

Nitrogen And Carbon Metabolism Proceedings Of A Symposium On The Physiology And Biochemistry Of Plant Productivity Held In Calgary Canada July In Plant And Soil Sciences Volume 3

Proceedings of the International Symposium on Soilless Culture and Hydroponics
Temperate Legumes
Proceedings of the International Symposium on Source-Sink Relationships in Plants
Proceedings of the Indian Academy of Sciences
Plant Nitrogen Metabolism
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Proceedings of the Steenbock-Kettering International Symposium on Nitrogen Fixation, June 12-16, 1978, College of Agricultural and Life Sciences, University of Wisconsin-Madison
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Alfalfa Nodule Enzymes Linking Carbon and Nitrogen Metabolism
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Proceedings of the Steenbock-Kettering International Symposium on Nitrogen Fixation, June 12-16, 1978, College of Agricultural and Life Sciences, University of Wisconsin-Madison

This volume is based on papers presented by invited speakers at a symposium entitled "Plant Nitrogen Metabolism" held in conjunction with the 28th Annual Meeting of the Phytochemical Society of North America. The meeting took place on the campus of the University of Iowa at Iowa City during June 26-30, 1988, and attracted 110 participants from 11 countries. The goal of the symposium was to trace the pathway by which nitrogen passes from soil and atmosphere into both primary and secondary nitrogenous metabolites, focusing upon areas which were felt to be most rapidly expanding. From nodulines (nodule specific proteins) and GS/GOGAT mutants to sugar mimics (polyhydroxyalkaloids) and herbicide inhibitors of amino acid metabolism, research in nitrogen metabolism has expanded into areas barely envisioned only a few years ago. Both the nitrogen specialist and the general plant biochemist will be pleased by the range of topics covered here. Following an overview in Chapter 1 of plant nitrogen metabolism, the remaining chapters are loosely organized into three groups. Chapters 2-6 deal primarily with the biochemistry and molecular biology of nitrogen assimilation and transport, Chapters 7-9 with amino acid metabolism, and Chapters 10-12 with secondary metabolites.

Proceedings

This book is a printed edition of the Special Issue "B-Vitamins and One-Carbon Metabolism" that was published in *Nutrients*

Nitrogen Fixation: Fundamentals and Applications

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Alfalfa Nodule Enzymes Linking Carbon and Nitrogen Metabolism

The Proceedings of the 14th Symposium on Energy Metabolism of Farm Animals, held in Northern Ireland in September 1997, comprises 85 original contributions by leading scientists from over 20 countries around the world. In keeping with previous Symposia in the series, held under the auspices of the European Association for Animal Production, this book contains papers which provide the latest research on the energy metabolism and other aspects of the physiology of a wide variety of farmed animals. Highlights include a comprehensive review of the current state of research on leptins and their potential applications in animal production, and a large section relating to organ and tissue metabolism, with major contributions from the USA, UK, France, Germany and Denmark. An important strength of the book is the diversity of species covered. For example, the sections on modelling and feed evaluation relate to pigs, sows, broiler chickens, laying hens, turkeys, lambs, beef and dairy cattle and fish. There are also substantial contributions on lactation and reproduction, growth, environmental aspects and maintenance. This book is essential reading for research workers in animal science, particularly those concerned with nutrition and feed evaluation.

Nitrogen and Carbon Metabolism

Energy Research Abstracts

Rhizobium species involved in root nodule formation on legume plants are one of the best known groups of micro organisms. The Rhizobium legume symbiosis continues to be of strategic importance particularly in the context of food production. As the world population grows, it is also necessary to have new developments taking place in crop improvement. The development and application of new technologies in biological sciences over the past number of years have made the entire area of plant-microbial interaction an exciting and challenging research area to be involved in. In view of the importance of symbiotic nitrogen fixation, it is not surprising that it still represents one of the priority areas for commercial development in agricultural biotechnology. Since this symbiosis involves an association between prokaryotic and eukaryotic partners, it requires of necessity a co-ordinated and interdisciplinary approach. It was in this spirit that this international conference was organised. The scientific programme was designed to focus on physiological limitations affecting symbiotic nitrogen fixation and the potential for overcoming such limitations using genetic technologies. Participants were drawn from contractants of the EEC DGVI "Energy in Agriculture"

nitrogen fixation programme. The scientific programme was also supplemented with invited scientists from Europe and North America to provide appropriate expertise on the various conference topics.

Proceedings

Nitrogen fixation research is presented as a rapidly developing, synergistic area of modern science, using the methods of, and accumulating data from, many fundamental branches of biology and chemistry. These include catalytic mechanisms, protein structure and function, molecular organization of genes and the regulation of their activities, biochemistry of plants and microorganisms, the signalling and surface interactions between organisms, microbial taxonomy and evolution, formal and population genetics, and ecology. The relationships between biological nitrogen fixation research and different branches of applied biology are addressed and analyzed, such as: the monitoring of genetically engineered microorganisms, selection of plant-associated microbes, plant breeding, increasing the protein content of crops, providing ecologically safe food production, and diminishing the chemical pollution of the environment. Immediate impacts and long-term prospects for nitrogen fixation research are presented: both fundamentals and applications.

