

Claire A. Rinehart, Ph.D.

Department of Biology, Ogden College of Science & Engineering
Western Kentucky University, Bowling Green, KY 42101

Professional Preparation

Brigham Young University	Microbiology	BS	1977
Brigham Young University	Botany	M.S.	1979
University of Georgia	Botany	Ph.D.	1984
University of Wisconsin-Madison	Virology		1984-1988

Professional Appointments

Western Kentucky University; August 2008 – Present; Professor; Department of Biology

Western Kentucky University; August 1994 – 2008; Associate Professor; Department of Biology

Western Kentucky University; August 1988 – August 1994; Assistant Professor; Department of Biology

University of Wisconsin-Madison; January 1987 – August 1988; Research Associate; Institute for Molecular Virology

University of Wisconsin-Madison; January 1984 – January 1987; Postdoctoral Fellow; Institute for Molecular Virology

Publications (in last eight years) (* student authors)

- Pope, W.H., Bowman, C.A., Russell, D.A., Jacobs-Sera, D., Asai, D.J., Cresawn, S.G., Jacobs, W.R., Hendrix, R.W., Lawrence, J.G., Hatful, G.F., Science Education Alliance Phage Hunters Advancing Genomics and Evolutionary Science, Phage Hunters Integrating Research and Education, and Mycobacterial Genetics Course. (2015) “Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity. eLife. 2015; 4: e06416. Doi <http://dx.doi.org/10.7554/eLife.06416.001> (Role, Supporting Author)
- Pope W.H., Anders K.R., Baird M., Bowman C.A., Boyle M.M., Broussard G.W., Chow T., Clase K.L., Cooper S., Cornely K.A., Dejong R.J., Delesalle V.A., Deng L., Dunbar D., Edgington N.P., Ferreira C.M., Hafer K.W., Hartzog G.A., Hatherill J.R., Hughes L.E., Ipapo K., Krukoni G.P., Meier C.G., Monti D.L., Olm M.R., Page S.T., Peebles C.L., Rinehart C.A., Rubin M.R., Russell D.A., Sanders E.R., Schoer M., Shaffer C.D., Wherley J., Vazquez E., Yuan H., Zhang D., Cresawn S.G., Jacobs-Sera D., Hendrix R.W., Hatfull G.F. (2014) “Cluster M mycobacteriophages Bongo, PegLeg, and Rey with unusually large repertoires of tRNA isotypes.” J. Virol. 88:March 2014.
- *Forbes-Stoval, J., *Howton, J., Young, M., *Davis, G., *Chandler, T., Kessler, B., Rinehart, C.A., Jacobshagen, S. (2013) “Chlamydomonas reinhardtii strain CC-124 is highly sensitive to blue light in addition to green and red light in resetting its circadian clock, with the blue-light photoreceptor plant cryptochrome likely acting as negative modulator.” Plant Physiol Biochem. 2013 Dec 12;75C:14-23.
- *Kapadia, Chiraag, Rinehart, Claire A. (2013) “Ab Initio prediction of

mycobacteriophages protein structure and function.” BMC Bioinformatics 14,(Suppl 17):A10.

- *Gill, Ethan S., Rinehart, Claire A. (2013) “Comparison of codon usage in mycobacteriophages with and without tRNAs in their genomes.” .” BMC Bioinformatics 14,(Suppl 17):A9.
- *Parrish, Miranda L., Rinehart, Claire A. (2013) “Correlation of geographical distribution of mycobacteriophages with genomic clusters and genome distance.” .” BMC Bioinformatics 14,(Suppl 17):A8.
- *Rajandinakaran, Gopinath, Sun, Huifang, Rinehart, Claire, Rouchka, Eric, and Smith, Michael (2012) “Regulation of cell proliferation and apoptosis by growth hormone during zebrafish auditory hair cell regeneration.” .” BMC Bioinformatics 13,(Suppl 12):A3.
- Van Rechem C., Black J.C., Abbas T., Allen A., Rinehart C.A., Yuan G.C., Dutta A., Whetstine J.R. (2011) “The SKP1-Cul1-F-box and leucine-rich repeat protein 4 (SCF-FbxL4) ubiquitin ligase regulates lysine demethylase 4A (KDM4A)/Jumonji domain-containing 2A (JMJD2A) protein.” J Biol Chem. 2011 Sep 2; 286(35):30462-70.
- Black, J.C., Allen, A., Van Rechem, C., Forbes, E., Longworth, M., Tschöp, K., Rinehart, C., Quiton, J., Walsh, R., Smallwood, A., Dyson, N.J., Whetstine, J.R. (2010) Conserved antagonism between JMJD2A/KDM4A and HP1 γ during cell cycle progression. Mol Cell. 2010 Dec 10;40(5):736-48.
- *Anyanwu, E., *Cole, K., *Driver, K., *Falcone, A., *Farnsworth, E., *Howard, B., *Howard, B., *Howard, C., King, R.A., *Olberding, J., *Perkins, M., Rinehart, C.A., *Sayre, H., *Scaff, T., *Schrader, S., *Tamarapu Parthasarathy, P., *Tope, C. (2010) “Sequence and annotation of the Wizrd007 mycobacterium phage genome.” BMC Bioinformatics 11(Suppl 4): P15.
- *Gaskill, C., *Forbes-Stovall, J., Young, M., Kessler, W.B., Rinehart, C.A., Jacobshagen, S.H. (2010) “Improved automated monitoring and new analysis algorithm for circadian phototaxis rhythms in Chlamydomonas.” Plant Physiology and Biochemistry 2010; 48:239-246.
- Jacobshagen, S., Kessler, B., Rinehart, C.A., (2008) “Minimal Number of Circadian Regulatory mechanisms that are required for all phases of rhythms in mRNA amount.” Journal of Biological Rhythms 23:511-524.

