

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

Address:

9600 Morgan Territory Road
Livermore, CA 94551

Telephone: (925) 447-4830

E-mail: pjjackson9600@gmail.com

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:

Predocctoral 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 Ba²⁺ 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 G₁ 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 (γ -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 Eu³⁺ 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. Trehwella (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 of *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.
- Challacombe, J.F., M.R. Altherr, G. Xie, Smriti S. Bhotikaş, N. Brown, 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, L.D. Green, C.S. Han, K.K. Hill, P. Hitchcock, P.J. Jackson, P. Keim, A. R. Kewalramani, J. Longmire, S. Lucas, S. Malfatti, D. Martinez, 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, P. Gilna, and T.S. Brettin (2007) The complete genome sequence of *Bacillus thuringiensis* Al Hakam. *J. Bacteriol.* **189**, 3680 – 3681.
- Macdonald, T.E., C.H. Helma, L.O. Ticknor, P.J. Jackson, R.T. Okinaka, L.A. Smith, T.J. Smith and K.K. Hill (2008) Differentiation of *Clostridium botulinum* serotype A strains by Multiple-Locus Variable-Number Tandem Repeat Analysis. *Appl. Environ. Microbiol.* **74**, 875-882.
- Druar, C., F. Yu, J.L. Barnes, R.T. Okinaka, N. Chantratita, S. Beg, C.W. Stratilo, A.J. Olive, G. Soltés, M.L. Russell, D. Limmathurotsakul, R.E. Norton, S.X. Ni, W.D. Picking, P.J. Jackson, D.I.H. Stewart, V. Tsvetnitsky, W.L. Picking, J.W. Cherwonogrodzky, N. Ketheesan, S.J. Peacock, E.J. Wiersma (2008) Evaluating *Burkholderia pseudomallei* Bip proteins as vaccines and Bip antibodies as detection agents. *FEMS Immunology & Medical Microbiology* **52**, 78-87.
- 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.
- Foster, J.T., G.J. Allan, A.P. Chan, R.D. Rabinowicz, J. Ravel, P.J. Jackson and P. Keim (2010) Single nucleotide polymorphisms for assessing genetic diversity in castor bean (*Ricinus communis*) *BMC Plant Biology* **10**, 13-23.
- Bourguet, F.A., Souza, B.E., Hinz, A.K., Coleman, M.A. and Jackson, P.J. (2012) Characterization of a novel lytic protein, AmpD BCZK2532, encoded by a *Bacillus cereus* E33L gene, as a *Bacillus anthracis* antimicrobial protein. *Appl. Environ. Microbiol.* **78**, 3025-3027.
- Kintzer, A.F., von Moltke, J., Sia, A.K., Cassou, C.A., Brown, M.J., Latoracca, N., Montgomery, N.K., Jackson, P.J., Williams, E.R., Raymond, K.N., Vance, R.E., and Krantz, B.A. (2013) Ferric-capsule polymers from *Bacillus anthracis* protect against anthrax toxin lethality. Submitted to *Science*.
- Be, N.A., Thissen, J.B., Gardner, S.N., McLoughlin, K.S., Fofanov, V.Y., Koshinsky, H., Ellingson, S.R., Brettin, T.S., Jackson, P.J., and Jaing, C. (2013) Detection of *Bacillus anthracis* DNA in complex soil and air samples using next-generation sequencing. *PLOS*

ONE **8**, e73455.

