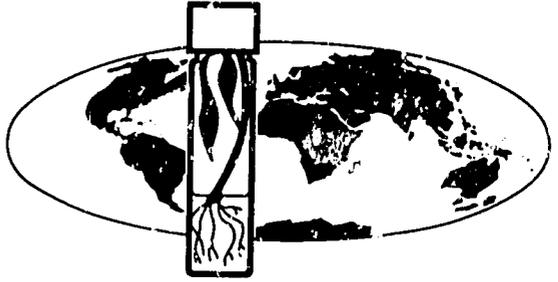


PMI-ABC-416



The International  
Plant Biotechnology  
Network

IPBNet  
Directory 1989  
And International Funding Resource List

The IPBNet Directory is published by the Tissue Culture for Crops Project, a program of the U.S. Agency for International Development.

Colorado  
State  
University

For more information about the Tissue Culture for Crops Project, contact either:

Dr. Murray Nabors  
Tissue Culture for Crops Project  
Department of Biology  
Colorado State University  
Fort Collins, CO 80523 USA

or

Dr. Joel Cohen  
Office of Agriculture  
Bureau of Science and Technology  
United States Agency for International Development  
Washington, D.C. 20523 USA

# Introduction

The International Plant Biotechnology Network (IPBNet) is the information services, technical assistance, and training component of the Tissue Culture for Crops Project (TCCP) at Colorado State University. The TCCP began in 1980 as a centrally funded program of the Bureau of Science and Technology, U.S. Agency for International Development. The Project seeks to develop methodologies for improved stress-tolerant germplasm in several cereal and grain legume crops. The International Plant Biotechnology Network was formed in 1985 when 400 informal surveys were sent to the International Agricultural Research Centers (IARCs), USAID Missions, University programs in less developed countries (LDC) and developed countries, embassies, and individuals on the existing mailing list. The mailing list now contains over 1,000 scientists in nearly 100 countries. A six-month tissue culture training course is offered biannually at CSU, in addition to several specialized short courses lasting four to six weeks each. Regional Training Programs have also been established with IPBNet collaborators, using tissue culture technologies and plant material of regional importance. Participants in the Regional Programs are instructed in the language appropriate to the region (Spanish and French to date).

Although the TCCP concentrates primarily on cereal crop research, IPBNet exists as a cell and tissue culture methodology support network. The Directory serves as a means of connecting members by providing basic information essential to further communication and collaboration. The **1989 IPBNet Directory** contains **Research Material and Country Indexes** beginning on page 121.

There are no IPBNet membership fees; only participation is requested. If you wish to be included in the next edition of the Directory, or would like to modify existing information, please complete and return the **IPBNet Directory 1990** form.

An **International Funding Resource List** begins on page 140. If you know of an organization that should be included in the Resource List, or if you have additional information on any of the existing listings, please fill out the **Funding Resource Questionnaire** on page 141, or forward it to the appropriate person.

# IPBNet Directory 1990

Dr.  
Mr.  
Ms.

\_\_\_\_\_

Family	First	Middle
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Address:

Phone number: \_\_\_\_\_

country code	city code (area code)	phone number
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Telex:

FAX:

Position or Job Title:

**Research Material** (list two principal plant species within each category;  
genus and species name, and common name)

Agriculture:

Horticulture:

Forestry:

Other:

**Research Focus** (circle appropriate categories)

*In vitro* culture

Propagation

Breeding/Field selection for (please complete)

Stress selection (Al, NaCl, water relationships, temperature, disease)

Physiological mechanisms

**Research Technology** (circle appropriate categories)

Meristem culture

Cell culture

Anther culture

Embryo culture

Protoplast technology

Molecular biology

Gene transformation

RFLP

Field evaluation

Other

*continued on next page*

How many full time scientists (including yourself, other scientists, graduate students and technicians) work in your lab?

**Additional Information**

Please return this questionnaire with any additional information regarding your research program to:

Kerri L. Wright  
IPBNet Coordinator  
Tissue Culture for Crops Project  
Colorado State University  
Fort Collins, CO 80523, USA

**IF YOU ARE NOT LISTED IN THE 1989 DIRECTORY, OR IF YOU WISH TO MODIFY RESEARCH INFORMATION AND/OR INCLUDE PHONE/TELEX/FAX NUMBERS FOR THE 1990 DIRECTORY, RETURN THIS SHEET BY JANUARY 1, 1990.**

U

# DIRECTORY OF IPBNet MEMBERS

## A

### **Dr. Mohamed Aaouine**

Professor

IAV Hassan II

Complexe Horticole d'Agadir

B.P. 121

Ait Melloul

Agadir, Morocco

Research Material: potato strawberry date palm argan tree

Research Focus: stress selection (general) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture  
somaclonal variation

Additional Information: Coordinator for IAV Hassan II/TCCP  
training course

### **Mr. Herman Adams**

Researcher and Breeder

CARDI

282 Forshaw Street

Queenstown, Georgetown, Guyana

Research Material: soybean sorghum

Research Focus: breeding/field selection (acid tolerance)

Research Technology: field evaluation

### **Dr. Robert P. Adams**

Professor and Director of Research

DNA Bank-Net

BU Box 7372

Baylor University

Waco, TX 76798, USA

Research Material: endod juniper

Research Focus: *in vitro* culture

Research Technology: meristem culture molecular biology

Other: cryopreservation DNA extraction and storage

**Dra. Elda D. Adiningrat**

Researcher

Perum Perhutani

Gedung Manggala Wanabakti Blok IV. Lt. IV

Jl. Jen. Gatot Subroto senayan

Jakarta Pusat., Indonesia

Research Material: maize soybean coffee clove teak pine

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Yaw Adu—Ampomah**

Plant Breeding Division

Cocoa Research Institute of Ghana

P. O. Box 8

Tafo—Akim, Ghana

Research Material: cocoa

Research Focus: propagation breeding/field selection (disease resistance)  
*in vitro* culture

Research Technology: meristem culture somaclonal variation  
field evaluation

Additional Information: mutation breeding through *in vitro* culture for  
resistance to cocca swollen shoot virus and black pod  
diseases

**Mr. Chokechai Aekatasanwan**

Researcher

National Corn and Sorghum Research Center

Pakchong

Nakornratchasima 30130, Thailand

Research Material: maize

Research Focus: breeding

**Dr. Beena Agarwal**

Director

National Agricultural and Scientific Research Foundation

113/2, Amherst Street

Calcutta 700009, India

Research Material: tea jojoba *Hemerocallis Mussaenda* coconut  
betel nut orchids

Research Focus: stress selection (temperature disease resistance)  
propagation *in vitro* culture

Research Technology: meristem culture protoplast technology  
somaclonal variation field evaluation

Additional Information: phytochemical analysis of superior tea and  
jojoba

**Dr. Dinesh C. Agrawal**

Research

Division of Biochemical Sciences

National Chemical Laboratory

Pune 411 008, India

Research Material: *Vateria macrocarpa Pterocarpus santalinus*

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

Additional Information: conservation project of endangered plant species by tissue culture

**Dr. Vishwanath P. Agrawal**

Director

Research Laboratory for Agricultural Biotechnology

P.O. Box 2128

Kathmandu, Nepal

Research Material: *Pinus roxburghii Pinus wallichiana*

Research Focus: propagation *in vitro* culture

Research Technology: cell culture

**Ms. Lesbia E. Aguilar B.**

Researcher

Departamento de Papa

Ministerio de Desarrollo Agropecuario

y Reforma Agraria

Esteli, Nicaragua

Research Material: potato

Research Focus: stress selection (disease resistance) propagation *in vitro* culture

Research Technology: meristem culture

Additional Information: attended CATIE/TCCP training course fall 1988

**Mr. Jose A. Aguilar Flores**

Student

Centro de Recursos Naturales (CENREN)

Proyecto Madelena – CENREN/CATIE

Soya Pango, San Salvador, El Salvador

Research Material: eucalyptus tropical plants

Research Focus: *in vitro* culture

Research Technology: meristem culture

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. Beant S. Ahloowalia**

Principal Research Officer, Geneticist

Plant Biotechnology Department

Agricultural Institute

Kinsealy Research Center

Dublin 14, Ireland

Research Material: barley potato sitka spruce

Research Focus: propagation breeding (tuber shape eye-depth)  
*in vitro* culture

Research Technology: meristem culture somaclonal variation

**Mr. N'goran Ahoussou**

Department de Botanique et Biologie Vegetale

Faculte des Sciences

Universite d'Abidjan

04 B P 322

Abidjan 04, Cote d'Ivoire

Research Material: yam

Research Focus: propagation breeding

**Mr. Muhammad Akbar**

Plant Breeder

IRRI

P O Box 933

Manila, Philippines

Research Material: rice

Research Focus: stress selection (Al NaCl temperature)

Research Technology: field evaluation

**Dr. Esteban B. Akiew**

Associate Professor

College of Agriculture

Benguet State University

La Trinidad

Benguet 0211, Philippines

Research Material: strawberry

Research Focus: propagation

Additional Information: micropropagation for production of virus-free plants

**Dr. Ahmed Medhat Al Naggar**

Associate Professor

Department of Agronomy

Faculty of Agriculture

Cairo University

Giza, Egypt

Research Material: maize wheat strawberry date palm

Research Focus: stress selection (NaCl water relationships  
disease resistance) breeding

Research Technology: protoplast technology somaclonal variation  
transformation

**Dr. Zaliha Christine Alang**

Associate Professor

Department of Biotechnology

Faculty of Food Science

University of Agriculture, Malaysia

Serdang, Selangor, Malaysia

Research Material: sago palm oil palm muskmelon chili  
*Acacia mangium* illipie nut

Research Focus: propagation

Research Technology: somatic embryogenesis cryopreservation

**Mr. Pedro P. Andrade de Almeida**

Student

Department of Agriculture

Superior School of Agriculture, Lavras

Cep. 37200

Lavras-Minas Geraes, Brazil

Research Material: oil palm tropical fruits mycorrhizae

Research Focus: propagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. David W. Altman**

Researcher

USDA

Cotton & Grain Crops Genetics

P.O. Drawer DN

College Station, TX 77841, USA

Research Material: cotton wheat

Research Focus: breeding genetics

Research Technology: cell culture somaclonal variation transformation

**Dr. Muhammad Nurul Amin**

Assistant Professor

Department of Botany

University of Rajshahi

Rajshahi, Bangladesh

Research Material: mungbean pigeonpea guava litchi mahogany  
epil epil

Research Focus: stress selection (NaCl drought) propagation

Research Technology: meristem culture somaclonal variation

Additional Information: micropropagation and conservation of minor  
tropical fruit trees

**Dr. Mohammed Ammati**

Associate Professor

Department of Plant Pathology

Institut Agronomique et Veterinaire Hassan II

B.P. 438

Agadir, Morocco

Research Material: vegetable crops

Research Focus: stress selection (disease resistance)

Additional Information: cropping systems to control plant diseases

**Dr. Pimchai Apavatjrit**

Assistant Professor

Department of Horticulture

Faculty of Agriculture

Chiang Mai University

Chiang Mai 50002, Thailand

Research Material: tea orchids hydrangea teak melia

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Dr. Paul V. Arulpragasam**

Researcher

Tea Research Institute

Tissue Culture Project

Talawakele, Sri Lanka

Telex: 21304 TBOARD CE

Research Material: tea eucalyptus

Research Focus: stress selection (drought disease resistance)

propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation  
anther culture

**Dr. Azis Azirin Asandhi**

Director

Lembang Horticultural Research Institute

P.O. Box 587

Bandung, Indonesia

Research Material: bean potato garlic orchids bulb crops

Research Focus: stress selection (temperature disease resistance)  
propagation

Research Technology: cell culture

**Ms. Evalour T. Aspuria**

Researcher

Department of Horticulture

University of Philippines at Los Baños

College, Laguna, Philippines

Research Material: abaca ramie sugarcane banana

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Dr. Atanan Ivanov Atanassov**

Director

Central Laboratory of Genetic Engineering

2232 Kostinbrod – 2

Kostinbrod, Bulgaria

Research Material: alfalfa barley tomato potato pine oak

Research Focus: stress selection (NaCl drought temperature  
disease resistance) propagation *in vitro* culture

Research Technology: meristem culture cell culture  
protoplast technology somaclonal variation  
transformation cytology

Additional Information: biochemical, immunochemical and  
molecular markers

**Dr. Supat Attathom**

Head

Plant Genetic Engineering Unit

Kasetsart University

Kamphaengsaen Campus

Nakorn Pathom 73140, Thailand

Research Material: tomato pineapple

Research Focus: stress selection (disease resistance)

Research Technology: meristem culture protoplast technology  
molecular biology

**Mr. Renato A. Avenido**

Researcher

UPLB

Institute of Plant breeding

Tissue Culture Section

University of the Philippines at Los Baños

College, Laguna 3720, Philippines

Research Material: wheat mungbean citrus other fruit trees  
rattan bamboo

Research Focus: stress selection (temperature) propagation  
*in vitro* culture

Research Technology: somaclonal variation endosperm culture

Additional Information: attended TCCP training course fall 1986

**Dr. Abdel Rahman Awad**

Professor

Department of Horticulture

Faculty of Agriculture

Zagazig University

Zagazig, Egypt

Research Material: oil palm bulb chrysanthemum conifers

Research Focus: stress selection (NaCl water relationships  
disease resistance) propagation  
*in vitro* culture

Research Technology: meristem culture

**B**

**Dr. Shashi B. Babbar**

Department of Botany

University of Delhi

Delhi 110007, India

Research Material: petunia *Datura metel*

Research Focus: stress selection (temperature) breeding  
*in vitro* culture

Research Technology: anther culture

**Mr. Raed Bakheet**

Researcher

Department of Biology

King Abdul Aziz University

P.O. Box 9028

Jeddah 21413, Saudi Arabia

Research Material: wheat

Research Focus: stress selection (water relationships)  
*in vitro* culture

Research Technology: somaclonal variation

Additional Information: attended TCCP training course fall 1986

**Mr. Roger D. Bancroft**

Researcher and Member of Professional Staff

Caribbean Agricultural Research and Development Institute

P. O. Box 64

Cave Hill Campus

St. Michael, Barbados

Research Material: yam sweet potato *Anthurium*

Research Focus: field selection (superior agronomic characteristics)  
propagation *in vitro* culture

Research Technology: meristem culture field evaluation

**Dr. Mitali Banik**

Scientific Officer

Plant Physiology Division

Bangladesh Rice Research Institute

Joydebpur, Gazipur, Bangladesh

Research Material: rice orchids

Research Focus: stress selection (NaCl) propagation breeding  
*in vitro* culture

Research Technology: anther culture explant culture (shoot tip  
leaf segment root tip)

Additional Information: studies on stress (drought) physiology

**Dr. Ramon Barba**

Researcher

Institute of Plant Breeding

College of Agriculture

University of the Philippines at Los Baños

Laguna, Philippines

Research Material: potato banana rattan citrus ornamentals bamboo

Research Focus: stress selection (disease resistance) propagation

Research Technology: somaclonal variation

Additional Information: germplasm conservation

**Dr. Mehdi Barghchi**

Researcher

Plant Physiology Division

Department of Scientific and Industrial Research (DSIR)

Private Bag

Palmerston North, New Zealand

Research Material: saffron pistachio tamarillo black locust alder  
N-fixing plants fuel plants woody plants

Research Focus: stress selection (NaCl water relationships  
temperature) propagation breeding (plant  
improvement) *in vitro* culture

Research Technology: meristem culture cell culture  
somaclonal variation field evaluation

Additional Information: germplasm conservation, high health plants

**Ms. Anjana Baruah**

Scientist

Regional Research Laboratory

Jorhat, Assam 785006, India

Research Material: *Cicer Dipterocarpus macrocarpus Sorea assamica*  
*Bamboo Cymbopogon*

Research Focus: stress selection (water relationships  
temperature) propagation *in vitro* culture

Research Technology: meristem culture cell culture  
somaclonal variation

Additional Information: working to regenerate tolerant *Cicer* strains  
for high humidity

**Dr. Jayampathi Basnayake**

Research Officer

Sugarcane Research Institute

Uda-walawe, Sri Lanka

Research Material: sugarcane wheat orchids

Research Focus: stress selection (water relationships  
disease resistance) breeding

Research Technology: meristem culture somaclonal variation

**Mrs. W. V. Shiromani Basnayake**

Research Officer

Sugarcane Research Institute

Uda-walawe, Sri Lanka

Research Material: sugarcane wheat orchids

Research Focus: stress selection (water relationships  
disease resistance) breeding

Research Technology: meristem culture somaclonal variation

**Dr. Roger N. Beachy**

Director

Center for Plant Science and Biotechnology

Biology Department

Box 1137

Washington University

St. Louis, Missouri 63130, USA

Research Material: tobacco tomato cassava

Research Focus: stress selection (disease resistance ) propagation  
breeding

Research Technology: molecular biology/transformation

Additional Information: produce virus disease resistance by coat proteins,  
cross protection

**Dr. Abdel-Fattah H. Belal**

Researcher

P. O. Box 319

Dokki, Giza, Egypt

Research Material: alfalfa sorghum *Kochia Atriplex*

Research Focus: stress selection (NaCl water relationships  
temperature disease resistance) *in vitro* culture

Research Technology: cell culture somaclonal variation field evaluation

**Mr. Abdallah Ben Abdallah**

Centre de Recherches Phoenicoles INRAT

Avenue de l'Independance

2080 Ariana Tunis, Tunisia

Research Material: date palm

Research Focus: propagation *in vitro* culture

**Ms. Ouafae Benlhabib**

Associate Professor

Department of Agronomy

IAV Hassan II

B.P. 6202, Rabat

Morocco

Telex: 31873 AGROVET

Research Material: barley wheat tomato

Research Focus: stress selection (NaCl drought disease resistance)  
breeding *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation anther culture

Additional Information: attended TCCP training course fall 1986,  
Instructor for IAV Hassan II/TCCP  
training course summer 1989

**Ms. Daksha P. Bhatt**

Assistant Professor

Department of Botany

Faculty of Science

The M. S. University of Baroda

Baroda 390002, India

Research Material: grass pea soybean eggplant tobacco

Research Focus: stress selection and breeding (disease resistance)  
*in vitro* culture

Research Technology: cell culture protoplast technology  
molecular biology/transformation

**Dr. Prashant N. Bhatt**

Associate Professor

Department of Botany

Faculty of Science

The M. S. University of Baroda

Baroda 390002, India

Research Material: tobacco pigeonpea *Vigna* tomato *Bryophyllum*  
plants of medicinal and commercial value

Research Focus: stress selection (NaCl disease resistance)  
breeding (disease resistance) *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation molecular biology/transformation  
Other: differentiation of specific proteins

**Dr. Nandkishor S. Bhikne**

Researcher

Plant Tissue Culture Laboratory

Maharashtra Hybrid Seeds Company, Limited

B-4, Industrial Estate

Jalna, Maharashtra 431203, India

Research Material: sunflower pigeonpea papaya *Lycopersicon esculantum*  
*Brassica Sesame*

Research Focus: stress selection (NaCl) propagation  
breeding (disease resistance) *in vitro* culture

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation field evaluation

Other: embryo culture of interspecific and  
intergeneric crosses

Additional Information: effect of pathotoxins on cell culture

**Dr. Sant S. Bhojwani**

Associate Professor  
Department of Botany  
University of Delhi  
Delhi 110007, India  
Research Material:

*Brassica juncea* *Gladiolus*  
*Pinus girardiana* *Leucaena leucocephala*

Research Focus: propagation breeding  
Research Technology: meristem culture somaclonal variation  
Additional Information: conservation of endangered species

**Dr. E. T. Bingham**

Professor  
Agronomy Department  
University of Wisconsin  
1575 Linden Drive  
Madison, WI 53706, USA

Research Material: alfalfa soybean  
Research Technology: somaclonal variation transformation

**Dr. Aht Boonitee**

Faculty  
Botany Department  
Kasetsart University  
Bangkok 10900, Thailand

Research Material: maize  
Research Focus: propagation breeding *in vitro* culture

**Prof. Sadok Bouzid**

Laboratoire de Biologie Vegetale  
Faculte des Sciences de Tunis  
Campus Universitaire  
Tunis, Belvedere, Tunisia

Research Material: citrus  
Research Focus: stress selection (disease resistance)  
*in vitro* culture

**Dr. D. S. Brar**

Researcher

Department of Plant breeding

Punjab Agricultural University

Ludhiana 141004, India

Research Material: rice wheat citrus tomato eucalyptus

Research Focus: stress selection (disease resistance) propagation  
breeding *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation transformation anther culture

**Dr. Ricardo Bressani**

Head

Division Quimica Agricola y de Alimentos

INCAP, Apdo. Postal 1188

Guatemala City, Guatemala

Research Material: legumes black bean maize

Research Focus: breeding

Research Technology: cell culture protoplast technology  
transformation

**Ms. Rosemarie Bressani**

Researcher

6a Calle "A", 7-74 Zona 9

Guatemala, Guatemala

Research Material: maize black bean orchids ornamentals

Research Focus: propagation *in vitro* culture

Research Technology: cell culture transformation

Additional Information: attended TCCP training course fall 1987

**Dr. Veronica F. A. Broomes**

Research Scientist

National Agricultural Research Institute

Mon Repos

East Coast Demerara, Guyana

Research Material: cassava sweet potato orchids pineapple

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Dr. Larry G. Butler**

Professor

Department of Biochemistry

Purdue University

West Lafayette, IN 47907 USA

Research Material: sorghum millet

Research Focus: stress selection (disease resistance birds *Striga*)  
*in vitro* culture

Research Technology: somaclonal variation field evaluation

Additional Information: general area is polyphenols: biological effects (resistance to pests; antinutritional effects) and biosynthesis

**C**

**Mr. Qihua Cai**

Researcher

Section of Plant Mutation breeding

Institute of Nuclear Agricultural Science

Zhejiang Agricultural University

Hangzhou, PRC

Research Material: rice wheat

Research Focus: stress selection (disease resistance)  
breeding/field selection (hybrid rice)  
*in vitro* culture

Research Technology: somaclonal variation field evaluation

**Dr. John E. Call**

Manager

Agricultural Research and Development

Gilroy Foods, Inc.

