

Proceedings of

Brain storming session on ‘Public Private Partnership in Maize Research and Development’

New Delhi, 21st September 2013

Directorate of Maize Research (DMR) and Maize Technologists Association of India (MTAI) jointly organized a brainstorming session on ‘Public Private Partnership in Maize Research and Development’ on 21st September 2013 at NRCPB auditorium, Pusa Campus, New Delhi. The session was chaired by Prof Swapan Kumar Datta, Deputy Director General (Crop Sciences), Indian Council of Agricultural Research (ICAR) and co-chaired by Dr B.S. Dhillon, Vice Chancellor, Punjab Agricultural University and President MTAI.

The panellists in the session were as follows:

- Dr J.S. Sandhu, Agriculture Commissioner, Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India
- Dr Shashank Mauria, Assistant Director General (Intellectual Property & Technology Management), ICAR
- Dr J.S. Chauhan, Assistant Director General (Seeds), ICAR
- Dr O.P. Yadav, Project Director, DMR
- Dr B.S. Dahiya, Kaveri Seeds Company Ltd
- Dr Sain Dass, National Seeds Corporation Ltd
- Dr Bajinder Pal, Shriram Bioseeds
- Dr Devraj Arya, Monsanto India Ltd
- Dr C. Ramakrishna, Nuziveedu Seeds Pvt Ltd
- Dr A.R. Sadananda, CIMMYT
- Dr J.C. Mehla, CCS Haryana Agricultural University
- Dr Rajbir Yadav, Indian Agricultural Research Institute

More than 90 delegates from ICAR, All India Coordinated Research Project on Maize (AICRPM) centres located in various state agricultural universities (SAUs), private companies, and state seeds corporations, *etc.* participated in the event. The list of participants is enclosed in Annexure 1. The experts deliberated on various issues of public-private partnerships in maize R&D and came up with the following recommendations:

1. Not only finished products, but intermediary resources (like breeding lines, segregating material, prototypes, *etc.*) should also be shared with the industry. Materials rejected by the public institutes at AVT1 stage may be made available for targeted testing by the private sector.
2. Public institutions (DMR, SAUs) should make an inventory of all licensable materials/ technologies and make provision of its easy accessibility.
3. There is a need to expand the testing locations of the coordinated programme for targeted evaluation in different ecologies. For this, the previous practice of involvement of private sector sites as voluntary centres can be used, as followed previously in the AICRP (Maize).

4. Since a lot of investment goes into brand development and stewardship, public institutions should consider giving 'exclusive' licenses for the finished products/ technologies. Non-exclusive licenses pose hindrance in brand development.
5. ICAR/DMR has provision for contract/ sponsored research and consultancy services for the industry (Johl committee guidelines, 1997). The industry should make full use of this.
6. In future National line demonstrations of maize, the inbred parents may also be included, so that interested organizations can assess their potential for seed production.
7. Public institutions should have modules for imparting training (HRD) on various aspects of maize research to the fresher's in the private institutions.
8. Possibility may be explored to provide screening facilities for various diseases and pests at hot-spot locations.
9. Development of heterotic group among the inbreds is necessary to utilise them effectively in the breeding programme and private sector can also be included as partner in this activity.
10. The needs of the different private companies are different and they should be prioritised before making partnerships. While some companies need only donors, others require inbreds, hybrids and other finished products.
11. A module needs to be developed to broaden the genetic base of breeding material taking every stakeholder on board. A model like GEM etc can be taken up as guiding module to involve both public (ICAR, CIMMYT, SAUs) and private sectors in order to ensure continuous availability and supply of diverse genetic material to sustain the long term genetic gains.
12. HRD component can be strengthened where public and private sector personnel can be trained by each other through short-term training of personnel.
13. Hybrids can be shared by different companies to use them in hybridization with inbred lines. Such crosses can then be shared by different partners.

The participants and experts deliberated various general issues and practical experiences in fostering PPPs. The general opinion was that PPPs can play a very positive role in maize R&D and should be strengthened further.

Annexure 1

List of participants in Brain storming session on
Public Private Partnership
21-22 September 2013

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