

AMCOP

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CONTENTS

Front Cover	1
Inside Front Cover	2
1989 Herrick Award	3
Meeting Summary AMCOP-41	4
Historical Perspectives	6
1989 Addition to Bylaws	7
Membership Information	9

OFFICERS FOR 1989-90

Presiding Officer	Dr. Jerry H. Hubschman Dept. Biological Sciences Wright State University Dayton, Ohio 45435
Program Officer	Dr. Gerald McLaughlin Dept. Veterinary Pathobiology 2001 S. Lincoln Ave University of Illinois Urbana, Illinois 61801
Secretary Treasurer	Dr. Donald M. Miller Department of Physiology Southern Illinois University Carbondale, Illinois 62901

ACKNOWLEDGEMENTS

AMCOP expresses its gratitude to the following contributors:

ELI LILLY COMPANY
SOUTHERN ILLINOIS UNIVERSITY

Cover: Computer traced image of acanthocephalan proboscis.

This newsletter was generated by the Secretary/Treasurer at no cost to AMCOP.

The 1989 C. A. HERRICK AWARD
(Sponsored by the Eli Lilly Company)

Was Awarded To:

STEPHEN R. MORRIS
Department of Veterinary Pathobiology,
Purdue University, West Lafayette, IN 47907

For A Demonstration Entitled:

Characterization and Partial Purification of a Proteinase Secreted by
Ascaris suum Larvae.

Research was undertaken to investigate the secreted proteinases of *Ascaris suum* larvae. ES proteins were isolated from *in vitro* cultures of L2-3 larvae, and assayed for proteinase activity using 1) gelatin-PAGE, 2) collagen, azocol, and azocasein, and 3) synthetic substrates. Proteinase activity was assayed at pH 3.0, and the effects of several inhibitors were determined. Western blots of ES proteins were probed with biotinylated lectins to characterize glycosylation. A single major proteinase activity of $M_r = 180-200$ kDa with optimal activity at pH 4.5 was detected using gelatin gels and azocol. This proteinase degraded native collagen and was most active with proline substrates. It was most inhibited by thiol specific reagents, while EDTA increased its activity. Proteins from 30 to 200 kDa with N- and/or O-linked carbohydrates were detected on Western blots. Two lectins, PNA and SBA, reacted with proteins over 100 kDa. The proteinase activity was partially purified using S-200, DEAE, and SBA columns. This research indicates that a glycosylated cysteine proteinase is the major secreted protease of *Ascaris suum* larvae. (Supported by USDA grant 88-34116-3783).

Major Advisor: Dr. Kevin R. Kazacos

SUMMARY OF AMCOP-41 MEETING

The 41st AMCOP conference was held on the campus of Miami University in Oxford, Ohio on 1-3 June 1989 with 85 persons registered for the conference and an organizational membership of 130. Dr. Arthur Duwe of Department of Biology and Chemistry, Sault Ste Marie College, Sault Ste. Marie, Michigan was Presiding Officer of the meeting and Dr. Robert A. Grassmick made local arrangements. Four demonstration and nine papers were presented by members. The C. A. Herrick Award (and \$200.00) for a demonstration entitled "Characterization and Partial Purification of a Proteinase Secreted by *Ascaris suum* Larvae." were presented to Stephen R. Morris (Department of Veterinary Pathobiology, Purdue University) by Dr. Rudy Boisvenue.

A symposium entitled "Parasites in Individuals With A Compromised Immune System" was presented by two speakers. Dr. Elizabeth Funk and Dr. Douglas B. Woodmansee. Once again Dr. William H. Coil conducted a silent book auction for the benefit of AMCOP and a total of \$42.00 dollars was collected.

During the meeting we noted the death of two long standing members of AMCOP, Drs F. J. Kruidenier and W. D. Lindquist, both charter members of AMCOP.