P. O. Box 1088

1350 Pacheco Pass Highway

Gilroy, CA 95020, USA

Research Material: herb and spice crops

Research Focus: stress selection (disease resistance) propagation  
breeding/field selection (flavor processing)  
*in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation  
molecular biology/transformation field evaluation  
RFLP

**Ms. Liliana R. Capriles**

Researcher

National Cacao Foundation (FonCACAO)

Aptdo. 5043 Cod. 2105

El Limon

Maracay, Venezuela

Research Material: cacao ornamentals

Research Focus: propagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Mr. John G. Carman**

Professor

Plant Science Department

Utah State University

Logan, Utah 84322-4820, USA

Research Material: wheat

Research Focus: propagation breeding *in vitro* culture

Research Technology: cell culture

**Mr. Luis Arturo Carpineti**

Forest Research Department

Instituto Forestal Nacional

Pueyrredon 2446-1119

Capital, Argentina

Research Material: eucalyptus

Research Focus: propagation *in vitro* culture

**Ms. Gabriela Casas-Carrillo**

Researcher

Divulgacion #42 Chapingo 56230

Chapingo Edo.

Mexico

Research Material: maize sorghum millet

Research Focus: stress selection (NaCl drought temperature)  
*in vitro* culture

Research Technology: somaclonal variation cell culture

Additional Information: attended TCCP training course fall 1987

**Ms. Maria Lourdes O. Cedo**

Instructor

Department of Biological Sciences

Kent State University

Kent, Ohio 44242, USA

Research Material: rice sugarcane coconut ornamentals

Research Focus: propagation breeding

Research Technology: protoplast technology somaclonal variation  
transformation

**Dr. Krishanpal S. Chandel**

Senior Scientist and Head

National Plant Tissue Culture Repository

NBPGR

Pusa Campus

New Delhi 110012, India

Research Material: *Allium* sweet potato banana citrus papaya

*Rauvolfia serpentina* *T. indica* *Coptis teeta*

ginger turmeric endangered species

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture field evaluation

**Dr. Wei-Chin Chang**

Professor

Academia Sinica

Institute of Botany

Taipei, Taiwan, ROC

Research Material: ginseng bamboo

Research Focus: propagation breeding *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation transformation

**Dr. Suan-Choo Cheah**

Palm Oil Research Institute

P. O. Box 10620

Kuala Lumpur 50720, Malaysia

Research Material: oil palm

Research Focus: propagation *in vitro* culture

Additional Information: RFLP markers for oil palm

**Dr. Harvinder Cheema**

Botany Department

Punjab University

Chandigarh 160014, India

Research Material: soybean rice wheat

Research Focus: stress selection (NaCl) propagation breeding  
*in vitro* culture

Research Technology: somaclonal variation

**Mr. Sudhersen Chellan**

Researcher

Department of Plant Morphology

School of Biological Sciences

Madurai Kamaraj University

Madurai 625021, India

Research Material: coconut areca nut *Borassus Calamus*  
medicinal plants

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Mr. Xiong—ying Cheng**

Researcher

Institute of Nuclear Agricultural Science

Zhejiang Agricultural University

Hangzhou, PRC

Research Material: wheat rice

Research Focus: stress selection (general) *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

**Dr. Hassane Chlyah**

Professor

Faculty of Sciences

Department of Biology

Mohammed V University

B.P. 1014

Rabat, Morocco

Research Material: wheat maize tomato potato strawberry

Research Focus: stress selection (NaCl drought) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture

Additional Information: Instructor for IAV Hassan II/TCCP  
training course summer 1989

**Dr. V. L. Chopra**

Head

IARI

Biotechnology Centre

New Delhi 110012, India

Research Material: *Brassica* chickpea peas

Research Focus: propagation breeding *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation transformation

**Dr. Redouane Choukrallah**

Professor

Institut Agronomique et Veterinaire Hassan II

Department of Horticulture

B.P. 438

Agadir, Morocco

Research Material: maize bean potato citrus eucalyptus *Argana*

Research Focus: stress selection (NaCl)

Research Technology: somaclonal variation

Additional Information: domestication of halophytic species

**Dr. Vijay K. Chowdhury**

Researcher

Plant Tissue Culture Section

Department of Genetics

Haryana Agricultural University

Hisar 125 004, India

Research Material: chickpea *Brassica* rice wheat date palm  
bamboo

Research Focus: stress selection (NaCl disease resistance)  
propagation *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

**Dr. Irwin Y. E. Chu**

President and Chief Executive Officer

Twyford International Inc.

15245 Telegraph Road

Santa Paula, CA 93060, USA

Research Material: potato strawberry asparagus eucalyptus

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture  
protoplast technology somaclonal variation

**Dr. Chamnan Chutkaew**

Corn Project Leader

Department of Agronomy

Faculty of Agriculture

Kasetsart University, Bangkok

Bangkok, Thailand

Research Material: maize coconut palm oil *Leucaena*

Research Focus: stress selection (NaCl drought  
disease resistance) breeding

Research Technology: protoplast technology somaclonal variation

**Ms. Ariadna Ciai**

Researcher

Biotica S. A

Santiago del Estero 1162

CAP FED

Buenos Aires, Argentina

Research Material: potato strawberry artichoke

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. E.C. Cocking**

Professor

Department of Botany

University of Nottingham

Nottingham, England NG7 2RD, U.K.

Research Technology: protoplast technology

Other: regeneration and transformation of plant  
cells from protoplast systems

Additional Information: fluorescence activated cell sorting

**Dr. Joel Cohen**

Biotechnology Specialist

ST/AGR/AP

Bureau of Science & Technology

Room 413-E, SA18

USAID

Washington, D.C. 20523, USA

Additional Information: tissue culture and somaclonal variation in  
plant improvement, Project Monitor for the TCCP

**Dr. Yigal Cohen**

Bar-Ilan University  
Department of Life Sciences  
Ramat Gan 52100, Israel

Research Material: potato maize cucurbits avocado tobacco

Research Focus: stress selection (disease resistance)  
propagation breeding

Research Technology: transformation

Additional Information: intergeneric crosses in cucurbits

**Dr. James Colbert**

Assistant Professor  
Department of Botany  
Bessey Hall  
Iowa State University  
Ames, Iowa 50011, USA

Research Material: oat barley

Research Technology: molecular biology/transformation

**Dr. J. S. Cole**

Assistant Director  
Tobacco Research Board  
P.O. Box 1909  
Harare, Zimbabwe

Research Material: tobacco

Research Focus: breeding

Research Technology: cell culture protoplast technology  
somaclonal variation

**Ms. Rosario Z. Colocho**

Researcher  
Center of Agriculture Technology (CENTA)  
Centro de Agricultura  
A.P. 885  
San Salvador, El Salvador

Research Material: pineapple *Musa*

Research Focus: propagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. William A. Compton**

Maize Breeding and Genetics Consultant

P. O. Box 450

Kitale, Kenya

Research Material: maize

Research Focus: stress selection (yield and agronomic traits)

Research Technology: field evaluation

Additional Information: RFLP's for genetic linkage maps

**Dr. Max Contin**

Breeder

Gilroy Foods, Inc.

P. O. Box 1088

1350 Pacheco Pass Highway

Gilroy, CA 95020, USA

Research Material: onion

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation  
field evaluation

**Mr. José D. C. Contreras**

Researcher

ISCA-REGEN

ACM 12 1/2 Carretera Norte

AP 453

Managua, Nicaragua

Research Material: sweet potato root crops

Research Focus: propagation

Additional Information: germplasm conservation; attended CATIE/TCCP  
training course summer 1987

**Dr. Otto J. Crocomo**

Director

Center for Agricultural Biotechnology (CEBTEC)

E.S.A. "Luiz de Queiroz"

University of São Paulo

C.P. 09 – 13400

Piracicaba, SP, Brazil

Research Material: bean pineapple sugarcane strawberry  
eucalyptus pine african violet  
bromeliads ferns orchids

Research Focus: stress selection (herbicide tolerance)  
propagation breeding

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation field evaluation

Additional Information: training course for private companies and  
universities

**Dr. Edward Cundall**

Breeder

Cocoa and Coconut Research Institute of PNG

P. O. Box 1846

Rabaul, ENBP

Papua, New Guinea

Research Material: coconut

Research Focus: propagation breeding (yield pest and disease  
resistance) *in vitro* culture

Research Technology: meristem culture cell culture

**D**

**Dr. Abderrazak Daaloul**

Professor and Breeder

INAT

43; Avenue Charles Nicolle

1002 Tumis

Belvedere, Tunisia

Research Material: wheat barley

Research Focus: breeding/field selection (yield stability  
quality) *in vitro* culture

Research Technology: cell culture field evaluation (NaCl  
water relationships) Other: genetic resource  
conservation and evaluation of wheat

**Mrs. Olivia Damasco**

Researcher

Institute of Plant Breeding

College of Agriculture

University of the Philippines at Los Baños

College Laguna, Philippines

Research Material: wheat banana

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture

Additional Information: attended TCCP training course spring 1986

**Dr. Asril Darussamin**

Head of Technology Division

Sungei Putih Research Institute for Estate Crops

National Centre for Rubber Research

P. O. Box 416

Medan, Indonesia

Research Material: *Hevea brasiliensis*

Research Focus: propagation *in vitro* culture

Research Technology: protoplast technology molecular  
biology/transformation

Other: unconventional breeding using radiation

**Ms. Teresita S. Davide**

Graduate Assistant

Department of Horticulture

University of Hawaii Room 102

3190 Maile Way

Honolulu, HI 96822, USA

Research Material: *Dendrobium*

Research Focus: breeding *in vitro* culture

Research Technology: meristem culture

**Dr. Pierre C. A. Debergh**

Professor

Laboratory of Horticulture

State University Gent

Coupure Links 653

B-9000 Gent, Belgium

Research Material: glasshouse ornamentals cutflowers *Betula*  
palm globe artichoke

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture field evaluation anther culture

Additional Information: masspropagation, container ecology,  
contamination problems

**Dr. Padmanabhan Devapiran**

Professor

Department of Plant Morphology

Madurai Kamaraj University

Madurai 625021, India

Research Material: coconut palmyra rattan palm medicinal plants

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Dr. Potluri V. Deviprasad**

Senior Lecturer

Department of Botany

University of West Indies

Mona, Kingston 7

Jamaica, West Indies

Research Material: sweet potato potato *Anthurium*

Research Focus: stress selection (NaCl) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture field evaluation

Other: nodal and axillary bud culture

Additional Information: germplasm conservation, micropropagation

**Dr. Ahmad Dimiyati**

Breeder

Bogor Research Institute for Food Crops

Jalan Cimanggu 3A

Bogor 16111, Indonesia

Research Material: cassava sweet potato

Research Focus: breeding/field selection (food and industrial use)

Research Technology: field evaluation

**Ms. Merlina Dionzon**

Researcher

ViSCA

Tissue Culture Laboratory

Baybay, Leyte 7127-A, Philippines

Research Material: maize rice

Research Focus: stress selection (AI drought) *in vitro* culture

Research Technology: somaclonal variation

Additional Information: attended TCCP training course spring 1986

**Mr. Binh Q. Do**

Researcher

Department of Cell Biology and Biotechnology

Institute of Biology

Vietnamese Academy of Sciences

Nghiado--Tuliem

Hanoi, Vietnam

Research Material: rice salt tolerant grasses

Research Focus: stress selection (NaCl) *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

**Dr. Albert K. Dobrenz**

Professor

Plant Sciences Department

University of Arizona

Tucson, AZ 85721, USA

Research Material: alfalfa cotton

Research Focus: stress selection (NaCl water relationships  
temperature) breeding (NaCl tolerance)

Research Technology: field evaluation

Additional Information: have alfalfa that will germinate in sea water  
but emergence is controlled by different genes

**Dr. John H. Dodds**

Tissue Culture Specialist

International Potato Center

P. O. Box 5969

Lima, Peru

Research Material: potato sweet potato

Research Focus: stress selection (general) propagation breeding  
*in vitro* culture

Research Technology: meristem culture cell culture  
protoplast technology molecular biology/transformation

**Dr. Miles Dracup**

Researcher

Agronomy Group, School of Agriculture

University of Western Australia

Nedlands 6009, Western Australia

Research Material: tobacco

Research Focus: stress selection (NaCl)

Research Technology: cell culture

**Dr. Ronny R. Duncan**

Professor

Department of Agronomy

Georgia Experiment Station

University of Georgia

Griffin, Georgia 30223-1797, USA

Research Material: sorghum

Research Focus: stress selection (Al water relationships temperature disease resistance) breeding/field selection (sorghum)

Research Technology: somaclonal variation field evaluation herbicide resistance

Additional Information: interested in Al and Mn toxicity tolerance, acid soil stress x drought stress interactions

**Dr. Ati S. Duriat**

Researcher

Lembang Horticultural Research Institute

LEHRI, P.O. Box 587

Bandung, Indonesia

Research Material: potato

Research Focus: stress selection (disease resistance)

Additional Information: biological control of virus disease resistance

**Dr. Leo D'Souza**

Director

Laboratory of Applied Biology

St. Aloysius College

Mangalore 575 003, India

Research Material: coconut cashew breadfruit *Butea monosperma*  
*Ailanthes malabarica*

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

# E

## **Dr. Susan Eapen**

Researcher

Bhabha Atomic Research Centre

Bio-organic Division

Trombay

Bombay 400085, India

Research Material: sorghum *Vigna*

Research Focus: stress selection (NaCl drought)

Research Technology: protoplast technology somaclonal variation  
transformation

## **Dr. David D. Ellis**

Researcher

Department of Horticulture

University of Wisconsin

1575 Linden Drive

Madison, WI 53706, USA

Research Material: poplar conifers

Research Focus: propagation *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation molecular biology/transformation

## **Dr. Osama M. Elshishy**

Director of Plant Cell Culture Unit

Plant Physiology Department

Faculty of Agriculture

Cairo University

Giza, Cairo, Egypt

Research Material: cotton cereals potato apple conifers  
hardwoods sugarcane date palm banana  
legumes alfalfa strawberry

Research Focus: stress selection (general) propagation  
*in vitro* culture

Research Technology: protoplast technology somaclonal variation  
molecular biology/transformation

**Mr. Roger Ernst**

Private Consultant

5400 Duvall Drive

Bethesda, MD 20816, USA

Research Material: food grains tropical crops high value cash crops

Research Focus: design and administration of research, research  
funding strategies and role of private sector

**F**

**Dr. Christian Ademola Fatokun**

Plant Breeder

Agronomy Department

University of Ibadan

Ibadan, Nigeria

Research Material: cowpea rice eggplant

Research Focus: breeding

Research Technology: cell culture somaclonal variation

**Dr. Graciela Feinstein**

Researcher

Las Heras 3898 2-F

Buenos Aires 1425, Argentina

Research Material: potato strawberry artichoke

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Dr. Fernando Fernandez**

Director General

Honduran Foundation for Agriculture Research

Fundacion Hondurena de Investigacion Agricola

FHIA - Library, P.O. Box 2067

San Pedro Sula, Honduras, C.A.

Research Material: plantain cacao citrus vegetables

Research Focus: stress selection (Al NaCl water relationships  
temperature disease resistance)

propagation breeding *in vitro* culture

Research Technology: somaclonal variation

Additional Information: new research organization financed by USAID  
and Honduran Government

**Mr. Jorge A. Sandoval Fernandez**

Researcher

Plant Tissue Culture Laboratory

CATIE

Turrialba 7170, Costa Rica

Research Material: banana plantain

Research Focus: stress selection (disease resistance)  
*in vitro* culture

Research Technology: meristem culture somaclonal variation

**Ms. Maureen M. M. Fitch**

Researcher

USDA, ARS

99-193 Aiea Heights Drive

Aiea, Hawaii 96701, USA

Research Material: sugarcane

Research Focus: stress selection (NaCl herbicide tolerance)  
propagation breeding *in vitro* culture

Research Technology: cell culture anther culture

**Ms. Dora M. Flores**

CATIE

Turrialba, Costa Rica

Research Material: coffee

Research Focus: *in vitro* culture

Research Technology: meristem culture

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. L. C. Fowke**

Professor

Department of Biology

University of Saskatchewan

Saskatoon, Saskatchewan S7N 0W0, Canada

Research Material: soybean white spruce jackpine

Research Focus: *in vitro* culture

Research Technology: cell culture protoplast technology  
somatic embryogenesis

**Mr. Edgar O. Franco**

Professor

Universidad de San Carlos

Facultad de Agronomia

Apartado Postal 1545

Guatemala City, Guatemala

Research Material: rice potato pinabete

Research Focus: stress selection (disease resistance) propagation  
breeding/field selection (yield disease resistance)

Research Technology: meristem culture somaclonal variation  
field evaluation anther culture

Additional Information: main interest in the production of double  
haploids through anther culture, to select  
for yield and disease resistance in rice.

## G

**Mr. Raul O. Galeano**

Plant Breeding Instructor

National Autonomous University of Honduras

C.U.R.L.A.

La Ceiba, Honduras

Research Material: banana

Research Focus: *in vitro* culture

Research Technology: micropropagation

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. Alfredo J. Gallegos**

Director General

Biogenetica Mexicana S.A.C.V.