Direct Genome Submissions to GenBank. Peer-reviewed by the Pittsburgh Bacteriophage Institute. (in last five years) (* student authors)

- King, A.R., Cook, R.C., Khenner, E.M., Owens, N.L., Sharma, A., Stairs, E.N., King, R.A., Rinehart, C.A., Serrano, M.G., Buck, G., Lee, V., Wang, Y., Carvalho, R., Voegtly, L., Shi, R., Duckworth, R., Johnson, A., Loviza, R., Walstead, R., Shah, Z., Kiflezghi, M., Wade, K., K.R., Braun, M.A., Delesalle, V.A., Hughes, L.E., Ware, V.C., Bradley, K.W., Barker, L.P., Asai, D.J., Bowman, C.A., Russell, D.A., Pope, W.H., Jacobs-Sera, D., Hendrix, R.W. and Hatfull, G.F., “Mycobacterium phage Larenn.” Sept. 30, 2014, GenBank: [KM677210.1](https://www.ncbi.nlm.nih.gov/nuclot/KM677210.1)
- *Schrader, S.M., *Parthasarathy, P.T., King, R.A., Rinehart, C.A., Serrano, M.G., Lee, V., Hendricks, S.L., Sheth, N.U., Buck, G.A., Bradley, K.W., Khaja, R., Lewis, M.F., Barker, L.P., Jordan, T.C., Russell, D.A., Pope, W.H., Jacobs-Sera, D., Hendrix, R.W. and Hatfull,

G.F. (2011) "Mycobacterium phage TiroTheta9, complete genome." Feb. 3, 2012, GenBank: [JN561150.1](#).

