

Special Issue

Toward a "Green Revolution" for Crop Breeding

Message from the Guest Editors

The "green revolution" is generally referred to as a breakthrough in the international agricultural movement. Because of this movement, agriculture has met the food needs of most of the world's population even as the population increased dramatically during the past decades. But there has been a price to pay, and it includes among others, contamination of groundwaters, release of greenhouse gases, loss of crop genetic diversity and eutrophication of rivers and lakes. It is yet to be discovered whether high-intensity agriculture can be sustained, because of the loss of soil fertility, the erosion of soil, the increased incidence of crop diseases, and the high energy and chemical inputs associated with it (Tilman, 1998). Therefore, to develop new Green Revolution, sustainable crops with high yield and low nitrogen demands has become a new challenge for crop breeders. Possible topics include (but are not limited to): Breeding and sustainable agriculture Low-intensity agriculture Participatory breeding Organic breeding

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