, gym and spa.

**Website:** <http://www.ihg.com/crowneplaza/hotels/us/en/quezon-city/mnlcp/hoteldetail>

#### **Crowne Plaza Manila Galleria Hotel**

Ortigas Avenue Corner Asian Development Bank Avenue, Quezon City, 1100 Philippines

**Tel:** 63-2-633-7222

**Fax:** 63-2-638-2927

**Email:** [mnlcp@ihg.com](mailto:mnlcp@ihg.com)

Hotel reservations are recommended along with International Symposium on Moringa ISM2015 Conference registration for special rates. The Crowne Plaza and Holiday Inn are located in the conference complex. Tune Hotel is 10 minutes away. Room rates are given in PhP, indicative rates for US\$ given based on current exchange rate. The actual exchange rate at time of hotel booking will apply.

Room type	Crowne Plaza	Holiday Inn	Tune
Single	PhP 7,500 (US\$167)	PhP 6,000 (US\$133)	PhP 1,900 (US\$42)
Twin/Double	PhP 8,000 (US\$178)	PhP 6,500 (US\$144)	PhP 2,200 (US\$49)

Room prices/ rates are inclusive of government taxes, service charges and breakfast. Free wi-fi.

**Note:** There are many hotels and guesthouses near Crowne Plaza Hotel with internet access.



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### Getting to the venue

Manila City, the most modern and liveliest city in the Philippines is the center of commerce and the country's biggest city. Ninoy Aquino International Airport is located 7 km south of Manila City. ASEAN member countries can visit the Philippines without a visa. There are many daily flights from other countries to Manila City. There are domestic flights from other cities in the Philippines to Manila City such as: Cebu, Davao, Iloilo, Bacolod, etc.

### Weather

In general, Manila enjoys warm weather in November with temperature ranging from 22°C to 33°C. The humidity of 77% makes weather in November to January more pleasant than in the previous months. Warm sunshine, little rain, and festive atmosphere make November one of the best times to visit the Philippines.

	November	December	January
Average High	32°C	33°C	32°C
Average Low	23°C	22°C	21°C
Humidity	81%	77%	71%
Precipitation	110mm	50mm	26mm
Number of wet days	11 days	5 days	

### Transportation to and from hotel

#### Ninoy Aquino International Airport (MNL)

**Distance:** 9.32 miles/15.0 km southeast to hotel

**Taxi charge (one way):** 400.00PhP

**Time by taxi:** 30 minutes

From Ninoy Aquino International Airport Terminals 1 and 2, take MIA Road, turn left to Airport Road, 1.5 km turn right to Andrews Ave, left to Aurora (Tramo) Blvd, right to EDSA approx. 8 km, right to Ortigas Avenue after EDSA Shrine, right to ADB Avenue.

### Money

The official currency is Philippine Peso (PhP), but the US dollar and major credit cards (Visa, Master Card) are also widely accepted. In tourist centers, most hotels will accept either, while other businesses may prefer PhP. If you are arriving in Manila City by plane, make sure you change a small amount of foreign cash into local currency at the airport to pay your taxi fare.

### Facilities

The symposium secretariat office will be set up near the main conference room to facilitate and assist delegates and participants during the symposium. Services will be available from **0800 -1700 hrs from November 15-18, 2015.**



# Moringa

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## Language

The official language is English. No translation will be available during the symposium.

## Symposium registration

Registration is required to attend all scientific sessions. The registration form (see page 11) can be submitted by uploading to: <http://www.moringaling.net>

## Registration fee

Registration fees will cover one volume of Acta Horticulturae symposium proceedings, a conference bag with CD of abstracts, access to all plenary and poster sessions and parallel working groups, welcome drinks, coffee/tea breaks and lunches.

- US\$ 300 for ISHS members as well as members of the organizing institutions
- US\$ 380 for non ISHS members
- US\$ 50 for students
- US\$ 150 for one day registration

The registration fee must be submitted on or before **September 30, 2015**.

## Payment options

1. **PayPal:** The organizers will send the invoice for your registration fee to your e-mail address and payment can be made via MPFI's PayPal account using a credit card (Visa, Mastercard, or American Express). You do not need a PayPal account to use your credit card for this purpose.

2. **Bank draft/check:** Details are provided in the application form.

