## **Contributing Authors**

**Chapter I** Introduction, by Takuji Ohyama (Japan)

**Chapter II** General Methods to Evaluate Microbial Activity

**Section 1** Isotopic methods with a subsection on N<sub>2</sub>-fixing activity, by Takuji Ohyama (Japan),

and a subsection on P-solubilizing activity, by Pham Van Toan (Vietnam)

Section 2 Conventional methods with a subsection on N<sub>2</sub>-fixing activity, by Takuji Ohyama

(Japan), and a subsection on P-solubilizing activity, by Pham Van Toan (Vietnam)

**Chapter III** Carriers for Biofertilizers

**Section 1** Carrier materials, by Keishi Senoo (Japan)

**Section 2** Carrier sterilization using  $\gamma$ -irradiation, by Issay Narumi (Japan)

Chapter IV Inoculant for Biofertilizer

Section 1 Rhizobium Inoculant with a subsection on the introduction and the isolation of

Rhizobium strains, by Tadashi Yokoyama (Japan), Achara Nuntagij (Thailand) and Pham Van Toan (Vietnam), a subsection on the Rhizobial inoculant production, by Pham Van Toan (Vietnam), Keishi Senoo (Japan) and Panlada Tittabutr (Thailand), a subsection on the introduction to the *Rhizobium* supplier and field experiments in Japan, by Takuji Ohyama and Mari Miura (Japan), a subsection on the inoculant application, by Pham Van Toan (Vietnam), and a subsection on the field experiments related to new inoculation and fertilization methods for soybean in Japan, by Takuji Ohyama and

Kaushal Tewari (Japan)

Section 2 Non-Symbiotic Nitrogen Fixers with subsections on the introduction, the isolation of

microbial strains and the inoculant production, by Mercedes U. Garcia and Juliet A. Anarna (BIOTECH, U.P.L.B College, the Philippines), and Pan Jiarong (China), subsections on the application of biofertilizer from associative nitrogen fixing bacteria and the cautions and limitations of biofertilizer, by Mercedes U. Garcia and Juliet A. Anarna (the Philippines), Pan Jiarong (China) and Soertini Gandanegara (Indonesia),

and a subsection on the tips on buying and storage of biofertilizers, by Soertini

Gandanegara (Indonesia)

Section 3 Mycorrhiza with a subsection on the introduction, by Masanori Saito (Japan), Omsub

Nopamornbodi and Supaporn Thamsurakul (Thailand), subsections on the benefits of Mycorrhizal biofertilizer, the inoculant application, and preservation and precautions, by

Omsub Nopamornbodi and Supaporn Thamsurakul (Thailand), a subsection on the isolation of Arbuscular Mycorrhizal fungi, by Masanori Saito (Japan), a subsection on

the Inoculant production, by Khairuddin Bin Abdul Rahim (Malaysia)

**Section 4** Phosphate Solubilizers, by Jang Sun Suh (Korea)

## **Chapter V Quality Control of Biofertilizers**

Section 1 General concept of quality control, by Jang Sun Suh (Korea), Pan Jiarong (China) and Pham Van Toan (Vietnam)

Procedures for quality control of biofertilizer with a subsection on *Rhizobium*, by Somchai Patiyuth (Thailand), a subsection on non-symbiotic N<sub>2</sub>-fixer, by Mercedes U. Garcia and Juliet A. Anarna (the Philippines), a subsection on Mycorrhiza-the arbuscular mycorrhizal fungi, AMF, by Khairuddin Bin Abdul Rahim (Malaysia) and a subsection on Phosphate Solubilizers, by Jang Sun Suh (Korea)