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FACSIMILE COVER LETTER**(for Single Recipient)****Date:** 11/20/98 11:09 AM**Number of Pages (including cover sheet):** 5**To:** E.R. Zumwalt, Jr.**Fax No.:** 703-528-5795**Firm Name:****Office No.:** 703-527-5380**From:** Daniel Singer**Ext.:** 7222

Comments: Bud: I am eager to get back in touch with you on the bio-
terrorism issue. The enclosed exchange of e-mail along with
a copy of Stanley Falkow's "Who's Who" listing will bring
you up to date. Please telephone when you have a chance.
DMS

Telecopy Operator Information Only**Time Started:** _____ **Operator's Initials:** _____

Singer, Dan

From: Stanley Falkow(SMTP:falkow@montana.com)
Sent: Friday, September 04, 1998 1:55 PM
To: SINGEDA@fhhsj.com
Subject: Bioterrorism

Dear Dan:

I'm afraid that I couldn't open the file attachment. It appears to be a WP7 document but my program says it is of unknown format. please either try again or fax it to me at 406-363-3378. I'm in my Montana home until September 21.

I actually met Admiral Zumwalt at a DARPA meeting. DARPA as you may know has initiated a massive research effort for bioterrorism defense that includes the development of new anti-infective agents, better and rapid diagnostics and new materials technology (protective garments mostly) for the military in the event of a biological attack. Of course, I need to read the material you want me to before commenting any further.

I will say however that 20 years ago I felt that the development of biological weapons using genetics and molecular biology was simply a symptom of human arrogance. We simply didn't know very much about the biology of things like plague, anthrax etc. That is no longer the case. It is now perfectly feasible to prepare some terrible recombinant versions of already bad actors. moreover, several terrorist groups have already "played with" using biological agents. I'm really quite concerned about the threat and there is really no plan of action let alone post-exposure tactics.
Stan

Singer, Dan

From: Stanley Falkow[SMTP:falkow@leland.Stanford.EDU]
Sent: Thursday, September 03, 1998 4:49 PM
To: Singer, Dan
Subject: Re: Antibiotic Resistant Bacteria - BW Terrorism

Dear Mr. Singer,

I have forwarded your e-mail to Stanley. I will let you know his response soon.

Sara Fisher
 Assistant to Dr. Falkow

At 02:17 PM 9/3/98 -0400, you wrote:

>Stan -- I am e-mailing you as suggested in your voice mail message.

>

> Twenty-plus years ago at Asilomar, you opened my eyes (and, I
 > suspect, the eyes of others) to the kinds of public health dangers posed by
 > the increasing numbers of bacterial strains which are resistant to
 > antibiotics. And Maxine tells me that you are still a most thoughtful
 > leader among persons concerned about the problem. That's why I am writing
 > to ask you to read over some material which I am sending to you and then to
 > share your thoughts with me whether the matter merits further effort on my
 > part. (I recognize that one of your thoughts may be "forget it!", a
 > response that I would find reasonably compelling.)

>

> I am a retired partner in a 400-lawyer law firm with offices in
 > Washington and elsewhere. At the request of one of my former partners with
 > substantial recent experience on the National Security Council staff, I met
 > with Adm. Elmo Zumwalt, CNO 1970-74, to discuss Zumwalt's concern about the
 > absence of any significant research on post-exposure prophylaxes for persons
 > exposed to biological agents -- most especially Zumwalt's interest in
 > exploring the possibility of harnessing such a research effort with research
 > on new classes of antibiotics active against bacteria resistant to all
 > currently available antibiotics.

>

> Zumwalt's concerns are captured in the materials I have taken the
 > liberty of sending to you.

>

> Perhaps we could talk by telephone after you have had a chance to
 > review those materials. My telephone number is: 202-638-7222.

>

> I look forward to hearing from you.

>

>

Daniel M. Singer

>

>

>Attachment Converted: "c:\windows\desktop\leudora\attach\Antibiotic
 > Resistant Bacteria -"

>

Sara Fisher
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Stanley Falkow

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LENGTH: 252 words

* * * * * PERSONAL INFORMATION * * * * *

son of Jacob and Mollie (Gingold) F.; children from previous marriage: Lynn Beth, Jill Stuart; married to Lucy Stuart Tompkins, Dec. 3, 1983.

GENDER: Male

BIRTH-DATE: January 24, 1934

BIRTHPLACE: Albany, N.Y.

ADDRESS: Home: 8 Long Spur St, Portola Vally, CA, 94028-8038, Office: Stanford U, Dept Med Microbiology, Stanford, CA, 94305

* * * * * CAREER INFORMATION * * * * *

OCCUPATION: 2263 - microbiologist, educator

CAREER: Karl H. Beyer vis. prof. U. Wis., 1978-79; Sommer lectr. U. Oreg. Sch. Medicine, 1979, Kinyoun lectr. NIH, 1980; Rubbro orator Australian Soc. Microbiology, 1981; Stanhope Bayne-Jones lectr. Johns Hopkins U., 1982; mem. Recombinant DNA Molecule Com, task force on antibiotics in animal feeds FDA, microbiology test com. Nat. Bd. Med. Examiners.

POSITIONS HELD: asst. chief dept. bacterial immunity, Walter Reed Army Inst. Rsch., Washington, 1963-66; prof. microbiology, Med. Sch. Georgetown U, 1966-72; prof. microbiology and medicine, U. Wash., Seattle, 1972-81; prof., chmn. dept. med. microbiology, Stanford (Calif.) U., 1981-85; prof. microbiology, immunology & medicine, 1981-

* * * * * EDUCATIONAL INFORMATION * * * * *

BS in Bacteriology cum laude, U. Maine, 1955; DSc (hon), U. Maine, 1979; MS in Biology, Brown U., 1960; PhD, Brown U., 1961; MD (hon.), U. Umea, Sweden, 1989

* * * * * OTHER INFORMATION * * * * *

CREATIVE WORKS: Author: Infectious Multiple Drug Resistance, 1975; editor: Jour. Infection and Immunity, Jour. Infectious Agents and Diseases.

AWARDS: Recipient Ehrlich prize, 1981, Becton-Dickinson award in Clin. Microbiology, ASM, 1986, Altemeier medal Surg. Infectious Diseases Soc., 1990; Bristol-Myers Squibb unrestricted infectious disease grantee.

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MEMBERSHIPS: Fellow Am. Acad. Microbiology; mem. AAAS, Infectious Disease Soc. Am. (Squibb award 1979), Am. Soc. Microbiology, Genetics Soc. Am. , Nat. Acad. Sci., Sigma Xi.

'LANGUAGE: English