

Category	: International Rice Research Conference
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Title of Entry	: 'Jaya' in the Genealogy of High Yielding Rice Cultivars of India
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Select only one type of presentation	: 15 minute oral presentation
Abstract	<p>: India is the second largest producer of rice having an area of ~44 Mha in the world. From 34.5 MT in 1960s to 107.5 MT in 2017, there is a three-fold increase in production in India. In the late 1960s, IR8 was introduced in India at about the same time another variety, 'Jaya,' was released. Rapid promotion of the two varieties by the Indian government started the country's own Green Revolution in rice. 'Jaya', bred by crossing exotic cultivar 'Taichung Native 1' and a pure line 'T 141' selected from traditional Indian landrace-Soruchinamali was a product of intensive breeding under the All-India Coordinated Rice Improvement Project (AICRIP) in 1965. 'Jaya' released in the year 1968 for cultivation all over the country is well suited to high altitudes, wet and upland cultivation. It is medium duration semi-dwarf rice with resistance to blast that produces long, bold grains—preferred qualities of the Indian palate. The variety is known for its greater yield potential. Year 2018 marks fifty years of Jaya's cultivation in the country and it is still considered as the most popular mega rice variety based on breeder seed indent. Owing to its wide adaptability and desirable agronomic traits, 'Jaya' has been extensively used in the pedigree of many high yielding cultivars released in the country. Assessment of the genealogies of about 806 high yielding rice cultivars released in the country through AICRIP in the last fifty years revealed use of 'Jaya' as immediate parent in about 30 popular rice cultivars and also as an indirect parent appearing at second or third level in the pedigree tree in about nine cultivars. Such released HYVs with 'Jaya' in their genealogies are suitable for a myriad of ecosystems in India. It is interesting to observe the contribution of 'Jaya' in the varieties released for boro areas and in scented varieties suitable for Basmati growing areas. The wide spread</p>

cultivation of 'Jaya' is evident from its release in seven other countries (Cameroon, Ivory Coast, Mali, Mauritiana, Senegal, Sub-Saharan Africa and Vietnam) around the world.

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