

Bio & Terror Bible

EXPOSING THE COMING BIO-TERROR PANDEMIC

BIOTERRORBIBLE.COM: The following state/government sponsored bio-terror tests (attacks) occurred in America, specifically in 2001. The historical record of state sponsored bio-terror is littered with unprovoked attacks on unsuspecting soldiers and citizens alike. The fact that state sponsored bio-terror tests (attacks) exist in mass confirms not only that government is the serial bio-terrorist, but that it will strike again in the near future.

Currently, Israel is the only modern nation that has **not signed** the 1972 [Biological Weapons Convention](#) (refusal to engage in offensive biological warfare, stockpiling, and use of biological weapons). Also, Israel is the only modern nation that has **signed but not ratified** the 1993 [Chemical Weapons Convention](#) (refusal to produce, stockpile and use chemical weapons). Should the world suffer a major bio-terror attack or pandemic, Israel will be the #1 suspect.

9/11 Bio-Terror:

1. 9/11 Anthrax Attacks (see below)
2. Scientist [James Jay Hatfield](#) (Suspect): Access page [here](#)
3. Scientist [Bruce Ivins](#) (Suspect): Access page [here](#)

Title: 2001 Anthrax Attacks

Date: 2012

Source: [Wikipedia](#)

Abstract: The 2001 anthrax attacks in the United States, also known as Amerithrax from its [Federal Bureau of Investigation](#) (FBI) case name, occurred over the course of several weeks beginning on Tuesday, September 18, 2001, one week after the [September 11 attacks](#).

Letters containing [anthrax spores](#) were mailed to several news media offices and two [Democratic U.S. Senators](#), killing five people and infecting 17 others. According to the FBI, the ensuing investigation became "one of the largest and most complex in the history of law enforcement."

A major focus in the early years of the investigation was a [bio-weapons](#) expert named [Steven Hatfill](#), who was eventually exonerated. Another suspect, [Bruce Edwards Ivins](#), became a focus of investigation around April 4, 2005. Ivins was a scientist who worked at the government's biodefense labs at [Fort Detrick](#) in [Frederick, Maryland](#). On April 11, 2007, Ivins was put under periodic surveillance and an FBI document stated that "Bruce Edwards Ivins is an extremely sensitive suspect in the 2001 anthrax attacks". On July 27, 2008, Ivins killed himself with an overdose of [acetaminophen](#).

On August 6, 2008, despite having no direct evidence of his involvement, federal prosecutors declared Ivins to be the sole culprit of the crime. Two days later, Senator [Charles Grassley](#) and Rep. [Rush Holt](#) called for hearings into the DOJ and FBI's handling of the investigation. On February 19, 2010, the FBI formally closed its investigation. A review of the scientific methods used in the investigation at the [National Academy of Sciences](#), published in February 2011, cast doubt on the US government's conclusion that Ivins was the perpetrator. The review found that, although the type of anthrax used in the

letters was correctly identified as the [Ames strain](#) of the bacterium, there was insufficient scientific evidence for the FBI's assertion that it originated from Ivins' laboratory. The FBI responded by pointing out that the review panel asserted that it would not be possible to reach a definite conclusion based on science alone, and said that a combination of factors led the FBI to conclude that Ivins would have been the perpetrator. Some information about the case related to Ivins' mental problems is still "under seal." Lawsuits filed by the widow of victim Bob Stevens have not yet been settled ([Wikipedia, 2012](#)).

Title: Anthrax Hits White House Annex

Date: October 23, 2001

Source: [Wired](#)

Abstract: The nation's anthrax scare hit the White House on Tuesday with the discovery of a small concentration of spores at an offsite mail processing center. "We're working hard at finding out who's doing this," President Bush said as bioterrorism claimed fresh victims along the East Coast.

Bush said the executive mansion was safe - and twice said "I don't have anthrax" - despite the discovery of spores on a machine at the mail site a few miles from the White House. Spokesman Ari Fleischer said all employees at the site as well as mailroom workers in the White House itself were being "swabbed and tested" for the disease.

The startling disclosure capped a rapidly unfolding series of events in which officials announced additional confirmed and suspected cases of inhalation anthrax, Congress returned to work, and the administration pledged a more aggressive testing and treatment program if additional tainted letters are discovered.

Before the current outbreak, "We had had no cases of inhalation anthrax in a mail sorting facility," said Jeffrey Koplan, head of the Centers for Disease Control and Prevention. "There was no reason to think this was a possibility."

For his part, Health and Human Services Secretary Tommy Thompson pushed Bayer Corp. to lower its price for Cipro, a front-line anti-anthrax drug.

Outside the White House, House Democratic Leader Dick Gephardt said "weapons-grade material" was responsible for spreading infections. And overseas, the State Department issued a worldwide alert warning U.S. citizens to be mindful of the risk of anthrax or other biological or chemical agents.

Six weeks after terrorists killed thousands in Washington and New York, administration officials drew a rhetorical connection to the outbreak of anthrax. The FBI released the text of three anthrax-tainted letters - each of them dated Sept. 11, the date that hijackers flew planes into the World Trade Center in New York and the Pentagon.

Bush believes the spread of anthrax "is another example of how this is a two-front war: that there are people who would seek to do evil to this country; that there are people who mean us harm," Fleischer said. "And they have mailed letters, obviously, to high impact places - the news media, to Majority Leader (Tom) Daschle, perhaps, in this case, to the White House."

The administration has been buffeted by criticism for waiting several days after the discovery of the letter addressed to Daschle before ordering testing at the central postal facility for the nation's capital. Without acknowledging any shortcomings, several officials pointed to changes in their outlook.

"We're going to err on the side of caution in making sure people are protected," said Thompson.

"When a case of anthrax does emerge we will immediately move in at any and all postal facilities that might have handled that piece of mail," he said. He spoke as the U.S. Postal Service offered antibiotics

as a precaution to 7,000 employees of six Manhattan post offices that may have been in the path of anthrax-contaminated letters.

Koplan, appearing before a separate panel, said, "the public health system of the United States is severely challenged at this moment."

The latest evidence of that was in the Washington area and New Jersey, at postal facilities known to have processed one or more anthrax-tainted letters in the past few weeks. Both were closed after the presence of anthrax was detected.

Postal Service Vice President Deborah Willhite said of the Washington facility: "It's a crime scene because someone has been murdered."

There, officials confirmed two postal worker deaths due to anthrax, and said the disease had sent more to the hospital. Thousands more mail employees were undoing tests and taking antibiotics.

District of Columbia Mayor Anthony Williams said final laboratory results confirmed inhalation anthrax as the cause of death of two men who worked at the city's main Brentwood postal facility. Other officials said two more employees remain hospitalized with the disease, and said anthrax was suspected in an additional four cases. Anthrax-laced mail delivered last week to Daschle's office was postmarked in Trenton, N.J., and went through the Brentwood facility.

"We do not need further testing," said Dr. Ivan Walks, the city's top health official. "But we need to treat. And we need to treat quickly." He urged anyone who visited the back area of the central mail facility to come in for antibiotics.

Earlier, New Jersey officials announced that a woman had been hospitalized in the Trenton area and was presumed to be suffering from the inhalation form of the disease. "She's holding her own," said Dr. Eddy Bresnitz, the state epidemiologist.

The woman, whose name was not released, works at a Trenton-area postal facility believed to have processed at least three anthrax-laced letters - one to Daschle, the second to NBC News anchorman Tom Brokaw and the third to the New York Post.

Still later, officials in Montgomery County, Md., said they suspected anthrax in the case of two postal workers from Brentwood, both of whom were being treated at a local hospital. and state officials in Towson, Md., said one patient at a separate hospital is suspected to have the disease.

