

AD-A184 192

RESEARCH AND DIAGNOSTIC APPLICATIONS OF MONOCLONAL
ANTIBODIES TO COCCIDIOIDES IMMITIS (U) CALIFORNIA UNIV
OAKLAND NAVAL BIOSCIENCES LAB A E KARU ET AL 1985
UC-NBL-357 N00014-81-C-0570

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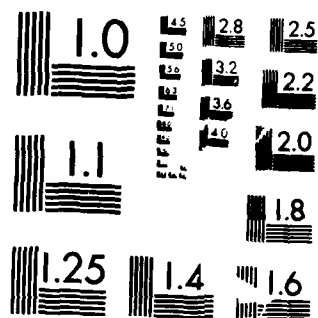
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REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED			1b. RESTRICTIVE MARKINGS NONE	
2a. SECURITY CLASSIFICATION AUTHORITY N/A			3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited	
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A			5. MONITORING ORGANIZATION REPORT NUMBER(S)	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) NBL No. 957				
6a. NAME OF PERFORMING ORGANIZATION University of California		6b. OFFICE SYMBOL (If applicable)		7a. NAME OF MONITORING ORGANIZATION Office of Naval Research
6c. ADDRESS (City, State, and ZIP Code) Naval Biosciences Laboratory Naval Supply Center Oakland, California 94625		7b. ADDRESS (City, State, and ZIP Code) Code 1141 800 North Quincy Ave Arlington, VA 22217-5000		
8a. NAME OF FUNDING/SPONSORING ORGANIZATION Office of Naval Research		8b. OFFICE SYMBOL (If applicable)		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER N00014-81-C-0570
8c. ADDRESS (City, State, and ZIP Code) 800 North Quincy Avenue Arlington, Va 22217-5000		10. SOURCE OF FUNDING NUMBERS		
		PROGRAM ELEMENT NO. 61153N	PROJECT NO. RR041-05	TASK NO. RR041-05-03
		WORK UNIT ACCESSION NO. NR204-123		
11. TITLE (Include Security Classification) (U) RESEARCH AND DIAGNOSTIC APPLICATIONS IF MONOCLONAL ANTIBODIES TO COCCIDIOIDES IMMITIS				
12. PERSONAL AUTHOR(S) Karu, Alexander E., Gennevois, D.J.P., Hoffman, J.W., Kraeger, Spring J., and Levine, Hillel B.				
13a. TYPE OF REPORT Summary Report		13b. TIME COVERED FROM 841001 TO 850930		14. DATE OF REPORT (Year, Month, Day) 1985
15. PAGE COUNT 1				
16. SUPPLEMENTARY NOTATION IX Congress of InatI Society for Human and Animal Mycology, Georgia, May 1985.				
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	Keywords: Monoclonal Antibodies, Antigens, C. immitis	
06	03			
19. ABSTRACT (Continue on reverse if necessary and identify by block number) We have been assembling a panel of mouse monoclonal antibodies to antigens on the surface of endospores and spherules, and in culture filtrates and soluble extracts of spherule-phase <u>C. immitis</u> .				
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED	
22a. NAME OF RESPONSIBLE INDIVIDUAL Head, Biological Sciences Div, ONR			22b. TELEPHONE (Include Area Code) (202) 696-4986	
			22c. OFFICE SYMBOL PNR Code 1141	

951
Karu, A.E., Gennevois, D.J.P., Hoffman, J.W., Kraeger, and Levine, H.B. 1985. Research and Diagnostic Applications of Monoclonal Antibodies to Coccidioides immitis. Invited talk, IX Congress of the International Society for Human and Animal Mycology, Atlanta GA, May 1985.

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START → Research and Diagnostic Applications of Monoclonal Antibodies to Coccidioides immitis. A.E. KARU*, D.J.P. GENNEVOIS, J.W. HOFFMAN, S.J. KRAEGER, and H.B. LEVINE, Naval Biosciences Laboratory, School of Public Health, University of California, Berkeley CA 94720 U.S.A.

We have been assembling a panel of mouse monoclonal antibodies to antigens on the surface of endospores and spherules, and in culture filtrates and soluble extracts of spherule-phase C. immitis. These antibodies are being used to develop antigen-trapping EIA, latex agglutination and fluorescence immuno-diagnostic tests, to conduct immunoaffinity purification of the antigens, and to prepare drug-conjugated Fab fragments as reagents for inhibiting C. immitis development. In experiments with soluble and particulate antigens from 7 other human pathogenic fungi, gel chromatography, enzyme immunoassay and immunoblot methods revealed antigenic determinants unique to C. immitis and at least one shared with Histoplasma capsulatum. The immunoreactivity of the hybridoma antibodies and sera from several infected subjects has been compared to identify monoclonal antibodies to antigens which elicit the human immune response. Experiments are under way to identify epitopes that can serve as markers for genetic variants of C. immitis, and antibodies which may be useful for screening recombinant DNA libraries for expression of C. immitis genes. We will outline the current status of similar efforts in other fungal systems, and present strategies which we have found useful for selecting and utilizing suitable monoclonal antibodies. [This project was supported by Contract N00014-81-C-0570 from the U.S. Office of Naval Research.]

Signed Alexander E. Karu
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