Shakespeare No. 27

Mexico D.F. 11590

Research Material: sugarcane *Gerbera* gypsophila carnation

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture

**Dr. Esra Galun**

Professor and Head

Department of Plant Genetics

Weizmann Institute of Science

Rehovot 76100, Israel

Research Material: wheat barley cucumber potato

Research Focus: breeding/field selection *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation molecular biology/transformation

**Mr. Douglas M. Gama**

Researcher

Malkerns Research Station

P. O. Box 4

Malkerns, Swaziland

Research Material: strawberry

Research Focus: in process of establishing tissue culture laboratory

Research Technology: traditional methods of propagation and meristem culture

**Dr. Oluf L. Gamborg**

Associate Director

Tissue Culture for Crops Project

Department of Biology/Botany Section

Colorado State University

Ft. Collins, CO 80523, USA

Telex: 3711418

Research Material: tropical grain legumes

Research Focus: stress selection (Al NaCl drought  
disease resistance)

Research Technology: protoplast technology molecular biology

Additional Information: Managing Editor, Plant Cell Reports

**Dr. Eva C. Garcia**

Researcher

Departamento de Botanica

Escuela de Biología

Facultad de Ciencias

Universidad Central de Venezuela

APDO 21201

Caracas, Venezuela

Research Material: sugarcane coffee *Rosa Dianthus* potato

Research Focus: stress selection (disease resistance)

propagation

Research Technology: somaclonal variation molecular

biology/transformation

Other: selection for resistance to sugarcane

mosaic virus and rust

**Mr. Tito J. F. Garcia**

Student

Departamento de Biología

Laboratorio Cultivo de Tejidos

National University of Colombia

Bogata P.A. 23227, Colombia

Research Material: potato *Ananes comosus Tropaeolum tuberos*

Research Focus: propagation *in vitro* culture

Additional Information: attended CATIE/TCCP training course summer 1987

**Ms. Martha Garcia--Duran**

Researcher

Centro de Genética

Colegio de Postgraduados

56230 Chapingo, Edo. De Mexico

Chapingo, Mexico

Research Material: wheat rice *Capsicum* tomato cacao

Research Focus: stress selection (disease resistance) propagation

*in vitro* culture

Research Technology: cell culture

**Dr. Paibooiya Gavnlertvatana**

Plantek International

Unit 59A, Blk 1, Science Park Drive

Singapore Science Park

Singapore 0511, Singapore

Research Material: palm nuts orchids ornamentals rubber

Research Focus: propagation

**Dr. Ahmed A. Geneif**

Breeder

National Coordinator for Horticultural Research

Agricultural Research Corporation

P. O. Box 126

Waomedani, Sudan

Research Material: cotton sorghum date palm tomato *Acacia*  
medicinal plants

Research Focus: stress selection (temperature disease resistance)  
propagation breeding (high yield and quality)  
*in vitro* culture

**Dr. Abdul K. Ghani**

Lecturer

Botany Department

Faculty of Life Science

Universiti Kebngsaan Malaysia, Bangi

43600 Selangor, Malaysia

Research Material: peanut soybean

Research Focus: stress selection (nitrogen) propagation breeding

Research Technology: meristem culture somaclonal variation

**Mr. David C. Gibson**

Natural Resource Advisor

Regional Forestry

USAID/Nairobi (REDSO)

Washington, D.C. 20523, USA

Research Material: *Cajanus Desmodium Sesbania Gliricidia*  
*Pinus* green manures

Research Focus: stress selection (general) propagation  
breeding/field selection (farm testing)  
*in vitro* culture

Research Technology: field evaluation

**Dr. Margaret Gibson**

Plant Physiologist

American Crystal Sugar Company

P.O. Box 1227

Research Center

Moorhead, MN 56560, USA

Research Material: sugar beet

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture cell culture  
somaclonal variation

Additional Information: ovule culture cryopreservation

**Dr. Ravishankar A. Gokare**

Researcher

Autotrophic Cell Culture Discipline

Central Food Technological Research Institute

Mysore 570013, India

Research Material: chilies *Crocus sativus* mint  
pyrethrum

Research Focus: stress selection (NaCl disease resistance)  
propagation *in vitro* culture

Research Technology: meristem culture cell culture  
Other: cell immobilization, bioreactor,  
product evaluation

**Mr. Raul A. Gonzalez**

Researcher

Instituto de Investigacion Agropecuaria de Panama (IDIAP)

Sub-Centro Azuero

Los Santos, Panama

Research Material: papaya avocado

Research Focus: stress selection (disease resistance) *in vitro* culture

Research Technology: meristem culture micropropagation

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. Hector Gonzalez-Rosas**

Professor

Centro de Fruticultura

Colegio de Postgraduados

Chapingo C.P. 56230, Mexico

Research Material: avocado *Carica papaya* *Pinus patula*

Research Focus: stress selection (NaCl drought) propagation

Research Technology: rescue genetics

**Dr. Phillip N. Gordon**

Research Associate

The New York Botanical Garden

Institute of Economic Botany

Department of Biology KBT

Yale University

New Haven, CT 06511-8112, USA

Research Focus: propagation *in vitro* culture

Research Technology: cell culture protoplast culture  
somaclonal variation

Additional Information: agricultural food production

**Dr. Bishamber Gothwal**

Researcher and Breeder

SKN

College of Agriculture

Jobner 303329, Rajasthan, India

Research Material: wheat barley pearl millet

Research Focus: stress selection (NaCl drought) breeding  
*in vitro* culture

Research Technology: somaclonal variation

Additional Information: attended TCCP training course fall 1986

**Dr. K. Govinda Raj**

Breeder

Pioneer Seed Company, Ltd.

8-1-39, Tolichowki

Hyderabad 500 008, India

Research Material: rice

Research Focus: breeding/field selection (hybrid rice)

Research Technology: field evaluation

**Dr. C. L. L. Gowda**

Chickpea Breeder

ICRISAT

Pantancheru P.O.

A.P. 502324, India

Telex: 0152-203

Research Material: chickpea

Research Focus: stress selection (NaCl water relationships insect  
disease resistance) breeding

Research Technology: cell culture protoplast technology embryo rescue

**Dr. Alexander Grobman**

Manager

GENTEC, Grobman Genotecnica S.A.

Av. Rep. de Panama 3563

Of. 702

Lima 27, Peru

Research Material: maize sorghum sunflower rice

Research Focus: stress selection (drought) breeding

Research Technology: anther culture haploids

**Mr. Todor K. Gubatov**

Researcher

Laboratory of Tissue Culture and Gene Engineering

Institute for Wheat and Sunflower

Near General Toshevo, Bulgaria

Research Material: wheat sunflower bean

Research Focus: stress selection (Al NaCl water relationships  
disease resistance) propagation  
*in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation  
molecular biology/transformation

Additional Information: attended TCCP training course spring 1988

**Dr. Livy W. Gunawan**

Researcher

Department of Agronomy

Bogor Agricultural University

Bogor, Indonesia

Research Material: forage legumes *Guyanensis* vegetable crops

Research Focus: stress selection (NaCl) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Aditya K. Gupta**

Department of Botany

Bharthidasan University

Tiruchirapalli

Tamil Nadu 602 024, India

Telex: 455253

Research Material: rice soybean *Phaseolus* peanut

Research Focus: stress selection (cadmium drought)

Research Technology: cell culture

**Dr. Pramod K. Gupta**

Researcher

Biochemical Science Division

National Chemical Laboratory

Pune 411 008, India

Research Material: teak eucalyptus bamboo douglas fir loblolly pine

Research Focus: propagation *in vitro* culture

Research Technology: cell culture protoplast technology  
molecular biology/transformation field evaluation

**Dr. S. C. Gupta**

Researcher

Department of Plant Physiology

SKN College

Jobner 303329, India

Research Material: wheat leek

Research Focus: stress selection (NaCl drought) *in vitro* culture

Research Technology: somaclonal variation

**Dr. Shrish C. Gupta**

Professor

Department of Botany

University of Delhi

Delhi 110007, India

Research Material: leguminous trees

Research Focus: propagation *in vitro* culture

Other: reproduction biology including  
self-incompatibility

Research Technology: protoplast technology somaclonal variation  
anther culture selection of salt tolerant cell lines

**Dr. Madhava R. Gurjal**

Professor and Dean

College Development Council

Department of Genetics

Osmania University

Hyderabad, A.P. 500 007, India

Research Material: maize rice triticales mango

Research Focus: stress selection (NaCl disease resistance)  
*in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

molecular biology/transformation

Other: biochemical genetics of biosynthetic pathways

**Ms. Alejandra Gutierrez Espinosa**

Researcher

Centro de Fruticultura

Colegio de Post Graduados

Chapingo 56230, Mexico

Research Material: pineapple vanilla *Malus Prunus*

Research Focus: propagation

Research Technology: somaclonal variation

Other: *in vitro* conservation,  
electrophoresis of *in vitro* collections

Additional Information: attended CATIE/TCCP training course fall 1988

**Mr. Charles E. Gyansa Ameyaw**

Department of Crop Science

University of Ghana

P. O. Box 44

Legon—Accra, Ghana

Research Material: yam

Research Focus: field selection *in vitro* culture

## H

**Dr. S. K. Hahn**

Director

Root and Tuber Improvement Program

IITA

PMB 5320

Oyo State

Ibadan, Nigeria

Research Material: cassava yam sweet potato plantain banana

Research Focus: stress selection (Al NaCl drought  
disease resistance) propagation  
breeding *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Pranee Hamelink**

Researcher

Department of Plant Pathology

Kasetsart University

Bangkok 10900, Thailand

Research Material: potato cotton orchids

Research Focus: stress selection (disease resistance)

Additional Information: material for commercial use and quality control

**Ms. Souad Hamzaoui**

Center Librarian

ICARDA

Library P.O. Box 5466

Aleppo, Syria

Research Material: wheat barley chickpea lentils faba bean

Research Focus: breeding

Research Technology: transformation

**Dr. Gary E. Hanning**

Research Coordinator

Tissue Culture for Crops Project

Department of Biology/Botany Section

Colorado State University

Ft. Collins, CO 80523, USA

Telex: 3711418

Research Material: rice wheat sorghum millet

Research Focus: stress selection (Al NaCl drought)  
*in vitro* culture

Research Technology: cell culture somaclonal variation

**Dr. Moncef M. Harrabi**

Breeder and Professor

INAT

43 Avenue Charles Nicolle

1002 Tunis Belvedere, Tunisia

Research Material: barley wheat

Research Focus: stress selection (disease resistance)

Research Technology: field evaluation greenhouse evaluation

**Mr. Ahmad T. Hashim**

Researcher

Palm Oil Research Institute of Malaysia

No. 6, Persiaran Institusi

Bandar Baru Bangi

43000, Kajang, Selangor Darul

Ehsan, Malaysia

Research Material: oil palm

Research Focus: stress selection (temperature resistance)  
*in vitro* culture

Research Technology: *in vitro* storage (growth limitation and  
cryopreservation)

Additional Information: biochemical changes in oil palm polyembryogenic  
cultures

**Ms. Abeer Abu Hassan**

Researcher

Ministry of Agriculture

Amman 226, Jordan

Research Material: potato tomato citrus apricot pine  
*Ponsina richia*

Research Focus: stress selection (general) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture

Additional Information: attended TCCP training course spring 1986

**Dr. Sulekha Hazra**

Scientist

Division of Biochemical Sciences

National Chemical Laboratory

Poona 411008, India

Research Material: rice pigeonpea groundnut eucalyptus

Research Focus: stress selection (NaCl water relationships  
disease resistance) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation  
molecular biology/transformation differentiation

**Dr. Jose E. Hernandez**

Breeder

Department of Agronomy

College of Agriculture

University of the Philippines at Los Baños

College, Laguna 3720, Philippines

Research Material: rice wheat

Research Focus: stress selection (Al NaCl) breeding

**Dr. Laszlo E. Heszky**

Professor

Department of Genetics and Plant breeding

University of Agriculture

H-2000 Godollo

Godollo, Hungary

Research Material: rice soybean potato hemp

Research Focus: stress selection (NaCl) breeding

Research Technology: cell culture protoplast technology  
somaclonal variation transformation

Additional Information: cryobiology

**Ms. Iteu M. Hidayat**

Horticultural Research Institute

Lembang

West Java, Indonesia

Research Material: sweet potato potato tropical fruit garlic

Research Focus: stress selection (water relationships temperature  
disease resistance) propagation breeding  
*in vitro* culture

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation

Additional Information: attended TCCP training course fall 1985

**Dr. Geoffrey L. Hildebrand**

Principal Groundnut Breeder

SADCC/ICRISAT

Regional Groundnut Program for Southern Africa

P. Bag 63

Lilongwe, Malawi

Research Material: groundnut

Research Focus: stress selection (drought disease resistance)  
breeding/field selection (high yield early maturity  
disease resistance and drought avoidance)

Research Technology: field evaluation

**Mr. Glen A. Hildreth and Ms. Marie S. Hildreth**

Principals

Botanic Specialties

4044 County Road 16--H

Loveland, CO 80537, USA

Research Material: kinnikinnick manzanita garden chrysanthemum

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture micropropagation

**Dr. Elizabeth Hodson--de Jaramillo**

Chairman

Departamento de Biología

Universidad Javeriana

Apartado Aereo 56710

Bogota, Colombia

FAX: 571-288-2335

Research Material: eucalyptus teak *Alnus Tabebuia* native plants

Research Focus: propagation breeding/field selection

Other: germplasm conservation and propagation of  
selected material

Research Technology: meristem culture molecular biology/transformation

**Ms. Fu Hongbac**

Researcher

Department of Agronomy  
Northeast Agricultural College  
Harbin, Heilongjian, PRC

Research Material: triticale wheat

Research Focus: stress selection (NaCl drought disease resistance)  
breeding

Research Technology: cell culture protoplast technology  
somaclonal variation anther culture

**Dr. Harrison Hughes**

Associate Professor

Department of Horticulture  
Colorado State University  
Fort Collins, CO 80523, USA

Research Material: tomato potato strawberry grape pinyon pine  
*Phytolacca*

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation

Additional Information: cryopreservation of meristems and other tissues

**Dr. Karen W. Hughes**

Professor and Head

Department of Botany  
University of Tennessee

Knoxville, Tennessee 37996-1100, USA

Research Material: maize barley ferns

Research Focus: stress selection (herbicide) propagation breeding  
*in vitro* culture

Research Technology: cell culture somaclonal variation gymnosperm culture

**I**

**Dr. Ihsan Ilahi**

Professor

Department of Botany  
University of Peshawar  
Peshawar, Pakistan

Research Material: peanut potato peach juniper eucalyptus

Research Focus: stress selection (NaCl disease resistance)  
propagation *in vitro* culture

Additional Information: shoot tip culture

**Dr. David J. Isenhour**

Assistant Professor

Department of Entomology

Coastal Plain Station

University of Georgia

Tifton, GA 31793, USA

Research Material: maize alfalfa

Research Focus: stress selection (insect resistance) breeding  
*in vitro* culture

Research Technology: somaclonal variation

Additional Information: DNA characterization of maize lines with insect resistance

**Dr. A. S. Islam**

Professor

Botany Department

Dhaka University

Dhaka-2, Bangladesh

Research Material: rice *Vigna mungo* *Vigna radiata*  
orchids sugarcane

Research Focus: stress selection (NaCl) propagation breeding  
*in vitro* culture

Research Technology: meristem culture somaclonal variation

**Dr. Peter I. Ivanov**

Director

Laboratory of Tissue Culture and Gene Engineering

Institute for Wheat and Sunflower

Near General Toshevo, Bulgaria

Research Material: sunflower wheat lentils

Research Focus: stress selection (water relationships temperature  
disease resistance) propagation  
*in vitro* culture

Research Technology: cell culture protoplast technology  
molecular biology/transformation  
biochemical analysis

Additional Information: protoplast isolation, biochemical investigations

**Dr. Raja D. Iyer**

Researcher and Breeder  
Tissue Culture Laboratory  
Barkly Experiment Station  
Beau-Bassin, Mauritius

Research Material: tobacco asparagus *Anthurium* orchids palm  
strawberry pineapple

Research Focus: stress selection (water relationships  
disease resistance) propagation  
breeding/field selection (high yield and leaf quality)  
*in vitro* culture

Research Technology: meristem culture somaclonal variation field evaluation  
Other: haploidy through anther culture in tobacco,  
leaf culture in *Anthurium*, somatic embryogenesis  
in orchids

**J**

**Dr. Rachida Jadari**

Professor, Research  
Institut Agronomique et Hassan II  
Dept. of Horticulture  
B.P. 6202

Rabat, Morocco

Research Material: grapevine

Research Focus: stress selection (NaCl drought disease resistance)  
propagation *in vitro* culture

Research Technology: meristem culture protoplast technology

**Prof. K. S. Jagadishchandra**

Department of P. G. Studies and Research in Botany  
University of Mysore  
Mysore 570 006, India

Research Material: java citronella lemon grass cinnamon rosewood  
satinwood ylang-ylang

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture somaclonal variation field evaluation  
Other: cytogenetics and germplasm studies

**Dr. V. Jagannathan**

Emeritus Head, Biotechnology  
Tata Energy Research Institute  
90, Jor Bagh  
New Delhi 110003, India

Research Material: legumes eucalyptus *Acacia*  
Research Focus: stress selection (general) propagation  
*in vitro* culture

Research Technology: cell culture protoplast technology  
molecular biology/transformation

**Dr. Satish C. Jain**

Professor  
University of Rajasthan  
Botany Department  
316, Vijay Path, Tilak Nagar  
Jaipur 302003, India

Research Material: *Trigonella Solanum Eugenia*  
Research Focus: stress selection (NaCl drought temperature  
disease resistance) propagation breeding  
*in vitro* culture mutations

Research Technology: cell culture protoplast technology

**Dr. Abdullah A. Jaradat**

Researcher  
J.U.S.T.  
College of Agriculture  
Irbid, Jordan

Research Material: wheat barley  
Research Focus: breeding

**Mr. Tahhan T. Jaradat**

Graduate Student  
Yarmouk Univeristy  
Biology Department  
Irbid, Jordan

Research Material: barley wheat oat  
Research Focus: breeding  
Research Technology: transformation

**Dr. Flordeliza B. Javier**

Assistant Professor

Department of Horticulture

Fruit Crops Nursery

University of the Philippines at Los Baños

College, Laguna 3720, Philippines

Research Material: rice wheat fruit bearing trees rambutan

*Araucaria acacia*

Research Focus: stress selection (disease resistance) propagation

*in vitro* culture

Research Technology: meristem culture

Additional Information: attended TCCP training course fall 1985

**Dr. R. Jeyanthi**

Researcher

School of Genetics

Tamilnadu Agricultural University

Coimbatore 641 003, India

Research Material: rice

Research Focus: *in vitro* culture

Research Technology: anther culture isozyme markers to identify,  
select and characterize mutations

**Dr. Sumita Jha**

Researcher

Department of Botany

Calcutta University

35 B.C. Road

Calcutta 700019, India

Research Material: medicinal plants

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture somaclonal variation

Other: secondary metabolites

**Dr. Timir B. Jha**

Assistant Professor of Botany

West Bengal Educational Service

72 Rahim Ostagor Road

Calcutta 700045, India

Research Material: cashew tea orchids

Research Focus: stress selection (NaCl drought temperature)

propagation *in vitro* culture

Research Technology: meristem culture protoplast technology

molecular biology

**Dr. Duane Johnson**

Associate Professor

Department of Agronomy, PC-117

Colorado State University

Fort Collins, Colorado 80523, USA

Research Material: *Chenopodium quinoa* *Brassica napus* *Stevia rebaudia*

Research Focus: stress selection (drought) breeding  
*in vitro* culture

Research Technology: meristem culture somaclonal variation

Additional Information: haploid development and embryo culture

**Dr. Kamal K. Joshi**

Lecturer

Central Department of Botany

Tribhuvan University

Kirtipur, Kathmandu, Nepal

Research Material: linseed safflower Nepalese alder primrose

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture somaclonal variation

**Dr. Sanu D. Joshi**

Breeder

Central Department of Botany

Tribhuvan University

Kirtipur, Kathmandu, Nepal

Research Material: buckwheat linseed mulberry *Choreospondias axillaris*  
Nepalese alder ferns