- *Rice, B.G., *Bethi, A., *Calvert, L.E., *Coomer, C.A., *Eastes, A.N., *Eaton, E., *Faughn, J.D., *Gutierrez, A., *Gutierrez, A., *Hawtrey, S.F., *Jones, G.M., *Jones, M.L., *Kurlawala, Z.D., *Leet, T.A., *Lovell, L.J., *Phillips, K.E., *Shoup, L.E., *Stolze, A.C., *Walch, E.M., *Westerman, E.W., *Wheeler, M.A., *Wright, S.K., *Parthasarathy, P.T., King, R.A., Rinehart, C.A., Lee, V., Hendricks, S.L., Voegtly, L.J., Wang, Y., Glascock, A.L., Anderson, J., Williamson, S.M., Walstead, R.N., Carvalho, M.R.C., Johnson, A., Buck, G.A., Bradley, K.W., Khaja, R., Lewis, M.F., Barker, L.P., Jordan, T.C., Russell, D.A., Pope, W.H., Jacobs-Sera, D., Hendrix, R.W. and Hatfull, G.F. "Mycobacterium phage BarrelRoll, complete genome." Feb. 3, 2012, GenBank: [JN643714.1](#).
- *Howard, C.M., Rinehart, C.A., *Parthasarathy, P.T., King, R.A., *Anyanwu, E.I., *Cole, K.G., *Driver, K.B., *Farnsworth, E.M., *Howard, B.G., *Howard, B.E., *Olberding, J.R., *Perkins, M.C., *Sayre, H.L., *Scaff, T.L., *Schrader, S.M., *Tope, C.A., Zhang, X., Meincke, L.J., Goodwin, L.A., Detter, J.C., Han, S., Green, L.D., Bradley, K.W., Khaja, R., Lewis, M.F., Barker, L.P., Jordan, T.C., Russell, D.A., Leuba, K.D., Fritz, M.J., Bowman, C.A., Pope, W.H., Jacobs-Sera, D., Hendrix, R.W. and Hatfull, G.F. "Mycobacterium phage Backyardigan, complete sequence." Feb. 3, 2012, GenBank: [JF704093.1](#)
- Jacobs-Sera, D., Zellars, M., Wells, M.E., Webb, J.L., Ware, V.C., Vazquez, E., TamarapuParthasarathy, P., Smith, I.A., Simon, S.E., Shaffer, C.D., Rubin, M.R., Rosenzweig, R.F., Rinehart, C.A., Qin, H., Pillay, I., Payne, D.E. II, Padolina, J.M., Novick, P.A., Miller, E.S., Mayer, E.S., Marzillier, J.Y., Mageeney, C.M., MacGibeny, M.A., Li, W., Lee, J.Y., Kinnersley, M.A., King-Smith, C., King, R.A., Kenna, M.A., Kearse, M.G., Johnson, B.K., Johnson, A.A., Johnson, C.M., Hughes, L.E., Harrison, M., Guild, N.A., Gilbert, J.L., Fillman, C.L., Felton, C.M., Dunbar, D.A., Dennehy, J.J., DeJong, R.J., Carson, S., Burnett, S.H., Breakwell, D.P., Berrios, J.E., Benjamin, R.C., Anderson, J.J., Bradley, K.W., Khaja, R., Lee, E., Barker, L.P., Lewis, M.F., Jordan, T.C., Cresawn, S.G., Grace, M.A., Pope, W.H., Ko, C., Russell, D.A., Peebles, C.L., Lawrence, J.L., Hendrix, R.W. and Hatfull, G.F. "Mycobacteriophage RedRock, complete genome." Feb. 1, 2010. GenBank: [GU339467.1](#).

Synergistic Activities

- Founder and co-director of the Bioinformatics and Information Science Center (BISC) at WKU. BISC is a collaborative center, with 54 faculty/staff members from 10 departments and 3 colleges, that supports cross-disciplinary research, student engagement, and curriculum innovations in bioinformatics and information science. (2006 – present).
- Co-director and PI for the High Performance Computing Center (HPCC) at WKU. The HPCC is administered under BISC and provides computing support for research, collaborations and the educational mission of WKU. (2010 – present).
- Co-PI with Dr. Rodney King in the HHMI Science Education Alliance (SEA). Our Genome Discovery and Exploration program engages 18-20 freshman and sophomore students in a year long research project to isolate, purify, sequence, annotate and publish bacteriophage genomes specific for *M. smegmatis*. (2009 – present).

