Curriculum Vitae

Name: Paul J. Jackson

Current Position:

Senior Scientist, Global Security and Physical and Life Sciences Directorates, Lawrence Livermore National Laboratory – retired
Laboratory Fellow – Los Alamos National Laboratory – retired
Adjunct Professor, Middlebury Institute of International Studies at Monterey
Affiliate: Center for International Security and Cooperation, Stanford University

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Education:

B.S., Cellular Biology, University of Washington, Seattle, Washington (1974).
Ph.D., Molecular Biology, University of Utah, Salt Lake City, Utah (1981).

Fellowships and Awards:

Predoctoral Fellow, United States Public Health Service Molecular Biology Training Grant, University of Utah, 1978-1981.
Postdoctoral Fellowship, Director's Fellow, Los Alamos National Laboratory, 1981-1983.
Distinguished Patent of the Year Award, Los Alamos National Laboratory, 1990.
Los Alamos National Laboratory Inventor Award, 1990.
Los Alamos National Laboratory Inventor Award, 1991.
Los Alamos National Laboratory Inventor Award, 1992 (2 awards).
Los Alamos National Laboratory Inventor Award, 1994.
Laboratory Fellow, Los Alamos National Laboratory, 2001
Los Alamos National Laboratory Inventor Award, 2003.
Biosciences Gold Safety Award of the Year for "For Exemplary Efforts in Identifying and Eliminating Hazardous Biological Materials Received at LLNL."

Memberships:

American Society of Microbiology, member.
International Society for Infectious Diseases, member.

Positions/Responsibilities:

- June 2013 – March 2015: Visiting Scientist, Global Security Directorate, Lawrence Livermore National Laboratory
- March 2011 – June 2013: Senior Scientist, Global Security Directorate and Physical and Life Sciences Directorate, Lawrence Livermore National Laboratory.
- September 2011 – September 2012: Visiting Scholar, Center for International Security and Cooperation, Stanford University.
- August 2012 – Present: Adjunct Professor, Monterey Institute of International Studies.

- January 2012 – December 2015: Member, Editorial Board, Applied and Environmental Microbiology (an American Society of Microbiology journal).
- April 2011 - April 2015: Editor, Journal of Chemical and Environmental Defense.
- December 2012 – February 2013: Member, NIAID Special Emphasis Panel, "Omics" Technologies for Predictive Modeling of Infectious Diseases.
- January 2011 – January 2013: Member, UML National Advisory Board.
- October 2008 – March 2011: Division Leader, Bioscience and Biotechnology Division, Physical and Life Sciences Directorate, Lawrence Livermore National Laboratory.
- October 2007 – Present: Affiliate, Center for International Security and Cooperation, The Freeman Spogli Institute for International Studies, Stanford University.
- January 2007 – October 2008: Scientific Competency Leader – Host-Pathogen Biology Group, Chemical, Material and Life Sciences Directorate, LLNL
- October 2006 – January 2007: Acting Scientific Competency Leader (Group Leader) Host-Pathogen Biology Group, Chemical, Material and Life Sciences Directorate, LLNL
- June 2006 – March 2011: Select Agent Authorizing Individual, LLNL.
- February 2006 – September 2006: Acting Group Leader, Forensics, Defense Biology Division.
- June 2005 – June 2013: Derivative Classifier, Lawrence Livermore National Laboratory.
- May 2005 – February 2006: Senior Scientist, Defense Biology Division & Nonproliferation, Arms Control and International Security, Lawrence Livermore National Laboratory.
- July 2001 – Present: Laboratory Fellow, Los Alamos National Laboratory.
- September 2002 – November 2009: Invited member, FBI Scientific Working Group on Microbial Genetics and Forensics.
- August 2011 – October 2013: Steering Committee co-chair and lead organizer, for the Bacillus ACT 2013, the 12th International Conference on *Bacillus anthracis, B. cereus* and *B. thuringiensis* to be held September 2013 in Victoria, B.C., Canada.
- October 2005 – October 2013: Member of the steering committee for Bacillus ACT, the International Conference on *Bacillus anthracis, B. cereus* and *B. thuringiensis*, held every two years.
- December 1992 – September 2012: Adjunct Professor, Department of Biological Sciences, Northern Arizona University.
- June 1991 - Present: Adjunct Professor, Department of Agronomy and Soil Science, New Mexico State University.
- November 1998 – Present: Adjunct Professor, Department of Microbiology, Brigham Young University.
- July 2003. NIH Study Section, Development of new *B. anthracis* vaccines. Panel member.
- April 2003 – October 2005: Member of the organizing committee and technical host for the 6th International Conference on Anthrax held in Santa Fe in September 2005.
- February 2003 – May 2005: Invited member, LANL "Dot.com" team for Director's office.
- December 2001 – April 2003: Member of the organizing committee for the 5th International Conference on Anthrax and the 3rd International Workshop on *Bacillus cereus, Bacillus thuringiensis* and *Bacillus anthracis* held in Nice, France in March - April 2003.
- July 2002: NIH Study Section, Development of new *B. anthracis* vaccines. Panel member.
- April 2001: NIH Study Section, Preparedness against illegitimate use of bacterial pathogens. Panel member.

