

Curriculum Vitae

Dr. Daniel R. Jones

OFFICE:

Indiana Wesleyan University
Division of Natural Sciences
4201 South Washington Street
Marion, IN 46953
Telephone: 765-677-2296
Fax: 765-677-2455
E-mail: dan.jones@indwes.edu

HOME:

9389 Rockwood Court, Noblesville, IN 46060

PERSONAL:

Birthplace: Lafayette, IN
Date of birth: February 6, 1962
Marital Status: Married, two children

CAREER SUMMARY:

I have been blessed with opportunities to learn and serve in the dental, biomedical research, and teaching fields. I am most grateful for the opportunity to serve Christ at Indiana Wesleyan University, integrating my faith with my work in the biomedical field by teaching, advising, and involving undergraduates with research.

EDUCATION:

1984 B.S. Biochemistry, Purdue University
1987 D.D.S., Indiana University School of Dentistry
1997 Ph.D., Biomedical Science, Wright State University

POSITIONS:

1987-1990 U.S. Air Force general dentist
1990-1991 Private practice dentist
1991-1997 Doctoral student/teaching assistant, Wright State University
1997-2000 Post-doctoral research fellow, Eli Lilly and Company
1999-2000 Adjunct pre-nursing physiology instructor, Indiana University-Purdue University at Indianapolis
2000-2002 Post-doctoral research scientist, Indiana University School of Medicine/Indiana University School of Dentistry
2000-2002 Adjunct first year dental student problem-based learning instructor, Indiana University School of Dentistry
2002-2006 Assistant Professor of Biology, Indiana Wesleyan University
2006-2011 Associate Professor of Biology, Indiana Wesleyan University
2011- Professor of Biology, Indiana Wesleyan University

HONORS AND AWARDS:

- 2006 Gallup Organization Strengths-Based Curriculum Implementation Award
- 2014 Indiana Wesleyan University Professor of the Year Award

SCIENTIFIC PRESENTATIONS:

- 2006 Poster presentation: *CD40 Ligand Reversal of Dexamethasone-Induced Osteoblast Apoptosis as Measured by a Colorimetric Caspase-3 Assay*, 122nd Annual Indiana Academy of Science Fall Meeting, Ball State University, Muncie, Indiana
- 2007 Oral presentation: *A Bare Bones Update on Osteoporosis Research at IWU*, John Wesley Honors College Faculty Lecture Series
- 2008 Poster presentation: *CD40 Ligand Reversal of Dexamethasone-Induced Osteoblast Apoptosis as Measured by a Colorimetric Caspase-3 Assay*, Federation of American Societies for Experimental Biology Meeting, San Diego, California
- 2013 Oral Presentation: *Physiological Levels of the Potential Anti-Osteoporosis Agent, Reveromycin A, do not Induce Apoptosis or Necrosis of Chondrocytes at pH 7.4*, 128th Annual Indiana Academy of Science Meeting, Indianapolis, Indiana
- 2013 Oral Presentation: *Death Effects of Reveromycin A, A Potential Osteoporosis Treatment, on Chondrocytes and Synoviocytes of the Bone-Joint Microenvironment*, Fall 2013 Taylor University Science Lecture Series
- 2014 Oral Presentation: *Reveromycin A-Induced Apoptosis in Osteoclasts is not Accompanied by Necrosis*, 129th Annual Indiana Academy of Science Meeting, Indianapolis, Indiana
- 2014 Poster Presentation: *Reveromycin A-Induced Apoptosis in Osteoclasts is Accompanied by Decreased NF Kappa B Levels*, 2014 American Society for Pharmacology & Experimental Therapeutics Meeting, San Diego, California

MENTORED SCIENTIFIC PRESENTATIONS:

- 2004 2nd Annual IWU Celebration of Scholarship:
Optimization of an Apoptosis Assay for Osteoblasts, Kyle Anderson
- 2005 3rd Annual IWU Celebration of Scholarship:
Apoptosis in Osteoblasts: Investigating a Potential Treatment for Osteoporosis, Jolie Hoffman, Kyle Anderson, Amber Jones
- 2006 4th Annual IWU Celebration of Scholarship:
Osteoblast Apoptosis Inducers: A Factor in Osteoporosis, Carolyn Bainbridge
Colorimetric TUNEL Assays of MC3T3-E1 Osteoblasts: Visualizing Glucocorticoid Induced Apoptosis, Chana Hunter