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture somaclonal variation

**Dr. Pablo S. Jourdan**

Assistant Professor

Ohio State University

2001 Fyffe Court

Columbus, OH 43210-1096, USA

Research Material: oilseeds cucurbits *Liquidambar* *Quercus*

Research Focus: stress selection (disease resistance) breeding

Research Technology: cell culture protoplast technology somaclonal variation

Other: interspecific somatic hybridization

# K

## **Dr. Prem S. Kahlon**

Professor of Biology  
Director of MARC Program  
Tennessee State University  
Box 228

Nashville, TN 37209-1561, USA

Research Material: soybean broccoli

Research Focus: stress selection (general) *in vitro* culture

Research Technology: cell culture

## **Dr. Sinikka Kallio**

Researcher  
Kemira Company  
ESPOO Research Centre  
Luoteisrinne 2

SF-02270 Espoo 27, Finland

Research Material: barley fruit trees horticultural trees

Research Focus: propagation breeding *in vitro* culture

Research Technology: cell culture protoplast technology

## **Dr. Kamnoon Kanchanapoom**

Faculty  
Department of Biology  
Faculty of Science  
Prince of Songkla University  
Haad-Yai 90112, Thailand

Research Material: oil palm rubber

Research Focus: propagation *in vitro* culture

Research Technology: cell culture

## **Dr. Malee Kanchanapoom**

Biology Department  
Faculty of Science  
Prince of Songkla University  
Hat-Yai

Songkla 90112, Thailand

Research Material: papaya

Research Focus: breeding *in vitro* culture

Research Technology: anther culture

**Dr. Nashaat M. Kandeel**

Assistant Professor

Horticulture Department

Faculty of Agriculture

Assiut University

Assiut, Egypt

Research Material: tomato garlic

Research Focus: breeding *in vitro* culture

Research Technology: cell culture

**Dr. Uma Kant**

Researcher

Botany Department

University of Rajasthan

Jaipur 302 004, India

Research Material: date palm *Zizyphus mauritiana* *Aegle marmelos*

Research Focus: propagation

**Dr. Jacobus M. Kaper**

Research Chemist

Microbiology and Plant Pathology Laboratory

Plant Sciences Institute, ARS, USDA

Room 252, Building 011A

Beltsville Agricultural Research Center

West Beltsville, MD 20705, USA

Research Material: soybean tobacco tomato pepper

Research Focus: stress selection (disease resistance)

Research Technology: protoplast technology  
molecular biology/transformation using viral genes  
Other: control of viral crop disease resistance

**Dr. Seema Kapoor**

Department of Botany

University of Delhi

Delhi 110007, India

Research Material: *Sesbania bispinosa*

Research Focus: propagation

**Dr. J. L. Karihaloo**

Researcher

Indian Institute of Horticultural Research

Hessaraghatta Lake

Bangalore 560 089, India

Research Material: tomato *Capsicum* fruit vegetables

Additional Information: genetic improvement and resource management

**Dr. Nilufer H. Karim**

Professor, Senior Plant Physiologist, BRRI

Bangladesh Rice Research Institute

Joydebpur

Gazipur, Bangladesh

Research Material: rice orchids rose

Research Focus: stress selection (NaCl drought disease resistance)

breeding *in vitro* culture

Research Technology: anther culture

Additional Information: studies in plant nutrition (rice)

**Mr. Rachmat Kartapradja**

Researcher

Lembang Research Institute for Horticulture

Jalan. Tangkuban Perahu 517

Lembang, West Java, Indonesia

Research Material: tomato

Research Focus: breeding *in vitro* culture

Additional Information: attended TCCP training course fall 1985

**Dr. Kutty K. Kartha**

Plant Biotechnology Institute

National Research Council

Saskatoon, Saskatchewan S7N 0W9, Canada

Research Material: *Phaseolus*

Research Focus: stress selection (disease resistance) propagation

**Dr. Seetha Karunaratne**

Researcher

Coconut Research Institute

Lunuwila, Sri Lanka

Research Material: coconut

Research Focus: stress selection (drought) propagation

*in vitro* culture germplasm collection

Research Technology: meristem culture protoplast technology

**Dr. A. Mujeeb Kazi**

CIMMYT

Londres 40, Apdo. Postal 6-641

Deleg. Cuauhtemol 06600, Mexico, D.F.

Research Material: wheat wheat relatives

Research Focus: stress selection (NaCl drought disease resistance)  
propagation breeding *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

Additional Information: gene transfers from wild *Triticeae* grasses  
into wheat

**Dr. Sman Keoboonrueng**

Researcher

Plant Pathology and Microbiology Division

Department of Agriculture

Bangkhen

Bangkok 10900, Thailand

Research Material: roselle cotton

Research Focus: stress selection (disease resistance) mutation breeding

**Dr. Sunil Kumar Khan**

Lecturer

Department of Botany

S. B. College

P.O. Magra Dist. Hooghly

W. Bengal 712 148, India

Research Material: *Cicer arietinum* *Cajanus cajan* *Pisum sativum*  
*Tectona grandis* *Shorea robusta*

Research Focus: propagation

Research Technology: meristem culture cell culture somaclonal variation  
anther culture

**Dr. Khalida Khatoon**

Assistant Professor

Department of Botany

University of Karachi

University Road

Karachi 32, Pakistan

Research Material: wheat mungbean papaya

Research Focus: stress selection (Al NaCl disease resistance)  
propagation

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Gurdev S. Khush**

International Rice Research Institute

Plant Breeding Department

P.O. Box 933

Manila, Philippines

Research Material: rice

Research Focus: stress selection (NaCl disease resistance) breeding

**Dr. Suryakant Khuspe**

Professor

National Chemical Laboratory

Division of Biochemical Sciences

Pune 411008, India

Research Material: wheat rice papaya ginger eucalyptus teak

Research Focus: stress selection (drought disease resistance)

propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation

transformation

Additional Information: conducting field testing trials of different tissue culture plants

**Dr. Boonyuen Kijwijan**

Faculty

Biology Department

Faculty of Science

Khon Kaen University

Khon Kaen, Thailand

Research Material: sugarcane

Research Focus: propagation

**Dr. Apichart Koasa--ard**

Researcher

Teak Improvement Centre

Ngoa, Lampang, Thailand

Research Material: *Tectona Pinus*

Research Focus: propagation *in vitro* culture

Additional Information: application of tissue culture in forest tree species

**Mr. Paul Koumba—Zaou**

Division Sylviculture Institut  
de Recherches Agronomiques et Forestieres  
B.P. 2246

Libreville, Gabon

Research Material: tree timber

Research Focus: propagation *in vitro* culture

**Dr. Abraham Krikorian**

Professor

Department of Biochemistry  
State University of New York  
Stoney Brook, New York 11794, USA

Telex: 510-228-7767

Research Material: tropical plants medicinal plants

Research Focus: *in vitro* culture

Research Technology: cell culture protoplast technology

Additional Information: somatic embryogenesis, ethnobotany,  
ethnopharmacology

**Dr. M. Krishnamurthi**

Manager, Research and Development

Sugarcane Research Centre

F.S.C. Ltd.

P.O. Box 3560

Lautoka, Fiji

Research Material: sugarcane banana gardenia orchids

Research Focus: stress selection (disease resistance) breeding  
*in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

**Dr. K. V. Krishnamurthy**

Researcher

Division of Biochemical Sciences

National Chemical Laboratory

Pune 411 008, India

Research Material: chickpea pigeonpea rice wheat eucalyptus

Research Focus: propagation *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

Additional Information: protoplast culture in legumes and cereals for  
transfer of traits

**Dr. Harsh Kumar**

Department of Genetics

Rajendra Agricultural University

Pusa (Samastipur) 848 125, India

Research Material: cucumber bottle gourd

Research Focus: propagation

**Dr. Suresh A. Kumar**

Post Doctoral Fellow

HSPA,ARS/USDA

P. O. Box 1057

Aiea, Hawaii 96701, USA

Research Technology: protoplast technology

molecular biology/transformation

**Ms. Siripong Kumphai**

Researcher

Vegetable Disease Branch

Plant Pathology and Microbiology Division

Department of Agriculture, Bangkokhen

Bangkok 10900, Thailand

Research Material: *Pisum Vigna*

Research Focus: stress selection (disease resistance) mutation breeding

## L

**Dr. K. K. Lakshmanan**

Professor and Head

Department of Botany

Bharathiar University

Coimbatore 641 046, India

Research Material: *Sesbania rostrata* oil palm wild grasses

Research Focus: stress selection (Al NaCl) propagation

Research Technology: meristem culture cell culture anther culture

**Dr. Siranut Lamseejan**

Researcher

Department of Applied Radiation and Isotopes

Kasetsart University

Bangkok, Thailand

Research Material: mungbean soybean

Research Focus: stress selection (disease resistance) mutation breeding

**Dr. Philip Larkin**

Manager and Researcher

CSIRO Division of Plant Industry

P.O. Box 1600

Canberra 2601, Australia

Research Material: wheat alfalfa

Research Focus: stress selection (disease resistance) breeding

Research Technology: cell culture protoplast technology  
somaclonal variation transformation

Additional Information: introduction of genes from alien chromosomes

**Ms. Ana Maria Lastra**

Researcher

CATIE

Aptdo. 94

Turrialba 7170, Costa Rica

Research Material: *Anthurium* ornamental plants

Research Focus: propagation *in vitro* culture

Research Technology: micropropagation

Additional Information: attended CATIE/TCCP training course fall 1988

**Ms. Razia Latiff**

Researcher

Tea Research Institute

Talawakelle, Sri Lanka

Telex: 21304 TBOARD CE

Research Material: tea

Research Focus: stress selection (drought disease resistance)

**Dr. Ricardo C. de Leon**

Professor and Consultant

Instituto Interamericano de Cooperacion para la Agricultura

Apartado 38-C

Saltillo Coahuila, Mexico

Research Material: maize ryegrass lettuce onion leucaena pine  
grasses forage species

Research Focus: propagation

Research Technology: meristem culture field evaluation

Other: commercial propagation systems

Additional Information: international networks for training and updating  
information

**Dr. Li-Fei Liu**

Associate Professor  
Department of Agronomy  
National Taiwan University  
Taipei, Taiwan, ROC

Research Material: rice tobacco  
Research Focus: stress selection (NaCl) propagation  
Research Technology: protoplast technology  
Additional Information: somatic hybridization nitrate reductase

**Dr. Ming-Chin Liu**

Senior Plant Breeder  
Taiwan Sugar Research Institute  
54 Sheng Chan Road  
Tainan 70123, Taiwan, ROC

Research Material: sugarcane potato orchids  
Research Focus: stress selection (NaCl) disease resistance)  
propagation breeding  
Research Technology: protoplast technology somaclonal variation  
transformation

**Dr. Peter Liu**

Professor  
Biology Department  
Fu-Jen University  
Taipei, Taiwan, ROC

Research Material: tomato watermelon  
Research Focus: propagation  
Research Technology: somaclonal variation transformation  
protoplast technology

**Dr. Gustavo V. Lonngi**

Research and Development Director  
Biogenetics Mexicana  
Shakespeare #27  
Col. Anzures  
Mexico 11590, D.F. Mexico

Research Material: *Gerbera jamesonii* *Gypsophila* ornamentals  
Research Focus: stress selection (general) propagation  
*in vitro* culture  
Research Technology: meristem culture cell culture field evaluation

**Dr. Cristina Lopez—Peralta**

Assistant Professor

Centro de Genetica

Colegio de Postgraduados

Chapingo 56230, Mexico

Research Material: maize sorghum bean tomato pine fruit trees

Research Focus: stress selection (NaCl drought) propagation  
breeding *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Remigio Madrigal Lugo**

Professor

Departamento de Fitotecnia

Universidad Autonoma Chapingo

Chapingo 56230, Mexico

Research Material: maize coffee chili pepper strawberry pine  
eucalyptus

Research Focus: stress selection (NaCl drought) propagation  
breeding

Research Technology: meristem culture cell culture somaclonal variation

## M

**Mr. Eduardo B. Machado**

Researcher

CELULOSA, Puerto Piray

Avda. A.em 896 Piso

Buenos Aires, Argentina

Research Material: *Pinus elliottii* *P. taeda* *P. caribaea*

Research Focus: propagation

Research Technology: organogenesis

Additional Information: attended CATIE/TCCP training course summer 1987

**Ms. Jesse Simiyo Machuka**

Graduate Student and Research Assistant

Botany Department

University of Nairobi

P. O. Box 30197

Nairobi, Kenya

Research Material: coffee citrus sorghum

Research Focus: stress selection (disease resistance) breeding

Research Technology: cell culture nucellus and embryo culture

**Mr. Dragan Macura**

Researcher

Gilroy Foods, Inc.

P. O. Box 1088

1350 Pacheco Pass Highway

Gilroy, CA 95020, USA

Research Material: herb and spice crops

Research Focus: field selection (flavor) *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Madappa Mahadevappa**

Professor and Head

Department of Agricultural Botany

University of Agricultural Sciences

G.K.V.K.

Bangalore 560065, India

Research Material: rice sunflower coconut plantain teak tamarind  
*Cassia serilea*

Research Focus: stress selection (NaCl temperature disease resistance)  
propagation *in vitro* culture

Research Technology: meristem culture field evaluation

**Dr. D. M. Mahishi**

Assistant Professor of Agricultural Botany

University of Agricultural Sciences

GKVK

Bangalore 560 065, India

Research Material: rice pomegranate tamarind

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture

**Dr. Marziah Mahmood**

Associate Professor

Department of Biochemistry and Microbiology

University of Agriculture Malaysia

Serdang 434000

Selangor, Malaysia

Research Material: peanut mungbean oil palm medicinal plants

Research Focus: stress selection: (Al) *in vitro* culture

Research Technology: cell culture protoplast technology  
molecular biology

Other: regeneration systems of legumes

Additional Information: attended TCCP training course fall 1987

**Dr. Godfrey Maina**

Professor and Head

Department of Biochemistry

University of Nairobi

P. O. Box 30197

Nairobi, Kenya

Research Technology: cell culture protoplast technology molecular biology  
genetic engineering

Additional Information: advise Kenya's National Council of Science &  
Technology in development of Biotechnology

**Dr. Amris Makmur**

Professor and Researcher

Seameo – Biotrop

Jl. Raya Tajur, Km 6

Bogor, Indonesia

Research Material: soybean common bean tomato maize

Research Focus: stress selection (Al NaCl water relationships  
disease resistance) breeding

Research Technology: meristem culture somaclonal variation  
field evaluation

**Ms. Dollina B. Malepa**

Researcher

Agricultural Research Station

Private Bag 0033

Gaborone, Botswana

Research Material: sorghum pearl millet maize

Research Focus: stress selection (Al NaCl water relationships  
temperature) field selection (drought tolerance)

Research Technology: field evaluation

**Dr. Pal Maliga**

Director

Advanced Genetica Sciences, Inc.

6701 San Pablo Avenue

Oakland, CA 94608, USA

Research Material: cotton tobacco *Brassica*

Research Focus: breeding

Research Technology: protoplast technology transformation

Additional Information: cell fusion, introduction of modified DNA

**Ms. Loida C. Malijan**

Researcher

Philippine Rice Research Institute

University of the Philippines at Los Baños

College, Laguna 4031, Philippines

Research Material: rice coconut

Research Focus: *in vitro* culture

Research Technology: somaclonal variation embryo culture anther culture

**Dr. Kauser A. Malik**

Head

Soil Biology Division, N.I.A.B.

P.O. Box 128

Faisalabad, Pakistan

Research Material: rice kallar grass

Research Focus: stress selection (NaCl)

Research Technology: cell culture protoplast technology transformation

Additional Information: electroporation

**Dr. Victoria Marcarian**

Team Leader and Agronomist

USAID/American Embassy

C.P. 201

Praia, Cape Verde, W. Africa

Research Material: cassava sweet potato sorghum tomato pepper  
mesquite

Research Focus: stress selection (general) breeding/field selection  
(drought NaCl) *in vitro* culture

Research Technology: meristem culture field evaluation

**Ms. Martha L. Marulanda**

Student

Departamento de Biología

Javeriana University

Bogata, Colombia

Research Material: cacao

Research Focus: propagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. Anthony F. Mascarenhas**

Scientist

Biochemical Sciences Division

National Chemical Laboratory

Poona 411008, India

Research Material: wheat maize eucalyptus teak ginger *Gossypium*

Research Focus: stress selection (NaCl disease resistance)  
propagation *in vitro* culture

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation field evaluation embryo rescue

**Mr. Munyaradzi V. Masona**

Post Graduate Student

Crop Science Department

University of Zimbabwe

P. Bag MP 167

Mt. Pleasant

Harare, Zimbabwe

Research Material: coffee potato strawberry *Leucaena*

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture protoplast technology  
somaclonal variation field evaluation

**Mr. Mark Massoudi**

Researcher

Gilroy Foods, Inc.

P. O. Box 1088

1350 Pacheco Pass Highway

Gilroy, CA 95020, USA

Research Material: garlic capsicum herb species

Research Focus: stress selection (disease resistance flavor processing)  
propagation *in vitro* culture

Research Technology: meristem culture protoplast technology  
Other: RFLP somaclonal variation

**Dr. Mohammad F. Masyhudi**

Research Coordinator for Biotechnology

Bogor Research Institute for Food Crops (BORIF)

Central Research Institute for Food Crops

Jalan Merdeka 99

Bogor, Indonesia

Research Material: rice soybean

Research Focus: stress selection (Al NaCl water relationships  
temperature disease resistance) *in vitro* culture

Research Technology: cell culture molecular biology/transformation

**Mr. Andrew E. Matibiri**

Researcher

Kutsaga Research Station

P.O. Box 1909

Harare, Zimbabwe

Research Material: *Solanum* coffee orchids carnation

Research Focus: stress selection (disease resistance  
herbicide tolerance) propagation  
*in vitro* culture

Research Technology: meristem culture protoplast technology  
somaclonal variation

Additional Information: attended TCCP training course fall 1986

**Mr. Stanley B. McCarter**

Maize Breeder and Research Manager

Pioneer Overseas Corporation

23 Dawn Hill Road

Greendale, Harare, Zimbabwe

Research Material: maize sorghum

Research Focus: stress selection (water relationships disease resistance)  
breeding/field selection (adaptation yield)

Research Technology: field evaluation

**Dr. J. A. McComb**

Senior Lecturer

Environmental and Life Science

Murdoch University

Murdoch 6150, W. Australia

Research Material: rice chrysanthemum eucalyptus *Casuarina*

Research Focus: propagation breeding

Research Technology: protoplast technology somaclonal variation

**Dr. Thomas J. McCoy**

Associate Professor

Department of Plant Sciences

University of Arizona

Tucson, AZ 85721, USA

Research Material: alfalfa turfgrass *Medicago*

Research Focus: stress selection (NaCl disease resistance)  
breeding/field selection (disease resistance and  
stress tolerance) *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation molecular biology/transformation

**Dr. Alan McHughen**

Department of Crop Science

University of Saskatchewan

Saskatoon, Saskatchewan S7N 0W0, Canada

Research Material: flax oat

Research Focus: stress selection (NaCl drought) breeding

Research Technology: somaclonal variation

**Mr. Douglas McMurray**

Graduate Student

Tissue Culture for Crops Project

Department of Biology/Botany Section

Colorado State University

Ft Collins, Colorado 80523, USA

Telex: 3711418

Research Material: rice winged bean

Research Focus: *in vitro* culture

Research Technology: somaclonal variation transformation

**Dr. Atul R. Mehta**

Professor and Head

Department of Botany

Faculty of Science

The M. S. University of Baroda

Baroda 390 002, India

Research Material: pigeonpea tobacco jojoba *Salvadora*

Research Focus: propagation *in vitro* culture

Other: selection for high yielding elite plants

Research Technology: meristem culture cell culture

somaclonal variation

Additional Information: organized UNESCO-ICRO workshop for tissue culture in 1986

**Dr. Chen Mei-Fang**

Assistant Researcher

Academia Sinica

South China Institute of Botany

Guang-zhou, PRC

Research Material: rice banana

Research Focus: stress selection (disease resistance) propagation

Research Technology: meristem culture cell culture somaclonal variation

**Mr. Ricardo S. Mendez**

Researcher

CIFAP-MORELOS

Apdo. Postal No. 12

Zacatepec, Morelos 62780, Mexico

Research Material: sugarcane rice garlic pumpkin coconut cassava

Research Focus: stress selection (NaCl disease resistance)

propagation breeding/field selection

Research Technology: meristem culture cell culture somaclonal variation

field evaluation

**Dr. A. J. Miah**

Department of Botany

Bangladesh Institute of Nuclear Agriculture

P.O. Box 4

Mymensingh, Bangladesh

Research Material: rice

Research Focus: stress selection (NaCl drought) *in vitro* culture

Research Technology: somaclonal variation

**Mr. Sebastien Miateo**

Departement Amelioration Genetique C.T.F.T.