Officers elected for 1989-90 were as follows: Presiding Officer: Dr. Jerry H. Hubschman, Department of Biological Science, Wright State University, Dayton, Ohio; Program Officer: Dr. Gerald McLaughlin, Department of Veterinary Pathobiology, University of Illinois, Urbana, Illinois. Secretary/Treasurer: Dr. Donald M. Miller, Department of Physiology, Southern Illinois University, Carbondale, Illinois (618) 453-1518.

The meeting of AMCOP-42 was a topic of some discussion because of the change in meeting time of the American Society of Parasitologists and the closeness of ASP to the meeting time of AMCOP-42. In addition, Dr. Gerald McLaughlin requested the membership to consider a joint meeting with the Midwest Tropical Disease Group. Dr. T. T. Dungan moved, Dr. Linda Twining seconded and the membership approved that AMCOP-42 be held in 1990 at the University of Illinois, Urbana, Illinois. Future meeting sites were

rescheduled as follows: AMCOP-43 in 1991 at Vermillion, South Dakota, AMCOP-44 in 1992 at University of Wisconsin, Parkside, and AMCOP-45 in 1992 at St. Marys, Notre Dame, Indiana. Suggested symposia themes for ensuing meetings were: (1) Biological control of parasitic diseases, (2) Mechanisms of host specificity, (3) Zoonoses, (4) Importance of certain ectoparasites such as *Ixodes dammini* and *Aedes albopictus*.

Dr. Mike Kemp, President of The American Society of Parasitologists visited AMCOP-41. He spoke to the membership in order to: (1) make a clear statement that ASP cares and is intensely interested in AMCOP's welfare, (2) encourage attendance at the ASP annual meeting, (3) express ASP's interest in recruiting new members, especially graduate students, and (4) emphasize that ASP wants members to become more actively involved in society affairs. In addition, the next annual meeting is dedicated to Dr. Horace Stunkard on the event of his 100th birthday. Several special programs on phylogenetics and systematics are planned. The ASP is currently active in (1) Increasing graduate student participation in the annual meeting by giving travel grants to students who give papers and giving awards for the best student paper, (2) involvement in the creation/evolution textbook controversy, (3) animal welfare concerns, (4) lobbying for more funding for tropical medicine/parasitology, (5) forming a federation of parasitological societies and, (6) formulating computer based teaching programs in parasitology.

Finally, the membership considered and voted on changes to the by-laws which would incorporate procedures governing future awards. These changes are added to the bylaws as outlined on the next page. After considerable confusion dealing with protocol, a reasonable substitute moved to close the meeting.

Additions to AMCOP by-laws approved in 1989, Miami, University

8. The conference confers two awards during the annual meeting to student participants. These are the Chester A. Herrick Award, sponsored by the Eli Lilly Co., for the best demonstration of parasitological research; and the George R. LaRue Award, sponsored by donations from the AMCOP membership, for the best oral presentation of parasitological research.

a) The winner of each award will be selected by a 3-person committee appointed at each annual meeting by the Presiding Officer. The criteria for judgement will be established each year by these committees. If separate committees are appointed, they shall consult before making their awards to ensure that the same person does not win both awards in the same year (see section c). If the committee decides the calibre of the presentations does not meet the standards of AMCOP, the award may not be presented in any given year.

b) The size of each award shall traditionally be \$200.00, but may vary according to the funds available from contributors.

c) No person may win the same award more than one time while in student status. Likewise, no student may win both awards at the same meeting. However, one person may win both awards while a student in different years.

d) In order to be eligible for the awards only the students' name can appear in the program as author or authors of the demonstration or oral presentation.

e) The student author or authors must be in attendance for the presentation of the paper or demonstration to be considered for competition for either award.

Historical Perspectives

As the secretary-treasurer I have been sometimes embarrassed by what little I knew about the history of the American Midwest Conference of Parasitologists. But no more - I decided sometime ago to rectify that situation. I have been accumulating all sorts of information about our particular organization and will be communicating it to you a little at a time.

