

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT INITIATION

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Date: 6/23/76

Project Title: Genetic Control of Chemotaxis in a Nematode

Project No: G-32-632

Project Director: Dr. D. B. Dusenbery

Sponsor: National Science Foundation

Agreement Period: From 6/1/76 Until 11/30/78

Type Agreement: Grant No. PCM76-10252

Amount: \$56,000 NSF
17,617 GIT (G-32-316)

Reports Required: \$73,617 Total

Annual Letter Technical, Final Report

Sponsor Contact Person (s):

Technical Matters

Contractual Matters
(thru OCA)

Mr. James L. Bostick
Grants Officer
National Science Foundation
Washington, D. C. 20550
(202) 632-5965

Defense Priority Rating:

Assigned to: Biology (School/Laboratory)

COPIES TO:

Project Director
Division Chief (EES)
School/Laboratory Director
Dean/Director-EES
Accounting Office
Procurement Office
Security Coordinator (OCA)
Reports Coordinator (OCA) ✓

Library, Technical Reports Section
Office of Computing Services
Director, Physical Plant
EES Information Office
Project File (OCA)
Project Code (GTRI)
Other _____

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT TERMINATION

Date: 7/9/79

Project Title: Genetic Control of Chemotaxis in a Nematode

Project No: G-32-632

Project Director: Dr. D. B. Dusenbery

Sponsor: National Science Foundation

Effective Termination Date: 11/30/78

Clearance of Accounting Charges: 11/30/78

Grant/Contract Closeout Actions Remaining: N/A

TERMINATED

- Final Invoice and Closing Documents
- Final Fiscal Report
- Final Report of Inventions
- Govt. Property Inventory & Related Certificate
- Classified Material Certificate
- Other _____

Continuation of G-32-611

Assigned to: Biology (School/Laboratory)

COPIES TO:

Project Director
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Library, Technical Reports Section
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~~_____~~
EES Information Office
Project File (OCA)
~~_____~~
Other _____

PLEASE READ INSTRUCTIONS ON REVERSE BEFORE COMPLETING

PART I-PROJECT IDENTIFICATION INFORMATION

1. Institution and Address Georgia Institute of Technology Atlanta, Georgia 30332	2. NSF Program PCM	3. NSF Award Number 76-10252
	4. Award Period From 6-1-76 To 11-30-78	5. Cumulative Award Amount \$56,000

6. Project Title

Genetic Control of Chemotaxis in a Nematode

PART II-SUMMARY OF COMPLETED PROJECT (FOR PUBLIC USE)

This project aimed at exploring the relationship by which genes control the structure and function of the nervous system. Strains of the nematode Caenorhabditis elegans which carried single-gene mutations that altered their response to certain stimuli, such as temperature and osmotic pressure, were tested for their responses to a variety of chemical stimuli using the method of countercurrent separation. It was found that these mutations cause a fairly broad spectrum of defects such that most strains were defective in response to most chemicals. Thus it is suggested that genes with specific effects on the nervous system are only moderately specific within the nervous system. A start was made on the problem of locating on the genetic map some of the genes mutated in these strains.

PART III-TECHNICAL INFORMATION (FOR PROGRAM MANAGEMENT USES)

1. ITEM (Check appropriate blocks)	NONE	ATTACHED	PREVIOUSLY FURNISHED	TO BE FURNISHED SEPARATELY TO PROGRAM	
				Check (✓)	Approx. Date
a. Abstracts of Theses	✓				
b. Publication Citations				✓	1980
c. Data on Scientific Collaborators	✓				
d. Information on Inventions	✓				
e. Technical Description of Project and Results					
f. Other (specify)					
2. Principal Investigator/Project Director Name (Typed) David B. Dusenbery	3. Principal Investigator/Project Director Signature			4. Date 5-28-79	