The FBI released copies of the spiked letters mailed to Daschle, Brokaw and the New York Post. All three contained anti-American and anti-Israeli messages.

"You can not stop us. We have this anthrax. You die now. Are you afraid? Death to America. Death to Israel. Allah is great," said the letter to Daschle.

The discovery of that letter last week touched off the anthrax scare on Capitol Hill that has yet to abate.

The House and Senate reopened for business Tuesday, but the office buildings that house lawmakers and their aides were shut, some of them possibly for days.

"I think we have to assume there is a possibility that other mail could be contaminated," said Daschle, D-S.D. He said some of the mail that has been piling up since last Monday may have to be destroyed.

At day's end, Senate leaders announced plans to reopen one of the three office buildings on their side of the Capitol on Wednesday. Two sources, speaking on condition of anonymity, said the decision overruled an initial recommendation from scientists and health officials who wanted it to remain closed while decontamination proceeded in nearby buildings ([Wired, 2001](#)).

Title: Anthrax Vaccine To Go To 'High Risk Workers'

Date: October 28, 2001

Source: [CNN](#)

Abstract: The Centers for Disease Control and Prevention will administer anthrax vaccine to "high risk" laboratory workers and decontamination specialists and may later expand the program to some postal workers, the federal agency said Friday.

Dr. David Fleming, the CDC's deputy director of science and public health, said the agency decided to vaccinate those involved in the anthrax investigation because they were "constant exposure" to the anthrax bacteria.

He also said a CDC task force is assessing whether some postal workers and others should also be vaccinated, and expects to announce a decision within two weeks.

Traces of anthrax found at a CIA mail sorting facility are "medically insignificant," an official said, but the building in Langley, Virginia, has joined other federal buildings, such as the U.S. Supreme Court, that have been closed for environmental testing and cleaning.

The CIA, like many U.S. agencies, gets its mail from Washington's main processing center on Brentwood Road, where two postal workers have died from inhalation anthrax and a number of others are being treated in hospitals.

How the contamination is being handled at postal facilities appears headed for court. The New York metro postal union has given officials until Monday to close the contaminated Manhattan processing center. The Miami, Florida-area union said it plans to ask a federal judge for "expedited arbitration" with the Postal Service. The union wants to address grievances stemming from the three-week series of anthrax-in-the-mail investigations and reports, according to a union representative and an attorney for the union.

Case History

Florida -- Robert Stevens, dead of inhalation anthrax
Washington -- Two postal workers from the Brentwood facility, dead from inhalation anthrax.
Washington -- Two Capitol Hill postal workers, inhalation anthrax
Washington area -- U.S. State Department mailroom employee, inhalation anthrax
Florida -- Ernesto Blanco, diagnosed with inhaled anthrax infection, was released from the hospital on October 24
New Jersey -- A Hamilton Township postal worker, inhalation anthrax
New Jersey, New York -- five cases of cutaneous anthrax
Exposures -- 32
Washington -- 28 people in the Hart Senate Office Building
Florida -- Stephanie Dailey, an American Media Inc. employee
New York -- One police officer, two lab technicians who were investigating NBC News facility

Bottom Line

As the anthrax contamination spreads, health officials are changing the way they are handling the investigation and treatment of the bacterial threat. Weeks after the probe of anthrax threats began, those

on the front lines of the investigation will get the anthrax vaccine. With anthrax spreading through the mail, some postal workers are angry that more has not been done to protect them from the potentially deadly bacteria ([CNN, 2001](#)).

Title: New York Hospital Worker Dies From Anthrax

Date: October 31, 2001

Source: [Guardian](#)

Abstract: A 61-year-old New York hospital worker today became the fourth person in the US to die of inhalation anthrax, and the first death not connected with the postal service, government or media.

Kathy Nguyen worked in a storage supply room in the basement of the Manhattan Eye, Ear and Throat Hospital, which was located next to the mailroom until a few days ago, but no suspicious letter has been found in the hospital.

Only one other case, a 51-year-old accountant from New Jersey suffering from skin anthrax, has had no connection to the obvious "targets": large news organisations, the government or the postal workers who sort and carry infected mail. Both cases raised the possibility that anthrax letters are contaminating other mail or that the spores are reaching people by means other than the mail.

Hundreds of the Ms Nguyen's fellow hospital workers were being given antibiotics as a precaution.

Dr Anthony Fauci of the National Institutes of Health said worries about "cross-contamination" - anthrax spores sticking to pieces of mail at postal facilities - have grown with the new cases.

Dr Fauci said investigators are now wondering if people have been infected from a piece of mail that went to their home.

Dr Fauci added that preliminary tests show no anthrax at the hospital where she works and "that's part of the mystery".

"So all bets are off and we - the public health officials, the forensic group - have to do a real full court press on trying to track this down. This is critical," he told NBC television.

Officials were trying to retrace the woman's movements but the process was "somewhat limited because she cannot participate in this discussion", the surgeon general, David Satcher, told CBS television.

The spread of the disease - from mail carriers in New Jersey and Washington to media employees in New York and Florida and now to apparently unrelated people - is giving investigators and researchers a painful real-world case study. Contamination of postal facilities in Washington, New Jersey and Florida has altered investigators' assumptions about how easily the spores can be spread. Postal service equipment and procedures, too, are under re-examination.

"It's been an eye-opener, to me at least, the amount of contamination possible from these letters," said Martin Hugh-Jones, an epidemiologist at Louisiana State University.

Officials at the Centres for Disease Control and Prevention nationwide are now keeping an open mind about cross-contamination, a spokesman said - a stark change from a week earlier.

Last week, Dr Jeffrey Koplan, the CDC director, said cross-contamination was "highly unlikely to virtually impossible". Yesterday he described it as a "possibility".

The latest victims raised the number of confirmed anthrax cases to 16 in the US since the outbreak began in early October. Ten of the victims have the inhaled form, and four have died. Six others have less severe skin infections.

* Meanwhile two Northwest Airlines flights from Tokyo's Narita airport were this evening grounded in Seattle and San Francisco over fears that someone carrying anthrax could be on board.

Two passengers on the plane held at Seattle were detained and questioned, while the aircraft were both given the all clear after searches showed no evidence of anthrax or other biohazards ([Guardian, 2001](#)).

Title: Anthrax Attack Bug "Identical" To Army Strain

Date: May 9, 2002

Source: [New Scientist](#)

Abstract: The DNA sequence of the anthrax sent through the US mail in 2001 has been revealed and confirms suspicions that the bacteria originally came from a US military laboratory.

The data released uses codenames for the reference strains against which the attack strain was compared. But **New Scientist** can reveal that the two reference strains that appear identical to the attack strain most likely originated at the US Army Medical Research Institute for Infectious Diseases at Fort Detrick (USAMRIID), Maryland.

The new work also shows that substantial genetic differences can emerge in two samples of an anthrax culture separated for only three years. This means the attacker's anthrax was not separated from its ancestors at USAMRIID for many generations.

The new genetic sequencing work was done by the Institute for Genomic Research in Rockville, Maryland (TIGR), and Paul Keim's team at the University of Northern Arizona at Flagstaff. Before the attacks, TIGR had started sequencing a non-pathogenic derivative of the "Ames" strain of anthrax from the UK biodefence establishment at Porton Down.

It happened that the anthrax attacker used a pathogenic Ames strain. So in January, TIGR added the bacteria isolated from the first victim of the attack, Florida journalist Robert Stevens, to its sequencing effort.