3. **On-site registration** at the start of the symposium may also be done with an additional amount of US\$ 20, bringing the total registration fee to US\$ 320 for ISHS members as well as members from the organizing institutions, and US\$ 400 for non ISHS members. Please note that registration forms received without payment do not constitute registration. Upon acceptance of registration and payment of fee, a "Registration Card" will be issued to the participant.

## Financial support

The organizing committee does not have funds available to offer for travel assistance and accommodation. However, it may be possible to grant partial support for a limited number of participants from developing countries subject to available funds from sponsors and donors.

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### Guidelines for paper and poster submission

The Organizing Committee invites you to submit the abstracts for oral or poster presentations on the following topics:

- Ethnobotany, Genetics, Biodiversity, Ecological Adaptation
- Plant Propagation
- Climate, Soil, Agronomy
- Cropping Systems and Production Economics
- Harvesting, Postharvest and Processing
- Nutrition and Nutritional Quality
- Medicinal Properties, Uses and Benefits
- Livestock Feed
- Industrial Uses: Biofuel, Cosmetics, Water Treatment
- Food Safety, Quality Standards and International Trade
- Farmer Participation and Community Livelihood Development
- Moringa and Climate Change

All abstracts are restricted to a maximum of 300 words. Use Times New Roman font exclusively. Titles are typed in 14 point, bold. The rest of the abstract should be 12 point, single line spaced. All abstracts must be written in English using the following file formats: **Microsoft Word Document (\*.doc) or (\*.docx)**. Your abstract will be submitted to the Scientific Committee for evaluation and presenters will be notified regarding the status of their abstracts (oral or poster presentation) and date of presentation. The committee may request some papers nominated for oral presentation by authors to be presented as posters. All oral presenters must submit a manuscript for Acta Horticulturae and authors of posters are welcomed to submit their manuscript for Acta Horticulturae. Please refer to the ISHS website for author instructions for the presentation of papers at: <http://www.ishs.org/authors>

Submit your abstract to: <https://avrdc.submittable.com/submit>

If you are unable to submit your abstract online, please send it via email attachment to:

**Dr. Andreas W. Ebert**

Email: [andreas.ebert@worldveg.org](mailto:andreas.ebert@worldveg.org)

**Dr. Manuel C. Palada**

Email: [mpalada@gmail.com](mailto:mpalada@gmail.com); [mpalada@uvi.edu](mailto:mpalada@uvi.edu); [mcp@farmsystemsintl.org](mailto:mcp@farmsystemsintl.org).

### Visual aids

A computer and LCD projector will be available to assist the speakers for their oral presentation.

### Tours: Post-Conference Field Trips

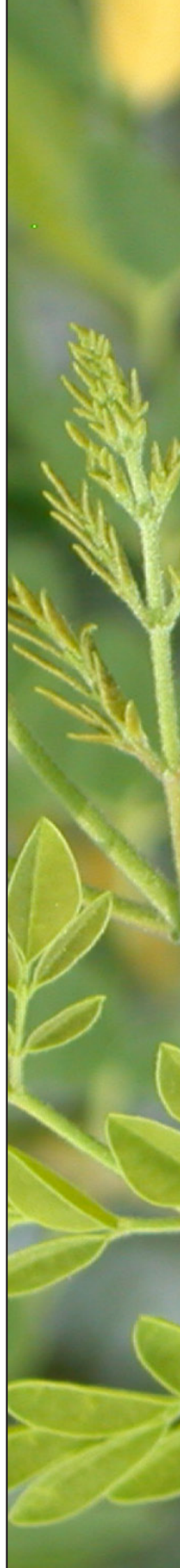
Post-conference tours will be arranged after the symposium. These activities are not included in the participant's registration fee but available for a supplementary fee. Reservations can be made by completing the registration for post-conference tours.

Expected tours include:

**Tour 1:** Estrella Moringa Farm – Carmen, Pangasinan

**Tour 2:** Moringa Propagation Company – San Fernando, Pampanga

**Tour 3:** JPM/Japan-Philippines Malunggay Eco Farm, Tranca Bay, Laguna







# Moringa

## Important dates

Deadline for abstract submission	February 28, 2015
Notification of abstract acceptance	May 31, 2015
Deadline for early-rate registration	July 15, 2015
Deadline for registration	October 30, 2015
Deadline for full paper submission	December 30, 2015
Conference	November 15 – 18, 2015

## Correspondence

### **Moringaling Philippines Foundation, Inc.**

Main Office:

G/F PITAHC Bldg. East Avenue Medical Center East Ave.