- CD40 Ligand Reversal of Dexamethasone-Induced Osteoblast Apoptosis as Measured by a Colorimetric Caspase-3 Assay*, Amber Jones
- TGF- β 1 Levels in Dexamethasone-Induced Apoptotic Cells*, Chris Rose
- Apoptosis Detection Through DNA Fragmentation*, Michelle Stuttle
- Bcl-X_L Levels in Apoptotic Osteoblasts: The Search for a Potential Role of Bcl-X_L in Protecting Osteoblasts from Glucocorticoid-Induced Apoptosis During CD40 Ligand Signalling*, Brittany Wilkerson
- DNA Isolation of Black-Capped, Carolina, and Hybrid Chickadee Blood*, Jerica Derr
- 2006 19th Annual Butler University Undergraduate Research Conference:
CD40 Ligand Reversal of Dexamethasone-Induced Osteoblast Apoptosis as Measured by a Colorimetric Caspase-3 Assay, Amber Jones
- 2006 122nd Indiana Academy of Science Fall Meeting:
Successful Use of Guava Technologies' Nexin Assay for Apoptosis Determination in MC3T3-E1 Cells, Carolyn Bainbridge
- Bcl-X_L Levels in Apoptotic Osteoblasts: The Search for a Potential Role of Bcl-X_L in Protecting Osteoblasts from Glucocorticoid-Induced Apoptosis During CD40 Ligand Signalling*, Brittany Wilkerson
- Colorimetric TUNEL Assays of MC3T3-E1 Osteoblasts: Visualizing Glucocorticoid Induced Apoptosis*, Chana Hunter
- TGF- β 1 Levels in Dexamethasone-Induced Apoptotic MC3T3-E1 Cells*, Chris Rose
- Genomic DNA Isolation from Indiana Chickadee Species (Poecile sp.)*, Jerica Derr, Adam Thada
- 2007 5th Annual IWU Celebration of Scholarship:
Successful Use of Guava Technologies' Nexin Assay for Apoptosis Determination in MC3T3-E1 Cells, Carolyn Bainbridge
- Bcl-X_L Levels in Apoptotic Osteoblasts: The Search for a Potential Role of Bcl-X_L in Protecting Osteoblasts from Glucocorticoid-Induced Apoptosis During CD40 Ligand Signalling*, Brittany Wilkerson
- Colorimetric TUNEL Assays of MC3T3-E1 Osteoblasts: Visualizing Glucocorticoid Induced Apoptosis*, Chana Hunter
- TGF- β 1 Levels in Dexamethasone-Induced Apoptotic MC3T3-E1 Cells*, Chris Rose
- Does DNA Laddering Occur in the MC3T3-E1 Bone Tissue Culture Model Following Glucocorticoid-Induced Apoptosis?* Jen Robinson
- Genomic DNA Isolation from Indiana Chickadee Species (Poecile sp.)*, Jerica Derr, Adam Thada

- 2007 123rd Indiana Academy of Science Fall Meeting:
The Role of Protein Kinase B in CD40 Ligand-Mediated Prevention of Glucocorticoid-Induced Osteoblast Apoptosis, Chika Nwulu
A Preliminary Analysis of Nucleotide Differences Among Indiana Chickadee Species (Poecile sp.) at the Mitochondrial Cytochrome B Gene Locus, Brett Bishop
Development of a Non-Radioisotopic Southern Blot Technique for Detecting Restriction Fragment Length Polymorphisms Among Indiana Chickadee Species (Poecile sp.) and Their Hybrids at the C7 Homology Locus, Matt Zuellig
- 2008 6th Annual IWU Celebration of Scholarship:
A Preliminary Analysis of Nucleotide Differences Among Indiana Chickadee Species (Poecile sp.) at the Mitochondrial Cytochrome B Gene Locus, Brett Bishop
Development of a Non-Radioisotopic Southern Blot Technique Detecting Restriction Fragment Length Polymorphisms Among Indiana Chickadee Species and Their Hybrids at the Mitochondrial Cytochrome B Locus, Matt Zuellig
The Role of TGF- β 1 in Osteoblasts in Glucocorticoid-Induced Osteoporosis, Kristen Shafer
Apoptosis in Osteoblasts Treated with Dexamethasone and CD40 Ligand, Bethany Kline
The Role of Protein Kinase B in CD40 Ligand-Mediated Prevention of Glucocorticoid-Induced Osteoblast Apoptosis, Chika Nwulu
Dexamethasone-Induced Apoptosis can be Detected in MC3T3-E1 Mouse Osteoblasts using Promega Corporation's Caspase-3 Activity Assay, Dan Seitz
Effects of Estrogen on Osteoclast Apoptosis, Chris Sloan and Laura Tedeschi
- 2009 7th Annual Celebration of Scholarship:
An Investigation of the In Vitro Induction of Osteoclast Apoptosis Related to the Treatment of Osteoporosis by Estrogen, Reveromycin A, and Orientin, Laura Tedeschi
Apoptosis in Osteoblasts Treated with Dexamethasone and CD40 Ligand, Bethany Kline
NF- κ B Inhibition and Osteoporosis, Brittany Mead
The Role of Bcl-xL in the Apoptosis of Osteoblasts and Osteoclasts, Spenser Lang
The Validity of TRAP Staining for Interpreting Differentiation of RAW264.7 Cells by RANKL, Josh Pattengale
The Signal Transduction Pathway of Tumor Necrosis Factor α - as it Relates to Osteoclastogenesis, Jordan Mast
- 2009 125th Annual Indiana Academy of Science Fall Meeting:
Preliminary Investigation of Apoptosis Induction in Osteoclasts by the Flavonoid, Glucoluteolin, Heather Morgan