- Verce, M., Madrid, V., Gregory, S., Demir, Z., Singleton, M., Salazar, E., Jackson, P., Halden, R., and Verce, A. (2015) A long-term field of *in-situ* bioremediation in a fractured conglomerate trichloroethene source zone. *Bioremediation Journal* **19**, 18-31.
- Buhr, T., Young, A., Bensman, M., Minter, Z., Kennihan, N., Johnson, C., Bohmke, M., Borgers-Klonkowski, E., Osborn, E., Avila, S., Theys, A., and Jackson, P. (2016) Hot, humid air decontamination of a C-130 aircraft contaminated with spores of two acrySTALLIFEROUS *Bacillus thuringiensis* strains, surrogates for *Bacillus anthracis*. *J. Appl. Micro.* **120**, 1074-1084.
- Jaing, C.J., , Kevin S. McLoughlin, K.S., James B. Thissen, J.B., Shea N. Gardner, S.N., Adam Zemla, A., Vergez, L. Bourguet, F., Mabery, S., Fofanov, V., Koshinsky, H., and Jackson, P.J. (2016) Identification of novel genome-wide mutations in ciprofloxacin-resistant *F. tularensis* LVS using whole genome tiling arrays and next generation sequencing. *PLoS ONE* **11**(9), e0163458.
- Book Chapters, Symposium Proceedings:
- R.K. Moyzis, J. Bonnet, B.D. Crawford, M. Dani, P.J. Jackson, J.R. Wu, P.O.P. Ts'o. (1983) An Alternative View of Mammalian Repetitive DNA Sequence Organization. *In* "Gene Transfer and Cancer" (Mark Pearson, ed.), Raven Press, New York.
- C.E. Hildebrand, B.D. Crawford, M.D. Enger, B.B. Griffith, J.K. Griffith, J.L. Hanners, P.J. Jackson, J.L. Longmire, A.C. Munk, J.G. Tesmer, R.A. Walters (1983) Coordinate amplification of metallothionein I and II gene sequences in cadmium-resistant CHO variants. *UCLA Symp. Molec., Cell. Biology, Gene Expression*, pp. 467-479.
- P.J. Jackson, C.M. Naranjo, P.R. McClure, E.J. Roth (1985) The molecular response of cadmium resistant *Datura innoxia* cells to heavy metal stress. *In* "Cellular and Molecular Biology of Plant Stress." (J.L. Key, T. Kosuge, eds.). *UCLA Symposium on Molecular and Cellular Biology* **22**, 145-160, A.R. Liss, Inc., New York.
- N.J. Robinson, K. Barton, C.M. Naranjo, L.O. Sillerud, J. Trewhella, K. Watt, P.J. Jackson (1987) Characterization of metal binding peptides from cadmium resistant plant cells. *In* *Experientia Supplementum* **52**, (Metallothionein-II) Kagi JHR and Nordberg M, eds., Birkhäuser-Verlag, Basel, pp 323-327.
- P.J. Jackson, N.J. Robinson, E. Delhaize (1989) Cd-tolerance in plant cells: A comparison of biochemical and molecular properties of tolerant and sensitive cells. *In* "Metal Ion Homeostasis: Molecular Biology and Chemistry," (D. Winge, D. Hamer, eds.) **98**, pp. 337-346, A.R. Liss, New York.
- M.A. Van Dilla, N.A. Allen, A.V. Carrano, M. Christensen, P. De Jong, P.N. Dean, J.C. Fuscoe, J.W. Gray, C.R. Lozes, J.S. McNinch, M.L. Mendelsohn, J. Mullikin, O. Pederson, J. Perlman, D.C. Peters, A.J. Silva, B.J. Trask, G.J. Van Den Engh, L.L. Deaven, K.L. Albright, M.F. Bartholdi, N.C. Brown, E.W. Campbell, L.M. Clark, L.S. Cram, J.J. Fawcett, C.E. Hildebrand, P.J. Jackson, J.H. Jett, S. Kolla, J.L. Longmire, M.L. Leudemann, J. Meyne, L.J. Meincke, R.K. Moyzis, A.C. Munk (1989) The National Laboratory Gene Library Project. *In* "Flow Cytogenetics, " (J.W. Gray, ed.), Academic Press, pp. 257-274.
- P.J. Jackson, P.J. Langston-Unkefer, E. Delhaize, N.J. Robinson (1990) Mechanisms of trace metal tolerance in plants. *In* "Environmental Injury to Plants" (F.J. Katterman, ed.), Academic Press, New York, pp. 231-255.

