



Peter Dunn

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Education

BS Chemistry 1968 Fordham University

PhD Biochemistry 1973 Purdue University

Research Interests

Manduca Sexta Prior to assuming full time administrative responsibilities in 1995, my research program focused on characterizing the biochemistry and molecular biology of insect immune responses to bacterial infection in healthy and parasitized host larvae and pupae. Our research utilized larvae and pupae of the tobacco hornworm, *Manduca sexta*, as host; various bacterial pathogens and the parasitoid, *Cotesia congregata*. It is my hope that I will be able to rebuild a research program focused more narrowly on defensive responses of the insect gut to microbes during larval growth and larval-pupal metamorphosis, and on hemolymph and gut peptides induced in response to fungal infection.

Professional Activities

2000-present Member, Board of Directors, Council on Governmental Relations.

2001-present Chairperson, Council on Governmental Relations Conflict of Interest Working Group

2001-present Member, Council on Governmental Relations Research Compliance and Administration Committee

1991-2001 Member, Council on Governmental Relations Technology Transfer and Research Ethics Committee

1995 Chairperson, Special review team, University Biotechnology Programs, Kansas State University.

1995 Member, Ad Hoc Review Committee ZRG5 BM-1 for the Bacteriology and Mycology 1 Study Section, National Institutes of Health.

1994-1995 Purdue Faculty Representative, University and Industry Consortium.

1994 Member, Special review panel for Tropical Disease Research Unit Program Project Applications, National Institutes of Health.

1994 Organizer and convener, Midwest Regional Grants Workshop, USDA National Research Initiative Competitive Grants Program, Indianapolis, IN, December 6, 1994.

1985-1995 Experiment Station Committee on Operation and Policy, Subcommittee on Biological Control of Pests and Diseases, 1985-present. Chairperson, 1994-95.

1986-present Member, Ad Hoc Review Committee for the Tropical Medicine and Parasitology Study Section, National Institutes of Health. Bethesda, MD. Chairperson, 1995-present.

Courses Taught

ENTM 551 Insect Physiology and Biochemistry

Selected Publications

Mulnix, A.B., and Dunn, P.E. 1994. Structure and induction of a lysozyme gene from the tobacco hornworm, *Manduca sexta*. *Insect Biochem. Molec. Biol.*, 24:271-281.

Russell, V., and Dunn, P.E. 1996. Antibacterial proteins in the midgut of *Manduca sexta* during metamorphosis. *J. Insect Physiol.*, 42:65-71.

Book chapters/Proceedings:

Dunn, P.E., Bohnert, T.J., and Russell, V. 1994. Regulation of antibacterial protein synthesis following infection and during metamorphosis of *Manduca sexta*. In *Primordial Immunity: Foundation for the Vertebrate Immune Response*, Beck, G., Cooper, E.L., Habicht, G.S., and Marchalonis, J.J., eds. *Ann. N.Y. Acad. Sci.*, 712:117-130.

Dunn, P.E., Bohnert, T.J., and Russell, V. 1994. Midgut antibacterial defenses of *Manduca sexta* following infection and during metamorphosis. In: *Phylogenetic Perspectives In Immunity: The Insect Host Defense*, Hoffmann, J., Janeway, C.A., and Natori, S., Eds, pp. 105-111. R.G. Landes Co. Pub., Austin, TX.

Mulnix, A.B., and Dunn, P.E. 1995. Molecular Biology of the Immune Response. In *Molecular Model Systems in the Lepidoptera*, Goldsmith, M.R., and Wilkins, A.S., editors, pp. 369-395. Cambridge University Press, New York.