- “HHMI Science Education Alliance Experiment to Engage Freshman in Genomic Research” (2012) Rinehart, C.A., King, R.A., Oral Presentation at the Kentucky Section Meeting of the UT-ORNL-KBRIN Bioinformatics Summit, Louisville, KY, March 30, 2012.
- Co-PI with Dr. Rodney King in the KBRIN-Small Genomes Program that was proposed in the Kentucky INBRE grant renewal to NIH (2013). KBRIN is the Kentucky Biomedical Infrastructure Network that is supported by the NIH INBRE, IDeA Networks of Biomedical Research Excellence, program. The KBRIN-Small Genomes Program training of faculty from outreach universities and community colleges will be done at WKU.
 - “Genome Discovery and Exploration at Western Kentucky University” (2014) King, R.A. and Rinehart, C.A. Poster presented in the President’s Forum at the American Society for Microbiology, 2014.
 - “Sequencing Multiple Bacteriophages with MiSeq Technology and Subsequent Genome Assembly” (2014) Rinehart, C.A. Talk presented at the Kentucky Section of the UT-KBRIN Bioinformatics Summit, April 11, 2014.
 - “Mycobacteriophage Genome: Discovery, Annotation and Comparison” (2014) Rinehart, C.A. Lecture given in Bioinformatics Seminar series at University of Louisville, Jan. 15, 2014.
- Synergistic Research and Presentations during the last five years with students (* = undergraduate student, ** = graduate student, CAPS =under-represented student):
 - “The Genome Discovery and Exploration Program at Western Kentucky University isolated, purified, and characterized mycobacteriophages Badger and TheloniousMonk.” (2015) *Ronkainen, M.M., *Heard, W.N., *Beaver, A.C., *Camargo, M.Y., *Calhoun, N.S., *Chasteen, L.T., *Chavez, M.V., *DeCesare, M.A., *Deshpande, R.R., *Ellis, J.N., *Fan, L., *Gearner, O.M., *Herricks, S.E., *Hoffman, D.L., *Hoyng,S.C., *Huggins, E.C., *Ibisate, K.G., *Keeter, E.L., *Latimer, M.L., *Long, M.D., *McKellar, J.S., *McKnight, K.M., **Meers, C.A., *Noel, E.M., *Parker, E.D., *Pike, L.A., *Powers, N.A., *Profumo, K.M., *Pulsifer, E.A., *Shin, E.E., *Smith, E.B., *Stryker, S.M., *Styers, J.M., *Wayne, J.L., *White, A.J., *Wolford, L.E., King, R.A., Rowland, N.S., Rinehart, C.A., Poster presentation at the 7th Annual SEA-Phages Symposium, HHMI Janelia Farms Research Campus, VA. June 13, 2015.
 - “Examining Mycobacteriophage Evolution Through Secondary Structure” (2015) *Patel, V.D., Rinehart, C.A., 45th Annual Student Research Conference, Western Kentucky University, Bowling Green, KY. March 28, 2015.
 - “Diversity Of Mycobacteriophages in Hydrologic Regions” (2015) *Akhtar, S., Rinehart, C.A., 45th Annual Student Research Conference, Western Kentucky University, Bowling Green, KY. March 28, 2015.
 - “Isolation And Characterization of Gansey, A New Member Of The Cluster K Mycobacteriophages” (2015) *Price, K.R., Rinehart, C.A., 45th Annual Student Research Conference, Western Kentucky University, Bowling Green, KY. March 28, 2015.
 - “Reid, Restriction Enzyme Identify” (2015) *Gregory, C.T., Rinehart, C.A., 45th Annual Student Research Conference, Western Kentucky University, Bowling Green, KY. March 28, 2015.

- “The Discovery and Analysis of Arthrobacter Phage Ezio” (2014) *Lynch, K., Rinehart, C.A., 44th Annual Student Research Conference, Western Kentucky University, Bowling Green, KY. March 22, 2014.
- “In Silico Prediction of 3D Models for Mycobacteriophage Structural Proteins” (2014) *Osterhaus, P., Rinehart, C.A., 44th Annual Student Research Conference, Western Kentucky University, Bowling Green, KY. March 22, 2014.
- “Discovery and Analysis of Arthrobacter Phage Mudcat” (2014) *Oates, E., Rinehart, C.A., 44th Annual Student Research Conference, Western Kentucky University, Bowling Green, KY. March 22, 2014.
- “Isolation, Characterization and Genomic Analysis of Mycobacteriophages Achebe, MooMoo, Simpliphy and Updawg” (2013) *Walch, G.A., *Allender C.M., *Babbs, G.E., *Blair, B.C., *Blankenship, B.C., *Clark, C.M., *Crafton, J.E., *Deshpande, A.R., *Dinga, S.M., *Graff, H.N., *Hall, J.A., *Kearns, A.W., King, R.A., *Lewis, A.L., *Luscher, M-G.E., *Osterhaus, P.G., *Porter, L.R., *Riggin, D.G., Rinehart, C.A., *Shain, L.M., *Thayer, D.C., *Tirumala, V., *VanMeter, C.M., *Williams, J.M., Poster presentation at the 5th Annual SEA-Phages Symposium, HHMI Janelia Farms Research Campus, VA. June 8, 2013. Gretchen A. Walch’s presentation won honorable mention in student poster competition.
- “*Ab Initio* prediction of mycobacteriophages protein structure and function.” (2013) *Kapadia C.D., Rinehart, C.A., Poster Presentation at UT-ORNL-KBRIN Bioinformatics Summit. Buchanan, TN, March 22-24, 2013. Also presented at the 5th Annual SEA-Phages Symposium, HHMI Janelia Farms Research Campus, VA. June 8, 2013.
- “Comparison of codon usage in mycobacteriophages with and without tRNAs in their genomes.” (2013) *Gill E.S., Rinehart, C.A., Poster Presentation at UT-ORNL-KBRIN Bioinformatics Summit. Buchanan, TN, March 22-24, 2013.
- “Correlation of geographical distribution of mycobacteriophages with genomic clusters and genome distance.” (2013) *Parrish M.L., Rinehart, C.A., Poster Presentation at UT-ORNL-KBRIN Bioinformatics Summit. Buchanan, TN, March 22-24, 2013.
- “Identification of short DNA repeats and their functions in mycobacteriophages.” (2013) *Davis, S.W., Rinehart, C.A., Poster Presentation at the 43rd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “Identifying The Transcriptional Start Site For The Repressor Gene In The Mycobacteriophage Backyardigan.” (2013) *Jones, G.M., Rinehart, C.A., Poster Presentation at the 43rd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “MyOTP, a Newly Discovered Mycobacteriophage From Bowling Green, Kentucky.” *Allender, C., *Babbs, G., King, R.A., Rinehart, C.A., Poster Presentation at the 43rd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “Exploring Genetic Diversity By Isolating and Comparing Novel Bacteriophages.” *VanMeter, C., King, R.A., Rinehart, C.A., Poster Presentation at the 43rd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.