- 2010 8th Annual Celebration of Scholarship:
Osteoporosis and Apoptosis, Megan Gragg
The Role of I κ B α in Reveromycin A-Induced Osteoclast Apoptosis,
 Brittany Mead
The Role of NF- κ B/I κ B α in the Regulation of Osteoclast Survival,
 Kaitlin Riemann
*Use of an LDH Release Assay for Measuring Necrosis in
 Osteoclasts and Osteoblasts*, Cory Hines
*Preliminary Investigation of Apoptosis in Osteoclasts by the
 Flavonoid, Glucoluteolin*, Heather Morgan
*Characterization of Bone Cells in Osteoporosis: Use of the Bradford
 Assay in Cell Extract Protein Quantitation*, Chris Devries
Effect of Bcl-X_L on Osteoclast Survival and Function, Spenser Lang
*MC3T3-E1 Cells Treated with the Bisphosphonate, Alendronate,
 Show Signs of Necrosis*, Ben Kawsy
The Role of Bcl-XL in the Regulation of Apoptosis in Bone Cells,
 Katie Shull
- 2011 126th Annual Indiana Academy of Science Meeting, Oral
 Presentations:
*Caspase 3 Activity Increases in Reveromycin A-Treated
 Murine Osteoclasts*, Megan Gragg
*Reveromycin A-Induced Apoptosis in Osteoclasts is not
 Accompanied by Necrosis*, Cory Hines
*Western Blot Analysis of Potential Mediators of Reveromycin A-
 Induced Apoptosis in Osteoclasts*, Kaitlin Riemann
- 2011 9th Annual Celebration of Scholarship, Natural Sciences
 Symposium, Oral Presentations:
*Electrophoretic Mobility Shift Assay Control Tests to Confirm
 Binding of Protein to DNA*, Emily Boyd and Tyler Derr
*Caspase 3 Activity Increases in Reveromycin A-Treated
 Murine Osteoclasts*, Megan Gragg
*Reveromycin A-Induced Apoptosis in Osteoclasts is not
 Accompanied by Necrosis*, Cory Hines
*Western Blot Analysis of Potential Mediators of Reveromycin A-
 Induced Apoptosis in Osteoclasts*, Kaitlin Riemann
The Effects of Reveromycin A on Healthy Equine Chondrocytes,
 Katie Shull
- 2011 9th Annual Celebration of Scholarship, Natural Sciences
 Symposium, Poster Presentations:
*Reveromycin A-Induced Apoptosis in Osteoclasts is not
 Accompanied by Necrosis*, Cory Hines
*MC3T3-E1 Cells Treated with the Bisphosphonate, Alendronate,
 Show Signs of Necrosis*, Ben Kawsy
*Western Blot Analysis of Potential Mediators of Reveromycin A-
 Induced Apoptosis in Osteoclasts*, Kaitlin Riemann