B.P. 764

Pointe Noire, Congo

Research Material: tree timber

Research Focus: propagation *in vitro* culture

**Ms. Fabiola Prado de Micheo**

Researcher

ICAITI

Avenida la Reforma 4-47

Zona 10, ICAITI

Guatemala City, Guatemala

Research Material: banana

Research Focus: plant pathogens

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. Muhammad S. Mirza**

Researcher

Ayub Agricultural Research Institute

Faisalabad, Pakistan

Research Material: potato sugarcane

Research Focus: stress selection (disease resistance) *in vitro* culture

Research Technology: meristem culture

Additional Information: disease free seed potato production,  
virus eradication in sugarcane

**Mr. R. R. Mishra**

Director

Maharashtra Hybrid Seeds Co.

P.O. Box 27

Plot No. B-4, Industrial Estate

Jalna (Maharashtra) 431203, India

Research Material: cotton maize tomato brinjal

Research Focus: stress selection (drought disease resistance)  
propagation breeding

Research Technology: cell culture protoplast technology  
somaclonal variation

**Ms. Fanjavola Mondeil**

Departement des Recherches Forestieres et Piscicoles (DRFP)

B.P. 904

Antananarivo 101, Madagascar

Research Material: pine

Research Focus: propagation *in vitro* culture

**Mr. Williams F. Ramos Montifar**

Researcher

Center of Agricultural Technology (CENTA)

Centro de Agricultura

A.P. 885

San Salvador, El Salvador

Research Material: legumes potato flowers fruit species

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

Additional Information: attended CATIE/TCCP training course summer 1987

**Ms. Cresciana L. Morales**

Researcher

Sugar Regulatory Administration

La Granja Agricultural Research Center

La Carlota City, Philippines

Research Material: Irish potato banana sugarcane ramie

Research Focus: stress selection (NaCl drought disease resistance)  
propagation breeding

Research Technology: somaclonal variation

**Dr. Riccardo Morpurgo**

Researcher

International Potato Center (CIP)

P. O. Box 5969

Lima, Peru

Research Material: potato carnation tomato

Research Focus: stress selection (NaCl drought temperature)  
propagation

**Dr. Philip J. Moss**

Principal Cytogeneticist and Unit Leader

Cytogenetics and Tissue Culture Laboratories

ICRISAT

Patancheru

A.P. 502 324, India

Research Material: groundnut chickpea pigeonpea

Research Focus: stress selection (NaCl temperature  
disease resistance) *in vitro* culture  
propagation breeding (improved agronomic traits)

Research Technology: meristem culture cell culture  
molecular biology/transformation field evaluation  
Other: wide crosses anther culture

Additional Information: Editor, International Arachis Newsletter

**Dr. Kenneth W. Mudge**

Associate Professor

Department of Floriculture and Ornamental Horticulture

Plant Science Building

Cornell University

Ithaca, NY 14853, USA

Research Material: raspberry ornamental pine

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

Other: mycorrhizal physiology,  
*in vitro* root organ culture

Additional Information: 9/87 – 8/88 Sabbatic leave at Egerton University,  
Department of Horticulture, Box 536, Njoro, Kenya

**Dr. Fathan Muhadjir**

Head

Bogor Research Institute for Food Crops

Jalan Cimanggu 3A

Bogor, Indonesia

Research Material: maize soybean potato sweet potato

Research Focus: stress selection (general) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture

**Dr. Ludwig E. Muller**

Head

Plant Tissue Culture Laboratory

CATIE

Turrialba 7170, Costa Rica

Research Material: banana plantain

Research Focus: stress selection (disease resistance)

propagation *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. F. J. Munoz**

Director

INIAP

P.O. Box 10569, Suc. No. 4

Quito, Ecuador

Research Material: potato coffee orchids

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture cell culture

**Dr. Loise M. Muriithi**

Plant Quarantine Station

Kenya Agriculture Research Institute (KARI)

P. O. Box 30148

Nairobi, Kenya

Research Material: potato sweet potato pyrethrum babys-breath

Research Focus: propagation *in vitro* culture

**Dr. B. I. Muruli**

Breeder

Department of Crop Science

College of Agriculture, Kabete Campus

P.O. Box 30197

Nairobi, Kenya

Research Material: cowpea

Research Focus: stress selection (drought temperature) breeding

**Mr. Ben Musyimi**

Technician

Department of Crop Science

University of Nairobi, Kabete Campus

P.O. Box 29053

Nairobi, Kenya

Research Material: cassava citrus

Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Research Technology: somaclonal variation

Additional Information: attended TCCP training course fall 1985

**Mr. Don H. Muthukuda Arachchi**

Research Officer and Plant Breeder

Agricultural Research Station

Mahailluppalloma, Sri Lanka

Research Material: maize

Research Focus: stress selection (general) breeding

Research Technology: field evaluation

# N

## **Dr. Rajani S. Nadgauda**

Researcher

Division of Biochemical Sciences

National Chemical Laboratory

Poona 411 008, India

Research Material: eucalyptus cardamom ginger banana turmeric  
coconut

Research Focus: propagation field selection (high curiumin variants  
of turmeric) *in vitro* culture

Research Technology: meristem culture somaclonal variation  
field evaluation

Additional Information: micropropagation for large scale production  
of forestry species

## **Mr. Ounoh Nadjombe**

Office de Developpement et d'Exploitation des Forets

B.P. 334

Lome, Togo

Research Material: eucalyptus

Research Focus: propagation *in vitro* culture

## **Dr. Syed S. M. Naqvi**

Head

Atomic Energy Agricultural Research Center

Plant Physiology Division

Tando Jam, Sind, Pakistan

Research Material: wheat rice papaya

Research Focus: stress selection (NaCl drought) breeding  
*in vitro* culture

Research Technology: cell culture somaclonal variation

## **Dr. S. B. Narasimhulu**

Scientist

Indian Agricultural Research Institute

Biotechnology Centre

New Delhi 110012, India

Research Material: *Brassica* groundnut

Research Focus: stress selection (disease resistance) breeding  
*in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

**Ms. Chaivat Narchom**

Graduate Student

Department of Botany

Faculty of Science

Chulalongkorn University

Bangkok 10500, Thailand

Research Material: vegetable crops

Research Focus: propagation

Research Technology: cell culture somatic embryogenesis

Additional Information: production of artificial seeds through  
tissue culture

**Dr. Mohamed A. E. Nasr**

Professor

Forage Crops Research Section

ARC Field Crops Institute

Giza, Egypt

Research Material: alfalfa sorghum saltbush

Research Focus: propagation

Research Technology: field evaluation

**Dr. Taymour M. Nasr**

Associate Professor

Tissue Culture Laboratory

Agricultural Development Systems (ADS)

Ministry of Agriculture

P. O. Box 136

Orman, Giza, Egypt

Research Material: banana potato

Research Focus: *in vitro* culture

Research Technology: meristem culture

**Dr. Abdullah M. Nassib**

Director

Field Crops Research Institute

Agricultural Research Centre

Giza 12619, Egypt

Research Material: faba bean soybean broomrape

Research Focus: breeding/field selection (adaptability  
disease resistance)

**Mr. Francis M. Ndambuki**

Breeder

Kenya Seed Company, Ltd.

P. O. Box 553

Kitale, Kenya

Research Material: maize

Research Focus: breeding/field selection

Research Technology: field evaluation (conventional hybridization)

**Dr. Jean Ndeberi**

Professor

Faculty of Science

University of Burundi

B.P. 2700

Bujumbura, Burundi

Research Material: rice maize sorghum banana sweet potato

Research Focus: *in vitro* culture

Research Technology: meristem culture somaclonal variation  
culture media improvement

**Mr. Charles M. Ndegwa**

Research Manager

Kenya Seed Company

P. O. Box 553

Kitale, Kenya

Research Material: maize sorghum oil crops pasture carrot onion

Research Focus: propagation breeding/field selection (selection  
for quality)

Research Technology: field evaluation (conventional maintenance breeding)

**Dr. Nyat Quat Ng**

Researcher and Geneticist

International Institute of Tropical Agriculture

Oyo Road

P.M.B. 5320

Ibadan, Nigeria

Research Material: cowpea soybean

Research Focus: stress selection (Al NaCl temperature  
disease resistance) propagation *in vitro* culture

Research Technology: meristem culture cell culture  
protoplast technology embryo culture

Additional Information: wide crosses

**Mr. Shou Yong Choy Ng**

Researcher

International Institute of Tropical Agriculture

Oyo Road

P.M.B. 5320

Ibadan, Nigeria

Research Material: cassava sweet potato yam banana plantain

Research Focus: stress selection (Al NaCl disease resistance)  
propagation *in vitro* culture

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation field evaluation embryo culture

Additional Information: using reduced growth storage for *in vitro*  
germplasm conservation

**Mr. Michael N. Ngugi**

Researcher

Kenya Seed Company

P. O. Box 553

Kitale, Kenya

Research Material: dry green bean carnation

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture field evaluation

**Dr. Colette M. Nitsch**

Physiology and Genetics

GIS Moulon CNRS

91190

Gif sur Yvette, France

Research Material: tomato lupine millet maize pine

Research Technology: widecross embryo rescue anther culture

**Dr. Germano E. Njagi**

Researcher

Botany Department

Kenyatta University

P. O. Box 43844

Nairobi, Kenya

Research Material: millet sorghum *Amaranthus* cassava

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture protoplast technology

**Dr. Van Uyen Nguyen**

Ho Chi Minh City Branch of the  
National Research Centre for  
Scientific Research of Vietnam  
1 Mac Ding Chi

Ho Chi Ming City, Vietnam

Research Material: sweet potato taro

Research Focus: propagation

Research Technology: meristem culture

**Dr. E. Noerhadi**

Professor

Department of Biology

Institut Teknologi Bandung

Jalan Ganesha 10

Bandung, Indonesia

Research Material: rice

Additional Information: biosynthesis of Indonesian plants

**Mr. Barry L. Nolt**

Centro Internacional de Agricultura Tropical (CIAT)

A.A. 6713

Cali, Colombia

Research Material: cassava

Research Focus: *in vitro* culture

Research Technology: meristem culture

Additional Information: application of thermotherapy and tissue culture  
techniques for eradication of viruses from cassava

**Ms. Normah Noor**

Department of Botany

Universiti Kebangsaan Malaysia

43600 Bangi

Selangor, Malaysia

Research Material: mangosteen

Research Focus: propagation *in vitro* culture

**Dr. Frantisek J. Novak**

Head, Plant Breeding Unit

IAEA Laboratories

Joint FAO/IAEA Programme

P.O. Box 100

A-1400 Vienna, Austria

Research Material: maize banana plantain garlic cocoa

Research Focus: stress selection (disease resistance) breeding  
*in vitro* culture

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation field evaluation

**Ms. Parichart Nukulkam**

Researcher

Department of Agriculture

Horticulture Research Institute

Bangkhem, Bangkok 10900, Thailand

Research Material: oil palm durian fruit crops

Research Focus: propagation breeding

Research Technology: somaclonal variation

**O**

**Dr. James H. Oard**

Researcher

Department of Agronomy

University of California, Davis

Davis, CA 95616, USA

Research Focus: stress selection (disease resistance)

Research Technology: cell culture

Additional Information: development of transformation systems in monocots

**Dr. J. L. Ochoa**

Head

Center for Biological Research

Box 128

University of Southern Baja California

La Paz, Baja California 23000, Mexico

Telex: 51223 CIGPMEX

Research Material: *Cajanus cajan* *Vigna unguiculata* flora

Research Focus: stress selection (NaCl)

**Dr. Neftali Ochoa—Alejo**

Researcher

Centro de Investigacion y  
de Estudios Avanzados del IPN  
Unidad Irapuato, Apartado Postal 629  
Irapuato, Gto., Mexico

Research Material: *Phaseolus vulgaris* *Capsicum*

Research Focus: stress selection (drought) breeding

Research Technology: cell culture somaclonal variation transformation

**Dr. Jane F. O'Hara**

Researcher

Alfua Campus  
University of the South Pacific  
Private Bag  
Apia, Western Samoa

Research Material: taro sweet potato coconut banana vanilla

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture embryo culture

Additional Information: root crops germplasm storage

**Dr. Samuel N. C. Okonkwo**

Professor

Department of Botany  
University of Nigeria  
Nsukka, Anambra State, Nigeria

Research Material: yam African yam *Solanum*  
*Pinus Gmelina Striga*

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture

**Dr. Joseph E. Okundaye**

Executive Director

Harness Nigeria, Ltd.  
P.O. Box 4500  
13 Iyekemosa Street

Benin City, Nigeria

Research Material: wheat soybean okra melons

Research Focus: stress selection (general) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture

Additional Information: propagation used for diminishing African  
fruit trees

**Dr. Oghenekome U. Onokpise**

Breeder

Institute of Agronomique Research/ROTREP

Ekona, P.M.B. 25

Buea, Cameroon

Research Material: tania taro muscadine grapes obeche teak

Research Focus: breeding/field selection (disease resistance yield)  
*in vitro* culture

Research Technology: meristem culture protoplast technology  
field evaluation

**Mr. Francisco J. Orozco C.**

Researcher

CENICAFE

Chinchina

Caldas, Colombia, S.A.

Research Material: coffee plantain

Research Focus: breeding *in vitro* culture

Research Technology: somaclonal variation

**Mr. Carlos A. Orozco Castillo**

Professor/Investigator

Facultad de Agronomica

Universidad de San Carlos de Guatemala

Ciudad Universitaria

Zona 12

Apto. Postal 1515

Guatemala, C.A.

Research Material: coffee

Research Focus: propagation *in vitro* culture

Research Technology: somaclonal variation micropropagation

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. U. A. Ortega**

Director and Researcher

Laboratorio de Biotecnologia Vegetal

Facultad de Ciencias Agricolas

Universidad Central

Casilla A46-07

Quito, Ecuador

Research Material: papaya tree tomato *Solanum Rubus*

Research Focus: propagation *in vitro* culture

Research Technology: cell culture somaclonal variation

Additional Information: mutation induction in lupins, metabolite production  
in tissue culture

**Ms. Carmen E. Rodreguez Ortiz**

Researcher

Departamento de Biología

Javeriana University

Cra. 7a #43-82

Bogata, Colombia

Research Material: *Tabebuia*

Research Focus: micropropagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. O. Ospina**

Professor

Universidad Nacional

A.A. 3840

Medellin, Colombia, S.A.

Research Material: banana cocoa

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture

**Ms. Rohaui Othman**

Researcher

Plant Science and Biotechnology Unit

Biology Division

Palm Oil Research Institute of Malaysia (PORIM)

P. O. Box 10620

Kuala Lumpur 50720, Malaysia

Research Material: oil palm

Research Focus: propagation *in vitro* culture

Research Technology: cell culture

Additional Information: embryo culture for germplasm collection

## P

**Dr. Chandrasekaran Padmanabhan**

Associate Professor

Plant Tissue Culture Laboratory

School of Genetics

Tamil Nadu Agricultural University

Colimbatore 641003, India

Research Material: coconut forage grasses cassava

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture

protoplast technology somaclonal variation

**Dr. Josepina A. Paez**

Professor

Instituto de Agronomia

Laboratorio de Cultivo de Tejidos

Facultad de Agronomia

Universidad Central de Venezuela

Apartado 4579

Maracay, El Limon

Edo. Aragua, Venezuela, S.A.

Research Material: potato cassava *Anthurium*

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture field evaluation

Other: somatic embryogenesis in callus culture

**Ms. Amita Pal**

Lecturer

Tissue Culture Section

Bose Institute

Calcutta 700054, India

Research Material: safflower sesame poplar

Research Focus: stress selection (drought disease resistance)

propagation *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Narendra K. Pandey**

Principal Scientist

Hindustan Lever Research Centre

ICT Link Road

Andheri East

Bombay 400099, India

Research Material: rice mustard tea cardamom potato

Research Focus: stress selection (NaCl disease resistance)

propagation

Research Technology: meristem culture somaclonal variation

molecular biology

**Dr. Shankar V. Paranjpe**

Researcher

Division of Biochemical Sciences

National Chemical Laboratory

Pune 411008, India

Research Material: cotton eucalyptus bamboo *Salvadora*

Research Focus: propagation *in vitro* culture

Research Technology: cell culture somaclonal variation field evaluation

**Dr. Thipmani Paratasilpin**

Biology Department

Faculty of Science

Chiang Mai University

Chiang Mai 50002, Thailand

Research Material: *Vicia faba* *Allium cepa* tea coffee

**Mr. Saptowo J. Pardal**

Researcher

Department of Plant Physiology

Bogor Research Institute for Food Crops

Bogor, Indonesia

Research Material: rice maize soybean orchids peanut

Research Focus: stress selection (Al NaCl disease resistance  
acid tolerance) propagation breeding  
*in vitro* culture

Research Technology: meristem culture field evaluation embryo culture  
anther culture

Additional Information: virology

**Dr. V. A. Parthasarathy**

Researcher

ICAR Research Complex

Tissue Culture Lab., Division of Horticulture

Kench's Trace, P.O. Laban

Shillong 793 004, India

Research Material: citrus tomato bamboo

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation

Additional Information: embryo and ovule culture

**Dr. Moacir Pasqual**

Breeder and Professor

Escola Superior de Agricultura de Lavras (ESAL)

Caixa Postal 37

37200 Lavras MG, Brazil

Research Material: potato manihot apple orange eucalyptus

Research Focus: stress selection (disease resistance) propagation  
breeding (fruit quality) *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Kamlesh R. Patel**

Research Director  
Agriforest Technologies Ltd.  
2330 Enterprise Way  
P.O. Box 178  
Kelowna, B.C. V1Y 7N5, Canada

Research Material: apple pear rose *Syngonium* douglas fir spruce  
Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation

**Dr. Lilian F. Patena**

Department of Pomology  
University of California, Davis  
P.O. Box 555  
Davis, CA 95616, USA

Research Material: rice wheat apple banana bamboo rattan  
Research Focus: propagation *in vitro* culture

Other: transfer of agrobacterium plasmid to plant  
tissue

Research Technology: meristem culture transformation

**Dr. Ayyappan Payyeri**

Researcher  
Division of Plant Physiology  
UPASI Tea Research Institute  
Nirar Dam, B.O.  
Valparai 642 127  
Coimbatore, Tamil Nadu, India

Research Material: orchids shade trees tea cardamom  
Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Research Technology: meristem culture protoplast technology  
somaclonal variation

**Ms. Myriam Peña**

Researcher

Laboratorio de Investigaciones

Federacion Nacional de Cafeteros

A.A. 3938

Bogota, Colombia, S.A.