Air Pollution and Plant Biotechnology

According to many textbooks, carbohydrates are the photosynthesis and mitochondrial respiration fluctuate in a circadian manner in almost every unique final products of plant photosynthesis. However, the photoautotrophic production of organic organism studied. In addition, external triggers and environmental influences necessitate precise and nitrogenous compounds may be just as old, in appropriate re-adjustment of relative flux rates, to evolutionary terms, as carbohydrate synthesis. In the algae and plants of today, the light-driven assimilation prevent excessive swings in energy/resource provision of nitrogen remains a key function, operating and use. This requires integrated control of the alongside and intermeshing with photosynthesis and expression and activity of numerous key enzymes in respiration. Photosynthetic production of reduced photosynthetic and respiratory pathways, in order to carbon and its reoxidation in respiration are necessary co-ordinate carbon partitioning and nitrogen assimilation. to produce both the energy and the carbon skeletons required for the incorporation of inorganic nitrogen This volume has two principal aims. The first is to into amino acids. Conversely, nitrogen assimilation provide a comprehensive account of the very latest developments in our understanding of how green is required to sustain the output of organic carbon cells reductively incorporate nitrate and ammonium and nitrogen. Together, the sugars and amino acids into the organic compounds required for growth.

Biological Nitrogen Fixation for the 21st Century

Subject Catalog

Proceedings of the VIIth International Workshop on Sap Flow

Air pollution is ubiquitous in industrialized societies, causing a host of environmental problems. It is thus essential to monitor and reduce pollution levels. A number of plant species already are being exploited as detectors (for phytomonitoring) and as scavengers (for phytoremediation) of air pollutants. With advances in biotechnology, it is now feasible to modify plants for a wider range of phytomonitoring and phytoremediation applications. Air Pollution and Plant Biotechnology presents recent results in this field, including plant responses during phytomonitoring, pollution-resistant plant species, imaging diagnosis of plant responses, and the use of novel transgenic plants, along with reviews of basic plant physiology and biochemistry where appropriate. Researchers and students working in plant biotechnology and the environmental sciences or considering new areas of investigation will find this volume a valuable reference.

Nitrogen Fixation and CO₂ Metabolism

This book results from a symposium on the theme of 'The Physiology and Biochemistry of Plant Productivity' which was held at the University of Calgary from July 14-18, 1980, and was jointly sponsored by the Canadian Society of Plant Physiologists and the International Association of Plant Physiologists. The subject matter of the book deals with various aspects of nitrogen and carbon metabolism, their interrelationships and interdependence. The topics covered in the chapters highlight various interesting and important lines of research that are in progress. There is no attempt to provide a comprehensive coverage of the basic physiological knowledge upon which this research depend- important references are to be found at the end of each chapter, however, and the reader will be able to pursue these as necessary. An introductory chapter by Dr. R.G.S. Bidwell (winner of the C.S.P.P. Gold Medal in 1979) considers some implications of plant physiological research and the aims and responsibilities of plant physiologists. In the next two chapters Drs. J. Rigaud and L.E. Schrader (with R.J. Thomas) elaborate on current research on nitrate metabolism and nitrogen fixation, and how an understanding of these phenomena might be usefully applied towards the manipulation of plants to improve productivity. Dr. J.S.

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Physiological Limitations and the Genetic Improvement of Symbiotic Nitrogen Fixation

Nitrogen availability is one of the most critical factors that limits plant productivity. The largest reservoir of nitrogen is the atmosphere, but this gaseous molecular nitrogen only becomes available to plants through the biological nitrogen fixation process, which only prokaryotic cells have developed. The discovery that microbes were providing fixed nitrogen to legumes and the isolation of the first nitrogen-fixing bacteria occurred at the end of the 19th Century, in Louis Pasteur's time. We are now building on more than 100 years of research in this field and looking towards the 21st Century. The International Nitrogen Fixation Congress series started more than 20 years ago. The format of this Congress is designed to gather scientists from very diverse origins, backgrounds, interests and scientific approaches and is a

forum where fundamental knowledge is discussed alongside applied research. This confluence of perspectives is, we believe, extremely beneficial in raising new ideas, questions and concepts.

Proceedings of the 1st World Congress on the Use of Biostimulants in Agriculture

B-Vitamins and One-Carbon Metabolism

Rinie Hofstra has been a member of the Department of Plant Physiology, University of Groningen, the Netherlands, for 24 years. The nearer we came to 31 March 1985, her 65th birthday, the more we all realized how we would miss her - not only scientifically, but also socially. She left her mark on both research and teaching, always with an open mind and willing to change. After her PhD Thesis on 'Nitrogen Metabolism in Tomato Plants' she first continued working in that field, but soon started a joint project with the Department of Plant Ecology on hemiparasites. She then became involved in carbon metabolism, which resulted in her giving a Biotrop Course on C /C metabolism in 3 4 Indonesia. Her own research group, originally working on 'Nitrogen Metabolism', soon embraced 'Energy and Nitrogen Metabolism', as the research on respiration became more and more important. In running her group she showed all sides of her person. She used to stimulate and encourage everyone around her and to integrate the various lines of research. At the same time she always had an open mind for the opinion of all members of her group. And together they regularly criticized and evaluated the various projects and decided how to continue.

Proceedings of the IIIrd International Symposium on Acclimatization and Establishment of Micropropagated Plants

Proceedings of the Seventh International Seaweed Symposium, Sapporo, Japan, August 8-12, 1971

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