- October 1, 1999 – September 2002: Member, Biosciences Core Team for scientific direction (team disbanded in 2002).
- December 1, 1999 – April 2002; Thrust Leader, Biological Threat Reduction Thrust, Biosciences Division, Los Alamos National Laboratory.
- April 2000: NIH Study Section, Preparedness against illegitimate use of bacterial pathogens. Panel member.
- October 1999 – December 1999: Acting Group Leader, Biosciences Division B7, Los Alamos National Laboratory.
- October 1998 – October 1999: Group Leader, Environmental Molecular Biology Group, LS-7, Los Alamos National Laboratory.
- October 1997 – October 1999: Technical Staff Member, Project Leader, Environmental Molecular Biology Group, Los Alamos National Laboratory.
- May 1997 – June 20, 1999: Member, Laboratory Directed Research and Development Advisory Team, Biosciences Category, Los Alamos National Laboratory.
- October 1995 - October 1997: Group Leader, Environmental Molecular Biology Group, Los Alamos National Laboratory.
- April 1993 – May 2005: Authorized Derivative Classifier, Los Alamos National Laboratory.
- March 1993 - October 1994: Deputy Group Leader/Acting Group Leader, Genomics and Structural Biology Group, Los Alamos National Laboratory.
- July 1993 – March 2002: University of California Systemwide Biotechnology Research and Education Program, Executive Committee, Los Alamos National Laboratory Representative (UC President's Office Committee).
- April 1996 – March 2002: University of California Strategic Targets for Alliances in Research Program, Executive Committee, Los Alamos National Laboratory Representative (UC President's Office Committee).
- November 1996 – 2001: Adjunct Professor, Department of Epidemiology and Community Health, Louisiana State University School of Veterinary Medicine.
- November 1994 – October 2005: Adjunct Professor, Department of Cell and Molecular Biology, School of Medicine, University of New Mexico.
- January 1986 – May 2005: Los Alamos National Laboratory Representative, Steering Committee, Southwest Consortium for Plant Genetics and Water Resources (a USDA-funded consortium).
- January 1986 - Present: Institutional Biosafety Committee Member, New Mexico State University.
- November 1983 - May 1991: Adjunct Professor, Department of Biology, New Mexico State University.
- October 1990 - October 1993: Member, Laboratory Directed Research and Development Advisory Team, Chemistry Category, Los Alamos National Laboratory.
- March 1989 - 2005: Board of Advisors, Cell Robotics, Inc., Albuquerque, New Mexico. Provide consultation and help with testing and product application.
- June 1991 - September 1995: Los Alamos National Laboratory, University of California, Los Alamos, New Mexico. Technical Staff Member and Principal Investigator, Genomics and Structural Biology Group.
- June 1983 - May 1991: Los Alamos National Laboratory, University of California, Los Alamos New Mexico. Staff Member and Principal Investigator, Genetics Group.

- July 1981 – June 1983: Los Alamos National Laboratory, University of California, Los Alamos, New Mexico. Director's Postdoctoral Fellow, Genetics Group.

Publications:

Papers in Refereed Journals:

- D.E. Cress, P.J. Jackson, A. Kadouri, Y.E. Chu, K.G. Lark (1978) DNA replication in protoplasts and cell suspension cultures of soybean. Planta **143,** 241-253.
- P.J. Jackson, K.G. Lark (1982) Ribosomal RNA synthesis in soybean suspension cultures growing in different media. Plant Physiol. **69**, 234-239.
- P.J. Jackson, E.J. Roth, P.R. McClure, C.M. Naranjo (1984) Selection, isolation, and characterization of cadmium resistant suspension cell cultures of *Datura innoxia*. Plant Physiol. **75,** 914-918.
- J.K. Griffith, L.S. Cram, B.D. Crawford, P.J. Jackson, J. Schilling, R.T. Schimke, R.A. Walters, M.E. Wilder, J.H. Jett (1984) Construction and analysis of DNA sequence libraries from flow-sorted chromosomes: Practical and theoretical considerations. Nucl. Acid Res. **12,** 4019-4034.
- R.G. Alexander, E.C. Cocking, P.J. Jackson, J.H. Jett (1985) The characterization and isolation of plant heterokaryons by flow cytometry. Protoplasma **128,** 52-58.
- J.D. D'Anna, H.A. Crissman, P.J. Jackson, R.A. Tobey (1985) Time dependent changes in H1 content, H1 turnover, DNA elongation, and the survival of cells blocked in early S phase by hydroxyurea, aphidicolin, or 5-fluorodeoxyuridine. Biochemistry **24,** 5020-5026.
- M.A. Van Dilla, L.L. Deaven, K.L. Albright, N.A. Allen, M.R. Aubuchon, M.F. Bartholdi, N.C. Brown, E.W. Campbell, A.V. Carrano, L.M. Clark, L.S. Cram, B.D. Crawford, J.C. Fuscoe, J.W. Gray, C.E. Hildebrand, P.J. Jackson, J.H. Jett, J.L. Longmire, C.R. Lozes, M.L. Luedeman, J.C. Martin, J.C. McNinch, L.J. Meincke, M.L. Mendelsohn, J. Meyne, R.K. Moyzis, A.C. Munk, J. Perlman, D.C. Peters, A.J. Silva, B.J. Trask. (1986) Human chromosome-specific DNA libraries: Construction and availability. Nature Biotechnology **4,** 537-552.
- N.J. Robinson, P.J. Jackson (1986) "Metallothionein-like" metal complexes in angiosperms: Their structure and function. Physiol. Plant. **67,** 499-506.
- A.H. Doermann, A. Pao, P. Jackson (1987) Genetic control of capsid length in bacteriophage T4. II. Clustering of *ptg* mutations in gene 23. J. Virology **61,** 2823-2827.
- P.J. Jackson, C.J. Unkefer, J.A. Doolen, K. Watt, N.J. Robinson (1987) Poly(γ-glutamylcysteinyl)glycine: Its role in cadmium-resistance in plant cells. Proc. Natl. Acad. Sci. USA **84,** 6619-6623.
- N.J. Robinson, R.L. Ratliff, P.J. Anderson, E. Delhaize, J.M. Berger, P.J. Jackson (1988) Biosynthesis of poly(γ-glutamylcysteinyl)glycines in cadmium-tolerant *Datura innoxia* (Mill.) cells. Plant Sci. **56,** 197-204.
- E. Delhaize, P.J. Jackson, L.D. Lujan, N.J. Robinson (1989) Poly(γ–glutamylcysteinyl)glycine synthesis in *Datura innoxia* and binding with cadmium. Plant Physiol. **89,** 700-706.
- J.M. Berger, P.J. Jackson, N.J. Robinson, L.D. Lujan, E. Delhaize (1989) Precursor-product relationships of poly(γ-glutamylcysteinyl)glycine biosynthesis in *Datura innoxia*. Plant Cell Rep. **7,** 632-635.

- E. Delhaize, N.J. Robinson, P.J. Jackson (1989) Effects of cadmium on gene expression in cadmium-tolerant and cadmium-sensitive *Datura innoxia* cells. Plant Molec. Biol. **12,** 487-497.
- P.J. Jackson, A.P. Torres, E. Delhaize, E. Pack, S.L. Bolender (1990) The removal of Ba^{2+} from solutions using *Datura innoxia* Mill. suspension culture cells. J. Environ. Qual. **19**, 644-648.
- J. Conia, R.G. Alexander, M.E. Wilder, K.R. Richards, M.E. Rice, P.J. Jackson (1990) Reversible accumulation of plant suspension cell cultures in G_1 phase and subsequent synchronous traverse of the cell cycle. Plant Physiol. **94**, 1568-1574.
- G.H. Wikfors, A. Neeman, P.J. Jackson (1991) Cadmium-binding polypeptides in microalgal strains with laboratory-induced cadmium tolerance. Mar. Ecol-Prog. Ser. **79**, 163-170.
- H.-Y.D. Ke, E.R. Birnbaum, D.W. Darnall, P.J. Jackson, G.D. Rayson (1992) Investigation of Eu(III) binding sites on *Datura innoxia* using Eu(III) luminescence. Applied Spectroscopy **46**, 479-488.
- H.-Y.D. Ke, E.R. Birnbaum, D.W. Darnall, G.D. Rayson, P.J. Jackson (1992) Characterization of the carboxyl groups on *Datura innoxia* using Eu(III) Luminescence. Environ. Sci. Technol. **26**, 782-788.
- P.J. Jackson, E. Delhaize, C.R. Kuske (1992) Biosynthesis and metabolic roles of cadystins $(\gamma\text{-EC})_nG$ and their precursors in *Datura innoxia*. Plant and Soil **146**, 281-289.
- N.S. Nogar, R.C. Estler, J. Conia, P.J. Jackson (1992) Detection of copper in isolated plant cells by resonance ionization mass spectrometry. Analytical Chemistry **64**, 2972-2976
- N.J. Robinson, A.M. Tommey, C. Kuske, P.J. Jackson (1993) Plant Metallothioneins. Biochem. J.**295**, 1-10.
- P.J. Jackson, W.L. Anderson, J.G. DeWitt, H.Y.D. Ke, C.R. Kuske, R.M. Moncrief, G.D. Rayson (1993) Accumulation of toxic metal ions on cells walls of *Datura innoxia* suspension cell cultures. *In Vitro* Cell. Dev. Biol. **29P**, 220-226.
- H.-Y.D. Ke, G.D. Rayson, P.J. Jackson (1993) Luminescence study of Eu^{3+} binding to immobilized *Datura innoxia* biomaterial. Environ. Sci. Technol. **27** 2466-2471.
- C.R. Kuske, L.O. Ticknor, E. Guzmán, L.R. Gurley, J.G. Valdez, M.E. Thompson, P.J. Jackson (1994) Purification and characterization of *O*-acetylserine sulfhydrylase isoenzymes from *Datura innoxia*. J. Biol. Chem. **269**, 6223 - 6232.
- H.-Y.D. Ke, W.L. Anderson, R.M. Moncrief, G.D. Rayson, P.J. Jackson (1994) Luminescence studies of metal ion-binding sites on *Datura innoxia* biomaterial. Environ. Sci. Technol. **28**, 586-591.
- G.R. Rayson, D.W. Darnall, P.J. Jackson (1994) Recovery of toxic heavy metals from contaminated groundwaters. Radioactive Waste Management and Environmental Restoration. **18**, 99-108.
- R.M. Moncrief, W.L. Anderson, H-Y.D. Ke, G.D. Rayson, P.J. Jackson (1995) Impact of pH on binding metal ions by *Datura innoxia* biomass. Sep. Sci. Tech **30**, 2421-2428.
- L.R. Drake, S. Lin, G.D. Rayson, P.J. Jackson (1995) Chemical modification and metal-binding studies of *Datura innoxia*. Environ. Sci. Technol. **30**, 110-114.
- C.K. Kuske, K.K. Hill, E. Guzman, P.J. Jackson (1996) Subcellular location of *O*-acetylserine sulfhydrylase isoenzymes in cell cultures and plant tissues of *Datura innoxia* Mill. Plant Physiol. **112**, 659-667.

