

Scientific Programme

As already mentioned in the First Circular, the scientific programme will cover the following aspects:

Session	Symposium title and main topics	Chairperson	Co-Chairperson	Chairperson of poster discussion
1	Plant biotechnology (e.g. genetic engineering, tissue culture, cell culture, in vitro organogenesis, protoplast fusion)	v. Wettstein Denmark	Hartmann FRG	Ballio Italy
2	Physiology of photosynthesis and chloroplasts (e.g. C3-C4 intermediate plants, photorespiration, photophosphorylation, photoinactivation, photoinhibition, photosynthetic electron transport, chlorophyll fluorescence)	Natr CSSR	Krause FRG	Faludi-Daniel Hungary
3	Herbicides and antidotes (e.g. antimetabolic herbicides, photosystem interfering herbicides, glyphosate action, glufosinate action, carotenogenic pathway, sethoxidim action)	Ebert Switzerland	Fedtke FRG	van Rensen Netherlands
4	Molecular plant genetics (e.g. gene transfer, monoclonal antibodies, Abutilon mosaic virus, gene expression, gene structure)	Schilperoort Netherlands	Herrmann FRG	Weil France
5	Membrane transport (e.g. membrane ATPase, fusicoccin binding sites, amino-acid proton co-transport, glyoxysomal membranes, proton pumps, Mitchell's scheme)	Bienfait Netherlands	Komor FRG	-
6	Functional plant lipids (polar lipids, isoprenoid lipids) (e.g. membrane lipids, lipid-protein interaction, lipid body proteins, metabolic function of mevalonic acid, wax esters, corticosteroids)	Mazliak France	Heinz FRG	Karunen Finland
7	Post-harvest physiology (e.g. climacteric fruits, role of hormones, ethylene synthesis and ACC content, lipolytic enzymes, senescence regulation)	Goren Israel	Bangerth FRG	Bruinsma Netherlands
8	Physiology of photomorphogenesis (e.g. blue light receptor, phytochrome action, light and hormone interaction, chloroplast movement)	De Greef Belgium	Haupt FRG	-
9	Nitrogen metabolism (e.g. nitrate reduction, inorganic N metabolism, nitrogen fixation, proline metabolism, role of betaines, protein turnover)	Aparicio Spain	Zumft FRG	Saric Yugoslavia
10	Stomatal physiology (e.g. water stress and stomatal physiology, effect of blue light, guard-cell protoplasts, ion flux, guard-cell metabolism)	Mansfield UK	Raschke FRG	Meidner UK
11	Stress physiology (e.g. water stress, heavy metals, chilling sensitivity, pathogen stress, mechanical stress, light stress, freezing injury, low-temperature stress, salinity tolerance, stress adaptation)	Kuiper Netherlands	Santarius FRG	Kinzel/Austria Kacperska-Lewak/Poland
12	Plant respiration (e.g. mitochondrial activity, peroxisomes, respiratory metabolism, blue-green algae respiration, submitochondrial particles)	Lance France	Hampp FRG	Møller Sweden
13	Tree physiology and pollution (e.g. role of wax layers, metal toxicity, permeability of cuticles, element content of polluted trees, ultrastructural changes)	Hällgren Sweden	Schulze FRG	Saxe Denmark
14	Symbiosis (mycorrhiza and other system) (e.g. ectomycorrhiza, role of lectins in lichen symbionts, nitrogen fixation, cell-cell recognition, Rhizobium-legume symbiosis)	Smith UK	Hock FRG	-
15	Assimilate partitioning (e.g. Invertase activity, sucrose transport, phloem unloading, nitrogen mobilization, graft interface, hormone-directed transport)	Dale UK	Eschrich FRG	Bonnemain France
16	New methods in plant physiology (e.g. immunoaffinity chromatography, monoclonal antibodies, Laser microprobe mass analyzer, NMR spectroscopy, photoacoustic measurement, pressure probe, gel electrophoresis, gene cloning)	Sala Italy	Zimmermann FRG	Loughman UK
17	Miscellaneous aspects of plant physiology (posters only)	-	-	-