

Arthur Friedlander

DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY
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7 Divinity Avenue
Cambridge, Massachusetts 02138

12 April 1994

Arthur M. Friedlander, M.D.
Chief Bacteriology Division *Bldg 1425*
USAMRIID
Frederick, MD 21702

Dear Art:

Here is a table listing some of the parameters that may have affected the dose-response results that we discussed when I visited Fort Detrick at the end of February. Would you please give copies to Louise Pitt and Bruce Ivins? The fact that the collection fluid used by Jemski contained gelatin and also the fact his result for guinea pigs agrees with those of Druett indicate that neither the collection fluid nor any other aspect of the assay procedure accounts for the difference in LD50.

Underneath the tabulated parameters, I have listed some of the obvious variables that can affect experimental results. Is it possible that, in monkeys but not in guinea pigs, single spores are less infectious than spores in somewhat larger particles?

I trust you received the English translation of the article by El'kina. I look forward to receiving from you translations of the three Abramova-Grinberg articles.

Sincerely yours,

Matthew Meselson

Hugh-Jones

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7 Divinity Avenue
Cambridge, Massachusetts 02138

13 April 1994

Dr. Martin Hugh-Jones
Dept. of Epidemiology
and Community Health
School of Veterinary Medicine
Louisiana State University
South Stadium Road
Baton Rouge, LA 70803-8404

Dear Martin:

Here is a copy of the manuscript we sent to NATURE a few days ago. John Maddox told me he would accept the article and I expect to see him in London next week and to discuss any editorial changes he might request.

Here too is a letter of related interest from Clyde Replogle, who has been modelling our data. I believe he obtained it via Dave Huxsoll. I am glad to see that his modelling results are in line with mine. Replogle, Medema and some people from JAYCOR spent this morning with Jeanne and me going over various aspects of the epidemic. Despite an interesting and enjoyable discussion, we did not come up with anything of much importance that is new.

Regarding dose-response, I enclose a table that summarizes some of the parameters and variables relevant to three groups of experiments with monkeys. Some of the information comes from discussions with Jemski, Pitt and Ivins.

Sincerely,

Matthew

Matthew Meselson



Chemical and Biological Arms Control Institute

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Suite 302
Alexandria, VA 22314

Tel: 703/739-1538
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Matthew Meselson
Professor of Biochemistry
Harvard University
Fairchild Biochemistry Building
7 Divinity Avenue
Cambridge, MA 02138

Dear Matt:

It is our pleasure to invite you to join us in an important new undertaking in the field of chemical and biological arms control.

The Chemical and Biological Arms Control Institute was recently established as a non-profit research organization for the purpose of advancing arms control and nonproliferation especially, but not exclusively, in the areas of chemical and biological weapons. With the end of the Cold War, these weapons and the associated norms and treaties have assumed much greater importance. Yet, we all recognize how poorly these topics are understood. One of the undersigned, Mike Moodie, has recently accepted appointment as president of the institute with the challenge of diversifying its work and fostering an impact on the debate.

The Institute's primary goal is to produce top-quality research on issues of public policy. Toward that end, a program of studies and analysis is being put together on nonproliferation and arms control issues. The focus is CBW, but we see one of our challenges as helping to put the CBW subject into larger contexts. One study, for example, is aimed at understanding the different attitudes of developed and developing states towards arms control and nonproliferation; this project is supported by the U.S. Institute of Peace.

We see two other needs that we hope to help fill. The first is industry's need to understand and prepare for its arms control obligations. Part of this effort will focus on implementation of the Chemical Weapons Convention; another part will reach out to the biotechnology and pharmaceutical industries in anticipation of new measures under the Biological Weapons Convention. The institute will strive to reach out to industry both in the United States and overseas.

The other need relates to the growing demands that arms control places on the thin resources of developing countries. As the arms control agenda becomes increasingly multilateral, and as the process of treaty implementation grows increasingly complex, developing countries often

Moodie

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find themselves lacking the necessary institutional depth or substantive expertise. The institute aspires to work with specialists overseas to strengthen their understanding of the global arms control regime and the specific obligations associated with their own national implementation.