- The Effects of Reveromycin A on Healthy Equine Chondrocytes*,
Katie Shull
- 2011 *Characterization of the Mechanism of Reveromycin A-Induced Apoptosis in Osteoclasts*, Jonathan Stofer
Hodson Summer Research Institute Colloquium Presentations:
Investigation of a Potential Bone-Preserving Agent for Osteoporosis Treatment, Reveromycin A, Tyler Derr (Power Point talk) and Jon Stofer (poster)
- 2012 10th Annual Celebration of Scholarship, Natural Sciences Symposium, Oral Presentations:
Successful Western Blot Visualization of NF κ B and β -actin Loading Control Signals from Osteoclasts, David Collins and Paul Landis
Investigation of Reveromycin A-Induced Cell Death Effects in Chondrocytes, Lauren Nugent and Ryan Saba
Successful Visualization of NF κ B-DNA Complex Formation: Using the Electrophoretic Mobility Shift Assay, Tyler Derr and Emily Boyd
- 2012 10th Annual Celebration of Scholarship, Natural Sciences Symposium, Poster Presentations:
Optimization of NF κ B Western Blot Signal in Reveromycin A-Treated Osteoclasts, David Collins
Optimization of a β -actin Western Blot Loading Control in Reveromycin A-Treated Osteoclasts, Paul Landis
Characterization of Cell Death Effects in Reveromycin A-Treated Mouse Chondrocytes, Lauren Nugent
Optimization of the ATDC5 Mouse Chondrocyte Line for Studying Potential Reveromycin A-Induced Cell Death, Ryan Saba
- 2012 13th Annual American Chemical Society, Indiana Chapter Meeting, Poster Presentation: *Investigating the Effect of Reveromycin A, a Potential Osteoporosis Treatment, on Cartilage Cells of the Bone-Joint Microenvironment*, Ellen Steinke
- 2012 Hodson Summer Research Institute Colloquium Presentations:
Investigating the Effect of Reveromycin A, a Potential Osteoporosis Treatment, on Cartilage Cells of the Bone-Joint Microenvironment, Ellen Steinke, (Power Point talk and poster)
- 2013 11th Annual Celebration of Scholarship, Oral Presentations:
Reveromycin A Does Not Cause Apoptosis or Necrosis in the ATDC5 Chondrocyte Cell Line at Physiological pH, Kelsey Davitt
Murine Chondrocytes do not Exhibit Significant Apoptosis when Treated with Reveromycin A as Measured by the TUNEL Assay, Emily Sloane
Investigation of a Mevalonate Pathway Metabolite for Rescue from Bisphosphonate-Related Osteonecrosis of the Jaw, Brooke Johnson (Awarded Outstanding Natural Sciences Presentation)

- 2013 11th Annual Celebration of Scholarship, Poster Presentations:
Reveromycin A Does Not Cause Apoptosis or Necrosis in the ATDC5 Chondrocyte Cell Line at Physiological pH, Kelsey Davitt and Ellen Steinke
Murine Chondrocytes do not Exhibit Significant Apoptosis when Treated with Reveromycin A as Measured by the TUNEL Assay, Emily Sloane and Ellen Steinke
Investigation of a Mevalonate Pathway Metabolite for Rescue from Bisphosphonate-Related Osteonecrosis of the Jaw, Brooke Johnson and Ben Kawsky
- 2013 Hodson Summer Research Institute Colloquium Presentations:
Death Effects of Reveromycin A in Chondrocytes and Synoviocytes, Haley Svcina, (Poster)
Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Cell Death, Calli Williams (Poster)
- 2014 129th Annual Indiana Academy of Science Meeting Oral Presentations:
Investigation of Geranylgeraniol Use to Reverse Zoledronate-Induced Death Effects in Human Periodontal Ligament Fibroblasts, Travis Landis and Jacob Kellner
Death Effects of Reveromycin A in Chondrocytes and Synoviocytes, Haley Svcina
Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Apoptosis, Calli Williams
- 2014 12th Annual Celebration of Scholarship, Oral Presentations:
Investigation of Geranylgeraniol Use to Reverse Zoledronate-Induced Death Effects in Human Periodontal Ligament Fibroblasts, Travis Landis and Jacob Kellner
Death Effects of Reveromycin A in Chondrocytes and Synoviocytes, Haley Svcina
Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Apoptosis, Calli Williams
- 2014 12th Annual Celebration of Scholarship, Poster Presentation:
Investigation of Geranylgeraniol Use to Reverse Zoledronate-Induced Death Effects in Human Periodontal Ligament Fibroblasts, Travis Landis
- 2014 2014 American Society for Pharmacology & Experimental Therapeutics Meeting, Poster Presentations:
Death Effects of Reveromycin A in Chondrocytes and Synoviocytes, Haley Svcina
Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Apoptosis, Calli Williams