Quezon City 1104 Philippines

Mobile No. 0925-843-0033

Email: [moringalingfoundation@yahoo.com.ph](mailto:moringalingfoundation@yahoo.com.ph)

Website: [www.moringaling.net](http://www.moringaling.net)

## Contact

### **CONVENERS**

#### **Dr. Manuel C. Palada**

Visiting Professor, College of Agriculture, Resources and Environmental Sciences

Central Philippine University, Lopez Jaena St., Jaro, Iloilo City 5000 Philippines

Tel.: (63-33) 333-1795

Cell Phone: (63) 922-871-9065

Fax: (63-33) 320-3685

Email: [mpalada@gmail.com](mailto:mpalada@gmail.com); [mpalada@uvi.edu](mailto:mpalada@uvi.edu); [mcp@farmssystemsinl.org](mailto:mcp@farmssystemsinl.org).

#### **Dr. Andreas W. Ebert**

Genebank Manager and Head, Genetic Resources and Seed Unit

AVRDC – The World Vegetable Center

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Fax: (866-6) 583-0009

Email: [andreas.ebert@worldveg.org](mailto:andreas.ebert@worldveg.org)

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### SECRETARIAT

#### **Ms. Elena Van Tooren**

Secretariat Chair

Moringaling Philippines Foundation, Incorporated (MPFI)

G/F PITAHC Building

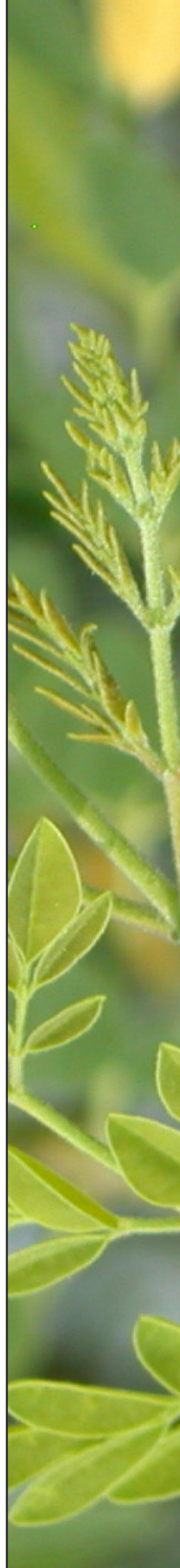
East Avenue Medical Center

East Avenue, Diliman, Quezon City

Metro Manila, Philippines 1104

Cell phone: (63) 917-539-9625

Email: [bing.vantooren@yahoo.com](mailto:bing.vantooren@yahoo.com)



## Tentative Program

**Program updates will be uploaded to the symposium website at regular intervals.**

TIME	NOVEMBER 15	TOPICS
08.00-17.00	Registration	
TIME	NOVEMBER 16	TOPICS
07.30-08.15	Registration	
08.30 -10.00	Opening Program	
10.00-1030	Coffee Break	
10.30-12.00	SESSION 1: Botany and Germplasm	Taxonomy, biodiversity, breeding, varietal improvement, ecological adaptation, seed and plant propagation
12.00-13.30	LUNCH	
13.30-15.00	SESSION 2: Production Technology	Climate & soil, cropping systems, good agricultural practices (GAP), low-input organic production, harvesting, postharvest, processing, good manufacturing practices (GMP)
15.00-15.30	Coffee Break	
15.30-17.00	SESSION 3A: Nutrition and Health	Traditional and alternative medicine, nutritional studies for improved health, nutritional quality, food safety
18.30-21.30	Dinner and Cultural Show	
TIME	NOVEMBER 17	TOPICS
08.30-10.00	SESSION 3B: Nutrition and Health	Traditional and alternative medicine, nutritional studies for improved health, nutritional quality, food safety
10.00-10.30	Coffee Break	
10.30-12.00	SESSION 4: industrial uses	Livestock feed, alternative energy (biofuel) water treatment, cosmetics
12.00-13.00	Lunch Break	
13.00-14.00	Poster Session	
14.00-15.30	SESSION 5: Cross-Sectoral Issues	Climate change, urban/peri-urban horticulture, farmer participation and community livelihood development, market, quality standards, international trade, microfinance
15.30-16.00	Coffee Break	
16.00-17.00	Closing Program	
TIME	NOVEMBER 18	
08.30-16.30	Field Tours	