Incriminating Evidence

The idea was to tease out subtle differences between the two genomes that might identify the source of the attack strain. Full-blown sequencing seemed necessary, as genetic differences in anthrax are notoriously hard to find.

The teams found plenty of differences between the two strains, as they now report in the journal *Science*. They then took these "marker" stretches of DNA and tested them against five other samples of Ames anthrax, looking for differences - or incriminating similarities.

One, from a goat that died of anthrax in Texas in 1997, differed at four markers, proving that the markers can reveal divergence among anthrax lineages.

But ironically, none of the other four - identified only as A, B, C and D - differed at all from the attack strain at any of the new markers revealed by sequencing. However, two, A and D, did differ at one marker - a stretch of repeated adenines on pXO2, one of the two DNA plasmids that give anthrax its virulence.

That marker had already been discovered by Keim and reported at a meeting in June 2001. "It may be the most polymorphic site in the genome," Keim told New Scientist. Strain A can immediately be ruled out as the attack strain as it is missing a plasmid, and is non-pathogenic.

The identity of the strains apparently identical to the attack strain - B and C - and strain D can be deduced as follows. In February, Keim told New Scientist: "We can distinguish among different Ames accessions. These are from collaborative laboratories and related to genetic work we have been performing over the years."

Doubly Sure

The strains from the collaborative labs appear certain to be strains B, C and D. In that case, one was the reference Ames in Keim's collection that came from a freezer at Porton Down, which in turn had got it from USAMRIID. Another was a culture that came directly from USAMRIID, and the last was from the US Army's Dugway proving ground in Utah.

TIGR spokesmen and other sources have stated that Keim could find no differences between the attack strain and the reference Ames in his collection at any marker tested in his lab. The tests reported in *Science* are no better at doing this. So one of B and C is Keim's Porton Down/USAMRIID reference strain. The other is likely to be the culture directly from USAMRIID, as the reference strain originated there and had since languished in a freezer.

So strain D seems to have come from Dugway. The difference between D and the attack strain is not great - there are 36 adenines in a row, instead of 35 - but Keim's team made doubly sure by sequencing that part of the D strain's genome.

However, the new work does not prove irrefutably that the attacker got his anthrax directly from USAMRIID because it is possible that untested Ames cultures from other labs might also be identical. Those tests are now underway ([New Scientist, 2002](#)).

Title: Anthrax Killer 'Is US Defence Insider'

Date: August 18, 2002

Source: [BBC](#)

Abstract: An FBI forensic linguistics expert believes the US [anthrax attacks](#) were carried out by a senior scientist from within America's biological-defence community.

Professor Don Foster - who helped convict Unabomber Ted Kaczynski and unveiled Joe Klein as the author of the novel *Primary Colors* - says the evidence points to someone with high-ranking military and intelligence connections.

Speaking about the investigation for the first time, Prof Foster told the BBC he had identified two suspects who had both worked for the CIA, the US Army Medical Research Institute of Infectious Diseases (USAMRIID) and other classified military operations.

Controversially, Prof Foster says the killer is likely to be highly patriotic individual who wanted to demonstrate that the US was badly prepared for an act of biological terrorism.

The weapons-grade anthrax was posted in letters just days after the 11 September terror attacks, leaving five people dead, 18 injured and 35,000 forced to take precautionary antibiotics.

The professor says he does not believe the killer will strike again as he has achieved his goal.

He explained: "To that end his misplaced patriotism has worked. Today millions of government dollars have gone into research and anthrax antibiotics are now available to the public."

Agency rivalry?

However, he fears the investigation is now being hampered in its gathering of vital documents that could lead to the killer.

Prof Foster says investigators need examples of the suspects writing to analyse their style and use of language - which the professor believes is as unique as DNA and could unveil the perpetrator.

He said: "It's very frustrating. Ordinarily with the FBI if there's some documents needed - known writings - boom, they're on my desk the next day.

"My two suspects both appear to have CIA connections. These two agencies, the CIA and the FBI, are sometimes seen as rivals.

"My anxiety is that the FBI agents assigned to this case are not getting full and complete co-operation from the US military, CIA and witnesses who might have information about this case."

Killer 'diverting suspicion'

Prof Foster was given four letters recovered by investigators to analyse for clues to the killer's identity.

"As I worked through these documents it became apparent that USAMRIID was ultimately the best place for the FBI to begin looking for a suspect," he said.

All of the letters contain the following messages "Death to America" and "Death to Israel". All were dated 11 September, a clear reference to the terror attacks.

But while investigators searched for links between the anthrax attacks and al-Qaeda, Prof Foster immediately suspected that dating the letters 11 September was merely a ruse to throw the authorities off the scent.

He says: "When an offender gives you some piece of information that's just completely unnecessary and that, in this case, is inaccurate, it becomes immediately suspect.

"It becomes a statement of 'Here's what I want you to believe about this document'."

Prof Foster also says the killer seems to have tried implicating two former USAMRIID scientists who had left the laboratory in unhappy circumstances by posting the letters from near their homes in New Jersey.

He says only someone in contact with a senior insider at USAMRIID would have known how the two scientists left the lab and that they would then be likely targets for the FBI investigation.

He says: "They are looking at someone who's a little bit higher up the food chain, who would have to have access to personnel information."

Deliberate mistakes

The professor also identified a number of mistakes and misspellings in the letters which he suspects are a deliberate ploy to confuse investigators.

The author of the anthrax letters tells his victims to take penicillin. Not only is penicillin the wrong antibiotic to take, the killer also misspells the word.

Prof Foster says: "You mean to tell me this guy is dealing with anthrax, a trillion spores a gram, and he thinks penicillin is going to be the antibiotic of choice?"

"There's something very fishy about that misspelling there, that this particular word should be misspelled and it should be misspelled in such an unconvincing way.

"It looks like an attempt on the offender to say 'Hey, don't think I'm a scientist, don't think I know anything about antibiotics'."

The FBI have placed a number of scientists under intense scrutiny and recently questioned US scientist Dr [Steven Hatfill](#) in connection with the attacks.

Dr Hatfill strenuously denies any involvement in the attacks saying: "I have never worked with anthrax; I know nothing about this matter."

The FBI's investigation continues ([BBC, 2002](#)).

Title: US Government Biological Weapons Legislator Says 2001 Anthrax Attacks Part Of Government Bio-warfare Program

Date: December 13, 2006

Source: [Infowars](#)

Abstract: The real culprits behind the 2001 anthrax attack on Congress were most likely US government scientists at the army's Ft. Detrick, MD., bioterrorism lab according to a former government biological weapons legislator and University of Illinois Professor.

Dr Francis A. Boyle says the FBI covered up these facts and has also quite clearly stated that he doubts the official government story that 19 arabs with boxcutters perpetrated the attacks of 9/11.

Boyle is a leading American professor, practitioner and advocate of international law. He was responsible for drafting the Biological Weapons Anti-Terrorism Act of 1989, the American implementing legislation for the 1972 Biological Weapons Convention. He served on the Board of Directors of Amnesty International (1988-1992), and represented Bosnia- Herzegovina at the World Court. Professor Boyle teaches international law at the University of Illinois, Champaign. He holds a Doctor of Law Magna Cum Laude as well as a Ph.D. in Political Science, both from Harvard University.

"I believe the FBI knows exactly who was behind these terrorist anthrax attacks upon the United States Congress in the Fall of 2001, and that the culprits were US government-related scientists involved in a criminal US government bio-warfare program," Boyle says in his new book [Biowarfare and Terrorism](#).