PROFESSIONAL MEMBERSHIP:

- 2003- Indiana Academy of Science
- 2011 Cell Biology Section Co-Chair, 126th Annual Indiana Academy of Science Meeting, Indianapolis, Indiana
- 2012- Christian Medical & Dental Associations
- 2013- American Society for Pharmacology & Experimental Therapeutics

CONFERENCES AND WORKSHOPS:

- 2003 Attended IWU Teaching Workshops—*Introduction to Blackboard Technology, Writing World Changing Outcomes, and Teaching Tips*
- 2004 Attended CCCU National New Faculty Workshop
- 2004 Attended Indiana University School of Medicine Premedical Advisor's Conference
- 2005 Attended IWU Teaching Workshop—*Faculty Guide to Helping Emotionally Distressed Students*
- 2005 Attended 12th Annual Conference on Bioethics—*Genetic & Reproductive Ethics: The Scientific Cutting Edge & The Everyday Healthcare Challenges*, Trinity International University Center for Bioethics and Human Dignity
- 2005 Attended Taylor University's Technology for Teaching Conference
- 2007 Attended IWU Teaching Workshops—*Are You Getting the IDEA? and Mentoring*
- 2008 Attended NACADA (National Academic Advising Association) Academic Advising Summer Institute, Austin, Texas
- 2008 Attended Taylor University's Technology for Teaching Conference
- 2009 Led an IWU Faculty Development Workshop: *Workshop for Improving the Advising Experience at IWU*
- 2010 Led an IWU Faculty Development Workshop: *Advising the Wildcat Way*
- 2010 Attended Indiana University School of Medicine Premedical Advisor's Conference
- 2011 Attended IWU "The Pedagogy of Faith in the Science Classroom" Conference
- 2011 Attended the 2011 Global Missions Health Conference, Louisville, Kentucky, taking 25 IWU undergraduates
- 2012 IWU Center for Learning and Innovation, successful completion of Learning Academy 102: Assessment of Student Learning
- 2012 School of Physical and Applied Sciences Faculty Retreat—Pre-Med Advising Update
- 2012 Attended Indiana University School of Medicine Premedical Advisor's Conference
- 2012 Attended the 2012 Global Missions Health Conference, Louisville, Kentucky, taking 11 IWU undergraduates
- 2013 Attended the 2013 Global Missions Health Conference, Louisville, Kentucky, taking 6 IWU undergraduates

PUBLICATIONS:

Jones, D. and Leffak, M. A Negative Regulatory Element of the Human Apolipoprotein A1 Gene, published abstract, *The FASEB Journal*, April 19, 1994, 8(7):A1335.

Jones, Daniel R. and Leffak, Michael. A Bifunctional Regulatory Element of the Human ApoA-1 Gene Responsive to a Distal Enhancer. *DNA & Cell Biology*, February 1999, 18(2):107-19.

Jones, D., Schmidt, R., Pickard, T., and Eacho, P. Dose-dependent Repression of Hepatic Lipase Gene Transcription by 17 β -estradiol, published abstract, *The FASEB Journal*, May 11, 2000, 14(8):A1340.

Jones, Daniel R., Schmidt, Robert J., Pickard, Richard T., Foxworthy, Patricia S., and Eacho, Patrick I. Estrogen Receptor-Mediated Repression of Human Hepatic Lipase Gene Transcription, *Journal of Lipid Research*, 2002, 43:383-391.

Jones, D., Torrungruang, K., Selvamurugan, N., Partridge, N., and Bidwell, J. Nmp4, a Nuclear Matrix Transcription Factor, Contributes to MMP-13 Transcription in Osteoblasts and Fibroblasts, published abstract, *Molecular Biology of the Cell*, November 2001 Supplement, 12:496A.

Bidwell, J., Torrungruang, K., Alvarez, M., Rhodes, S., Shah, R., **Jones, D.**, Charoonpatrapong, K., Hock, J., and Watt, A. Involvement of the Nuclear Matrix in the Control of Skeletal Genes: The NMP1 (YY1), NMP2 (Cbfa1), and NMP4 (Nmp4/CIZ) Transcription Factors, *Critical Reviews in Eukaryotic Gene Expression*, 2001, 11(4):279-298.