- P. Keim, A. Kalif, J. Schupp, K. Hill, S.E. Travis, K. Richmond, D.M. Adair, M. Hugh-Jones, C.R. Kuske, P. Jackson (1997) Molecular Evolution and diversity in *Bacillus anthracis* as detected by AFLP markers. J. Bacteriol. **179**, 818-824.
- P.J. Jackson, E.A. Walthers, A.S. Kalif, K.L. Richmond, D.M. Adair, K. K. Hill, C.R. Kuske, G.L. Andersen, K.H. Wilson, M.E. Hugh-Jones, and P. Keim (1997) Characterization of the variable number tandem repeats in *vrrA* from different *Bacillus anthracis* isolates. J. Appl. Environ. Micro. **63,** 1400-1405.
- M. Hugh-Jones, P. Jackson, P. Keim, A. Kalif and K. Smith (1997) Some epidemiologic characteristics of *Bacillus anthracis* revealed through AFLP markers. Epidémiol. Santé anim. **31-32,** 4181 – 4183.
- L.R. Drake, C.E. Hensman, S. Lin, G.D. Rayson, and P.J. Jackson (1997) Characterization of metal ion binding sites on *Datura innoxia* using lanthanide ion probe spectroscopy. Applied Spectroscopy **51,** 1476-1483.
- P.J. Jackson, M.E. Hugh-Jones, D.M. Adair, G. Green, K.K. Hill, C.R. Kuske, L.M. Grinberg, Faina A. Abramova, and Paul Keim. (1998) PCR analysis of tissue samples from the 1979 Sverdlovsk anthrax victims: The presence of multiple *Bacillus anthracis* strains in different victims. Proc. Natl. Acad. Sci. USA **95,** 1224-1229.
- B.M. Willardson, J.F. Wilkins, T.A. Rand, J.M. Schupp, P. Keim, K.K. Hill and P.J. Jackson (1998) Development and testing of a Bacterial Biosensor for Toluene-based Environmental Contaminants. J. Appl. Environ. Micro., Appl. Environ. Microbiol. **64,** 1006-1012.
- C.K. Kuske, K.L. Banton, D.L. Adorada, P.C. Stark, K.K. Hill and P.J. Jackson (1998) Small-scale DNA sample preparation method for field PCR detection of microbial cells and spores in soil. Appl. Environ. Micro. **64,** 2463-2472.
- L.B. Price, M. Hugh-Jones, P.J. Jackson, and P. Keim (1999) Genetic Diversity in the Protective Antigen Gene of *Bacillus anthracis*. J. Bacteriol. **181,** 2358-2362.
- N.M. Cirino. D. Sblattero, D. Allen, S.R. Peterson, J.D. Marks, P.J. Jackson, A. Bradbury, B.E. Lehnert (1999) Disruption of anthrax toxin binding with human antibodies and competitive inhibitors. Infection and Immunity **67**, 2957-2963.
- P. Keim, A. Klevytska, L.B. Price, J.M. Schupp, G. Zinser, R. Okinaka, K.K. Hill, P. Jackson, K.L. Smith, M.E. Hugh-Jones (1999) Molecular diversity in *Bacillus anthracis.* J. Appl. Microbiol. **87**, 215-217.
- P.J. Jackson, K.K. Hill, M.T. Laker, L.O. Ticknor, P. Keim (1999) Genetic comparison of *B. anthracis* and its close relatives using amplified fragment length polymorphism and polymerase chain reaction analysis. J. Appl. Microbiol. **87,** 263-269.
- R.T. Okinaka, K. Cloud, O. Hampton, A.R. Hoffmaster, K.K. Hill, P. Keim, T.M. Koehler, G. Lamke, S. Kumano, J. Mahillon, D. Manter, Y. Martinez, D. Ricke, R. Svensson, P.J. Jackson (1999) Sequence and organization of pX01, the large *Bacillus anthracis* plasmid harboring the anthrax toxin genes. J. Bacteriol. **181,** 6509-6515.
- R. Okinaka, K. Cloud, O. Hampton, A. Hoffmaster, K. Hill, P. Keim, T. Koehler, G. Lamke, S. Kumano, D. Manter Y. Martinez, D. Ricke, R. Svensson, P. Jackson (1999) Sequence, assembly and analysis of pX01 and pX02. J. Appl. Microbio. **87**, 261-262.
- D.M. Adair, P.L. Worsham, K.K. Hill, A.M. Klevytska, P.J. Jackson, A.M. Friedlander, P. Keim (2000) Diversity in a variable-number tandem repeat from *Yersinia pestis*. J. Clin. Microbiol. **38**, 1516-1519.