Only a "handful" of scientists had the means to carry out the attack, yet the FBI ordered the destruction of the anthrax culture collection at Ames, IA., from which the Ft. Detrick lab got its pathogens. Boyle states that only top level scientists with access to "moonsuits" that enabled them to safely process and manufacture super-weapons-grade anthrax could have carried out the attacks.

"The trail of genetic evidence would have led directly back to a secret but officially-sponsored US government biowarfare program that was illegal and criminal" , Boyle said. However, impartial scientists were not allowed to perform genetic reconstruction of the anthrax found in letters mailed to Senators Daschle (D-S.D.) and Patrick Leahy, (D -Vt.) in late 2001.

We have [previously exposed](#) how leading members of the Bush administration and White House staff were on the anthrax-treating antibiotic Cipro up to six weeks before the attacks occurred. It is also documented that the anthrax strain used was military grade. This was widely reported in 2002 in publications such as the [New Scientist](#). However, this fact has recently been [totally changed](#) with the FBI now suggesting that common anthrax, not military grade anthrax was used.

The whole thing "appears to be a cover-up orchestrated by the FBI." according to Dr Boyle.

Boyle goes on to inquire, "Could the real culprits behind the terrorist attacks on 11 September 2001, and the immediately following terrorist anthrax attacks upon Congress ultimately prove to be the same people? Could it truly be coincidental that two of the primary intended victims of the terrorist anthrax attacks - Senators Daschle and Leahy - were holding up the speedy passage of the pre-planned USA Patriot Act ... an act which provided the federal government with unprecedented powers in relation to US citizens and institutions?"

Clearly Dr Boyle has a hard time believing what the government says happened on 9/11 ([Infowars, 2006](#)).

Title: Suicide Of Anthrax Scientist Raises Questions

Date: August 1, 2008

Source: [Science Mag](#)

Abstract: One of the greatest criminal mysteries of the decade has taken a dramatic new turn with the suicide last Tuesday of Bruce Ivins, an anthrax researcher at the U.S. Army Medical Research Institute of Infectious Disease (USAMRIID) in Fort Detrick, Maryland. According to news reports, federal prosecutors were preparing to file charges against Ivins, 62, for plotting the anthrax letter attacks which killed five people and sickened 17 others in October and November 2001.

Biodefense researchers were pondering today whether there might be a backlash to their field if the worst bioterror crime in U.S. history was indeed committed by a scientist who had spent a career developing countermeasures against anthrax. But the fact that Ivins won't face trial also raised the uncomfortable specter that the full truth about the case may never come out. "We may never know for sure whether he did it or not," says virologist Thomas Geisbert, a former USAMRIID researcher now at Boston University. Ivins's lawyer, Paul Kemp of Rockville, Maryland, issued a statement quoted by *The New York Times* declaring his client innocent and alleging that mounting pressure from the Federal Bureau of Investigation (FBI) had "led to his untimely death."

According to the *Los Angeles Times*, which broke the story this morning, Ivins committed suicide by taking an overdose of painkillers. Ivins had worked at USAMRIID for 18 years, focusing primarily on anthrax. Most of his published work was on anthrax vaccines. Ivins produced and used anthrax spores of the Ames strain, the type used in the letter attacks, to infect animals.

In a statement issued this afternoon, the FBI did not mention Ivins's name but said it would reveal more information about the case after victims' families had been informed. The bureau said that "substantial progress" has been made in the case, thanks in part to "new and sophisticated scientific tools" --but it didn't give specifics.

The FBI has been under immense pressure from politicians and the public to find the perpetrators of the 2001 attacks, and some are worried that Ivins's death may provide a premature opportunity to declare the case solved. In a statement today, Alan Pearson of the Center for Arms Control and Non-Proliferation in

Washington, D.C., called on the bureau to continue its investigation. "The need for a thorough investigation and a full accounting to the American people remains." Ivins's inability to defend himself makes it even more important that scientists be able to pore over the complete scientific evidence, says R. John Collier, an anthrax researcher at Harvard University. "I would love to see what they have," Collier says.

Just this summer, the government agreed to pay \$4.6 million to Steven Hatfill, a biodefense researcher whose life was turned upside down in 2002 after then-Attorney General John Ashcroft called him a "person of interest" in the anthrax attacks. Geisbert wonders whether Ivins's death was the result of "another Hatfill situation, and was he just unable to handle the pressure."

The death--and presumed involvement in the anthrax letters--puts the biodefense research community in a tight spot, says Gerald Epstein, a biosecurity expert at the Center for Strategic and International Studies in Washington, D.C. "From the very beginning, there has been speculation that the attacks were carried out by a biodefense zealot who wanted to prove that bioterrorism was a serious problem," says Epstein. If true, that could give the public the impression that "biodefense research is a giant fraud," he says. "It would be unfortunate if the message people take away from this is that the only individuals we should be concerned about are deranged biodefense scientists."

Geisbert worries that Ivins's potential involvement will give new ammunition to local groups that have tried to stop the wave of new biosafety labs. In Boston, "we have had a lot of opposition--and this is not going to help," he says. Still, Geisbert points out, none of the anthrax victims lived in or near USAMRIID, and there's no reason to believe local residents are at greater risk when a biodefense researcher becomes a bioterrorist himself.

Jonathan Tucker, a specialist on biological weapons control, says the incident is bound to evoke new concerns about "insider threats" at government and university labs. Officials may be compelled to further scrutinize researchers who work with select agents, Tucker says, adding that some questions have already been raised about "the adequacy of the screening process" used by the FBI to determine if a scientist should be allowed to work with a dangerous pathogen ([Science Mag, 2008](#)).

Title: Anthrax Case Renews Questions On Bioterror

Date: August 3, 2008

Source: [New York Times](#)

Abstract: Until the [anthrax](#) attacks of 2001, [Bruce E. Ivins](#) was one of just a few dozen American bioterrorism researchers working with the most lethal biological pathogens, almost all at high-security military laboratories.

Today, there are hundreds of such researchers in scores of laboratories at universities and other institutions around the United States, preparing for the next bioattack.

But the revelation that [F.B.I.](#) investigators believe that the anthrax attacks were carried out by Dr. Ivins, an Army biodefense scientist who committed suicide last week after he learned that he was about to be indicted for murder, has already re-ignited a debate: Has the unprecedented boom in biodefense research made the country less secure by multiplying the places and people with access to dangerous germs?

"We are putting America at more risk, not less risk," said Representative Bart Stupak, Democrat of Michigan and chairman of a House panel that has investigated recent safety lapses at biolabs.

F.B.I. investigators have long speculated that the motive for the attacks, if carried out by a biodefense insider like Dr. Ivins, might have been to draw public attention to a dire threat, attracting money and prestige to a once-obscure field.

If that was the motive, it succeeded. In the years since anthrax-laced letters were sent to members of Congress and news organizations in late 2001, killing five people, almost \$50 billion in federal money has been spent to build new laboratories, develop vaccines and stockpile drugs.

After the attacks, for example, an experimental vaccine Dr. Ivins had spent years working on moved from the laboratory to a proposed \$877 million federal contract, though the deal collapsed two years later. Federal documents suggest that Dr. Ivins, along with several colleagues, might have earned royalties had the contract gone forward, but the deal ultimately collapsed.

Dr. Ivins's lawyer, Paul F. Kemp, and some of the scientist's colleagues insist that he was innocent. Mr. Kemp said by e-mail on Saturday that news reports that his client had considered agreeing to a plea bargain were "entirely spurious." And a senior law enforcement official said that discussions between investigators and Mr. Kemp were "preliminary" and routine and did not represent any active discussion of a plea bargain.

But officials at the Justice Department and the Federal Bureau of Investigation on Saturday appeared confident that they had the right man. They said they were still weighing how and when to seek an end to the grand jury investigation.