Research Material: coffee tropical fruit banana citrus

Research Focus: stress selection (disease resistance) propagation

Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation field evaluation

**Ms. Martha Lucia Peña Peña**

Researcher

Laboratorio SAR

Kra 15 H 34-65

Bogota, Colombia, S.A.

Research Material: *Dioscorea*

Research Focus: *in vitro* culture

Research Technology: meristem culture

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. V. J. Phillip**

Professor

Botany Department

Calicut University

Kerala 673 635, India

Research Material: *Pisum* *Areca* avocado macadamia rose apple  
cinnamon

Research Focus: propagation

**Mr. Richard A. Pickering**

Researcher and Breeder

Crop Research Division

DSIR

Private Bag

Christchurch, New Zealand

Research Material: barley wild species in the tribe *Triticeae*

Research Focus: stress selection (disease resistance)  
breeding/field selection (aphid resistance)  
*in vitro* culture

Research Technology: somaclonal variation field evaluation

Other: embryo culture of wide hybrids in *Triticeae*

**Dr. Manuel E. Pinto Contreras**

Departamento de Produccion Agricolas Facultad  
de Ciencias Agrarias and Forestales  
Casilla 1004

Santiago, Chile

Research Material: tree seed

Research Focus: propagation *in vitro* culture

**Ms. Susana Pons**

Researcher

Inst. de Investigacion Agropecuaria de Panama  
IDIAP, Apartado 6A - 4391

Panama 6A, Panama

Telex: 3677 PG

Research Material: cassava onion banana tomato

Research Focus: breeding

**Ms. Pongpet Poonsapaya**

Graduate Student

Tissue Culture for Crops Project

Department of Biology/Botany Section

Colorado State University

Ft. Collins, CO 80523, USA

Telex: 3711418

Research Material: rice

Research Focus: stress selection (NaCl) *in vitro* culture

Research Technology: cell culture

**Dr. C. S. Prakash**

Research Associate

Department of Forestry

T. P. Cooper Building

University of Kentucky

Lexington, KY 40546-0073, USA

Research Material: eastern cottonwood hybrid poplar

Research Focus: stress selection (temperature disease resistance)  
breeding/field selection *in vitro* culture

Research Technology: somaclonal variation molecular biology/transformation  
field evaluation

**Dr. Kattemalavadi S. Prakash**

Rice Breeder

No.121

Central Excise Layout

Vijayanagar Extension

Bangalore 560040, India

Research Material: rice orchids sandalwood eucalyptus

Research Focus: stress selection (general)

Research Technology: protoplast technology molecular biology/transformation

**Dr. Penna Su Prasanna**

Researcher

Plant Genetics Laboratory

Department of Genetics

Osmania University

Hyderabad 500 007, India

Research Material: maize rice mango

Research Focus: breeding mutant selection

Research Technology: cell culture protoplast technology  
transformation

**Dr. Madhumati Purohit**

Researcher

Laboratory of Plant Physiology and Biochemistry

Department of Botany

University of Rajasthan

Jaipur 302004, India

Research Material: millet sorghum

Research Focus: stress selection (drought) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture

Additional Information: attended TCCP training course fall 1987

**Mr. Sathish Puthigae**

Graduate Student

Tissue Culture for Crops Project

Department of Biology/Botany Section

Colorado State University

Fort Collins, CO 80523, USA

Telex: 3711418 TISCLT

Research Material: rice

Research Focus: propagation breeding *in vitro* culture

Research Technology: cell culture somaclonal variation

## Q

### **Dr. Shao Qiquan**

Institute of Genetics  
Academia Sinica  
Beijing, PRC

Research Material: *Dioscorea*  
Research Technology: transformation

### **Dr. Azra Quraishi**

Researcher  
Principal Scientific Officer  
Tissue Culture Lab., P.O.N.I.H.  
National Agricultural Research Centre  
Islamabad, Pakistan

Research Material: wheat rice potato date palm  
Research Focus: stress selection (NaCl) propagation  
*in vitro* culture  
Research Technology: cell culture protoplast technology

### **Dr. Edgardo C. Quisumbing**

Agriculturalist  
World Bank, Nairobi  
1818 H. Street, N.W.  
Washington, D.C. 20433, USA  
Additional Information: Professor and Chairman, Dept. of Horticulture,  
University of Philippines at Los Baños,  
Philippines (on leave)

## R

### **Dr. Satish K. Raina**

Biotechnology Centre  
IARI  
New Delhi 110012, India

Research Material: rice  
Research Focus: stress selection (disease resistance)

**Dr. Raghava Ram**

Senior Scientist

Sungene Technologies Corp.

2050 Concourse Drive

San Jose, CA 95131-1818, USA

Research Material: *Brassica Sesame*

Research Focus: *in vitro* culture

Research Technology: cell culture somaclonal variation

Additional Information: interested in biotechnology for oil seed crops

**Ms. Lina C. Londoño Ramirez**

Researcher

National Coffee Research Center (CENICAFE)

Edificio Leonidas Londoño L.

Banco Cafetero, 3er piso

Manizales, Colombia

Research Material: coffee plantain cacao

Research Focus: propagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Mr. Oscar R. Argueta Ramirez**

Student

Honduran Agricultural Research Foundation

La Lima Nueva, Department Cortas

Apartado Postal No. 2067

San Pedro Sula, Honduras

Research Material: banana citrus pineapple

Research Focus: propagation germplasm

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. Luis C. Ramos**

Researcher

Department Genetica

Instituto Agronomico

CP 28

13,100 Campinas, SP, Brazil

Research Material: coffee wheat tomato castor-bean

Research Focus: stress selection (AI) propagation breeding (genetics)  
*in vitro* culture

Research Technology: meristem culture molecular biology/transformation  
field evaluation

Additional Information: castorbean oil yield breeding

**Dr. S. R. Sree Rangasamy**

School of Genetics

Tamil Nadu Agricultural University

Coimbatore 641 003, India

Research Material: rice

Research Focus: stress selection (disease and insect resistance)  
propagation breeding

Research Technology: anther culture

**Dr. Mukunda Ranjit**

Researcher

Tissue Culture Laboratory

Horticulture Development Project

Kirtipur, Kathmandu, Nepal

Research Material: *Malus domestica* *Prunus* *Pinus wallichiana*  
*Pinus roxburghii*

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Dr. A. N. Rao**

Professor

Faculty of Science

National University of Singapore

Lower Kent Ridge Road

Singapore 0511, Singapore

Research Material: cocoa banana orchids timber fruit

Research Focus: propagation somatic embryogenesis

Research Technology: meristem culture

**Dr. B. G. Rao**

Biotechnology Centre

Indian Agricultural Research Institute

New Delhi 110012, India

Research Material: chickpea

Research Focus: *in vitro* culture

Research Technology: meristem culture

**Dr. D. L. Rao**

Sugarcane Research Centre

Fiji Sugar Corporation, Ltd.

Lautoka, Fiji

Research Material: sugarcane

Research Focus: *in vitro* culture

**Dr. Shuban K. Rawal**

Research Scientist

Division of Biochemical Sciences

National Chemical Laboratory

Pune 411008, India

Research Material: sugarcane pigeonpea

Research Focus: stress selection (disease resistance)

Research Technology: molecular biology/transformation

**Ms. Mussarat Jabeen Raza**

Researcher

Department of Botany

University of Peshawar

Peshawar, Pakistan

Research Material: peanut potato peach juniper eucalyptus

Research Focus: stress selection (NaCl disease resistance) propagation

Additional Information: attended TCCP training course fall 1986

**Dr. Gurjal M. Reddy**

Professor and Dean

Department of Genetics

Osmania University

Hyderabad, A.P. 500007, India

Research Material: rice maize triticale *Arachis hypogaea* papaya  
banana

Research Focus: *in vitro* culture

Research Technology: cell culture protoplast technology  
molecular biology/transformation

**Ms. Maria del Rosario Ricci**

Student

FCA "da Primavera" San Felipe

Retalhuleu, Guatemala, C.A.

Research Material: palm coconut

Research Focus: *in vitro* culture

Research Technology: electrophoresis of *in vitro* collections

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. Dewayne L. Richardson**

Director

Palm Research Program

P. O. Box 30

San Jose, Costa Rica

Research Material: African oil palm American oil palm

Research Focus: breeding/field selection *in vitro* culture

Research Technology: cell culture somaclonal variation field evaluation

**Ms. Erlinda P. Rillo**

Researcher

Philippine Coconut Authority

Albay Research Center

Banao, Guinobatan

Albay, Philippines

Research Material: coconut ornamentals

Research Focus: propagation (clonal resistance screening)  
*in vitro* culture

Research Technology: meristem culture

Additional Information: attended TCCP training course fall 1986

**Mr. Alfredo Agustin Rivera**

Researcher

Instituto Salvadoreño de Investigaciones del ESFG (I.S.I.E.)

Norte Santa Tecla

Departado de la Libertad

El Salvador, C. A.

Research Material: coffee

Research Focus: propagation *in vitro* culture

Research Technology: micropropagation

Additional Information: attended C.A.S.E./TCCP training course fall 1988

**Ms. Paulina Martinez Rivera**

Chief, Plant Quarantine Unit

Colombian Agriculture Institute (ICA)

Sanidad Vegetal

Apartado Aereo 151123, El Dorado

Bogata, D.E., Colombia, S.A.

Research Material: sugarcane

Research Focus: *in vitro* propagation and conservation  
of germplasm

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. A. Ian Robertson**

Lecturer

Crop Science Department

University of Zimbabwe

P.O. Box 167 M.P.

Harare, Zimbabwe

Research Material: cassava potato coffee strawberry *Leucaena*

Research Focus: stress selection (drought) propagation breeding  
*in vitro* culture

Research Technology: meristem culture protoplast technology  
molecular biology/transformation

**Dr. William Roca**

Head

Biotechnology Research Unit

CIAT

A.A. 6713

Cali, Colombia

Telex: 5769 CIAT CO

Research Material: cassava common bean

Research Focus: *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation  
molecular biology/transformation

Other: anther and microspore culture

**Mr. Ataide J. Rodriguez**

Researcher

Botany Department

CEPLAC

Caixa Postal 7

45.600. Itabuna. BA. Brazil

Research Material: oil palm *Paullinia* cocoa

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture anther culture

**Ms. Helga Rodriguez—Rodriguez**

Researcher

FEDECAFE

C.L. 26A #37-28

Bogota, Colombia

Research Material: citrus coffee pineapple plantain

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture field evaluation

Additional Information: attended CATIE/TCCP training course fall 1988

**Ms. Carol Rohrman**

Researcher

11 Calle 19-21 Z. 15 VH3

Guatemala, Guatemala

Research Material: potato cardamom

Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Additional Information: attended TCCP training course spring 1987

**Ms. Ana P. Rojas**

Researcher

Agricultural Research Center

Universidad de Costa Rica

San Jose, Costa Rica

Research Material: *Macadamia* bird of paradise tree species

Research Focus: propagation *in vitro* culture

Additional Information: attended CATIE/TCCP training course summer 1987

**Mr. Takaniko Ruabete**

Researcher

Ministry of Primary Industries

Koronivia Research Station

P O Box 77

Nausori, Fiji Islands

Research Material: sweet potato

Research Focus: stress selection (disease resistance)  
*in vitro* culture

Research Technology: meristem culture

Additional Information: attended TCCP training course spring 1986

**Mr. Jose Luis Rueda—Sarmiento**

Project Leader

International Potato Centre (CIP)

B.P. 75

Bujumbura, Burundi

Research Material: potato sweet potato

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture

**Dr. M. C. Rush**

Professor

Department of Plant Pathology and Crop Physiology

Louisiana State University

Baton Rouge, LA 70803, USA

Research Material: rice

Research Focus: stress selection (disease resistance)

Research Technology: somaclonal variation

**S**

**Dr. Yoneo Sagawa**

Director/Horticulturist

Horticulture Department

Harold L. Lyon Arboretum

University of Hawaii

3860 Manoa Road

Honolulu, HI 96822, USA

Research Material: economic/ornamental/medicinal tropical plants orchids

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Mr. Sudjoko Sahat**

Researcher and Breeder

Lembang Horticulture Research Institute

JL. Tangkuban Paramu S17

Lembang, Bandung 40931, Indonesia

Research Material: potato lowland vegetables

Research Focus: breeding/field selection

Research Technology: meristem culture field evaluation germplasm

**Dr. Oradee Sanavacharin**

Department of Horticulture

Faculty of Agriculture

Kasetsart University

Bangkok 10900, Thailand

Research Material: banana elephant yam date palm

Research Focus: stress selection (NaCl acid tolerance) propagation

mutation breeding

Research Technology: gamma rays

**Mr. Efrain Salazar**

Researcher

Nat. Agric. Res. Foundation (Fon AIAP)

Zona Universitaria "El Limon"

Edo. Aragua

Maracay, Venezuela

Research Material: cacao sunflower citrus banana

Research Focus: anther culture

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. Hector Lozoya Saldana**

Professor

Departamento de Fitotecnia

Universidad Autonoma Chapingo

Chapingo 56230, Mexico

Research Material: potato ornamentals

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

Additional Information: production of pathogen-free plants

**Ms. Esperanza G. Sanabria**

Professor

Universidad Nacional

Escuela de Ciencias Agrarias

Heredia, Costa Rica

Research Material: *Enterolobium* *Erythrina* forest species

Research Focus: *in vitro* culture

Research Technology: micropropagation

Additional Information: attended CATIE/TCCP training course fall 1988

**Mr. Juan C. Sanchez**

Researcher

National University of Costa Rica

Escuela de Ciencias Ambientales

Universidad Nacional Heredia

Costa Rica

Research Material: forest tree species

Research Focus: propagation

Additional Information: Attended CATIE/TCCP training course summer 1987

**Dr. U. R. Sangakkara**

Lecturer

Department of Crop Science

Faculty of Agriculture

University of Peradeniya

Peradeniya, Sri Lanka

Research Material: tubers legumes spices *Leucaena Glynnichu*

Research Focus: propagation breeding

**Dr. Sree Ramasamy Sangampalayam**

Director

School of Genetics

Tamil Nadu Agricultural University

Coimbatore 641003, India

Research Material: rice sorghum banana tomato acacia  
coconut mungbean

Research Focus: stress selection (NaCl) propagation breeding (yield)  
*in vitro* culture

Research Technology: meristem culture protoplast technology  
molecular biology/transformation

**Mr. Felipe Santanaria Baculto**

Researcher

Km 24 Carr-Merode-Motul

Apartado 1485-B Merida

Yucatan, Mexico

Research Material: cacao

Research Focus: breeding (field collection and improvement of  
cacao germplasm) *in vitro* culture

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. N.P. Sanna**

Senior Scientist

Central Rice Research Institute

Cuttack 753 006, India

Research Material: rice wheat

Research Focus: breeding

Research Technology: somaclonal variation anther culture

Additional Information: cyto sterile stock propagation of rice

**Mr. Badari N. Sarvepalli**

Researcher

Department of Botany

Faculty of Science

The M.S. University of Baroda

Baroda - 2, India

Research Material: grass pea

Research Focus: breeding/field selection (toxin free material)

Research Technology: cell culture

Other: cell line selection

**Dr. Serijati Sastrapradja**

Director

National Centre for Research on Biotechnology

Indonesian Institute of Sciences

P.O. Box 323

Bogor 16122, Indonesia

Research Material: *Colocacia esculenta* *Nephelium lapraceum*

Research Focus: breeding *in vitro* culture

Research Technology: meristem culture

**Dr. D. C. Sastri**

Cytogeneticist

ICRISAT

Patancheru

Andhra Pradesh 502 324, India

Research Material: legumes peanut

Research Technology: protoplast technology

Additional Information: wide hybridization morphogenesis

**Dr. V. A. Savangikar**

Researcher

Nimbkar Agricultural Research Institute

Phaltan (Satara) 415523, India

Research Material: sugarcane potato citrus mango agave *Leucaena*

Research Focus: stress selection (NaCl drought disease resistance)

propagation *in vitro* culture

Research Technology: meristem culture cell culture protoplast technology

**Dr. Gopalan Selvaraj**

Researcher

National Research Council

Plant Biotechnology Institute

Saskatoon, Sask. S7N 0W9, Canada

Research Material: *Brassica* tobacco

Research Technology: transformation

Additional Information: heterologous gene expression

**Dr. A. Selvapandiyan**

Scientist

International Centre for Genetic Engineering & Biotechnology

N11 Campus

Shaheed Jeet Singh Marg

New Delhi 110 067, India

Research Material: rice

Research Focus: stress selection (NaCl herbicide tolerance)

Research Technology: protoplast technology molecular biology/transformation  
field evaluation

**Dr. D. Senadhira**

Plant Breeder

IRRI

P.O. Box 933

Manila, Philippines

Research Material: rice

Research Focus: stress selection (NaCl) breeding

Research Technology: cell culture somaclonal variation

**Ms. Gassama Seye**

Departement de Biologie Vegetale

Faculte des Sciences

Universite de Dakar

Dakar, Senegal

Research Material: *Acacia albida*

Research Focus: propagation *in vitro* culture

**Dr. Vinod K. Shangloo**

Researcher

80-Bhagwati Nagar

Canal

Jammu Tawi 180 001, India

Research Material: rice mungbean carrot potato shisham eucalyptus

Research Focus: stress selection (general) *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation molecular biology/transformation

**Dr. C. Shanthamma**

Department of Botany

Mysore University

Manasagangotri

Mysore 570006, India

Research Material: fingermillet

Research Focus: plant regeneration

**Dr. Shamim Hussain Siddiqui**

Researcher

Atomic Energy Agricultural Research Centre

Plant Genetics Division

Tandojam, Pakistan

Research Material: sugarcane

Research Focus: stress selection (general) breeding *in vitro* culture

Research Technology: cell culture somaclonal variation

**Mrs. Benchamas Silayoi**

Researcher

Department of Horticulture

Kasetsart University

Bangkok 10903, Thailand

Research Material: banana

Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Research Technology: somaclonal variation

Additional Information: attended TCCP training course spring 1987

**Dr. B. B. Singh**

Plant Breeder

IITA

P.M.B. 5320

Ibadan, Nigeria

Research Material: cowpea soybean

Research Focus: stress selection (disease and insect resistance)  
breeding

Research Technology: molecular biology/transformation

**Dr. Foja Singh**

Breeder

I.I.H.R.

P.O. Box 8025

255 Upper Palace Orchards

Bangalore-870, India

Research Material: orchids anthurium

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture somaclonal variation field evaluation

**Ms. Cecelia S. De Souza Siqueira**

Researcher

Cenargen/EMBRAPA

Ave. W/5N Parque Rural

Cp. 10372

Sao Paulo, Brazil

Research Material: tuber crops fruit crops

Additional Information: attended CATIE/TCCP training course summer 1987

**Ms. Sunitha Siriwardana**

Training Coordinator

Tissue Culture for Crops Project

Colorado State University

Fort Collins, CO 80523, USA

Telex: 3711418 TISCLT

Research Material: winter wheat

Research Focus: stress selection (drought) *in vitro* culture

Research Technology: somaclonal variation

**Dr. Lakshmi Sits Sita**

Researcher

Microbiology and Cell Biology Department

Indian Institute of Science

Bangalore 560 080, India

Research Material: pearl millet pineapple mango sandalwood rosewood  
eucalyptus

Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Research Technology: cell culture protoplast technology

**Dr. Lesley A. Sitch**

Field Staff Cytogeneticist

Agricultural Science Division of

Rockefeller Foundation

IRRI

P. O. Box 933

Manila, Philippines

Research Material: rice rice wild relatives

Research Focus: stress selection (disease resistance pest  
soil problems) breeding *in vitro* culture

Research Technology: somaclonal variation field evaluation  
Other: wide hybridization embryo rescue

Additional Information: transformation from wild *Oryza* species into rice

**Dr. D. I. Skidmore**

Lecturer

Department of Applied Biology

Pembroke Street

University of Cambridge

Cambridge, England, U.K.