- N.J. Robinson, E. Delhaize, W.P. Lindsay, J.M. Berger, P.J. Jackson (1990) Regulation of poly(γ -glutamylcysteinyl)glycine synthesis in *Datura innoxia* cell cultures. In "Sulfur Nutrition and Sulfur Assimilation in Higher Plants" (Rennenberg, *et al.*, ed.) SPB Academic Publishing, The Hague, pp. 235-240.
- P.J. Jackson, C.R. Kuske (1993) Glutathione-derived metal-binding polypeptides and metallothioneins. In "Iron Chelation in Plants and and Soil Microorganisms" (L.L. Barton and B.C. Hemming, eds). Academic Press, Orlando, pp. 157-175.
- P.J. Jackson, E. Delhaize, C.R. Kuske (1992) Biosynthesis and metabolic roles of cadystins (γ -EC)_nG and their precursors in *Datura innoxia*. In "Genetic Aspects of Plant Mineral Nutrition (R.J. Randall, et al., eds)., pp. 397-405.
- N.J. Robinson, P.E. Urwin, P.J. Robinson, P.J. Jackson (1994) Gene expression in relation to metal toxicity and tolerance. In "Stress Induced Gene Expression in Plants." (A.S. Basra, ed.), Harwood Academic Publishers, New York., pp 209 - 248.
- P.J. Jackson, J.G. DeWitt, K.K. Hill, C.R. Kuske and D.Y. Kim (1994) Plant sentinels and molecular probes that monitor environmental munitions contaminants. Proceedings of the Eighteenth Annual Army Environmental Technology Symposium, Williamsburg, Virginia, pp. 275-282.
- W.F. Mueller, G.W. Bedell, S. Shojaee, P.J. Jackson (1995) Bioremediation of TNT wastes by higher plants. Proceedings of the 10th Annual Conference on Hazardous Waste Research, Manhattan, KS, pp. 222-230.
- P.J. Jackson (1999) Biological Weapons: The Technology and Politics of Verification. In 1998 Sigma Xi Forum Proceedings: International Cooperation in Science and Technology, Sigma Xi, The Scientific Research Society, Inc., Research Triangle Park, NC. pp. 137-141.
- P.C.B. Turnbull, P.J. Jackson, K.K. Hill, P. Keim, A.-B. Kolstø and D.J. Beecher (2002) Longstanding taxonomic Enigmas within the '*Bacillus cereus* group' are on the verge of being resolved by far-reaching molecular developments: forecast on the possible outcome by an *ad hoc* team. In "Applications and Systematics of *Bacillus* and Relatives." (R. Berkeley, M. Heyndrickx, N. Logan and P. De Vos, eds.) Blackwell Scientific Ltd, Malden, MA, pp.23-36.
- P.J. Jackson (2010) The Use of Multiple Locus Variable Number Tandem Repeat (MLVA) and Single Nucleotide Polymorphism (SNP) Analyses to Study the Population Genetics of Pathogenic Bacteria In "Bacterial Population Genetics in Infectious Disease." (D.A. Robinson *et al.*, eds.) Wiley-Blackwell, Hoboken, NJ, pp 153-165.

Patents:

- U.S. patent No. 4,909,944, Issued March 20, 1990. Removal of metal ions from aqueous solutions.
- U.S. patent No. 4,969,995, Issued November 13, 1990. Removal of metal ions from aqueous solutions - apparatus for removing metal ions.
- U.S. patent No. 5,089,470, Issued February 19, 1992. Compositions containing poly(γ -glutamylcysteinyl)glycines.
- U.S. patent No. 5,120,441, Issued June 9, 1992. Method for removal of metal atoms and explosives from aqueous solution using suspended plant cells.
- U.S. patent No. 5,296,146, Issued March 22, 1994. Method for removal of explosives from aqueous solution using suspended plant cells.