- “Discovery and Analysis of Mycobacteriophage Capnhook.” *Graff, H., King, R.A., Rinehart, C.A., Poster Presentation at the 43nd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “The Isolation and Characterization of Mycobacteriophage Pigpen.” *Porter, L., King, R.A., Rinehart, C.A., Poster Presentation at the 43nd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “Discovery and Genomic Comparison of Bacteriophages Updawg and Pandakarenina.” *Osterhaus, P., *Deshpande, A., King, R.A., Rinehart, C.A., Poster Presentation at the 43nd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “A Newly Discovered Cluster E Mycobacteriophage Identified Through Genomic Analysis.” *Walch, G., King, R.A., Rinehart, C.A., Poster Presentation at the 43nd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “A Comparison of Two Newly Discovered Mycobacteriophages Isolated From Different Geographical Regions in Kentucky.” *Tirumala, V., *Kearns, A., King, R.A., Rinehart, C.A., Poster Presentation at the 43nd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “Genome Annotation and Syntenic Analysis of *Clostridium scatologenes* ATCC 25775.” **Smiley, S., Tiwari, J., Doerner, K., Rinehart, C.A., Paper Presentation at the 43nd Annual WKU Student Research Conference, Bowling Green, KY, March, 23, 2013.
- “Identification of the transcriptional start site of the repressor gene in the Mycobacteriophage Backyardigan.” (2012) *DULANEY III, J.W., Rinehart, C.A., Poster at the WKU REU Symposium. Bowling Green, KY, Aug 2, 2012.
- “Identification of growth hormone regulatory pathways using Next Generation Sequencing.” (2012) **Rajadinakaran, G., Sun, H., Rinehart, C.A., Rouchka, E., Smith, M.E., Poster presentation at Gordon Research Conference – Auditory Systems. Bates College, MN, July 11, 2012.
- “Physical and Molecular Characterization of Bacteriophage TinaFeyge.” (2012) *Doughty, M.A., , *Ballinger, A.D., *Cardwell, A.R., *Gingerich, A.D., King, R.A., *Olberding, J.R., *Parrish, M.L., Rinehart, C.A., Oral Presentation at the National Consortium for Specialized Secondary Schools of Mathematics, Science, and Technology Conference, Chicago, IL, June 22, 2012.
- “Discovery and Genomic Characterization of Bacteriophage KyKar.” (2012) *Dunn, M.C., *Blair, B.C., *Carter, J.N., *Driver, K.B., *Links, A.E., King, R.A., *Rasam, R.J., Rinehart, C.A., *Shin, J.H., Sunnenberg, A.P., Oral Presentation at the National Consortium for Specialized Secondary Schools of Mathematics, Science, and Technology Conference, Chicago, IL, June 22, 2012.
- “MadamMonkfish, a Novel Mycobacteriophage Isolated From Ravenna, Kentucky.” (2012) *Richardson, N.K., *Bailey, J.K., *Burke, L.M., *Cardwell, M.E., *Cocoran, K.N., *Doan, E.A., *Estes, E.G., King, R.A., Rinehart, C.A., *Webb, B.A., Oral Presentation at the National Consortium for Specialized Secondary Schools of Mathematics, Science, and Technology Conference, Chicago, IL, June 22, 2012.
- “Isolation, Characterization and Genomic Analysis of Mycobacteriophages