"That's not a decision we're going to make lightly," said one Justice Department official who spoke on condition of anonymity because he was not authorized to discuss internal deliberations. "There won't be a rush to judgment."

As prosecutors consider how to proceed in the wake of Dr. Ivins's death, federal officials say they are convinced that the increase in biodefense spending has brought real gains.

"Across the spectrum of biothreats we have expanded our capacity significantly," said Craig Vanderwagen, an assistant secretary at the [Department of Health and Human Services](#) who oversees the biodefense effort. Systems to detect an attack, investigate it and respond with drugs, vaccines and cleanup are all hugely improved, Dr. Vanderwagen said. "We can get pills in the mouth," he said.

Supporters of the spending increase cite studies that project apocalyptic tolls from a large-scale biological attack. One 2003 study led by a Stanford scholar, for instance, found that just two pounds of anthrax spores dropped over an American city could kill more than 100,000 people, even if [antibiotic](#) distribution began quickly.

And there is ample evidence that Qaeda leaders have shown interest in using biological weapons. Yazid Sufaat, a Malaysian-born Qaeda biochemist who trained in the United States, spent several months in 2001 trying to cultivate anthrax in Kandahar, Afghanistan.

Yet nearly seven years have passed without another biological attack, which has reduced the sense of urgency about the bioterrorist threat, even among some specialists.

"I think it's an important risk, but frankly I'm more concerned about bombs and guns, which are easily available and can be very destructive," said Randall S. Murch, a former F.B.I. scientist who has studied ways to trace a bioterrorist attack to its source.

And Congressional investigators recently warned that the proliferation of biodefense research laboratories presents real threats, too.

More people in more places handling toxic agents create more opportunities for an accident or intentional misuse by an insider, Keith Rhodes, an investigator with the [Government Accountability Office](#), said at a Congressional hearing in October.

Nationwide, an estimated 14,000 people work at about 400 laboratories and have permission to work with so-called select agents, which could be used in a bioterror attack, although not all are authorized to handle the most toxic substances, like anthrax. With so many people involved, there is insufficient federal oversight of biodefense facilities to make sure the laboratories follow security rules and report accidents that might threaten lab workers or lead to a release that might endanger the public, Mr. Rhodes testified.

In effect, the government may be providing the tools that a would-be terrorist could use, said Richard H. Ebright, a [Rutgers University](#) biochemist and vocal critic of the federal increase in biodefense spending.

“One well-placed student, technician or senior scientist — no cost, with the salary being provided courtesy of the U.S. taxpayer — and no risk, no difficulty,” Mr. Ebright said. “That is all it takes.”

Heightening the concern has been a string of accidents at certain new or expanded biodefense laboratories, several of which were not properly reported to the authorities when they took place.

One of the first accidents was in Dr. Ivins’s lab in late 2001, when he and his colleagues were aiding the federal investigation of the anthrax attacks and spores accidentally spilled outside the secure area. He failed to report the event to his superiors and instead tried to disinfect the contaminated areas, according to an Army report, which concluded, “Adherence to institute safety procedures by laboratory personnel is lax.”

In early 2006, at [Texas A&M University](#), a worker was infected with Brucella bacteria, a pathogen common in livestock that can cause flulike symptoms like [fever](#), fatigue and [joint pain](#), although it is rarely fatal. Later, three researchers at the same lab were infected with [Q fever](#), another cattle-borne disease that can cause serious but generally not fatal illness in humans.

After the two incidents belatedly became public, federal officials temporarily shut down the laboratory, citing a series of safety shortcomings, like unapproved experiments and staff members given access to the dangerous agents even though they had not been approved to handle them.

Apart from the insider threat, some public health experts believe money used to study obscure pathogens that are not a major disease problem could be better directed to study known killers like [influenza](#) or [AIDS](#).

Partly in response to this criticism, government officials now often talk about how strengthening the systems necessary to respond to a terror attack would also prepare the country for a natural epidemic like avian [flu](#).

As experts debate threats, nervous neighbors of expanding biodefense facilities have repeatedly rallied to try to defeat them. At Fort Detrick in Maryland, some residents have opposed the construction of a “national biodefense campus” slated to include a new building to house the [United States Army](#) Medical Research Institute of Infectious Diseases, where Dr. Ivins worked for many years before his suicide. Three other new laboratories on the campus will be operated by the Departments of Homeland Security, Health and Human Services, and Agriculture.

Proponents say clustering the laboratories on a military base will encourage safe scientific collaboration and save money through sharing of some facilities.

The buildup, and the related increase in research, has brought some important advances, federal officials argue, like promising new experimental vaccines or therapies to treat [smallpox](#) or Ebola virus.

The country now also has an expanded stockpile of vaccines and drugs to treat anyone exposed in a future attack, including enough antibiotics to treat more than 40 million Americans who might be exposed to anthrax and nearly five million bottles of a special potassium iodide liquid that helps protect infants from harm caused by nuclear fallout.

The deal for the \$877 million contract that included Dr. Ivins's vaccine collapsed in 2006 after the contractor, VaxGen of Brisbane, Calif., missed deadlines. VaxGen, in a licensing agreement with the Army to produce the vaccine, listed two patents held by Dr. Ivins and his colleagues. The possibility that Dr. Ivins could earn royalties from the patents was first reported by The Los Angeles Times.

Arthur Friedlander, one of Dr. Ivins's collaborators in the work that led to the anthrax vaccine patent in 2002, declined to comment when asked Saturday if he and others who had worked on the project stood to gain financially. He referred the question to an Army spokeswoman, who did not respond to a request for comment.

Dr. Ivins's lawyer, Mr. Kemp, said he could not comment on the notion that Dr. Ivins stood to earn royalties from vaccine patents because of attorney-client privilege.

VaxGen had agreed to pay royalties to the Army in exchange for the license to produce the new anthrax vaccine, according to federal financial disclosure it filed. And Army policy would allow the inventor to receive up to \$150,000 a year "of any royalties/payments resulting from commercial licensure."

It is unclear what the deal in this case might have been, or how the royalties might have been split among the five researchers whose names were on the patent.

Addressing the issue of bioterrorism spending, Michael Greenberger, director of the Center for Health and Homeland Security at the [University of Maryland](#), said he was convinced that the increase had left the nation better prepared for an attack, without creating significant new vulnerabilities.

"You can never say that the system is 100 percent secure," Mr. Greenberger said. "But the research ethic today is one of much greater discipline and focus on security than was true prior to the anthrax attacks."

Mr. Stupak, the congressman from Michigan, remains concerned.

"You have all these universities tripping over each other trying to be high-level biosecurity labs," he said. "What the nation gets is a very expensive bill, less security and a greater risk to the surrounding communities" ([New York Times, 2008](#)).

Title: Army Researcher's Alleged Anthrax Attack Raises Concerns Over Biodefense Labs

Date: August 4, 2008

Source: [Discovery](#)

Abstract: Last week's suicide by a government biodefense researcher who had been linked to the mailing of anthrax-laced letters in 2001 has raised thorny questions about whether the benefits of biodefense research outweigh the risks. Researcher Bruce Ivins had reportedly been informed by the FBI that he was about to be indicted for murder in the incident that killed five people and sent 17 more to the hospital.

Some observers point out that biodefense research has vastly increased since the terrorist attacks of 2001, and raise the question: Has the unprecedented boom in biodefense research made the country less secure by multiplying the places and people with access to dangerous germs? ... Nationwide, an estimated 14,000 people work at about 400 laboratories and have permission to work with so-called

select agents, which could be used in a bioterror attack, although not all are authorized to handle the most toxic substances, like anthrax.