Research Material: *Carica papaya Pinus caribaea*

Research Focus: stress selection (temperature disease resistance)  
propagation breeding *in vitro* culture

Research Technology: meristem culture

**Dr. Darroll D. Skilling**

Project Leader

USDA Forest Service

North Central Forest Experiment Station

1992 Folwell Avenue

St. Paul, MN 55108, USA

Research Material: *Populus Larix*

Research Focus: stress selection (disease resistance) *in vitro* culture

Research Technology: cell culture somaclonal variation

**Ms. Hajer Slim-Amara**

Institut National Agronomique de Tunis

43 Av. Charles Nicolle

1002 le Belvedere, Tunis, Tunisia

Research Material: *Hordeum vulgare* *Hordeum bulbogum*

Research Focus: stress selection (disease resistance)  
breeding/field selection (double purpose yield)  
*in vitro* culture

Research Technology: cell culture field evaluation

**Dr. Roberta H. Smith**

Professor

Department of Soil and Crop Sciences

College of Agriculture

Texas A&M University

College Station, TX 77843, USA

Research Material: sorghum rice cotton

Research Focus: stress selection (drought) propagation breeding  
*in vitro* culture

Research Technology: meristem culture cell culture protoplast technology  
transformation

**Dr. Steven E. Smith**

Assistant Professor

Department of Plant Sciences

University of Arizona

Tucson, AZ 85721, USA

Research Material: alfalfa medic

Research Focus: stress selection (NaCl water relationships) breeding

Research Technology: cell culture field evaluation

Additional Information: organelle inheritance

**Mr. Thomas Smith and Ms. Catherine Rivera Smith**

Owners and Operators

Summit Enterprises, Inc.

3005 W. Vine Drive

Fort Collins, CO 80521, USA

Research Material: potato herbs flowering ornamentals

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture chemotherapy

Additional Information: effect of long-term *in vitro* propagation  
on line selections

**Ms. Ma. del Socorro Tewelde**

Researcher

Apdo. Postal 38

CATIE

Turrialba 7170, Costa Rica

Research Material: teak

Research Focus: propagation *in vitro* culture

Research Technology: micropropagation

Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. Achmad Soedarsan**

Director

Bogor Research Institute for Estate Crops

Taman Kencana No. 1

Bogor, Indonesia

Research Material: coffee

Research Focus: propagation

Research Technology: field evaluation

**Dr. Hari K. Srivastava**

Project Coordinator

International Center of Genetic Engineering & Biotechnology

Department of Biotechnology

Ministry of Science and Technology

CGO Complex, Block II

Lodhi Road

New Delhi, India

Research Material: rice pigeonpea timber & fodder trees  
shrub species medicinal and aromatic plants

Research Focus: stress selection (NaCl water relationships  
insect and pest resistance) breeding  
*in vitro* culture

Research Technology: protoplast technology somaclonal variation  
molecular biology/transformation  
Other: cytoplasmic heredity through *in vitro*  
manipulation

**Dr. H. Thomas Stalker**

Professor

Department of Crop Science

Box 7629

North Carolina State University

Raleigh, NC 27695, USA

Research Material: peanut

Research Focus: stress selection (disease resistance)

propagation *in vitro* culture

Research Technology: cell culture

Other: embryo development and rescue of interspecific hybrids

**Dr. Bill Stegmeler**

Breeder

Fort Hays Experiment Station

Kansas State University

Hays, KS 67601, USA

Research Material: pearl millet

Research Focus: stress selection (drought) breeding

**Ms. Carol M. Stiff**

Research Associate and Ph.D. Student

Department of Forest Resources

University of Idaho

Moscow, ID 83843, USA

Research Material: *Populus Pinus monticola Pinus ponderosa Larix*

Research Focus: propagation breeding/field selection (herbicide tolerance) *in vitro* culture

Research Technology: meristem culture protoplast technology  
somaclonal variation molecular biology/transformation

Other: micropropagation using needle fascicles

Additional Information: acclimation of developed plantlets to forest  
research nursery environment

**Dr. Subijanto Sujadi**

Director

Central Research Institute for Horticulture

Jalan Ragunan 19

Jakarta Selatan, Indonesia

Research Material: potato garlic

Research Focus: stress selection (disease resistance) breeding  
*in vitro* culture

Research Technology: meristem culture somaclonal variation

**Dr. S. Sukumar**

Assistant Professor

School of Genetics

Tamil Nadu Agricultural University

Coimbatore 641 003, India

Research Material: black gram green gram tomato

Research Focus: stress selection (NaCl) breeding *in vitro* culture

Research Technology: cell culture somaclonal variation

**Dr. Zongxiu Sun**

Researcher

China National Rice Research Institute

Hangzhou, PRC

Research Material: rice

Research Focus: breeding *in vitro* culture

Research Technology: cell culture somaclonal variation

**Dr. Pongpimon Suriyajantratong**

Department of Biology

Khon Kaen University

Khon Kaen 40002, Thailand

Research Material: cowpea

Research Focus: plant regeneration

**Dr. R. Dore Swamy**

Tissue Culture Laboratory

Division of Plant Physiology & Biochemistry

Indian Institute of Horticultural Research

Bangalore 560 089, India

Research Material: bougainvillea

Research Focus: propagation *in vitro* culture

# T

## **Ms. Dora Tabancay**

Researcher

Gilroy Foods, Inc.

P. O. Box 1088

1350 Pacheco Pass Highway

Gilroy, CA 95020, USA

Research Material: onion

Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Research Technology: meristem culture somaclonal variation RFLP

## **Dr. Sugiarto Tahardi**

Senior Researcher

Bogor Research Institute for Estate Crops

Plant Biotechnology Unit

Jl. Taman Kencana 1

Bogor, Indonesia

Research Material: coffee oil palm

Research Focus: propagation *in vitro* culture

Research Technology: cell culture meristem culture protoplast technology

## **Dr. Moshe Tal**

Professor

Department of Biology

Ben Gurion University

Beer Sheva, Israel

Research Material: tomato potato

Research Focus: stress selection (NaCl) *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

## **Dr. Mohamed Senawi Mohamed Tamin**

Coordinator

MARDI

Biotechnology Unit

G.P.O. Box 12301

Kuala Lumpur 50774, Malaysia

Research Material: cocoa coconut

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture protoplast technology

**Dr. Geok—Yong Tan**

Principal Plant Breeder  
Cocoa and Coconut Research Institute  
P. O. Box 1846  
Rabaul, East New Britain  
Papua New Guinea

Research Material: cocoa coconut  
Research Focus: propagation breeding (disease resistance yield)  
Research Technology: meristem culture protoplast technology  
embryo culture

**Dr. Tom Tautorus**

Researcher  
Gilroy Foods, Inc.  
P. O. Box 1088  
1350 Pacheco Pass Highway  
Gilroy, CA 95020, USA

Research Material: herb and spice crops  
Research Focus: propagation *in vitro* culture  
Research Technology: meristem culture cell culture somaclonal variation  
molecular biology/transformation

**Mr. Sompong Te—chato**

Researcher  
Department of Plant Sciences  
Faculty of Natural Resources  
Prince of Songkla University  
Haat Yai 90112, Thailand

Research Material: oil palm coconut longkong mangosteen para rubber  
Research Focus: propagation breeding *in vitro* culture  
Research Technology: meristem culture cell culture protoplast technology  
somaclonal variation

**Dr. Nguyen Thanh—Tuyen**

Associate Professor  
Department of Horticulture  
Visayas State College of Agriculture  
Leyte 7127—A, Philippines

Research Material: rice maize coconut  
Research Focus: stress selection (AI drought) propagation  
*in vitro* culture  
Research Technology: meristem culture somaclonal variation

**Dr. Trevor A. Thorpe**

Professor

Plant Physiology Research Group

Department of Biology

University of Calgary

Calgary, Alberta T2N 1N4, Canada

Research Material: woody plants

Research Focus: stress selection (NaCl) propagation *in vitro* culture

Other: physiology of differentiation

**Dr. Larry L. Tieszen**

Professor

Department of Biology

Augustana College

Sioux Falls, SD 57197, USA

Research Material: wheat wheatgrass jerusalem artichokes

Research Focus: stress selection (drought temperature)

Research Technology: cell culture

Additional Information: selection based on stable isotope discrimination

**Dr. Claudia Marroquin Tomoe**

Researcher

Laboratorios Agrícolas

16 Calle 8-41, Zona 14, Apto. 8-A

Guatemala, Guatemala

Research Material: cardamom banana ornamental plants pine

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation

## U

**Dr. Mercedes Umali-Garcia**

Researcher/Associate Professor

Forest Biological Sciences

College of Forestry

University of the Philippines at Los Baños

College, Laguna 4031, Philippines

Research Material: rattan *Albizia falcataria* *Lygodium circinatum*

Research Focus: stress selection (disease resistance)

propagation *in vitro* culture

Research Technology: meristem culture

# V

## **Dr. Ahsan A. Vahidy**

Professor and Chairman  
Department of Genetics  
University of Karachi  
Karachi 32, Pakistan

Research Material: wheat barley onion faba bean  
Research Focus: stress selection (disease resistance) breeding  
*in vitro* culture  
Research Technology: cell culture transformation genotoxicity

## **Ms. Montakan Vajrabhaya**

Department of Botany  
Chulalongkorn University  
Bangkok 10500, Thailand

Research Material: sugarcane rice  
Research Focus: stress selection (disease resistance NaCl)  
*in vitro* culture

## **Dr. Thavorn Vajrabhaya**

Department of Botany  
Chulalongkorn University  
Bangkok 10500, Thailand

Research Material: rice  
Research Focus: *in vitro* culture  
Additional Information: effect of macroelements on plant regeneration

## **Ms. Lissette Valverde Cerdas**

Student  
250m este de la Clinica de Seguro  
Social de Tucurrique  
Jimenez, Cartago, Costa Rica

Research Material: cacao  
Research Focus: *in vitro* culture  
Research Technology: somatic embryogenesis  
Additional Information: attended CATIE/TCCP training course fall 1988

**Dr. Alvaro A. T. Vargas**

Researcher

Centro de Energia Nuclear na Agricultura

CENA-VSP, CP 96

Piracicaba, SP, CEP 13400 Brazil

Research Material: soybean bean

Research Focus: stress selection (water relationships temperature)

Research Technology: field evaluation

Other: microbiology interaction of plant microbes  
and nitrogen fixation

**Ms. Maria E. Aguilar Vega**

PROMECAFE, IICA

200 m. Sur Iglesia

Santa Rosa, Turrialba, Costa Rica

Research Material: orchids

Research Focus: *in vitro* culture

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. S. Venketeswaran**

Professor

Biology Department

University of Houston

Houston, TX 77006, USA

Research Material: winged bean *Vicia faba* chinese tallow *Leucaena*

Research Focus: stress selection (NaCl) propagation  
*in vitro* culture

Research Technology: meristem culture cell culture protoplast technology

Additional Information: participating in study on simulated lunar soil  
for NASA

**Ms. Maria S. Alvarenga Venutolo**

Student

Departamento de Quimica

Apartado 159

Technical Institute of Costa Rica

Cartago, Costa Rica

Research Material: *Pinus Alnus*

Research Focus: propagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. Marian Verzea**

Senior Research Officer

Research Institute for Cereal and Industrial Crops

Fundulea, Romania

Research Material: triticale wheat

Research Focus: propagation breeding

Research Technology: somaclonal variation cytogenetics  
anther culture and haploid production

**Dr. Ana Maria Viana**

Depto. de Fitotecnia

CCB Horto Botanico

Universid. Federal de Santa Catarina

88000 Florianopolis – SC Brazil

Research Material: *Croton catharinensis*

Research Focus: propagation *in vitro* culture

**Ms. Sheila Vijayakumar**

Senior Research Associate

Legumes Program

ICRISAT

Pathancheru

Andhra Pradesh 502 324, India

Research Material: chickpea pigeonpea

Research Focus: stress selection (NaCl temperature disease resistance)

Research Technology: cell culture somaclonal variation

**Dr. Victor M. Villalobos**

Director

Programa Mejoramiento Cultivos Tropicales

CATIE

Turrialba 7170, Costa Rica

Research Material: banana coffee cocoa

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture cell culture

Additional Information: Coordinator CATIE/TCCP training course

**Ms. Somkid Virigool**

Researcher

Prathumtani Rice Research Center

Tanyaburi

Prathumtani 12110, Thailand

Research Material: rice

Research Focus: stress selection (NaCl acid soil submergence)

Research Technology: anther culture

**Dr. Robert L. Voigt**

Professor

Department of Plant Sciences

University of Arizona

Tucson, AZ 85721, USA

Research Material: sorghum pearl millet

Research Focus: stress selection (water relationships temperature)  
breeding/field selection

Research Technology: somaclonal variation field evaluation

Additional Information: field evaluations for interplot and intraplot  
competition under heat and moisture stress

**Dr. Dirk R. Vuylsteke**

Scientist

IITA

PMB 5320

Ibadan, Nigeria

Research Material: banana plantain

Research Focus: propagation breeding (disease resistance)  
*in vitro* culture

Research Technology: meristem culture somaclonal variation  
field evaluation

Additional Information: embryo culture somatic embryogenesis

# W

## **Dr. Kimani Waithaka**

Professor

Department of Crop Science

College of Agriculture

P.O. Box 29053

Nairobi, Kenya

Research Material: citrus cassava strawberry

Research Focus: propagation *in vitro* culture

Research Technology: cell culture somaclonal variation

## **Mr. Surawit Wannakrairoj**

Research Assistant

Department of Horticulture

University of Hawaii

3190 Maile Way Rm 102

Honolulu, HI 96822, USA

Research Material: *Dendrobium Anthurium*

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation

## **Dr. Warid A. Warid**

Professor Emeritus

College of Agriculture

University of Cairo

Giza, Egypt

Research Material: onion sweet potato

Research Technology: molecular biology/transformation

## **Mr. Reagan M. Waskom, III**

Greenhouse Manager

Tissue Culture for Crops Project

Biology Department, Botany Division

Colorado State University

Fort Collins, CO 80523, USA

Research Material: sorghum wheat

Research Focus: breeding

Research Technology: somaclonal variation

Other: field and greenhouse selection for stress tolerant crops

**Dr. Gustaaf A. Wattimena**

Professor

Department of Agronomy

Faculty of Agriculture

Bogor Agricultural University (IPB)

Jl. Raya Pajajaran

Bogor, Indonesia

Research Material: yam taro potato citrus

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture

**Dr. Franz Weigand**

Researcher

ICARDA

P. O. Box 5466

Aleppo, Syria

Research Material: lentils chickpea

Research Focus: stress selection (drought disease resistance)  
breeding

Research Technology: cell culture somaclonal variation widecrossing

**Dr. Kent Welsh**

Principal Scientist, Biotechnology

Gilroy Foods, Inc.

P. O. Box 1088

1350 Pacheco Pass Highway

Gilroy, CA 95020, USA

Research Material: all herb and spice crops

Research Focus: stress selection (disease resistance flavor processing)  
propagation *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation  
molecular biology/transformation field evaluation  
Other: RFLP

**Dr. Li Wenxiong**

Professor

Agronomy Department

NE Agriculture College

Harbin Agricultural College

Harbin, Heilongjiang, PRC

Research Material: wheat *Aegilops*

Research Focus: stress selection (water relationships disease resistance)  
breeding

Research Technology: cell culture protoplast technology  
somaclonal variation

**Ms. Sri Nanan Widiyanto**

Graduate Student

Tissue Culture for Crops Project

Department of Biology/Botany Section

Colorado State University

Ft. Collins, CO 80523, USA

Telex: 3711418

Research Material: rice

Research Focus: stress selection (disease resistance)

Research Technology: somaclonal variation

Additional Information: selection of javanica rice resistant to blast disease

**Dr. Hartono Wirjodarmodjo**

Researcher

Perum Perhutani

Manggala Wana Bhakti Blokiv, Fl. IV

Gatot Subroto

Jakarta, Indonesia

Telex: 46283 PHTDIRJKT

Research Material: teak tropical rain forest

Research Focus: propagation

Additional Information: micropropagation of rain forest species for reforestation

**Dr. Lyndsey A. Withers**

*In vitro* Conservation Officer

IBPGR Headquarters

c/o FAO

Via delle Terme di Caracalla

00100 Rome, Italy

Research Material: root and tuber crops tropical and temperate fruit palm

Research Focus: *in vitro* culture

Research Technology: meristem culture

Other: *in vitro* conservation cryopreservation

Additional Information: Contact for IBPGR *in vitro* conservation databases (an information service to the scientific community)

**Dr. Dhirayos Wittitsuwannakul**

Department of Biochemistry

Faculty of Science

Mahidol University

Rama VI Road

Bangkok 10400, Thailand

Research Material: *Hevea*

Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

**Dr. Rapepun Wittitsuwannakul**

Department of Biochemistry

Faculty of Science

Prince of Songkla University

Hat-Yai 90112, Thailand

Research Material: *Hevea*

Research Focus: anther culture

**Dr. Dennis L. Wollard**

University of Southwestern Louisiana

P. O. Box 44433

Lafayette, LA 70504, USA

Research Material: fruit

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture somaclonal variation

**Ms. Ginnie Wong**

Researcher

Applied Agric. Research Sdn. Bhd.

Locked Bag #212

P.O. Sg. Buloh, 47000 Sg. Buloh

Selangor, Malaysia

Research Material: oil palm

Research Focus: propagation

**Dr. Joseph G. Wutoh**

Breeder

Institute of Agronomic Research (IRA)

P.M.B. 25

Buea, South West Province, Cameroon

Research Material: roots tubers legumes

Research Focus: stress selection (disease resistance)

breeding/field selection (adaptation)

*in vitro* culture

Research Technology: meristem culture protoplast technology

somaclonal variation field evaluation

cytogenetics

# Y

**Dr. Neelam R. Yadav**

Assistant Geneticist

Department of Genetics

Haryana Agricultural University

Hisar 125 004, India

Research Material: rice tobacco date palm mulberry bamboo

wheat *Brassica*

Research Focus: stress selection (NaCl disease resistance)

*in vitro* culture

Research Technology: cell culture somaclonal variation field evaluation

Other: anther culture immature embryo culture

**Dr. Ram C. Yadav**

Assistant Geneticist

Department of Genetics

Haryana Agricultural University

Hisar 125 004, India

Research Material: *Brassica* wheat

Research Focus: stress selection (disease resistance)

breeding (selection for dwarf mutants in wheat)

*in vitro* culture

Research Technology: cell culture anther culture

**Dr. Amor H. Yahyaoui**

Breeder and Professor

Ministry of Agriculture

ESAK 7119

U Kef, Tunisia

Research Material: barley wheat

Research Focus: stress selection (disease resistance)  
breeding/field selection

Research Technology: field evaluation

**Mr. Yapa M. H. B. Yapabandara**

Researcher

Tissue/Cell Culture Laboratory

M.E.C. Research Station

Matale, Sri Lanka

Research Material: cardamom clove nutmeg

Research Focus: propagation breeding/field selection (high quality)  
*in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation  
field evaluation

**Dr. Rao S. Yarlagadda**

Post Doctoral Fellow

Genetic Resources Unit

ICRISAT

Patancheru 502 324, India

Research Material: leek sorghum

Research Focus: breeding (disease resistance) *in vitro* culture

Research Technology: meristem culture protoplast technology  
somaclonal variation field evaluation

**Ms. Patricia G.A. Yarmas**

Researcher

INIPA

Estacion Experimental Agricola La Molina

Servicio Nacional de Recursos Geneticos

Apdo 2791

Lima, Peru

Research Material: roots tubers fruit

Research Focus: stress selection (disease resistance) propagation  
*in vitro* culture

Research Technology: meristem culture protoplast technology

**Dr. Sudhakar Yekula**

Researcher

Groundnut Cytogenetics

ICRISAT

Patancheru P. O.