- U.S. patent No. 6,329,156. Issued December 11, 2001. Method for screening inhibitors of the toxicity of *Bacillus anthracis*.
- U.S. patent No. 8,821,860 B2. Issued September 2, 2014. Targeted antimicrobials and related compositions, methods and systems.
- U.S. patent application submitted. Multi-locus repetitive DNA sequences for genotyping *Bacillus anthracis* and related bacteria.

Unclassified Government Technical Reports:

- C.R. Kuske, R.L. Lehndorf, P.J. Jackson (1995) Isolation, purification, and PCR amplification of DNA from soil. Report No. LA-UR-95-4267.
- C.R. Kuske, J.D. Busch, P.J. Jackson (1996) Environmental Sample Set I: Dugway Soil. ORD report.
- C.R. Kuske, K.L. Banton, K.K. Hill, J.D. Busch, P.J. Jackson (1996) Environmental Sample Set II: Six Samples. ORD report.
- P. Jackson, P. Keim, C. Kuske, B. Willardson (1996) Development and testing of biosensors that quantitatively and specifically detect organic contaminants. DOE Office of Science and Technical Information (OSTI). Report No. LA-UR-96-1928.
- S.M. Barns, K.K. Hill, P.J. Jackson, C.R. Kuske (1999) 16S ribosomal RNA sequence-based phylogeny of *Bacillus* species and the *B. cereus* group. DOE Office of Science and Technical Information (OSTI). Report No. LA-UR-99-5628.
- J.A. Morzinski, P.J. Jackson, R.R. Picard, T.M. Yoshida (2000) Procedures for collection and handling of forensic samples suspected of containing microbial pathogens or toxins. Hazardous Materials Response Unit, Federal Bureau of Investigation. Report No. LA-UR-00-4457.
- P.J. Jackson (2001) Biothreat Reduction Thrust Area for Bioscience Division. LA-UR-01-2700.
- R.T. Okinaka, R.T. Svensson, C.H. Helma, P.S. White, K.K. Hill, P. Meier, P.J. Jackson (2001) DNA sequencing and the analysis of microbial pathogens and their relatives. Report No. LA-UR-01-2733.
- J. Meyne, F.J. Uribe, P.S. White, L.D. Green, J.P. Nolan, L.B. Price, A.J. Vogler, P.S. Keim, P.J. Jackson (2001) Rapid detection of antibiotic resistance using SNP GAMMAArrays. Report No. LA-UR-01-2734.
- S.F. Delano, P.J. Jackson (2001) High-resolution genotyping of clostridium botulinum strains using amplified restriction fragment length polymorphism (AFLP) analysis. Report No. LA-UR-01-2846.
- J.A. Olivares, P.C Stark, P.J. Jackson (2001) Liquid core waveguide for full imaging of electrophoretic separations. Report No. LA-UR-01-3672.
- P.J. Jackson, J. Meyne, F.J. Uribe, and P.S. White (2001) Rapid detection of single nucleotide polymorphisms (SNPs) responsible for ciproflaxacin resistance in *B. anthracis*. Report No. LA-UR-01-4262.