Yet Ivins may have been motivated by the desire to spur a further increase of biodefense spending and research, former acquaintances said. One former senior official with Ivins' employer ... said he believed his former colleague wanted more attention — and resources — shifted to biological defense. "It had to have been a motive," said the former official, who suspects that Ivins was the culprit. "I don't think he ever intended to kill anybody. He just wanted to prove 'Look, this is possible.' He probably had no clue that it would aerosolize through those envelopes and kill those postal workers".

Ivins' biography is full of contradictions. He was a trusted researcher for the U.S. Army for 35 years and received a commendation from the Department of Defense, yet his therapist described him as a "revenge killer" who had been diagnosed by several psychiatrists as "a sociopathic, homicidal killer". The news of Ivins' apparent instability is likely to draw more attention to the possibility of "insider threats" at government and university labs. Officials may be compelled to further scrutinize researchers who work with select agents, [biological weapons expert Jonathan] Tucker says, adding that some questions have already been raised about "the adequacy of the screening process" used by the FBI to determine if a scientist should be allowed to work with a dangerous pathogen ([Discovery, 2008](#)).

Title: Government Biological Weapons Legislator: Anthrax Inside Job Cover Up Continuing

Date: August 22, 2008

Source: [Infowars](#)

Abstract: A former government biological weapons legislator appeared on the nationally syndicated Alex Jones show yesterday to discuss his detailed knowledge of the cover up of the 2001 anthrax attacks, which he is adamant were perpetrated by criminal elements of the US government in an attempt to foment a police state by killing off opposition to hardline post 9/11 legislation.

Dr Francis A. Boyle literally helped write the law with regards to terrorism, as he was responsible for drafting the Biological Weapons Anti-Terrorism Act of 1989 that was passed unanimously by both Houses of Congress and signed into law by President Bush Snr. Professor Boyle teaches international law at the University of Illinois, Champaign. He holds a Doctor of Law Magna Cum Laude as well as a Ph.D. in Political Science, both from Harvard University. He has also served on the Board of Directors of Amnesty International (1988-1992), and represented Bosnia- Herzegovina at the World Court.

In light of the latest developments with the FBI Anthrax investigation, the professor joined Alex Jones on air to re-cap the story that [made waves in late 2006](#). In October 2001 when the anthrax attacks took place and it was revealed that the spores were super weapons grade anthrax at one trillion spores per gram created with special electro-static treatment, Dr Boyle says it became obvious to him that there was nowhere it could have come from other than a government lab.

Dr Boyle proceeded to call a very high level official in the FBI who deals with terrorism and counter-terrorism, Spike Bowman, whom he had met at a terrorism conference at the University of Michigan Law School. Dr Boyle went through all the names, the contractors and the labs for Anthrax work with the FBI's Bowman. Bowman then informed Dr Boyle that the FBI was working with bio-lab Fort Detrick on the matter, to which he responded that Fort Detrick could really be the main problem.

"I told Mr Bowman in October of 2001 that the only people that had the capability to do this would be those individuals working at either United States Government labs, or private contractors and things of this nature, and it obviously seemed to me that this was U.S. government related." the University of Illinois Professor told listeners. It was documented at the time that the anthrax strain used was military grade. This was later widely reported in 2002 in publications such as the [New Scientist](#).

"At that point I assumed good faith on the part of the FBI in this investigation because it had killed several people, it had shut down the United States Congress, which I think was probably the greatest political

crime ever inflicted on our Republic in its history. But then I read that the FBI had authorized the destruction of the U.S. government's Ames strain collection." Boyle continued.

The destruction of the anthrax culture collection at Ames, IA., from which the Ft. Detrick lab got its pathogens for U.S. biowarfare programs, was blatant destruction of evidence as it meant that there was no way of finding out which strain was sent to who to develop the larger breed of anthrax used in the attacks. The trail of genetic evidence would have led directly back to a secret but officially-sponsored US government biowarfare program that was illegal and criminal.

"I knew a cover up was underway because legitimate scientific researchers could have taken that collection and used it to genetically re-construct precisely where and when and how the weapon came from. This was clearly a federal crime in its own right." Boyle stated.

The Professor explained that the motive behind the attacks was clear: "I believe the first anthrax attack was designed to ram through the PATRIOT ACT because Senators Daschle and Leahy were holding it up and once the anthrax occurred it rammed right through, indeed, on the renewal of the USA PATRIOT ACT, Senator Feingold was holding it up and all of sudden out of nowhere some white powdered substance appeared at one of the Senate office buildings, and all of a sudden the renewal of the PATRIOT ACT went through."

The evidence becomes more compelling when you [take into consideration](#) the fact that the White House was on anthrax fighting antibiotics weeks prior to the attacks. The professor stressed that a criminal cover up took place and that it is ongoing: "They are still doing it today, if you read the investigation, the press conference they heard the other day, it does not add up, if you read the article in today's New York Times it does not add up, it appears that the FBI set the investigation up by scientists in such a way that no one knew exactly what they were doing, they could not communicate with anyone else and only communicated with and took samples from the FBI."

"There is today in existence a stock pile of super weapons grade anthrax that is under the control of the original perpetrators of the anthrax attacks of October 2001 and that stock pile can and will be used again when their masters decide it would be politically convenient to scare and terrorize the American people." "They could launch another attack on us, including Congress, the Judiciary, the media." The professor warned. "I think what we need to do now is insist upon a full scale Congressional investigation, not some type of presidential commission cover up along the lines of the 9/11 report." Professor Boyle concluded.

Dr Boyle also covered the new evidence suggesting that Dr Ivins, the man the FBI named as the leading suspect in their investigation two weeks ago, has been used as a patsy in the cover up. "Ivins is only the latest dead microbiologist." Boyle stated, "You also have to tie into this the large numbers of dead microbiologists that have appeared since around the summer before these events, when the New York Times revealed the existence of the covert anthrax weapons programs run by the CIA, and that too is in the public record." Boyle stressed ([Infowars, 2008](#)).

Title: Senator Demands Answers On Government Anthrax Investigation Mystery

Date: September 6, 2011

Source: [Infowars](#)

Abstract: A ranking Republican Senator has written to the Justice Department demanding to know why it quickly retracted court papers that called into serious question a key pillar of the criminal case against Bruce Ivins, the FBI's prime suspect in the 2001 anthrax mail attacks.

Sen. Charles Grassley of Iowa, who has long questioned the legitimacy of the FBI's findings in the case, [wrote Attorney General Eric Holder and FBI Director Robert Mueller this week](#), regarding [a filing](#) by Justice Department civil lawyers in July that noted that the Army's biodefense center at Fort Detrick, Md., "did not have the specialized equipment in a containment laboratory that would be required to prepare the dried spore preparations that were used in the letters."

In other words, the filing noted that Ivins' lab, often referred to as the "hot suite", did not contain the equipment needed to turn liquid anthrax into the refined powder that ended up being mailed to members of the Senate and reporters in the fall of 2001.

Ivins, who was found dead in 2008 from an apparent suicide at the same time the government was about to indict him, was identified by the FBI's ["Amerithrax Task Force"](#) as the lone perpetrator of the attacks that killed five people and infected 17 others in the weeks immediately following 9/11.

The FBI based its entire case against Ivins on the fact that the microbiologist had access to the necessary equipment in the government lab at the U.S. Army Medical Research Institute of Infectious Diseases where he worked.

When the Justice Department realized that its recent court filing cast serious doubt on these claims, following media coverage, it did a 180 flip flop and [sent the court a "list of corrections"](#) to conform with the FBI's conclusion that Ivins did have equipment available to do the job.

