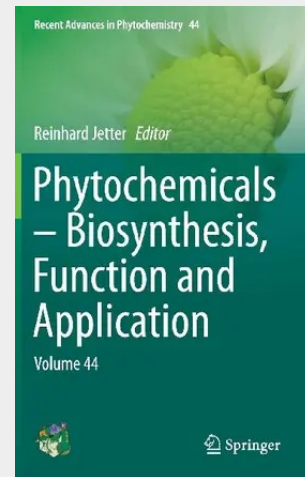


Phytochemicals - Biosynthesis, Function and Application

Volume 44

The 44th volume of RAP contains articles based on work presented at the 51st annual meeting of the Phytochemical Society of North America. They were selected to showcase exciting examples of current research in plant chemistry, to highlight the diversity in this field spanning analytical chemistry, ethnobotany, biosynthesis, bioactivity, chemical ecology and biotechnology. Specifically, the perspectives paper by Zerbe and Bohlmann summarizes recent findings on the genes and enzymes involved in conifer resin biosynthesis, while papers by Timoshenko et al. and Guerrero-Analco et al. highlight progress on toxic lectins and bioactive phytochemicals from Canadian forest plants used by Aborigines, respectively. Next the contribution by Glover and Murch compares methods used to analyze dementia agents in foodstuffs of Pacific Islands. Two papers by Lisko et al and Berhow et al. both summarize recent findings on the engineering of vitamin C contents of plants and of phytochemicals in the emerging oil crop Camelina. Finally, Cook et al discuss the biosynthesis in plant endophytes of alkaloids which have implications for cattle feeding. Overall, these seven Perspectives and Communications give a very good picture of the state of plant (bio) chemistry research in North America, which is also indicative of the state of the field worldwide.

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