The instigation for the formation of AMCOP came about when 22 midwestern parasitologists gathered on 7 December 1948. They were all attending the Meeting of the American Society of Parasitologists. The parasitologists attending this gathering, their laboratories and location are listed below:

Table 1.
Parasitologists at Preliminary AMCOP Meeting
(taken from a sheet they signed)

Name	Laboratory	City
R. V. Bangham	Wooster	Wooster, Ohio
K. B. Kerr	Dr. Salisbury's Lab	Charles City, Iowa
Banner Bill Morgan	Univ. Wisc	Madison, Wis.
Charles M. Vaughn	Miami University	Oxford, Ohio
Robert T. Stoi????	S. W. Mo. State	Springfield, Mo.
John D. Goodman	Mercer Univ.(UofM)	Macou, Ga
Francis J. Kruidenier	Univ. of Illinois	Champaign, Ill
Arthur E. Woodhead	Univ. of Mich.	Ann Arbor, Mich.
William R. Summers	Indiana Univ.	Indianapolis, Ind.
A. C. Walton	Knox College	Galesburg, Ill
Richard J. Porter	University of Michigan	Ann Arbor, Mich.
Max McCowen	Lilly Research Labs	Indianapolis 6, Indiana
Philip A. Hawkins	Michigan State College	E. Lansing, Mich.
Irving P. Delappe	Michigan State College	E. Lansing, Mich.
Neal F. Morehouse	Dr. Salisbury's Lab	Charles City, Iowa
Ernest Hartman	Chicago Medical School	710 S. Wolcott Ave, Chgo 12
Carlton M. Herman(visitor)	Berkeley, Calif.	
Harley J. VanCleave	U. of Ill.	318 Nat. Hist, Urbana
Norman D. Levine	Univ. of Illinois	College of Vet. Med- Urbana
F. O. Odlaug	Univ. of Minn.-Duluth	Duluth, Minn.
C. G. Goodchild	S. W. Mo. State	Springfield, Mo.
D. R. Lincome	Univ. of Wisc.	Madison, Wisc.

At this meeting, there was an agreement to start a regional meeting of parasitologists from the midwestern area of the United States. From the very beginning of the organization, the emphasis at our meetings was on demonstrations and non-formal presentation of materials.

The first Secretary and Program Officer for the Society was David Lincicome. The first program which he produced was typewritten and carbon copies were distributed. It listed a total of 17 demonstrations. Of those seventeen, 6 had multiple authors. The authors at that first meeting (listed alphabetically) were:

Table 2.
DEMONSTRATION AUTHORS FOR AMCOP #1
(Taken from the First Program Listing)

Becker, E. R.	Iowa State	Ames
Brodine, C.	Iowa State	Ames
Callender, M. E.	Lilly Co	Ind
Carpenter, N.	Med-Univ. Wis.	Madison
Case, A. A.	Vet. Hosp-U of Mo.	Columbia, Mo.
Dalton, R. R.	Med-Univ. Wis.	Madison
Daugherty, J. W.	Zoo-Univ. Wis	Madison
Davis, I.	Med-Univ. Wis.	Madison
Haberman, W. O.	Vet. Sci.-Univ. Wis	Madison
Herrick, C. A.	Zoo-Univ. Wis	Madison
Junkin, H.	Med-Univ. Wis.	Madison
Knipping, P. A.	Vet. Sci.-Univ. Wis	Madison
Levine, N. D.	Vet. Sci.-Univ. Ill	Urbana
Lincicome, D. R.	Med. Sci.-Univ. Wis	Madison
Lindquist, W. D.	Bact.-Mich. State	East Lansing
Marousek, A.	Iowa State	Ames
McCowen, M. C.	Lilly Co.	Ind
Morgan, B. B.	Vet. Sci.-Univ. Wis	Madison
Schiller, E. L.	Vet. Sci.-Univ. Wis	Madison
Theide, W. H.	Med. Sci.-Univ. Wis	Madison
Van Cleave, H. J.	Zoo-Univ. Ill.	Urbana

While there were 17 demonstrations at that first meeting, 58 people attended the meeting. The list of attendees included scientists from 18 different laboratories and one visitor from New Zealand. The greatest number of charter members was from Madison, Wisconsin. Purdue, University of Illinois, Iowa City and Ann Arbor, Michigan were next with equal numbers of attendees.