- J.P. Nolan, L.A. Gallegos, S.W. Graves, P.S. White, P.J. Jackson, R.T. Okinaka
Microsphere-based DNA analysis. (2002) Report No. LA-UR-02-4568.
- R.T. Okinaka, P.J. Jackson, R.T. Svensson, K.K. Hill, P.S. White, P. S. M.A. Wolinsky, P.S. Keim (2002) SNP discovery and the molecular typing of microbial pathogens. Report No. LA-UR-02-4569.
- P.J. Jackson, F.J. Uribe, J. Meyne, J.A. Garcia, P.S. White, P.S. Keim, L.B. Price (2002)
Rapid PCR and single nucleotide polymorphism (SNP) detection of antibiotic resistance genes in *B. anthracis*. Report No. LA-UR-02-4572.
- P.J. Jackson, K.K. Hill, R.T. Okinaka, L.O. Ticknor (2002) Determining phylogenetic relationships among different threat agents and their closest relative using AFLP. Report No. LA-UR-02-4573.
- P.J. Jackson, Paul J. R.A. Robison, P.S. Keim (2002) Establishing an archive of threat pathogens and related microbes. Report No. LA-UR-02-4574.
- P.J. Jackson, R.T. Svensson, R.T. Okinaka, K.K. Hill, P.S. White, M.A. Wolinsky, P.S. Keim (2002) SNP discovery and the molecular typing of microbial pathogens. Report No. LA-UR-02-4653.
- L. Radnedge, P.G. Agron, K.K. Hill, P.J. Jackson, L.O. Ticknor, P.S. Keim, G.L. Andersen (2002) Genome differences that distinguish *Bacillus anthracis* from closely related *Bacillus cereus* and *Bacillus thuringiensis*. Report No. LA-UR-02-6859.
- N. Velappan, S. Burde, B.L. Marrone, P.J. Jackson (2002) Analysis of conserved and unique amplified fragment length polymorphisms (AFLPs) in a bacterial sub-group. Report No. LA-UR-02-7210.
- P.J. Jackson, L.O. Ticknor, R. Robison and P. Keim (2003) Developing automated Amplified Fragment Length Polymorphism Analysis to identify microbial species and strains. (submitted to DHS)
- P.J. Jackson, Paul J. E.L. Joyce, Jr. (2004) Development of an integrated influenza early warning system. DOE Office of Scientific and Technical Information (OSTI). Report No. LA-UR-04-3658.
- P.J. Jackson, C.R. Kuske and R.T. Okinaka (2005) LANL Signature Development. (submitted to DHS)
- P.J. Jackson and K.K. Hill (2009): Development of SNP assays to generate precise genetic signatures for mixed genotypes found in ricin populations (requested by the U.S. Dept. of Homeland Security Science and Technology Directorate). LLNL-TR-425036
- P.J. Jackson, C. Jaing, S. Gardner, K. McLoughlin, P. Chain, A. Hinckley, C. Strout, L. Vergez, J. Wollard and Y. Fofanov (2009) Report for the identification of mutations in antibiotic resistant isolates of *B. anthracis*, *Y. pestis*, and *F. tularensis* for the Department of Homeland Security (DHS).
- P.J. Jackson, C. Jaing, Gardner, K. McLoughlin, J.B. Thissen, P. Chain, A. Hinckley, L. Vergez, J. Wollard, L. Dugan, C. Strout and Y. Fofanov (2011) Final report for the identification of mutations in antibiotic-resistant isolates of *B. anthracis*, *Y. pestis*, *F.*

tularensis and *B. pseudomallei* for the Department of Homeland Security (DHS). (LLNL-TR-484934)

- C. Jaing, P.J. Jackson, J. Thissen, J. Wollard, S. Gardner, K. McLoughlin, N. Bulsara, V. Fofanov, H. Koshinski, S. Ellington, L. Houser, and T. Brettin (2012) A comprehensive evaluation of the current genomic technologies including genotyping, TaqMan PCR, multiple locus variable tandem repeat analysis (MLVA), microarray and high throughput DNA sequencing in the analysis of biothreat agents from complex environmental samples for the Department of Homeland Security (DHS). (LLNL-TR-516491)

Electronic publications:

- *GenBank*
Accession Number: X55064
Definition: Chinese hamster metallothionein I gene.
Authors: Grady, D.L., Hildebrand, C.E., Jackson, P.J., Walters, R.A. and Moyzis, R.K. (October 24, 1990)
- *GenBank*
Accession Number: X55065
Definition: Chinese hamster metallothionein II gene.
Authors: Grady, D.L., Hildebrand, C.E., Jackson, P.J., Walters, R.A. and Moyzis, R.K. (October 24, 1990)
- *GenBank*
Accession Number: U63964
Definition: *Bacillus anthracis* strain W-21 *vrrA* gene, partial cds.
Authors: Hill, K.K. and Jackson, P.J. (July 14, 1996)
- *GenBank*
Accession Number: U63965
Definition: *Bacillus anthracis* strain B6273/93 *vrrA* gene, partial cds.
Authors: Hill, K.K. and Jackson, P.J. (July 14, 1996)
- *GenBank*
Accession Number: U63966
Definition: *Bacillus anthracis* strain Ames *vrrA* gene, partial cds.
Authors: Hill, K.K. and Jackson, P.J. (July 14, 1996)
- *GenBank*
Accession Number: U63967
Definition: *Bacillus anthracis* strain C93022281 *vrrA* gene, partial cds.
Authors: Hill, K.K. and Jackson, P.J. (July 14, 1996)
- *GenBank*
Accession Number: U63968
Definition: *Bacillus anthracis* strain Vollum *vrrA* gene, partial cds.
Authors: Hill, K.K. and Jackson, P.J. (July 14, 1996)
- *GenBank*
Accession Number: NC001496
Definition: *Bacillus anthracis* virulence plasmid pXO1, complete sequence.

Authors: Okinaka, R.T., Cloud, K., Hampton, O., Hoffmaster, A.R., Hill, K.K., Keim, P., Koehler, T.M., Lamke, G., Kumano, S., Mahillon, J., Manter, D., Martinez, Y., Ricke, D., Svensson, R., and Jackson, P.J. (May 14, 1998)

- *GenBank*
Accession Number: AF167309
Definition: *Yersinia pestis* strain Pestoides F V antigen (icrV) gene, complete cds.
Authors: Hill, K.K. and Jackson, P.J. (July 8, 1999)
- *GenBank*
Accession Number: AF167310
Definition: *Yersinia pestis* strain Angola V antigen (icrV) gene, complete cds.
Authors: Hill, K.K. and Jackson, P.J. (July 8, 1999)
- *GenBank*
Accession Number: AF188935
Definition: *Bacillus anthracis* plasmid pXO2, complete sequence.
Authors: Okinaka, R.T., Cloud, K., Hampton, O., Hill, K.K., Keim, P., Lamke, G., Kumano, S., Manter, D., Martinez, Y., Svensson, R., Tatum, L.R., Brown, A.E. and Jackson, P.J. (November 1, 1999)
- *GenBank*
Accession Number: AF290545
Definition: *Bacillus thuringiensis* strain ATCC10792 16S ribosomal RNA gene, partial sequence.
Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)
GenBank
Accession Number: AF290546
Definition: *Bacillus cereus* strain ATCC11778 16S ribosomal RNA gene, partial sequence.
Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)
GenBank
Accession Number: AF290547
Definition: *Bacillus cereus* strain ATCC14579 16S ribosomal RNA gene, partial sequence.
Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)
- *GenBank*
Accession Number: AF290548
Definition: *Bacillus cereus* strain ATCC31293 16S ribosomal RNA gene, partial sequence.
Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)
GenBank
Accession Number: AF290549
Definition: *Bacillus thuringiensis* strain ATCC33679 16S ribosomal RNA gene, partial sequence.
Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)
- *GenBank*
Accession Number: AF290550
Definition: *Bacillus cereus* strain ATCC43881 16S ribosomal RNA gene, partial sequence.
Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)
GenBank
Accession Number: AF290551
Definition: *Bacillus cereus* strain ATCC53522 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

GenBank

Accession Number: AF290552

Definition: *Bacillus anthracis* strain Sterne 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

GenBank

Accession Number: AF290553

Definition: *Bacillus anthracis* strain Vollum 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF290554

Definition: *Bacillus cereus* strain AH 521 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

GenBank

Accession Number: AF290555

Definition: *Bacillus cereus* strain AH 527 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF290556

Definition: *Bacillus* sp. AH 533 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF290557

Definition: *Bacillus* sp. AH 540 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF290558

Definition: *Bacillus* sp. AH 628 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

GenBank

Accession Number: AF290559

Definition: *Bacillus* sp. AH 648 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF290560

Definition: *Bacillus* sp. AH 665 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF290561

Definition: *Bacillus* sp. AH 678 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF290562

Definition: *Bacillus* sp. AH 526 16S ribosomal RNA gene, partial sequence.