- P. Keim, L.B. Price, A.M. Klevytska, K.L. Smith, J.M. Schupp, R. Okinaka, P. Jackson, M.E. Hugh-Jones (2000) Multiple-locus variable-number tandem repeat analysis reveals genetic relationships within *Bacillus anthracis.* J. Bacteriol. **182,** 2928-2936.
- L.O. Ticknor, A.-B. Kolstø, K.K. Hill, P. Keim, M.T. Laker, M. Tonks, and P.J. Jackson (2001) Fluorescent Amplified Fragment Length Polymorphism Analysis of Norwegian Bacillus cereus and Bacillus thuringiensis Soil Isolates. Appl. Envir. Microbiol. **67,** 4863-4873.
- José A. Olivares, J.A., P.C. Stark, and P.J. Jackson (2002) Liquid Core Waveguide for Full Imaging of Electrophoretic Separations. Analytical Chemistry **74,**2008-2013.
- B.S. Huber, D.V. Allred, J.C. Carmen, D.D.Frame, D.G. Whiting, J.R. Cryan, T.R. Olson, P.J. Jackson, K. Hill, M.T. Laker, and R.A. Robison (2002) Random Amplified Polymorphic DNA and Amplified Fragment Length Polymorphism Analyses of *Pasteurella multocida* Isolates from Fatal Fowl Cholera Infections. J. Clin. Microbiol. **40,** 2163-2168.
- L. Radnedge, P.G. Agron, K.K. Hill, P.J. Jackson, L.O. Ticknor, P. Keim, and G.L. Andersen (2003) Genome differences that distinguish *Bacillus anthracis* from *Bacillus cereus* and *B. thuringiensis*. Appl. Envir. Microbiol. **69,** 2755-2764.
- P.J. Jackson and J. Trewhella (2003) Reducing the biological threat – detection, characterization and response. Los Alamos Science Vol. 28, pp. 173-181.
- K.K. Hill, L.O. Ticknor, R.T. Okinaka, M. Asay, H. Blair, K.A. Bliss, M. Laker, P.E. Pardington, A.P. Richardson, M. Tonks, D.J. Beecher, J.D. Kemp, A.-B. Kolstø, A.C. Lee Wong, P. Keim, and P.J. Jackson (2004)Fluorescent amplified fragment length polymorphism (AFLP) analysis of *Bacillus anthracis*, *Bacillus cereus*, and *Bacillus thuringiensis* isolates. Appl. Environ. Microbiol. **70,** 1068-1080**.**
- K. O'Donoghue, B. Lomniczi, B. McFerran, T.J. Conner, B. Seal, D. King, J. Banks, R. Manvell, P.S. White, K. Richmond, P. Jackson and M. Hugh-Jones (2004) Retrospective characterization of Newcastle Disease Virus Antrim '73 in relation to other epidemics past and present. Epidemiol. Infect. **132,** 357-368.
- C.S. Han, G. Xie, J.F. Challacombe, M.R. Altherr, S.S. Bhotika, D. Bruce, C.S. Campbell, M.L. Campbell, J. Chen, O. Chertkov, C. Cleland, M. Dimitrijevic, N.A. Doggett, J.J. Fawcett, T. Glavina, L.A. Goodwin, K.K. Hill, P. Hitchcock, P.J. Jackson, P. Keim, A. R. Kewalramani, J. Longmire, S. Lucas, S. Malfatti, K. McMurry, L. J. Meincke, M. Misra, B.L. Moseman, M. Mundt, A.C. Munk. R.T. Okinaka, B. Parson-Quintana, L. P. Reilly, P. Richardson, D. L. Robinson, E. Rubin, E. Saunders, R. Tapia, J. G. Tesmer, N. Thayer, L.S. Thompson, H. Tice, L.O. Ticknor, P.L. Wills, T.S. Brettin and P. Gilna (2006) Pathogenic sequence analysis of *Bacillus cereus* and *Bacillus thuringiensis* isolates closely related to *Bacillus anthracis*. J. Bacteriol. **188,** 3382-3390.
- A.R. Hoffmaster, K.K. Hill, J.E. Gee, C.K. Marston, B.K. De, T. Popovic, D. Sue, P.P. Wilkins, S.B. Avashia, R. Drumgoole, C.H. Helma, L.O. Ticknor, R.T. Okinaka and P.J. Jackson (2006) Characterization if *Bacillus cereus* isolates associated with fatal pneumonias: Isolates are closely related to *Bacillus anthracis* and harbor *B. anthracis* virulence genes. J. Clin. Micro. **44,** 3352-3360.
- K. K. Hill, T. J. Smith, C. H. Helma, L. O. Ticknor, B. T. Foley, R. T. Svensson, J. L. Brown, E. A. Johnson, L. A. Smith, R. T. Okinaka, P. J. Jackson, and J. D. Marks (2007) Genetic Diversity among Botulinum Neurotoxin-Producing Clostridial Strains. J. Bacteriol. **189,** 818-832.