It is also apparent that parasitologists associated with the Eli Lilly Company members have been involved with AMCOP from its inception.

Table 3.
CHARTER MEMBERS OF AMCOP
(As the Secretary indicated on the first sign-in sheet)

1. Auerbach, E	Evanston, Ill	30. Levinson, M L	Evanston, Ill
2. Baer, Jean	Urbana, Ill	31. Lincicome, D R	Med Sci-U Wis Mad
3. Bahler, T	Madison, Wis	32. Lindquist, W D	Bact-Mich St E Lans
4. Bair, T D	Urbana, Ill	33. Lorenz, E A	Chicago, Ill
5. Balamuth, Wm	Evanston	34. Malecki, H R	Purdue
6. Bangham, R V	Wooster, Ohio	35. McCowen, M C	Lilly Co, Ind
7. Becker, E R	Iowa State, Ames	36. Morehouse, N F	Charles City, Ia
8. Byrne, T	Oxford, Ohio	37. Morgan, B B	Vet Sci-U Wis Mad
9. Cable, R M	Purdue	38. Mossman, A. S.	Madison
10. Case, A A	Vet Hos-U Mo, Colum.	39. Natt, M P	Madison, Wisc
11. Crawford, W W	Evansville	40. Noland,	Madison, Wisc
12. Dalton, R R	Med-U Wis Mad.	41. Nolf, L O	Iowa City
13. Daugherty, J W	Zoo-U Wis Mad	42. Ohlsen, J E	Iowa City
14. DuSean, E	U of Mich	43. Parsons, T M	Grinnel, Iowa
15. Ferris, D	Graceland Coll, In	44. Perkins, K W	Purdue
16. Haberman, W O	Vet Sci-U WisMad	45. Peterjohn, G	Madison, Wisc
17. Harriss, T	Madison, Wis	46. Porter, R J	Ann Arbor, Mich
18. Hawkins, P A	Michigan State	47. Reid, M	Monmouth Coll.
19. Herrick, C A	Zoo-U Wis Mad	48. Schildt, Carl	Madison
20. Hoffman, G L	Iowa City	49. Schiller, E L	Vet Sci-U Wis Mad.
21. Jenkins, H	Madison, Wisc	50. Schlueter, E	Madison, Wis
22. Jeter, W	Madison, Wisc	51. Semrad, J E	Chicago, Ill
23. Kerr, K B	Charles City, Ia	52. Shumard, R	Oxford, Ohio
24. Kimpel, H G	Madison, Wisc	53. Tashian, R E	Purdue
25. Knipping, P A	Vet Sci-U Wis Mad	54. Theide, W H	Med S.-U Wis Mad
26. Kruidenier, F	U of Illinois	55. Van Cleave, H J	Zoo-U Ill Urbana
27. Kuns, M L	?	56. Walton, A. C.	Galesburg, Il.
28. LaRue, G R	U M Ann Arbor	57. Whitten, L	New Zealand
29. Levine, N D	Vet Sci-Urbana	58. Wicks, A E	Iowa City

AMCOP-42 MEETING

The 42st AMCOP meeting is scheduled to be held on the Champaign-Urbana campus of the University of Illinois in early June of 1990. Please ✓ your calendars. The time to begin planning is now. Motivation of graduate students sometime takes more than a couple of months.

If you are moving in the near future, please remember to send a ✉ to me here at ● with your change of address.