Authors: Hill, K.K. and Jackson, P.J. (July 28, 2000)

- *GenBank*

Accession Number: AF306778

Definition: *Bacillus anthracis* protective antigen (*pag*) gene, complete sequence.

Authors: Price, L.B., Hugh-Jones, M., Jackson, P.J., and Keim, P. (September 20, 2000)

- *GenBank*

Accession Number: AF306779

Definition: *Bacillus anthracis* isolate 28 protective antigen (*pag*) gene, complete sequence.

Authors: Price, L.B., Hugh-Jones, M., Jackson, P.J., and Keim, P. (September 20, 2000)

- *GenBank*

Accession Number: AF306780

Definition: *Bacillus anthracis* isolate BA1035 protective antigen (*pag*) gene, complete sequence.

Authors: Price, L.B., Hugh-Jones, M., Jackson, P.J., and Keim, P. (September 20, 2000)

- *GenBank*

Accession Number: AF306781

Definition: *Bacillus anthracis* isolate 33 protective antigen (*pag*) gene, complete sequence.

Authors: Price, L.B., Hugh-Jones, M., Jackson, P.J., and Keim, P. (September 20, 2000)

- *GenBank*

Accession Number: AF306782

Definition: *Bacillus anthracis* plasmid pX01 protective antigen (*pag*) gene, complete sequence.

Authors: Price, L.B., Hugh-Jones, M., Jackson, P.J., and Keim, P. (September 20, 2000)

- *GenBank*

Accession Number: AF306783

Definition: *Bacillus anthracis* isolate BA1024 protective antigen (*pag*) gene, complete cds.

Authors: Price, L.B., Hugh-Jones, M., Jackson, P.J. and Keim, P. (September 20, 2000)

- *Genbank*

Accession Number: NC_002146

Definition: Sequence, assembly and analysis of pX01 and pX02

Authors: Okinaka, R., Cloud, K., Hampton, O., Hoffmaster, A., Hill, K., Keim, P., Koehler, T., Lamke, G., Kumano, S., Manter, D., Martinez, Y., Ricke, D., Svensson, R. and Jackson, P. (October 24, 2000)

- *GenBank*

Accession Number: AR366268

Definition: Sequence 1 from patent US 6329156.

Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)

- *GenBank*

Accession Number: AR366269

Definition: Sequence 2 from patent US 6329156.

Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)

- *GenBank*

Accession Number: AR366270

Definition: Sequence 3 from patent US 6329156.

Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)

- *GenBank*

Accession Number: AR366271

Definition: Sequence 4 from patent US 6329156.

- Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
- *GenBank*
Accession Number: AR366272
Definition: Sequence 5 from patent US 6329156.
Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
 - *GenBank*
Accession Number: AR366273
Definition: Sequence 6 from patent US 6329156.
Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
 - *GenBank*
Accession Number: AR366274
Definition: Sequence 7 from patent US 6329156.
Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
 - *GenBank*
Accession Number: AR366275
Definition: Sequence 9 from patent US 6329156.
Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
 - *GenBank*
Accession Number: AR366276
Definition: Sequence 10 from patent US 6329156.
Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
 - *GenBank*
Accession Number: AR366277
Definition: Sequence 11 from patent US 6329156.
Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
 - *GenBank*
Accession Number: AR366278
Definition: Sequence 12 from patent US 6329156.
Authors: Cirino, N.M., Jackson, P.J. and Lehnert, B.E. (December 11, 2001)
 - *GenBank*
Accession Number: NC005945
Definition: *Bacillus anthracis* str. Sterne, 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. (January 12, 2004)
 - *GenBank*
Accession Number: AE017355
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. (June 7, 2004)
 - *GenBank*
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 bioterror 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 bioterror 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.
- Jackson, P.J., Bourguet, F.A., Souza, B.E., Hinz, A.K., and Coleman, M.A. (2011) Novel pathogen-specific lytic proteins encoded by the pathogen's own genome for decontamination. The Chemical and Biological Defense Science and Technology (CBD S&T), November 2011, Las Vegas, NV.
- Brown-Driver, V., Montgomery, K., Vanier, G., Nelson, K., Shaw, V.K.J., Jackson, P.J. (2012) Broad spectrum activity of novel, dual targeting inhibitors of bacterial DNA Gyrase and Topoisomerase IV against biodefense pathogens. 52nd ICAAC, September 2012, San Francisco, CA.
- Kintzer, A.F., von Moltke, J., Sia, A.K., Cassou, C.A., Brown, M.J., Latorraca, N., Montgomery, N.K., Jackson, P.J., Williams, E.R., Raymond, K.N., Vance, R.E., Krantz, B.A., (2013) Ferric-capsule polymers from *Bacillus anthracis* protect against anthrax toxin lethality. The International Conference on *Bacillus anthracis*, *B. cereus* and *B. thuringiensis*. September 2013, Victoria, BC, Canada.
- Be, N., Thissen, J., Gardner, S., McLoughlin, D., Fofanov, V., Koshinsky, H., Ellingson, S., Brettin, T., Jackson, P.J., Jaing, C. (2013) Detection of *Bacillus anthracis* DNA in environmental samples by next-generation sequencing. The International Conference on *Bacillus anthracis*, *B. cereus* and *B. thuringiensis*. September 2013, Victoria, BC, Canada.
- Bourguet, F.A., Wollard, J.R., Coleman, M.A., Jackson, P.J. (2013) Genome-encoded *Bacillus cereus* E33L AmpD displays lytic properties against *Bacillus anthracis*. The International Conference on *Bacillus anthracis*, *B. cereus* and *B. thuringiensis*. September 2013, Victoria, BC, Canada.
- Page, M., Arnett, C., Ginsberg, M., Chappell, M., Lao, M.C., Boyd, A., Dordick, J., Kane, R., Paskaleva, E., Buhr, T. Jackson, P., Schofield, D., Ozkan, E., Derksen, R., and Calfee, W.

(2014) Reducing the logistics of wide area decon. DTRA/JSTO Chemical and Biological Defense Science and Technology Conference, St. Louis, MO.

- Buhr, T., Young, A.A., McPherson, D., Minter, Z.A., Johnson, C., Kennihan, N., DePaola, M., Jackson, P., Bishop, A., Cote, C. and Page, M. (2014) Surrogate selection for *Bacillus anthracis* spores. DTRA/JSTO Chemical and Biological Defense Science and Technology Conference, St. Louis, MO.
- Page, M., Lao, M.C., Boyd, A., Arnett, C., Jackson, P.J., Bourguet, F., Dordick, J., Kane, R., Paskaleva, E., Buhr, T., Young, A. (2014) Releaqnt environment testing of cell lytic enzymes. Annual DTRA Enzymes Colloquium. September 2014.
- Buhr, T. A. Young, D. McPherson, Z. Minter, C. Johnson, N. Kennihan, P. Jackson, A. Bishop, C. Cote, S. Welkos, and M. Page (2015) Surrogate Selection for *Bacillus anthracis* Spores. DTRA S&T conference, St. Louis, MO.
- Jackson, P.J. (2014) Mitigating the Bioterrorism Threat by Applying Pathogen and Laboratory Security Measures at Public Institutions. Biosecurity and United Nations Security Council Resolution 1450 Workshop at the International Centre for Genetic Engineering and Biotechnology, New Delhi, India.
- Jackson, P.J. (2014) Microbial forensics – its modern history, its application to the solving of the U.S. Amerithrax case, and its continuing development. Biosecurity and United Nations Security Council Resolution 1450 Workshop at the International Centre for Genetic Engineering and Biotechnology, New Delhi, India.
- 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.