In his letter, Sen Grassley notes that this turn of events "has produced a new set of questions regarding this unsolved crime."

"My concern is accentuated by the apparent contradiction of the DOJ court documents to the original FBI investigation, the subsequent attempt to retract that information and the federal judge's ruling that the DOJ Civil Division "show good cause" to justify a modification to the original court filing." Grassley writes.

"The DOJ original court filing seemingly eliminated the FBI's previous circumstantial evidence associated with Dr. Ivins without providing any additional insight as to the means and methodology he may have used to create the anthrax powder." The Senator adds.

Grassley, the most senior Republican on the Senate Judiciary Committee, also called for a briefing to "determine why it appears, at the least, that the right hand and left hand of the (Justice Department) do not know what the other is doing."

The July court filing was made as part of a government defense against a lawsuit brought by the family of Robert Stevens, Photo Editor of The Sun in Florida and the first victim who died as a result of the Anthrax attack. The court papers containing the Justice Department contradiction were discovered and [reported](#) by a researcher for the PBS program Frontline, which is working on a forthcoming documentary on the case with McClatchy Newspapers and ProPublica.

What the filing should have said, the department wrote in its retraction, was that while the Army lab did not have a lyophilizer, a freeze-drying machine, in the space where Dr. Ivins usually worked, there was a lyophilizer and other equipment in the building that he could have used to dry the anthrax into powder.

Even if this was the case, which is still highly questionable, it still significantly weakens the case against Ivins as the lone assailant, because it means he would have had to have access different areas of the building and use the equipment in those areas for some time without being noticed.

It also means that the fact that others who worked in the lab were not sickened becomes even more of a key indicator that Ivins did not prepare the anthrax spores as the FBI and the government has claimed he did.

Paul Kemp, Ivins' lead defense attorney, noted that the department's concession that the equipment wasn't available "is at direct variance to the assertions of the government on July 29, 2008," the day Ivins died, thus "invalidating one of the chief theories of their prosecution case."

This latest contradiction adds to the already voluminous unanswered questions and contradictory evidence surrounding the case.

Earlier this year a report produced by a panel of independent scientists [asserted that there was not enough scientific evidence](#) for the FBI to convict Ivins, vindicating those who have consistently pointed to a deeper conspiracy behind the case.

The \$1.1 million report, commissioned by the FBI and produced by [The National Academies of Sciences](#), concluded that the FBI overstated the science in its investigation into the microbiologist.

Senator Grassley writes in his letter to the Attorney general that this report coupled with the latest botched attempt by the government to tie up loose ends in the case is “particularly troubling” to him.

The report cast doubt on the supposed link between a flask of anthrax found in Ivins’ office and letters containing the bacterial spores that were mailed to NBC News, the New York Post, and the offices of then-Sen. Tom Daschle and Sen. Patrick Leahy.

“The scientific link between the letter material and flask number RMR-1029 is not as conclusive as stated in the DOJ Investigative Summary,” the 190 page report stated.

“Although the scientific evidence was supportive of a link between the letters and that flask, it did not definitively demonstrate such a relationship, for a number of reasons,” said Dr. David Relman, a bioterrorism expert at Stanford University School of Medicine who served as vice chair of the review committee. “Our overarching finding was that it is not possible to reach a definitive conclusion about the origins of the B. anthracis in the mailings based on the available scientific evidence alone.”

“This shows what we’ve been saying all along: that it was all supposition based on conjecture based on guesswork, without any proof whatsoever,” lawyer Paul Kemp told [The Washington Post](#).

“For years, the FBI has claimed scientific evidence for its conclusion that anthrax spores found in the letters were linked to the anthrax bacteria found in Dr. Ivins’s lab,” said Sen. Charles E. Grassley (R-Iowa). The report “shows that the science is not necessarily a slam-dunk. There are no more excuses for avoiding an independent review.”

Of course, there will not be an independent review any time in the near future because, as [Glenn Greenwald of Salon](#) has pointed out, all efforts to move in that direction have been aggressively blocked by the Obama Administration:

President Obama — in what I think is one his most indefensible acts — actually [threatened to veto the entire intelligence authorization bill](#) if it included a proposed bipartisan amendment (passed by the House) that would have [mandated an independent inquiry into the FBI’s anthrax investigation](#).

Indeed, the [veto threat issued by the Obama White House](#) was refreshingly (albeit unintentionally) candid about why it was so eager to block any independent inquiry: **“The commencement of a fresh investigation would undermine public confidence in the criminal investigation and unfairly cast doubt on its conclusions.”**

Ivins’ death provided a neat tie up to the case, which was officially closed last year by The Justice Department. However, a clear motive was never determined, and no one ever reported seeing Ivins prepare anthrax spores or mail the supposed letters.

Previous assertions by a former colleague and friend of Bruce Ivins, and the original suspect in the FBI’s investigation into the attacks, have also raised serious questions.

Shortly after Ivins' death, Dr. Ayaad Assaad, an Egyptian-born toxicologist at the U.S. Environmental Protection Agency, declared that Ivins did not kill himself and was not behind the attack at all.

Assaad made the comments in an interview with a local Fort Detrick newspaper in September 2008.

The [Frederick News Post](#) reported:

Assaad, who worked in a U.S. Army Medical Research Institute of Infectious Disease lab at Fort Detrick from 1989 to 1997 developing a vaccine for ricin, said in an interview Saturday he does not believe Ivins was guilty.

"He's a great man. He's honorable, sincere, honest and most important, he didn't kill five people and *he didn't kill himself*," Assaad told the newspaper.

Assaad knew Ivins well, not only were they colleagues but their four children were all classmates in Frederick.

Assaad was extensively questioned by the FBI on October 1, 2001, a fortnight after the first anthrax letters were mailed. It later emerged that the FBI's lead, a letter from an unidentified person who claimed Assaad was planning a biological terrorist attack, was false.

The mystery letter identified Assaad as a former USAMRIID microbiologist and also pinpointed his time at the U.S. Army Medical Research Institute of Chemical Defense at Aberdeen Proving

Ground in Harford County, indicating that whoever sent it had access to detailed army records.

The anonymous letter was sent shortly after 9/11 but before anyone knew about the anthrax-laced letters. On October 5, 2001, about 10 days after the anonymous letter was mailed, Robert Stevens became the first of five individuals to die from an anthrax infection, indicating that someone had wanted to frame Assaad for the attacks.

"This anthrax issue is part of a much bigger issue," Assaad also commented. "The roots of corruption are so deep in (USAMRIID), and this is the thing that the people in Frederick don't understand."

Former government biological weapons legislator [Dr Francis Boyle](#) shares Assaad's view that Ivins has been used as a patsy in a larger cover up.

"Ivins is only the latest dead microbiologist." Boyle has previously stated, "You also have to tie into this the large numbers of dead microbiologists that have appeared since around the summer before these events, when the New York Times revealed the existence of the covert anthrax weapons programs run by the CIA, and that too is in the public record."

In September 2007, Ivins sent an e-mail to himself, in which he said he knew of the identity of the anthrax killer, without actually stating who he believed it to be. It is not known why he did this. Prior to his death in 2008, he told friends that government agents were hounding him and his family ([Infowars, 2011](#)).

Title: Scientists' Analysis Disputes F.B.I. Closing Of Anthrax Case

Date: October 9, 2011

Source: [New York Times](#)

Abstract: A decade after wisps of anthrax sent through the mail killed 5 people, sickened 17 others and terrorized the nation, biologists and chemists still disagree on whether federal investigators got the right man and whether the [F.B.I.](#)'s long inquiry brushed aside important clues.