- KyKar, MadamMonkfish, Morpher26 and TinaFeyge.” (2012) *Bailey, J.K., *Ballinger, A.D., *Blair, B.C., *Burke, L.M., *Caldwell, M.E., *Cardwell, A.R., *Carter, J.N., *Corcoran, K.N., *Davis, S.W., *Doan, E.A., *Doughty, M.A., *Driver, K.B., *Dunn, M.C., *Estes, E.G., *Gatten, E.E., *Gingerich, A.D., *Kapadia, C.D., King, R.A., *Kobayashi, Y., *Links, A.E., *Olberding, J.R., *Parrish, M.L., *Rasum, R.J., *Richardson, N.K., Rinehart, C.A., *Schrader, S.M., *Shin, J.H., *Sunnenberg, A.P., *Webb, B.A., *Williams, D.F., Poster presentation at the 4th Annual SEA-Phages Symposium, HHMI Janelia Farms Research Campus, VA. June 9, 2012.
- “The Discovery of AngeDeLaMort, a Novel Mycobacteriophage.” (2012) *Dunn, M.C., King, R.A., Rinehart, C.A., Poster presentation at the Intel International Science and Engineering Fair, Pittsburgh, PA, May, 14, 2012, and, the Southern KY Regional Science Fair, Bowling Green, KY, Mar. 17, 2012.
 - “Isolation and Characterization of Bacteriophage Lacuna.” (2012) *Burke, L.M., King, R.A., Rinehart, C.A., Poster Presentation at the 42nd Annual WKU Student Research Conference, Bowling Green, KY, March, 24, 2012.
 - “Isolation and Characterization of Bacteriophage Ambition.” (2012) *Doughty, M.A., King, R.A., Rinehart, C.A., Poster Presentation at the 42nd Annual WKU Student Research Conference, Bowling Green, KY, March, 24, 2012, and, The Third Annual University of Kentucky STEM Symposium, Lexington, KY, Feb. 3, 2012.
 - “Isolation and Characterization of Bacteriophage Intrinity.” (2012) *Sunnenberg, A.P., King, R.A., Rinehart, C.A., Poster Presentation at the 42nd Annual WKU Student Research Conference, Bowling Green, KY, March, 24, 2012.
 - “Cell proliferation and apoptotic pathways regulated in zebrafish auditory hair cell regeneration using Next Generation Sequencing.” (2012) *Rajadinakaran, G., Sun, H., Rinehart, C.A., Rouchka, E., Smith, M.E., Oral Presentation at the 42nd Annual WKU Student Research Conference, Bowling Green, KY, March, 24, 2012.
 - “Genome Assembly and Syntenic Analysis of Clostridium scatologenes.” (2012) **Smiley, S., **Tiwari, J., Doerner, K.C., Rinehart, C.A., Oral Presentation at the 42nd Annual WKU Student Research Conference, Bowling Green, KY, March, 24, 2012.
 - “Statistical Analysis of Microarray Gene Expression Data from a Mouse Model of Toxoplasmosis.” (2011) **Pawar, S., Rinehart, C.A., Davis, C.D., Poster presentation at the 97th Annual Meeting of the Kentucky Academy of Science, Murray, KY, Nov. 5, 2011.
 - “Genome annotation of two new mycobacteriophages.” (2011) *Links, A.E., King, R.A., Rinehart, C.A., Poster Presentation at the West Michigan Regional Undergraduate Science Research Conference, MI, Nov. 2011, and, Conference of Research Experiences for Undergraduates Student Scholarship, Washington, D.C., October 17, 2011.

Collaborators & Other Affiliations

- Collaborators

- Dr. Rodney King, Western Kentucky University
- Dr. Graham Hatfull, University of Pittsburg
- Dr. Welkin Pope, University of Pittsburg
- Dr. Debra Jacobs-Sera, University of Pittsburg
- Dr. Kinchel Doerner, North Dakota State University
- Dr. Johnathan Whetstine, Harvard University
- Dr. Nicholas Dyson, Harvard University
- Dr. Jonathan Quiton, Western Kentucky University
- Dr. Sigrid Jacobshagen, Western Kentucky University
- Dr. Bruce Kessler, Western Kentucky University
- Dr. Shivendra Sahi, Western Kentucky University
- Dr. Phil Womble, EWA, Western Kentucky University
- Thesis Advisor and Postgraduate-Scholar Sponsor.
 - Jitesh Tiwari 2010 – 2012, Industry
 - ReddySailaja Marpuri 2007 – 2009, Washington University
 - Pongsathorn Chotikasemsri 2006 – 2008 , Industry
 - Avinash Baktula 2001 – 2003, Universityof Cincinnatti