CHAPTER - II

REVIEW

OF

LITERATURE
Earlier literature on variety identification in different crops, including cotton has been extensively reviewed by workers in our laboratory i.e. cereals (wheat, rice, barley, maize, oats, rye, fescue, meadow grass, rye grass, timothy); legumes (chick pea, black gram, pea, lupins, broad and field beans, soybean); spices (rape, turnip, rape and mustard, beet root); fibre crop (cotton); oil crops (castor), Halim,(1995); Murli Krishna,(1993); John,(1986); Nair,(1990). Hence literature on different aspects has been briefly listed under the following headings.

2.A : MORPHO – PHYSIOLOGICAL STUDIES


Flower, Fruit and seeds characters : Narayan,(1960); Bould and Crofton,(1987); Al-Zahim et al.(1996); Dayal and Ghosh,(1996).

Genetic divergence analysis : Sharma et al.,(1997); Sharma,(1997); Bonifacio et al.,(2001).

Grow out test (GOT) for genotypic identification : Arus,(1983).

Growth characteristics : Niles and Feaster,(1984).


Morphological and/or physiological characters: Dejoode and Wendel,(1992); Punit Mohan and Pandravada,(1996); Tatineni et al.,(1996); Misra and Saini,(1997); Velayudhan et al.,(1998); Murli Krishna,(1993); Prakash and Perumal,(2001); Patel et al.,(1991); Kalia and Padda,(1962); Stiller et al.,(1998)

Morphological or genetic markers : Jacobsen,(1993).


Seed as a catalyst: Randhawa,(1993).
Seed coat patterns and/or scanning electron microscope: Huckerby et al.,(1972); Heydecker and Gutterman,(1973); Kumar et al.,(1987); Kumar and Singh,(1989); Pereira and Andrews,(1985).

2.B: VIGOUR STUDIES

Accelerated ageing and seed vigour: Babu et al.,(1982); Baskin et al.,(1980); TeKrony,(1995); McDonald,(1995,b); Egli and TeKrony,(1996); Zang and McDonald,(1996).

Cultivar viability and storage conditions: Bewley and Black,(1982); James et al.,(1967); Bass,(1973); Harrison,(1966); Ellis and Roberts,(1980); Ellis et al.,(1982); Grabe,(1963); Ellis et al.,(1988).

Factors influencing the vigour and viability of seeds: Austin et al.,(2000); Hopper and McDaniel,(1999).

Growth analysis and seedling vigour: Ranjana and De La Cruz,(1975).

Leachate analysis and seed vigour: Abdul Baki and Anderson,(1973); Ghosh et al.,(1981); Parrish and Leopold,(1978); Pandey,(1988); Powell,(1986); Vertucci and Leopold,(1984).

Physiological aspects of seed germination: Saxena,(1990); Copeland and McDonald,(1995); Sharaan and Abdel-Gawad,(1986).


Physiological parameters: Yadav et al.,(1997); McConnell et al.,(1997); Naik and Satapathy,(2002); Kumar et al.,(2002); Kannababu and Karivaratharaju,(2000); Dixit et al.(2002); Cserenyesn and Rana,(1975). McDonald,(1980).

Physiology of flower initiation: Lang,(1965).


Seed quality assessment: McDonald,(1998); McCarty et al.,(2004).

Test for seed deterioration: Cobb and Jones, (1966).

Tetrazolium salt test for viability/quality of seeds: Lakon, (1942); Burries et al., (1969); Pasha and Das, (1982).


2.C: Plant growth regulators studies


PGRs, their right concentration and application: Murli Krishna, (1989).


2.D : BIOCHEMICAL AND METABOLIC CHANGES


Enzyme complementation in hybrid: Mitra et al., (1977); Kempton and McLane, (1942); Hageman et al., (1967).


Starch accumulation/metabolism and seed development : Norton and Harris, (1975); Da Silva et al., (1997); Singh, (1998); Archana et al., (1999); Yadav and Singh, (2002).

2.E: THIN LAYER CHROMATOGRAPHY AND TISSUE CULTURE STUDIES

**Ovule culture**: Joshi, (1960); Hsu and Steward, (1976); Rani and Bhojwani, (1976); Thengane et al., (1986).

**Embryo culture**: Mauney, (1961); Mauney et al., (1967); Mehetre et al., (2004).

**Protoplast culture**: Peeters et al., (1994).

**Mesocotyl explant culture**: Schenk and Hildebrandt, (1972).


**Genotypes response to PGRs in culture media**: Ameta and Ranwa, (2002); Ouma, (2004).

**PGRs influence on tissue culture**: Dure and Jenson, (1957); Dure, (1975).


**Flavonoids**: Parks et al., (1975).

**Polyphenols**: Shamuratov et al., (2003); Zaprometov and Karimdzhanov, (1964); Abdullaev, (1977); Karimdzhanov, (1976); Thengane et al., (1986); Peeters et al., (1994); Finer, (1988).
2.F : Molecular studies


PCR-mediated recombination: Cronn et al., (2002),