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Determining radiation processes within the crop population; description of the regularities of the change of water potential; developing water-saving, effective irrigation technology. Evaluation of the joint effect of crop production factors (cultivation, irrigation, genotype, plant number and fertilisation) and quantification of the interactions with models and by the decomposition of variance components. Fostering the use of Hungarian genetic values, widening the production of Hungarian maize hybrids. Complex precision technology development of maize production. Research and development of the wide, novel and industrial use of maize for energetic purposes. Examination of the change in land management.