

# Plant Tissue Culture Glossary

- ❖ **Aseptic condition:** Preparation of materials free from microbes in in vitro cultures.
- ❖ **Cell Culture:** Growing of cells in vitro, including the culture of single cells or small aggregates of cells in a liquid medium.
- ❖ **Chemically defined medium:** A nutritive medium used for culturing cells or tissue; each chemical of this medium is known and defined;
- ❖ **Cybrid:** Cytoplasmic hybrid obtained by the fusion of cytoplasm of cells of different parental sources; a term applied to the fusion of cytoplasm of two different protoplasts;
- ❖ **Organogenesis:** The process of initiation and development of shoot or root through in vitro culture particularly from callus
- ❖ **Somaclonal variations:** Somatic variations found in plants regenerated in vitro (i.e. variations found in leaf, stem, root, tuber or propagule).

- ❖ **Gametoclonal variations:** Gametophytic variations found in plants regenerated in vitro gametic origin (i.e. variations found in gametes and gametophytes).
- ❖ **Agar:** A complex mucilaginous polysaccharide obtained from marine algae (sea weeds) used as solidifying agent in media preparation.