- S.B. Avashia, W.S. Riggins, C. Lindley, A. Hoffmaster, R. Drumgoole, T. Nekomoto, P.J. Jackson, K.K. Hill, K. Williams, L. Lehman, M.C. Libal, P.P. Wilkins, J. Alexander, A. Tvaryanas, and T. Betz (2007) Fatal pneumonia among metalworkers caused by inhalation exposure to *Bacillus cereus* containing *Bacillus anthracis* toxin genes. Clin. Infect. Dis. **44,** 414-416.
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- Okinaka, R.T., M. Henrie, K.K. Hill, K.S. Lowery, M. Van Ert, T. Pearson, J. Schupp, L. Kenefic, J. Beaudry, S.A. Hofstadler, P.J. Jackson and P. Keim (2008) Single nucleotide polymorphism typing of *Bacillus anthracis* from Sverdlovsk Tissue. Emerging Infectious Diseases **14,** 653-656.
- Budowle, B., Schutzer, S.E., Morse, S.A., Martinez, K.F., Chakraborty, R., Marrone, B.L., Messenger, S.L., Murch, R.S., Jackson, P.J., Williamson, P., Harmon, R., Velsko, S.P. (2008) Criteria for Validation of Methods in Microbial Forensics. Appl. Environ. Microbiol. **74,** 5599-5607.
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  Accession Number: NC006578
  Definition: *Bacillus thuringiensis* serovar konkukian str. 97-27 plasmid pBT9727, complete sequence.
  Authors: Jackson, and others. (December 15, 2004)

- *GenBank*
  Accession Number: NC005957
  Definition: *Bacillus thuringiensis* serovar konkukian str. 97-27, complete genome.
  Authors: Brettin,T.S., Bruce, D., Challacombe, J.F., Gilna, P., Han, C., Hill, K., Hitchcock, P., Jackson, P., Keim, P., Longmire, J., Lucas, S. Okinaka, R., Richardson, P., Rubin, E. and Tice, H. (September 11, 2004)
- *GenBank*
  Accession Number: CP000001
  Definition: *Bacillus cereus* E33L, complete genome
  Authors: Brettin,T.S., Bruce, D., Challacombe, J.F., Gilna, P., Han, C., Hill, K., Hitchcock, P., Jackson, P., Keim, P., Longmire, J., Lucas, S., Okinaka, R., Richardson, P., Rubin, E. and Tice, H. (September 16, 2004)
- *GenBank*
  Accession Number: NC007104
  Definition: *Bacillus cereus* E33L plasmid pE33L5, complete sequence
  Authors: Brettin, T.S., Bruce, D., Challacombe, J.F., Gilna, P., Han, C., Hill, K., Hitchcock, P., Jackson, P., Keim, P., Longmire, J., Lucas, S., Okinaka, R., Richardson, P., Rubin, E. and Tice, H. (November 8, 2004)
- *GenBank*
  Accession Number: NC_007105
  Definition: *Bacillus cereus* E33L plasmid pE33L54, complete sequence
  Authors: Brettin, T.S., Bruce, D., Challacombe, J.F., Gilna, P., Han, C., Hill, K., Hitchcock, P., Jackson, P., Keim, P., Longmire, J., Lucas, S., Okinaka, R., Richardson, P., Rubin, E. and Tice, H. (June 8, 2005)
- *GenBank*
  Accession Number: CP000040
  Definition: *Bacillus cereus* E33L plasmid pE33L466, complete sequence
  Authors: Brettin, T.S., Bruce, D., Challacombe, J.F., Gilna, P., Han, C., Hill, K., Hitchcock, P., Jackson, P., Keim, P., Longmire, J., Lucas, S., Okinaka, R., Richardson, P., Rubin, E. and Tice, H. (June 9, 2005)
- *GenBank*
  Accession Number: NC007106
  Definition: *Bacillus cereus* E33L plasmid pE33L8, complete sequence
  Authors: Brettin, T.S., Bruce, D., Challacombe, J.F., Gilna, P., Han, C., Hill, K., Hitchcock, P., Jackson, P., Keim, P., Longmire, J., Lucas, S., Okinaka, R., Richardson, P., Rubin, E. and Tice, H. (June 9, 2005)
- *GenBank*
  Accession Number: NC007107
  Definition: *Bacillus cereus* E33L plasmid pE33L9, complete sequence
  Authors: Brettin, T.S., Bruce, D., Challacombe, J.F., Gilna, P., Han, C., Hill, K., Hitchcock, P., Jackson, P., Keim, P., Longmire, J., Lucas, S., Okinaka, R., Richardson, P., Rubin, E. and Tice, H. (June 9, 2005)
- *GenBank*
  Accession Number: EF428333
  Definition: *Burkholderia pseudomallei* isolate PHLS 83 BipB (bipB) and BipC (bipC) genes, complete cds.