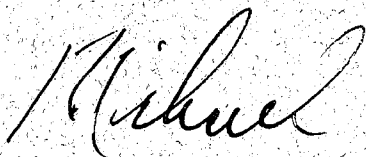
In order to help the institute determine how best to marshal its intellectual and other resources to meet these goals, we are creating a Research Advisory Council. We hope very much that you will agree to serve as a charter member. One of the undersigned, Brad Roberts, will serve as chairman of this group (while retaining his appointment at CSIS). A tentative list of members is enclosed. Your expertise and wisdom would make a very welcome addition to our work.

The Research Advisory Council will support the work of the institute in two ways. We will look to you individually as a source of ideas and insights about possible projects and other work; your advice would be enormously helpful in keeping the institute focused on issues of genuine import. We hope also that you will participate in specific projects undertaken by the institute where time and interest permit, whether as a paper writer, conference participant, or consultant. Nowhere in any institute product will it be suggested that the members of the Council endorse any specific analysis, findings or recommendations -- though we will look to you as a friendly critic of our work, too, helping us to refine and strengthen findings, briefings, or publications.

The demands on the time of Council members should not be onerous -- indeed, we hope that you will find it fun and rewarding. The Council will convene when and if funding makes that possible but certainly no more frequently than once per year (at the moment, the absence of funding makes a Council meeting any time soon highly unlikely). We anticipate our primary interaction with you will be ad hoc and on a case-by-case basis at whatever level of involvement suits you. Council memberships are on a three-year, renewable basis. Membership is also on a non-compensated basis, except where grants cover specific project participation.

The challenge of building a new organization is a tremendously exciting one. We hope very much that you will be able to join us. Certainly, your participation will take us a further step on the road to success. We look forward to hearing from you.

With best wishes,



Michael L. Moodie
President



Brad Roberts
Chairman
Research Advisory Council

RESEARCH ADVISORY COUNCIL

Tentative Membership

Anthony Cordesman
Wilson Fellow
Woodrow Wilson International Center for Scholars
Washington, DC USA

Shai Feldman
Senior Research Associate
Tel Aviv University
The Jaffe Center for Strategic Studies
Tel-Aviv, ISRAEL

Erhard Geissler
Professor of Genetics
MDC Max-Delbrück-Centrum für Molekulare Medizin
Berlin, GERMANY

David Huxsoll
Associate Dean for Research & Advanced Studies
Louisiana State University
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David Koplow
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Georgetown University Law Center
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Joachim Krause
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Andrew Mack
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Hanna

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A Summit Company

TELEFAX COVER SHEET

Fax No. 617 996 2494	Tel No. 495 2264
To: Matthew Messelson	Date: 4/14/94
	Original Mailed? Yes ___ No <u>X</u>
	Number of Pgs (Including Cover) <u>1</u>
	Sigma Reference Number <u>OH</u>
From: Steve Hanna	
<p>Message: Matthew - Thank you for inviting me to the interesting meeting on 4/13. I have plotted and analyzed the net. data and arrived at the following conclusions:</p> <ul style="list-style-type: none"> • The cold front went through at noon on April 1. • The mixing depth is 1000m on April 2. • Wind directions line up with the plume between 4am and 4pm on April 2. <p>I will send you my plots and a detailed written analysis in a few days. It should be there when you return from Russia.</p> <p style="text-align: right;">Steve</p>	

4261 voice mail

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Jansen

HARVARD SUSSEX PROGRAM
ON CBW ARMAMENT AND ARMS LIMITATION

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15 April 1994

Colonel Karen Jansen
507 North Columbus Street
Alexandria, VA 22314

Dear Colonel Jansen,

Julian Robinson and I are delighted at the prospect of publishing an article by you on the UNSCOM experience in the Chemical Weapons Convention Bulletin. I was immensely impressed with your presentation on the subject in Washington last month and am eager to make it available to the readers of the Bulletin. For your interest I enclose our last two issues.

Advisory Board:

Will D. Carpenter
Jonathan Dean
Charles Flowerree (deceased)
Shirley Freeman
James Leonard
A.J.J. Ooms
Abdullah Toukan

We would like to receive copy the middle of May so that we might discuss any editorial matters arising before your departure for Korea at the end of the month. As for length, anything between 2,000 and approximately 5,000 words would be fine.

On another subject, here is a manuscript on the epidemiology of the Sverdlovsk anthrax outbreak of 1979 that will appear in Nature, probably in the early summer. I had no recent access to classified material on the subject, and so was glad to receive the enclosed comments of someone who has.

Sincerely yours,

Matthew Meselson

cc: Julian Robinson