Now, three scientists argue that distinctive chemicals found in the dried anthrax spores — including the unexpected presence of tin — point to a high degree of manufacturing skill, contrary to federal reassurances that the attack germs were unsophisticated. The scientists make their case in a coming issue of the Journal of Bioterrorism & Biodefense.

F.B.I. documents reviewed by The New York Times show that bureau scientists focused on tin early in their eight-year investigation, calling it an “element of interest” and a potentially critical clue to the criminal case. They later [dropped their lengthy inquiry](#), never mentioned tin publicly and never offered any detailed account of how they thought the powder had been made.

The new paper raises the prospect — for the first time in a serious scientific forum — that the Army biodefense expert identified by the F.B.I. as the perpetrator, [Bruce E. Ivins](#), had help in obtaining his germ weapons or conceivably was innocent of the crime.

Both the chairwoman of a National Academy of Science panel that spent a year and a half reviewing the F.B.I.’s scientific work and the director of a new review by the [Government Accountability Office](#) said the paper raised important questions that should be addressed.

Alice P. Gast, president of Lehigh University and the head of the academy panel, said that the paper “points out connections that deserve further consideration.”

Dr. Gast, a chemical engineer, said the “chemical signatures” in the mailed anthrax and their potential value to the criminal investigation had not been fully explored. “It just wasn’t pursued as vigorously as the microbiology,” she said, alluding to the analysis of micro-organisms. She also noted that the academy panel suggested a full review of classified government research on anthrax, which her panel never saw.

In interviews, the three authors said their analysis suggested that the F.B.I. might have pursued the wrong suspect and that the case should be reopened. Their position may embolden calls for a national commission to investigate the first major bioterrorist attack in American history.

But other scientists who reviewed the paper said they thought the tin might be a random contaminant, not a clue to complex processing. And the Justice Department has not altered its conclusion that the deadly letters were mailed by Dr. Ivins, an Army anthrax specialist who worked at Fort Detrick, Md., and killed himself in 2008 as prosecutors prepared to charge him.

Dean Boyd, a Justice Department spokesman, said the paper provided “no evidence whatsoever that the spores used in the mailings were produced” at a location other than Fort Detrick. He said investigators believe Dr. Ivins grew and dried the anthrax spores himself.

“Speculation regarding certain characteristics of the spores is just that — speculation,” Mr. Boyd said. “We stand by our conclusion.”

The tin is surprising because it kills micro-organisms and is used in antibacterial products. The authors of the paper say its presence in the mailed anthrax suggests that the germs, after cultivation and drying, got a specialized silicon coating, with tin as a chemical catalyst. Such coatings, known in industry as microencapsulants, are common in the manufacture of drugs and other products.

“It indicates a very special processing, and expertise,” said Martin E. Hugh-Jones, lead author of the paper and a world authority on anthrax at Louisiana State University. The deadly germs sent through the mail to news organizations and two United States senators, he added, were “far more sophisticated than needed.”

In addition to Dr. Hugh-Jones, the authors of the new paper are Barbara Hatch Rosenberg, a biologist, and Stuart Jacobsen, a chemist; both have speculated publicly about the case and criticized the F.B.I. for years.

In 2008, days after Dr. Ivins's suicide, the bureau made public a [sweeping but circumstantial case](#) against him. Last year, the bureau formally closed the case, acknowledging that some scientific questions were unanswered but asserting that the evidence against Dr. Ivins was overwhelming.

Investigators found that the microbiologist had worked unusual late-night hours in his lab in the days before each of the two known anthrax mailings in September and October 2001; that he often mailed letters and packages under assumed names; that he had a history of homicidal threats and spoke of "Crazy Bruce" as a personality that did things he later could not remember.

Dr. Ivins had hidden from family and friends an obsession with a sorority — Kappa Kappa Gamma — with an office near the Princeton, N.J., mailbox where the letters were mailed. The F.B.I. recorded Dr. Ivins's speaking ambiguously to a friend that he did "not have any recollection" of mailing the letters, that he was "not a killer at heart" and that "I, in my right mind, wouldn't do it."

Yet no evidence directly tied Dr. Ivins to the crime. Some of the scientist's former colleagues have argued that he could not have made the anthrax and that investigators hounded a troubled man to death. They noted that the F.B.I. pursued several other suspects, most notoriously another former Army scientist, Dr. Steven J. Hatfill, whom the bureau eventually exonerated and paid a \$4.6 million legal settlement.

In its report last February, the [National Academy of Sciences](#) panel sharply criticized some of the F.B.I.'s scientific work, saying the genetic link between the attack anthrax and a supply in Dr. Ivins's lab was "not as conclusive" as the bureau asserted.

If the authors of the new paper are correct about the silicon-tin coating, it appears likely that Dr. Ivins could not have made the anthrax powder alone with the equipment he possessed, as the F.B.I. maintains. That would mean either that he got the powder from elsewhere or that he was not the perpetrator.

If Dr. Ivins did not make the powder, one conceivable source might be classified government research on anthrax, carried out for years by the military and the Central Intelligence Agency. Dr. Ivins had ties to several researchers who did such secret work.

The Government Accountability Office, the investigative arm of Congress, is conducting its own review of the anthrax evidence. Nancy Kingsbury, the official overseeing the project, said the agency had spoken with the paper's authors and judged that "their questions are reasonable."

Beyond the world of forensics, tin is a humdrum additive used to kill micro-organisms in products like paint, wood preservatives and even toothpaste. But microbiologists say that the nutrients and additives used to grow *Bacillus anthracis*, the anthrax bacterium, are typically free of tin.

So in late 2002, when the F.B.I. found significant quantities of tin in the mailed powders, it set out to find its source. By 2003, the bureau was calling tin "an element of interest" — echoing its terminology for human suspects — according to disclosures culled from 9,600 pages of F.B.I. documents by The Times.

Over the years, the bureau performed hundreds of tests to explore tin's use in microbiology and significance in the attack germs. It also hunted for clues to how the spores had become laced with silicon, which the United States had used decades ago as a coating in germ weapons. In 2005, scientists at an internal F.B.I. symposium called tin a possible fingerprint of the attack germs.

After that, the forensic clue disappeared from public discussion, except for a passing mention in a 2009 press release. “Although the chemical fingerprint of the spores is interesting,” the release said, “it was not relevant to the investigation.”

In the end, the F.B.I. — without alluding to its private tin labors — declared publicly that the attack germs had no special coating, saying that conclusion supported its finding that Dr. Ivins had grown and dried the spores alone, using standard equipment in his lab at Fort Detrick.

Several anthrax scientists who reviewed the new paper at the request of The Times said they believed it neglected the possibility that the tin and silicon were meaningless contaminants rather than sophisticated additives.

Johnathan L. Kiel, a retired Air Force scientist who worked on anthrax for many years, said that the spores “pick up everything” and that the silicon might be residue of a commercial product used on laboratory glassware to keep spores from sticking. He said tin might even be picked up from metal lab containers, though he has not tested that idea.

“It doesn’t have to be some super-secret process,” Dr. Kiel said. Other experts suggested that the tin might have come from anti-foam products, disinfectants or water.

The trouble with such conjecture is that the F.B.I. spent years testing for tin in microbiology lab supplies — and reported none, according to bureau documents.

Dr. Gast, the head of the National Academy of Sciences panel, noted that her group strongly recommended that future investigations of the attacks examine the government’s classified work on anthrax.

She called access to secret records “an important aspect of providing more clarity on what we know and what we don’t know” ([New York Times, 2011](#)).