# Registration Form

INTERNATIONAL SYMPOSIUM ON MORINGA  
MORINGA: A DECADE OF ADVANCES IN RESEARCH AND DEVELOPMENT  
NOVEMBER 15-18, 2015  
CROWNE PLAZA MANILA GALLERIA HOTEL  
MANILA, PHILIPPINES

DELEGATE INFORMATION				
LAST NAME / FAMILY NAME	FIRST NAME	TITLE (PROF/DR/MR/MS/MRS)	GENDER	NATIONALITY
ACCOMPANYING PERSONS (NO ADMISSION TO SCIENTIFIC SESSIONS)				
LAST NAME / FAMILY NAME	FIRST NAME	TITLE (PROF/DR/MR/MS/MRS)	GENDER	NATIONALITY
OFFICE ADDRESS				
NAME OF THE INSTITUTE				
DEPARTMENT				
STREET/CITY				
STATE				
POST/ZIP CODE				
COUNTRY				
PHONE				
MOBILE				
FAX				
E-MAIL				

CONTACT PERSON IN CASE OF EMERGENCY:	
NAME	
STREET/CITY	
STATE	
POST/ZIP CODE	
COUNTRY	
PHONE	
MOBILE	
FAX	
E-MAIL	

REGISTRATION CATEGORY (PLEASE TICK THE APPROPRIATE BOX)	
ISHS MEMBER	<input type="checkbox"/>
NON-ISHS MEMBER	<input type="checkbox"/>
STUDENT	<input type="checkbox"/>
ACCOMPANYING PERSON	<input type="checkbox"/>

I AM INTERESTED TO ATTEND (PLEASE TICK THE APPROPRIATE BOXES):	
SESSION 1: BOTANY & GERMPLASM	<input type="checkbox"/>
SESSION 2: PRODUCTION TECHNOLOGY	<input type="checkbox"/>
SESSION 3: NUTRITION & HEALTH	<input type="checkbox"/>
SESSION 4: INDUSTRIAL USES	<input type="checkbox"/>
SESSION 5: CROSS-SECTORAL	<input type="checkbox"/>
ALL OF THE ABOVE	<input type="checkbox"/>

PAYMENT OPTIONS (PLEASE CHOOSE ONE)		
<b>OPTION 1</b> (PAYPAL)	The organizers will send the invoice for your registration fee to your e-mail address and payment can be made via MPFI's PayPal account using a credit card (Visa, Mastercard, or American Express). You do not need a PayPal account to use your credit card for this purpose.	<input type="checkbox"/>
<b>OPTION 2</b> (PAY BY CHECK / BANK DRAFT)	<p>You can write a check or obtain a bank draft in the name of 'MPFI' and send it to the following address:</p> <p style="text-align: center;"> Moringaling Philippines Foundation, Inc.  G/F PITAHC Building  East Avenue, Diliman, Quezon City  Metro Manila, Philippines 1104 </p> <p>Kindly indicate that the check/bank draft is for the payment of the "registration fee" for the International Symposium on Moringa</p>	<input type="checkbox"/>
<b>OPTION 3</b> (ON-SITE REGISTRATION)	You can submit registration payment to the organizers on the first day of the workshop. An additional amount of US\$ 20 will be charged for on-site registration. An area will be designated at the workshop venue to receive registration fees.	<input type="checkbox"/>

## CONFIRMATION

The registration will be completed and confirmed by e-mail upon receipt of the payment (for options 1 and 2).

For participants who prefer option 3, kindly proceed to the designated registration area at the lobby of the venue for payment of registration fee.

## PLEASE RETURN THIS FORM TO THE ORGANIZING COMMITTEE:

**MORINGALING PHILIPPINES FOUNDATION, INC.**  
**G/F PITAHC BUILDING**  
**EAST AVENUE, DILIMAN, QUEZON CITY**  
**METRO MANILA, PHILIPPINES 1104**  
**EMAIL: MORINGALINGFOUNDATION@YAHOO.COM.PH**