Authors: Jackson,P.J., MacDonald,T.E. and Okinaka,R.T.

- *GenBank*
  Accession Number: EF428333
  Definition: *Burkholderia pseudomallei* isolate PHLS 83 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF428332
  Definition: *Burkholderia pseudomallei* isolate PHLS 91 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF428331
  Definition: *Burkholderia pseudomallei* isolate PHLS 73 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF428330
  Definition: *Burkholderia pseudomallei* isolate PHLS 110 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF428329
  Definition: *Burkholderia pseudomallei* isolate PHLS 79 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF428328
  Definition: *Burkholderia pseudomallei* isolate PHLS 40 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436254
  Definition: *Burkholderia pseudomallei* isolate K96243 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436253
  Definition: *Burkholderia pseudomallei* isolate S13 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436252
  Definition: *Burkholderia pseudomallei* isolate 668 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.

- *GenBank*
  Accession Number: EF436251
  Definition: *Burkholderia pseudomallei* isolate 406e BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436250
  Definition: *Burkholderia pseudomallei* isolate 1710b BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436249
  Definition: *Burkholderia pseudomallei* isolate 1710a BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436248
  Definition: *Burkholderia pseudomallei* isolate 1655 BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436247
  Definition: *Burkholderia pseudomallei* isolate 1106b BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436246
  Definition: *Burkholderia pseudomallei* isolate 1106a BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: EF436245
  Definition: *Burkholderia pseudomallei* isolate Pasteur BipB (bipB) and BipC (bipC) genes, complete cds
  Authors: Jackson, P.J., MacDonald, T.E. and Okinaka, R.T.
- *GenBank*
  Accession Number: NC_008600
  Definition: Bacillus thuringiensis str. Al Hakam, complete genome.
  Authors: Challacombe, J.F., Altherr, M.R., Xie, G., Bhotika, S.S., Brown, N., Bruce, D., Campbell, C.S., Campbell, M.L., Chen, J., Chertkov, O., Cleland, C., Dimitrijevic, M., Doggett, N.A., Fawcett, J.J., Glavina, T., Goodwin ,L.A., Green, L.D., Han, C.S., Hill, K.K., Hitchcock, P., Jackson, P.J., Keim, P., Kewalramani, A.R., Longmire, J., Lucas, S., Malfatti, S., Martinez, D., McMurry, K., Meincke, L.J., Misra, M., Moseman, B.L., Mundt, M., Munk, A.C., Okinaka, R.T., Parson-Quintana, B., Reilly, L.P., Richardson, P., Robinson, D.L., Saunders, E., Tapia, R., Tesmer, J.G., Thayer, N., Thompson, L.S., Tice, H., Ticknor, L.O., Wills, P.L., Gilna, P. and Brettin, T.S.