Shah R., Alvarez M., **Jones D. R.**, Torrungruang K., Watt A. J., Selvamurugan N., Partridge N. C., Quinn C. O., Pavalko F. M., Rhodes S. J., Bidwell J. P. Nmp4/CIZ Regulation of Matrix Metalloproteinase 13 (MMP-13) Response to Parathyroid Hormone in Osteoblasts, *American Journal of Physiology—Endocrinology & Metabolism*, 2004, 287:289-296.

Jones, Daniel R. Biology 102 Lab Manual, August 2005.

Jones, Daniel R. Case Study: Using Microbe Molecular Biology for Gulf Oil Spill Clean Up, *Biochemistry and Molecular Biology Education*, 2011, 39(2): 157-164.

Steinke, E. and **Jones, D.** Investigating the Effect of Reveromycin A, a Potential Osteoporosis Treatment, on Cartilage Cells of the Bone-Joint Microenvironment, *13th Annual American Chemical Society Indiana Chapter Meeting Poster Presentations Program*, Fall 2012.

Jones, D. (2014). Genetic Imprinting In B. Aday, M. Buratovich, G. Marrocco, and P. Moglia (Eds.), *Magill's Medical Guide, Volume II, Seventh Edition* (pp. 948-952). Amenia, NY: Grey House Publishing/Salem Press.

Haley Svrcina, Ellen Steinke, Kelsey Davitt, Emily Sloane, Calli Williams, and **Dan Jones**, Death Effects of Reveromycin A in Chondrocytes and Synoviocytes, published abstract, *FASEB J* April 2014 28:663.14.

Dan Jones, Brittany Mead, Heather Morgan, Laura Tedeschi, Chris Sloan, Spenser Lang, Cory Hines, Megan Gragg, Jonathan Stofer, Kaitlin Riemann, Tyler Derr, Emily Heller, David Collins, Paul Landis, and Nathan Linna, Reveromycin A-Induced Apoptosis in Osteoclasts is Accompanied by Decreased NF Kappa B Levels, published abstract, *FASEB J* April 2014 28:663.15.

Calli Williams, Brooke Johnson, Haley Svrcina, Ben Kawsy, and **Dan Jones**, Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Apoptosis, published abstract, *FASEB J* April 2014 28:663.16.

Mead, B., Morgan, H., Tedeschi, L., Sloan, C., Lang, S., Hines, C., Gragg, M., Stofer, J., Reimann, K., Derr, T., Heller, E., Collins, C., Landis, P., Linna, N., and **Jones, D.** Reveromycin A-Induced Apoptosis in Osteoclasts is Accompanied by Decreased NFκB Levels, *manuscript in revision*.

Williams C., Johnson, B., Svrcina H., Kawsy, B., and **Jones, D.** Rescue of Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Cell Death by a Mevalonate Pathway Intermediate, Geranylgeraniol, *manuscript in preparation*.

Svrcina H., Steinke, E., Davitt, K., Sloane, E., Williams C., and **Jones D.** Cell Death Effects of Reveromycin A in Chondrocytes, Synoviocytes, and Rheumatoid Arthritis Fibroblast-Like Synoviocytes, *manuscript in preparation*.

INVITED TEXT REVIEW/NATIONAL COMMITTEES:

- | | |
|------|---|
| 2005 | Chapter review of genetics text, <i>The Logic of Genetics</i> , for Benjamin Cummings |
| 2006 | Chapter review of genetics text, <i>iGenetics</i> , 2 nd edition, for Benjamin Cummings |
| 2006 | American Chemical Society—2008 National Biochemistry Exam Committee Member, Contributor |
| 2011 | Chapter review of genetics laboratory text, <i>Genetics Laboratory Investigations</i> , 13 th edition, for Pearson Prentice Hall |

GRANTS:

- 2004 Indiana Academy of Science Senior Research Scientist Grant, *An Investigation of the Anti-Apoptotic Mechanism of CD40 Ligand in Dexamethasone-Induced Osteoblast Apoptosis*
- 2005 Mentored four students' Lilly Student Research Award applications through IWU, two awarded
- 2005 Lilly Faculty Scholarship Grant through IWU, *A Study of the Mechanisms of Dexamethasone-Induced Apoptosis in Osteoblasts—An Important Piece in the Osteoporosis Puzzle*
- 2006 Mentored three students' Lilly Student Research Award applications through IWU, all awarded
- 2006 Lilly Faculty Scholarship Grant (Summer Research Stipend)
- 2008 Indiana Academy of Science Senior Research Scientist Grant, *Characterization of the Effect of Glucoluteolin, a Flavonoid, on Estrogen-Induced Apoptosis in Osteoclasts*
- 2009 Mentored two students' Lilly Student Research Award applications through IWU, both awarded
- 2009 Lilly Faculty Scholarship Grant (Summer Research Stipend)
- 2010 Lilly Faculty Scholarship Grant (Summer Research Stipend)
- 2011 IWU Hodson Summer Research Institute Grant
- 2011 Lilly Faculty Scholarship Grant
- 2011 Lilly Faculty Research Load Award
- 2012 IWU Hodson Summer Research Institute Grant
- 2012 Lilly Faculty Scholarship Grant
- 2012 Indiana Academy of Science Senior Research Scientist Grant, *Investigation of Reveromycin A-Induced Cell Death Effects in Chondrocytes*
- 2013 IWU Hodson Summer Research Institute Grant
- 2014 IWU Hodson Summer Research Institute Grant
- 2014 Hinds Fellowship 2014-2015 Funding Award
- 2014 Mentored one student's Lilly Student Research Award application through IWU, awarded

TEACHING:

Past Courses—

Anatomy & Physiology I Lab
Biochemistry II (Biochemistry of Nucleic Acids Lecture)
Biochemistry II Lab
Human Biology for the Non-Science Major (Lecture)
Human Biology Lab for the Non-Science Major
Molecular Biology (Lecture and Lab)

Current Courses—

Anatomy & Physiology I (Lecture)
Anatomy & Physiology II (Lecture)
Biology Research

Cell Biology (Lecture)
Genetics (Integrated Lecture and Lab)
Pre-Dental Science (Integrated Lecture and Lab)
Preparing the Christian Health Professional (Lecture)

COMMUNITY SERVICE:

2000- Coordinated my students' efforts on Operation Christmas Child in conjunction with Lakeview Wesleyan Church, Marion, IN
2005 Push-pull and set-up team—Hamilton County Passion Play, *Behold the Lamb*, Noblesville, IN
2006 Usher—Hamilton County Passion Play, *Behold the Lamb*, Noblesville, IN
2006, 2007 ACSI District Science Fair judge
2009 Hamilton County Good Samaritan's food delivery participant
2010 Habitat for Humanity Greater Indianapolis Volunteer
2011 Wheeler Lighthouse Men's Emergency Center Indianapolis Volunteer

UNIVERSITY SERVICE:

2003- Member, Faculty Pre-Med Committee
2004- Natural Sciences Division mentor for Barry Goldwater Scholarship candidates
2004- Natural Sciences Division mentor for Elie Weisel Foundation Prize in Ethics Essay Contest candidates
2005-2009 Biology Department Co-Coordinator
2006-2007 Member, Indiana Wesleyan University Institutional Review Board
2006- Chairman, Faculty Pre-Med Committee
2006-2010 Faculty member, College of Arts and Sciences' Academic Advising Committee
2007-2010 Chairman, College of Arts and Sciences' Academic Advising Committee
2007-2008 Member, Scholarship Council—Lilly Student Awards Subcommittee
2009 Member, Scholarship Council—Chairman Lilly Faculty Awards Outstanding Teacher Subcommittee
2009-2010 Member, IWU IACUC (Institutional Animal Care and Use Committee)
2012 Member, Scholarship Council—Chairman of Subcommittee for Lilly Faculty Research Awards (Load Release Awards) and Provost's World Changing Faculty Award
2012- Faculty advisor for the IWU chapter of CMDA
2014 Chairman of Subcommittee for Lilly Faculty Research Awards and Chairman of Subcommittee for Provost's Outstanding Faculty Research Award

CHURCH:

2002-04 Member, Grace Community Church, Noblesville, IN
2002-04 Participant, Community Group Bible Fellowship
2004- Member, Harbour Shores Church, Cicero, IN
2004- Participant, Ambassadors Adult Bible Study Fellowship
2004-05 1st grade Sunday school teacher
2005-06 5th grade Sunday school teacher
2006-2009 Pathway to Maturity Bible Studies
2008-2009 Prayer in the Home leader/participant
2009-2012 Men's Triple Cord Ministry
2010-2013 Hamilton County Passion Play participant
2014- Walker nursery volunteer