A.P. 502 324, India

Research Material: groundnut pigeonpea

Research Focus: breeding (disease resistance) *in vitro* culture

Research Technology: cell culture field evaluation anther culture

**Dr. Nicholas P. Yensen**

Director

Saline Agricultural Technology (SALT)

727 N. 9th Avenue

Tucson, AZ 85705, USA

Research Material: *Distichlis*

Research Focus: stress selection (NaCl drought) propagation breeding  
*in vitro* culture

Research Technology: meristem culture cell culture

Additional Information: varieties with optimal growth at 15 g/l NaCl

**Dr. Dave Yoder**

Breeder

Gilroy Foods, Inc.

P. O. Box 1088

1350 Pacheco Pass Highway

Gilroy, CA 95020, USA

Research Material: garlic capsicum and other herb species

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation  
field evaluation

**Dr. Wu Yongxiang**

Professor

Department of Agronomy

Northeast Agricultural College

Harbin, Heilongjiang, PRC

Research Material: triticale wheat

Research Focus: stress selection (NaCl drought disease resistance)  
breeding

Research Technology: cell culture protoplast technology  
somaclonal variation anther culture

**Dr. Yongyuth Yuthavong**

National Center for Genetic Engineering and Biotechnology

Ministry of Science, Technology, and Energy

Rama IV Road

Bangkok 10400, Thailand

Research Material: potato rice oil palm rubber tree

Research Focus: propagation

## Z

**Dr. Yusuf Zafar**

Researcher

Soil Biology Division

Nuclear Institute for Agriculture & Biology

P.O. Box 128

Faisalabad, Pakistan

Research Material: rice kallar grass

Research Focus: stress selection (NaCl)

Research Technology: cell culture protoplast technology

**Dr. Nedyalka A. Zagorska**

Researcher

Institute of Genetics

Bulgarian Academy of Sciences

Sofia 1113, Bulgaria

Research Material: alfalfa tobacco tomato pepper maize

Research Focus: stress selection (Al NaCl temperature disease resistance) *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation anther culture

**Dr. Abdelouahhab Zaid**

Laboratoire de Physiologie Vegetale Station

Centrale d'Agronomie

Saharienne

B P 533

Marrakech, Morocco

Research Material: date palm

Research Focus: propagation breeding *in vitro* culture

Research Technology: meristem culture somaclonal variation

Additional Information: Instructor for IAV Hassan II/TCCP training course summer 1989

**Dr. Alfinetta B. Zamora**

Researcher

Institute of Plant breeding

College of Agriculture

University of the Philippines at Los Baños

College, Laguna, Philippines

Research Material: wheat white potato banana citrus

Research Focus: stress selection (heat disease resistance)  
propagation *in vitro* culture

Research Technology: meristem culture cell culture somaclonal variation

**Dr. Javier Zapata**

International Rice Research Institute

Tissue Culture Facility

P.O. Box 933

Manila, Philippines

Research Material: rice

Research Focus: *in vitro* culture

Research Technology: anther culture

**Dr. Robert Zeigler**

Program Head

Rice Program, CIAT

Apartado Aereo 6713

Cali, Colombia

Research Material: rice

Research Focus: stress selection (AI)

Research Technology: somaclonal variation

**Dr. Hanbin Zeng**

Associate Professor

Agronomy Department

NE Agriculture College

Harbin Agriculture College

Harbin, Heilongjiang, PRC

Research Material: wheat *Aegilops*

Research Focus: stress selection (drought disease resistance)  
breeding *in vitro* culture

Research Technology: cell culture protoplast technology  
somaclonal variation

**Dr. Maciej Zenkteler**

Professor

Faculty of Biology

A. Mickiewicz University

Poznan, Poland

Research Material: rye wheat *Brassica Pinus Larix*

Research Focus: propagation

**Mr. Raul F. Zepela**

Researcher

Tropical Orchids Inc.

San Miguel de Turrucares

Alajuela, Costa Rica

Research Material: orchids

Research Focus: propagation

Additional Information: attended CATIE/TCCP training course summer 1987

**Dr. Simon Zok**

Researcher

Institute of Agronomic Research (IRA)

PMB 25

Buea, Cameroon

Research Material: root and tuber crops banana plantain

Research Focus: propagation *in vitro* culture

Research Technology: meristem culture cell culture

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# **International Funding Resource List**

**Please contact funding agencies for applications  
and further information.**

# Funding Resource Questionnaire

Does your organization provide funding for plant biotechnology research and related activities? If so, we would like to include you in our funding list.

1. Your Name: Dr. \_\_\_\_\_  
Mr. \_\_\_\_\_  
Ms. \_\_\_\_\_  
Family First Middle

Name of your Organization: \_\_\_\_\_

Address of \_\_\_\_\_

Organization \_\_\_\_\_

2. Please give the full name of the contact person for funding inquiries, if other than yourself.

Dr. \_\_\_\_\_  
Mr. \_\_\_\_\_  
Ms. \_\_\_\_\_  
Family First Middle

3. Does your organization provide funding for: (circle all that apply)

Basic Research	Applied Research
Undergraduate Education	Graduate Education
Postdoctoral Research	Professional visits to other labs
Conference Attendance	Training: 1-3 months
Workshop Organization	4-6 months
	7-12 months

Travel related to any of the above

4. Of the categories listed in No. 3, which, if any, is your organization's priority? (please list)

*continued on next page*

5. For which of the following research categories does your organization provide funding? (circle all that apply)

Tissue Culture  
Molecular Biology  
Other (please list)

Germplasm Preservation  
Breeding

6. For which country(ies) does your organization provide funding?
7. Should interested individuals 1) apply to your organization directly, or 2) apply through their home institution or government? (please circle appropriate number)

Please return this questionnaire and any additional information (e.g. annual reports, award guides, applications) to:

Ms. Julie L. F. Ketchum  
Tissue Culture for Crops Project  
Colorado State University  
Fort Collins, CO 80523, USA

Information received before January 1, 1990 will be included in the next edition of the IPBNet Directory.

**African/American Institute**

African Development Education Program  
Education and Training Placement Center  
Yolande Zahler  
833 United Nations Plaza  
New York, NY 10017, USA  
Funding Type: education  
Funding Location: Africa  
How to Apply: above address

**American Council of Learned Societies**

Fellowships and Grants Office  
228 East 45th Street  
New York, NY 10017-3398, USA  
Funding Type: research, travel  
Funding Location: United States  
How to Apply: above address  
Restrictions: must be US citizen or permanent resident

**Canadian International Development Agency**

Hank B. J. Friso  
200 Promenade de Portage  
Hull Quebec  
Canada K1A 0G4  
Funding Type: education, training, conference  
Funding Location: Africa, Asia, Central and South America  
How to Apply: through home country or institution

**CONACYT**

Dra. Dorotea Barnes  
Dir Adjunta  
Cuidad Universitaria  
Mexico D.F., Mexico  
Funding Type: education, training  
Funding Location: Mexico  
How to Apply: above address

**Cornell University**

International Agriculture Program

James E. Haldeman

P.O. Box 16, Roberts Hall

Ithaca, NY 14853-5901, USA

Funding Type: project-related activities

Funding Location: Philippines, Bangladesh, Central America,  
South Pacific, Africa

How to Apply: above address

Restrictions: Only AID/FAO students part of Cornell/AID Project  
eligible

**Council for International Exchange of Scholars**

11 Dupont Circle

Washington, D.C. 20036, USA

Funding Type: lecture, research

Funding Location: all

How to Apply: above address

**Economic Development Administration**

G.P.O. Box 2350

San Juan, Puerto Rico 00936

Funding Type: graduate education

Funding Location: Puerto Rico

How to Apply: above address

Restrictions: only Puerto Ricans eligible

**Embassy of Malaysia**

Malaysian Students Department

2401 Massachusetts Avenue N.W.

Washington, D.C. 20008, USA

Funding Type: education, short-term training

Funding Location: Malaysia

How to Apply: directly to Malaysian Sponsors

Restrictions: only Malaysians eligible

**Ford Foundation**

320 East 43rd Street

New York, NY 10017, USA

Funding Type: graduate education, research, training, conference

Funding Location: Asia, Middle East, Africa, Latin America

How to Apply: NY headquarters or network field offices

**Foundation for Agronomic Research**

R.E. Wagner

2801 Buford Highway, N.E.

Suite 401

Atlanta, GA 30329, USA

Funding Type: research, conference, travel

Funding Location: US, Canada, Asia, Africa, Latin America

How to Apply: write the Regional Director of the Potash &  
Phosphate Institute in your area

**Government of India**

Department of Biotechnology

Secretary

Technology Bhawan

Dhawan 110 024, India

Funding Type: equipment, contingencies, salaries for technical staff

Funding Location: India

How to Apply: above address

**Inter-American Institute for Cooperation on Agriculture**

Pedro N. Acha

1889 F Street, N.W.

Suite 840

Washington, D.C. 20006, USA

Funding Type: education, short-term training

Funding Location: Central and South America, Mexico, Caribbean

How to Apply: through home government

**International Development Research Centre (IDRC)**

Agriculture Food and Nutrition Sciences Division

Hubert G. Zandstra, Director

P.O. Box 8500

Ottawa, Ontario

Canada K1G 3H9

Funding Type: education, short-term training, conference

Funding Location: all developing regions

How to Apply: above address

**International Foundation for Science**

Grev Turegatan 19

S-114 38 Stockholm

Sweden

Funding Type: research

Funding Location: all

How to Apply: above address

**International Labor Office**

Ms. Karen D. Wall

Washington Branch

1750 New York Avenue, N.W.

Washington, D.C. 20006, USA

Funding Type: study tours and short courses

Funding Location: developing countries

How to Apply: through ILO projects; nominated by their governments

**Jessie Smith Noyes Foundation**

Stephen Viederman

Executive Director

16 East 34th Street, 22nd Floor

New York, NY 10016, USA

Funding Type: promotion of sustainable agriculture through training, education, networking

Funding Location: United States, Canada, Developing Countries

How to Apply: above address

**W. K. Kellogg Foundation**

International Fellowships

Karen R. Hollenbeck

400 North Avenue

Battle Creek, MI 49017-3398, USA

Funding Type: pilot projects in agricultural development

Funding Location: US, Latin America, Caribbean, southern Africa

How to Apply: above address

**Mara Institute of Technology**

Shah Alam

Selangor

West Malaysia

Funding Type: education, training, conference

Funding Location: Southeast Asia, Malaysia

How to Apply: through the Malaysian Government

**Ministry of Foreign Affairs**

G. M. Lawson

Secretary of Foreign Affairs

Stafford House, 38.42 The Terrace

Private Bag, Wellington

New Zealand 3441

Funding Type: education, short-term training

Funding Location: South Pacific, Southeast Asia, India, Nepal,  
Bangladesh, Mexico, Zimbabwe

How to Apply: through home government

**National Geographic Society**

Edwin W. Snider

Committee for Research and Exploration

17th and M Streets, N.W.

Washington, D.C. 20036, USA

Funding Type: research in sciences pertinent to geography

Funding Location: educational institutions worldwide

How to Apply: write above address with brief statement of program

Restrictions: must be P.I. holding Ph.D.

**National Research Council of Canada (NRC)**

Plant Biotechnology Institute  
Warren F. Steck, Director  
Saskatoon, Saskatchewan S7N 0W9  
Canada

Funding Type: postdoctoral fellowships  
How to Apply: above address

**National Science Foundation**

Research Opportunities for Women  
Forms and Publications Unit  
Room 232

Washington, D.C. 20550, USA

Funding Type: research, visiting professorships,  
career advancement awards

How to Apply: above address

Restrictions: women only

**National Science Foundation**

Science in Developing Countries Program

Division of International Programs

Washington, D.C. 20550, USA

Funding Type: collaborative research, research seminars, planning,  
workshops, dissertation research

Funding Location: Africa, Asia, Latin America

How to Apply: write for guidelines

Restrictions: \$20,000 maximum, basic research only

**National Science Foundation**

US-Argentina Cooperative Science Program

Division of International Programs

Dimas M. Chavez

Directorate for Scientific Technological & International Affairs

Washington, D.C. 20550, USA

Funding Type: short-term research visits

Funding Location: US, Argentina

How to Apply: write for guidelines

Restrictions: basic research only

### **National Science Foundation**

US--East Asia Cooperative Science Program

Division of International Programs

Washington, D.C. 20550, USA

Funding Type: cooperative research, training, workshops

Funding Location: US, Philippines, Indonesia, Singapore,  
Malaysia, Thailand, Korea

How to Apply: write for guidelines

Restrictions: basic research only

### **National Science Foundation**

US--India Cooperative Science Program

Division of International Programs

Dr. Jean Johnson

Directorate for Scientific Technological & International Affairs

1800 G Street N.W., Room 1212

Washington, D.C. 20550, USA

Funding Type: seminars in US, collaborative research,  
short-term research visits

Funding Location: US, India

How to Apply: write for guidelines

Restrictions: basic research only

### **National Science Foundation**

US--Latin American Cooperative Science Program

Division of International Programs

Washington, D.C. 20550, USA

Funding Type: collaborative research, training, workshops

Funding Location: US, Latin America, Caribbean

How to Apply: write for guidelines

Restrictions: basic research only

### **National Science Foundation**

US--Pakistan Cooperative Science Program

Division of International Programs

1800 G Street N.W., Suite 1214

Washington, D.C. 20550, USA

Funding Type: cooperative research, training, workshops

Funding Location: US, Pakistan

How to Apply: write for guidelines

Restrictions: basic research only

**Natural Science and Engineering Research Council**  
NSERC Scholarships & Grants in Aid for Research Programs

R. Marsil

200 Kent Street

Ottawa, Ontario

Canada K1A 1H5

Funding Type: education, research, training

Funding Location: Canadian institutions

How to Apply: above address

**Organization of American States**

General Secretariat

Department of Fellowships and Training

Trainee Selection Division

Washington, D.C. 20006-4499, USA

Funding Type: graduate education, research

Funding Location: member state of OAS

How to Apply: through home government

**Pakistan Participant Training Program**

Ms. Julie Ann Iselin

1255 23rd Street N.W.

Washington, D.C. 20037, USA

Funding Type: graduate education, short-term training, conference

Funding Location: Pakistan

How to Apply: through home institution or USAID/Mission to  
Pakistan

**Pioneer Hi-Bred International, Inc.**

Chairman, Research Grants Committee

Plant Breeding Division

7301 NW 62nd Avenue

P.O. Box 85

Johnston, IA 50131-0085, USA

Funding Type: research pertinent to Pioneer's interests

How to Apply: above address

**Resources for the Future**

Fellowships in the Natural Sciences

1616 P Street N.W.

Washington, D.C. 20036, USA

Funding Type: research fellowships at RFF

Funding Location: scientists from US and abroad

How to Apply: above address

Restrictions: must have 5 years (min.) research experience

**Rockefeller Foundation**

Robert W. Herdt

Director

Agricultural Sciences

1133 Avenue of the Americas

New York, NY 10036, USA

Funding Type: research, advanced training

How to Apply: above address

**Sarah Bradley Tyson Memorial Fellowship**

Mrs Elmer Braun, Chair

Women's National Farm and Garden Association

13 Davis Drive

Saginaw, MI 48602, USA

Funding Type: graduate education

How to Apply: above address

Restrictions: women only

**University Genetics Company**

Thomas J. Monahan

1465 Post Road East

PO Box 5117

Westport, CT 06881, USA

Funding Type: discoveries at or near marketability

How to Apply: above address

**US Information Agency's International Visitors Program**

Washington, D.C. 20547, USA

Funding Type: International visitor program

How to Apply: through American Ag attache in each country

## **USAID**

Office of Agriculture Training

Tunis, Tunisia

Funding Type: graduate education

Funding Location: Tunisia

How to Apply: Ministry of Agriculture or USAID in Tunis

## **USAID**

Program in Science and Technology Cooperation

Office of the Science Advisor

Room 720, SA-18

Washington, D.C. 20523, USA

Funding Type: innovative research

Funding Location: AID countries

How to Apply: above address

## **USAID**

US-Israel Cooperative Development Research Programs

Room 720, SA-18

Washington, D.C. 20523, USA

Funding Type: collaborative research between Israel & LDC

Funding Location: Asia, Latin America, Africa

How to Apply: above address

## **USDA**

BARD (US-Israel Binational Agri-Res Development Fund)

Building 5, Room 107, BARC-West

Beltsville, MD 20705, USA

Funding Type: cooperative research in soils, crops or animal production, veterinary, medical, agricultural, economical, agricultural engineering, cell and molecular biology; post doctoral research

Funding Location: US, Israel

How to Apply: write for guidelines

Restrictions: must be joint research between US & Israeli scientists; must be American or Israeli citizen

## **USDA**

Cooperative State Research Service  
Competitive Research Grants Program  
Room 010, Justin Smith Morrill Building  
Washington, D.C. 20251, USA  
Funding Type: competitive research grants  
Funding Location: US  
How to Apply: above address

## **USDA**

Cooperative State Research Service  
Office of Grants & Program Systems  
Higher Education Program  
K. Jane Coulter, Director  
Administration Building, Room 350-A  
Washington, D.C. 20250, USA  
Funding Type: graduate education  
Funding Location: US  
How to Apply: above address  
Restrictions: must be citizen of US or one of its territories

## **USDA**

Office of International Cooperation and Development  
Cochran Middle Income Country Training Program  
Susan L. Erikson  
Washington, D.C. 20250, USA  
Funding Type: short-term training for middle income countries  
Funding Location: Algeria, Colombia, Iraq, Ivory Coast, Korea,  
Malaysia, Mexico, Turkey, Venezuela, Yugoslavia  
How to Apply: above address

## **USDA**

Office of International Cooperation and Development  
International Research Division  
Washington, D.C. 20250-4300, USA  
Funding Type: cooperative research  
Funding Location: all  
How to Apply: above address

## **USDA**

Office of International Cooperation and Development

Science and Technology Division

Mr. Richard J. Hughes

International Affairs Specialist

Washington, D.C. 20250-4300, USA

Funding Type: short-term training

Funding Location: all

How to Apply: above address

## **World Bank**

McNamara Fellowships Program

Jean C. Martin

Fellowships Assistant

1818 H Street, N.W.

Washington, D.C. 20433, USA

Funding Type: post graduate research

Funding Location: member country of World Bank

How to Apply: write above address for application

Restrictions: Min. M.S. degree; work must be performed in Bank  
member country other than applicants own

# Funding Subject Index

## Education

African/American Institute  
Canadian International Development Agency  
CONACYT  
Economic Development Administration  
Embassy of Malaysia  
Ford Foundation  
Inter-American Institute for Cooperation on Agriculture  
International Development Research Centre (IDRC)  
Jessie Smith Noyes Foundation  
Mara Institute of Technology  
Ministry of Foreign Affairs  
Natural Science and Engineering Research Council  
Organization of American States  
Pakistan Participant Training Program  
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USAID, Office of Agriculture Training  
USDA, Cooperative State Research Service,  
Office of Grants & Program Systems

## Research

American Council of Learned Societies  
Council for International Exchange of Scholars  
Ford Foundation  
Foundation for Agronomic Research  
International Foundation for Science  
National Geographic Society  
National Research Council of Canada (NRC)  
National Science Foundation,  
Research Opportunities for Women  
National Science Foundation,  
Science in Developing Countries Program  
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USDA, Cooperative State Research Service,  
Competitive Research Grants Program  
USDA, Office of International Cooperation and Development,  
International Research Division  
World Bank

## **Training**

Canadian International Development Agency  
CONACYT  
Embassy of Malaysia  
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Inter-American Institute for Cooperation on Agriculture  
International Development Research Centre (IDRC)  
Jessie Smith Noyes Foundation  
Mara Institute of Technology  
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US-East Asia Cooperative Science Program  
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Rockefeller Foundation  
USDA, Office of International Cooperation and Development,  
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