- *GenBank*
  Accession Number: NC_006578
  Definition: Bacillus thuringiensis serovar konkukian str. 97-27 plasmid pBT9727, complete sequence.
  Authors: Han, C.S., Xie, G., Challacombe, J.F., Altherr, M.R., Bhotika, S.S., Brown, N., Bruce, D., Campbell, C.S., Campbell, M.L., Chen, J., Chertkov, O., Cleland, C., Dimitrijevic, M., Doggett, N.A., Fawcett, J.J., Glavina, T., Goodwin, L.A., Green, L.D., Hill, K.K., Hitchcock, P., Jackson, P.J., Keim, P., Kewalramani, A.R., Longmire, J., Lucas, S., Malfatti, S., McMurry, K., Meincke, L.J., Misra, M., Moseman, B.L., Mundt, M., Munk, A.C., Okinaka, R.T., Parson-Quintana, B., Reilly, L.P., Richardson, P., Robinson, D.L., Rubin, E., Saunders, E., Tapia, R., Tesmer, J.G., Thayer, N., Thompson, L.S., Tice, H., Ticknor, L.O., Wills, P.L., Brettin, T.S. and Gilna, P.
- *GenBank*
  Accession Number: NC_006578
  Definition: *Bacillus thuringiensis* serovar konkukian str. 97-27 plasmid pBT9727, complete sequence.
  Authors: Han, C.S., Xie, G., Challacombe, J.F., Altherr, M.R., Bhotika, S.S., Brown, N., Bruce, D., Campbell, C.S., Campbell, M.L., Chen, J., Chertkov, O., Cleland, C., Dimitrijevic, M., Doggett,N.A., Fawcett, J.J., Glavina, T., Goodwin, L.A., Green, L.D., Hill, K.K., Hitchcock, P., Jackson, P.J., Keim, P., Kewalramani, A.R., Longmire, J., Lucas, S., Malfatti, S., McMurry, K., Meincke, L.J., Misra, M., Moseman, B.L., Mundt, M., Munk, A.C., Okinaka,R.T., Parson-Quintana, B., Reilly, L.P., Richardson, P., Robinson,D.L., Rubin, E., Saunders, E., Tapia, R., Tesmer ,J.G., Thayer,N., Thompson, L.S., Tice, H., Ticknor, L.O., Wills, P.L., Brettin, T.S. and Gilna, P.
- *GenBank*
  Accession Number: NC_006274
  Definition: *Bacillus cereus* E33L, complete genome.
  Authors: Han, C.S., Xie, G., Challacombe, J.F., Altherr, M.R., Bhotika, S.S., Brown, N., Bruce, D., Campbell, C.S., Campbell, M.L., Chen, J., Chertkov, O., Cleland, C., Dimitrijevic, M., Doggett, N.A., Fawcett, J.J., Glavina, T., Goodwin, L.A., Green, L.D., Hill, K.K., Hitchcock, P., Jackson, P.J., Keim, P., Kewalramani, A.R., Longmire, J., Lucas, S., Malfatti, S., McMurry, K., Meincke, L.J., Misra, M., Moseman, B.L., Mundt, M., Munk, A.C., Okinaka, R.T., Parson-Quintana, B., Reilly, L.P., Richardson, P., Robinson, D.L., Rubin, E., Saunders, E., Tapia, R., Tesmer, J.G., Thayer, N., Thompson, L.S., Tice, H., Ticknor, L.O., Wills, P.L., Brettin, T.S. and Gilna, P.
- *GenBank*
  Accession Number: NC_012473
  Definition: *Bacillus cereus* 03BB102 plasmid P03BB102_179, complete sequence.
  Authors: Dobson, R.J., Jackson, P., Munk, A.C. Brettin, T., Bruce, D. Detter, C., Tapia, R., Han, C., Sutton, G. and Sims, D.
- *GenBank*
  Accession Number: NC_012472
  Definition: *Bacillus cereus* 03BB102, complete genome.
  Authors: Dobson, R.J., Jackson, P., Munk, A.C. Brettin, T., Bruce, D. Detter, C., Tapia, R., Han, C., Sutton, G. and Sims, D.

Recent Abstracts:

- Jaing, C., Thissen, J., Wollard, J., Hinckley, A. and Jackson, P.J. (2011) Application of genotyping, microarray and sequencing technologies to detect biothrat agents from complex environmental samples. 9th ASM Biodefense and Emerging Diseases Research Meeting, February 2011, Washington, D.C.
- Thissen, J., Jaing, C., Vergez, L., Bourguet, F., McLoughlin, K., Mabery, S., and Jackson, P.J. (2011) Identification of SNPs responsible for antibiotic resistance in biothreat agents by DNA microarrays and Illumina sequencing. 9th ASM Biodefense and Emerging Diseases Research Meeting, February 2011, Washington, D.C.
- Jackson, P.J. and Coleman, M.A. (2011) Strategies using lytic proteins to decontaminate high value sites, materiel, personnel and surfaces contaminated with bacterial threat agents. DTRA-RD-CB Wide Area Anthracis Spores Decontamination Workshop, June 2011, Falls Church, VA.
- Kane, S., Jackson, P., Bourguet, F., and Campbell, C.G. (2011) Germination-lysis for wide-area decontamination of *Bacillus anthracis* spores. DTRA-RD-CB Wide Area Anthracis Spores Decontamination Workshop, June 2011, Falls Church, VA.
- Bourguet, F.A., Coleman, M.A., Hinz, A.K., Souza, B.E., and Jackson, P.J. (2011) Characterization of a novel, pathogen-specific lytic protein encoded by the *B. anthracis* genome – are potential means of destroying a pathogen encoded in its own genome? Bacillus ACT 2011, The International Conference on *Bacillus anthracis, B. cereus* and *B. thuringiensis*. August 2011, Brugge, Belgium.
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- Buhr, T., Young, A., Bensman, M., Minter, Z., Barnette, H., Kennihan, N., Johnson, C., Bohmke, M., Borgers-Klonkowski, E., Osborn, E., Avila, S., DePaola, M., Theys, A., Jackson, P.J., Cora-Laó, and Page, M. (2017) Hot, humid air decontamination of a C-130 aircraft contaminated with spores of two acrystalliferous *Bacillus thuringiensis* strains, surrogates for *Bacillus anthracis*. The International Conference on *Bacillus anthracis, B. cereus* and *B. thuringiensis*, October 2017, Victoria, BC, Canada.