

not well understood, some data indicate the involvement of proteinase inhibitors in the defense of plants against pathogens and insects. Since soybean trypsin inhibitors are antinutritional factors, new varieties lacking these inhibitors are being bred. The absence of proteinase inhibitors, however, may enhance the risk of fungal contamination of seeds.

In contrast to raw soybeans, autoclaved seeds are an excellent substrate for aflatoxinogenic strains of *Aspergillus flavus* and *A. pa-*

rasiticus, thus ruling out inhibition by heat stable trypsin inhibitor. Fungal growth and toxin accumulation were not repressed by heat labile trypsin inhibitor either. Furthermore, the availability of zinc, an essential mineral for aflatoxin synthesis by *Aspergillus*, apparently did not improve upon substrate autoclaving. It could be shown that growth of *A. flavus* on soybeans and subsequent aflatoxin accumulation are controlled by seed coat integrity and moisture content of seeds.

Announcements

Prizes

1986 Doerenkamp/Zbinden Scientific Award

Two prizes of 50,000 DM each will be awarded for outstanding scientific contributions leading to the replacement of whole animals in teaching and research. Specifically, areas of interest for 1986 include:

The replacement of dogs and cats in biomedical research.

Applications should be sent to: Prof. Dr. med. Diether Neubert, Institut für Toxologie und Embryopharmakologie, Freie Universität Berlin, Garystr. 5, D-1000 Berlin 33 (FRG).

The development of alternatives to whole animals in research on antitumor and anti-infective chemotherapy.

Applications should be sent to: Dr. Alan M. Goldberg, Associate Dean for Research, The Johns Hopkins University, School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, Maryland 21205 (USA).

Applications may consist of written description, illustrations, audiovisual presentations, etc. There are no formal application materials and more than one prize may be awarded in the same area. Deadline for submission: 31 December, 1986.

Honma Prize in Biological Rhythm Research

The first Honma Prize in Biological Rhythm Research has been awarded to Joseph S. Takahashi of Northwestern University (Evanston, USA). The prize of Y 1,000,000 was established in 1983 by the Honma Life Science Foundation for the purpose of promoting original research in the field of biological rhythms. On recommendation of the International Selection Committee, the prize is awarded every two years to a young scientist who has done particularly important work early in his or her career.

Members of the Selection Committee are Jürgen Aschoff, Brian K. Follett, Tsutomu Hiroshige, Michael Menaker and Colin S. Pittendrigh. In addition, the Foundation supports a Symposium on the general subject of Biological Clocks and Rhythms which is held in alternate years in Sapporo, Japan. The prize winner is invited to the Sapporo Symposium to give a lecture on his or her research. It is hoped that the prize will be understood to be symbolic of the rewards widely deserved by the many excellent young scientists entering this important and rapidly growing field.

Instructions to Authors

Experientia is a monthly journal for life sciences devoted to publishing articles which are interdisciplinary in character and which are of general scientific interest. Considered for publication will be hitherto unpublished papers that fall within one of three categories:

Reviews (one-man and multi-author reviews)

Mini-reviews (1–2 printed pages)

Short Communications (1–2 printed pages)

Papers reporting on work that is preliminary in nature, or wherein animal experiments have been conducted without the appropriate anesthesia, will not be accepted.

Manuscripts (including all tables and figures) must be submitted in triplicate and must be in English. Title pages should bear the author's name and address (placed directly below the title), a brief abstract (of approximately 50 words for short communications) mentioning new results only, and a listing of key words. Footnotes must be avoided. Tables, and then figures, are to follow the body of the text and should be marked with self-explanatory captions and be identified with the author's name. All data should be expressed in units conforming to the Système International (SI). Drawings are to be on heavy bond paper and marked clearly in black. Photographs should be supplied as glossy positive prints. Please note that we use two different systems for citing references. 1. For Review Articles, references should be arranged alphabetically and be numbered. Within the text, literature should be referred to by number and, where indicated, by author. The references should contain full journal article titles and the first as well as the last page of the article cited. 2. For Short Communications and Mini-reviews, an abbreviated bibliography is requested and references should be listed chronologically. Please consult a current issue of Experientia or inquire at the editorial office for details on form.

Authors are requested to specify into which discipline their papers fall:

1. Anatomy, Physiology
2. Biochemistry and Biophysics
 - Metabolism
 - Neurobiology
 - Pharmacology
3. Endocrinology
4. Cellular Biology
 - Molecular Biology
 - Immunology
5. Genetics, Developmental Biology
6. Ethology, Ecology
 - Natural Product Chemistry

All incoming manuscripts are acknowledged immediately. Authors will be notified of the editorial board's publishing decision once their manuscripts have been evaluated by a minimum of two field experts. Fifty reprints of papers accepted for publication will be sent to authors free of charge; additional reprints may be ordered.

Manuscripts and all communications to the editors should be addressed to:

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