Curriculum Vitae

Dr. Daniel R. Jones

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PERSONAL:

Birthplace: Lafayette, IN

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

CAREER SUMMARY:

I am 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 engaging undergraduates in laboratory 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:

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

HONORS AND AWARDS:

Gallup Organization Strengths-Based Curriculum Implementation
 Award
 Indiana Wesleyan University Professor of the Year Award
 Indiana Wesleyan University Outstanding Teaching and Mentoring
 Award

SCIENTIFIC PRESENTATIONS:

- Poster presentation: CD40 Ligand Reversal of Dexamethasone-Induced Osteoblast Apoptosis as Measured by a Colorimetric Caspase-3 Assay, 121st 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
- 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
- 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
- 2015 Poster Presentation: Death Effects of Reveromycin A in Normal and Diseased Synoviocytes, 2015 American Society for Pharmacology & Experimental Therapeutics Meeting, Boston, Massachusetts
- 2017 Oral Presentation: *Investigation of a Promising Osteoporosis Therapeutic: IWU Research Highlights*, Fall 2017 IWU Faculty Scholarship Symposium
- 2017 Oral Presentation: Bone and Joint Research: IWU Highlights, Fall 2017 IWU Science Forum
- 2019 Oral Presentation: Rescue of Osteoblasts from Zoledronate-Induced Apoptosis, Necrosis, and Senescence, Fall 2019 IWU Faculty Scholarship Symposium
- 2021 Poster Presentation: *SLC20/SLC34 Sodium-Dependent Phosphate Transporter Gene Expression in Human Oral Keratinocytes and Gingival Fibroblasts*, 136th Annual Indiana Academy of Science Meeting

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-β1 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

121st Indiana Academy of Science Fall Meeting: 2006

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-β1 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-X₁ 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-B1 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 122nd 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

6th Annual IWU Celebration of Scholarship: 2008

> 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-\(\beta\)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

7th Annual Celebration of Scholarship: 2009

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-κB 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 124th 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 $I \kappa B \alpha$ 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 Kawsky The Role of Bcl-XL in the Regulation of Apoptosis in Bone Cells, Katie Shull 126th Annual Indiana Academy of Science Meeting, Oral 2011 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 Kawsky

	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
	Characterization of the Mechanism of Reveromycin A-Induced
	Apoptosis in Osteoclasts, Jonathan Stofer
2011	Hodson Summer Research Institute Colloquium Presentations:
2011	Investigation of a Potential Bone-Preserving Agent for Osteoporosis
	Treatment, Reveromycin A, Tyler Derr (Power Point talk) and Jon
	Stofer (poster)
2012	10 th 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 NFkB-DNA Complex Formation: Using
	the Electrophoretic Mobility Shift Assay, Tyler Derr and Emily Boyd
2012	10 th Annual Celebration of Scholarship, Natural Sciences
	Symposium, Poster Presentations:
	Optimization of NFκB 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	11 th 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	11 th 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 Svrcina, (Poster)
2014	Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Cell Death, Calli Williams (Poster) 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 Svrcina Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal
	Ligament Fibroblasts from Zoledronate-Induced Apoptosis, Calli Williams
2014	12 th 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 Svrcina Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Apoptosis,
2014	Calli Williams 12 th 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 Svrcina

2014	Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Apoptosis, Calli Williams Hodson Summer Research Institute Colloquium Presentations: Investigation of MMP-13 and Cathepsin K Gene Expression in Equine
	Cartilage, Luke Hayden (Poster) Reveromycin A-Induced Apoptosis in Osteoclasts is Not Accompanied by Necrosis, Alyssa Mann (Poster)
	Death Effects of Reveromycin A in Normal and Diseased Synoviocytes, Haley Svrcina (Poster)
2015	Use of Geranylgeraniol to Rescue Osteoblasts and Periodontal Ligament Fibroblasts from Zoledronate-Induced Cell Death, Calli Williams (Poster) 130 th Annual Indiana Academy of Science Meeting Poster Presentations: Investigation of MMP-13 and Cathepsin K Gene Expression in Equine Cartilage, Luke Hayden and Matt Eckhardt
	Death Effects of Reveromycin A in Normal and Diseased Synoviocytes, Haley Svrcina and Austin Greer
	Use of Geranylgeraniol to Rescue Osteoblasts, Periodontal Ligament Fibroblasts, and Oral Keratinocytes from Zoledronate-Induced Cell Death, Calli Williams and Jacob Kellner
2015	13 th Annual IWU Celebration of Scholarship Presentations: Investigation of MMP-13 and Cathepsin K Gene Expression in Equine Cartilage, Luke Hayden and Matt Eckhardt (Oral)
	Death Effects of Reveromycin A in Normal and Diseased Synoviocytes, Haley Svrcina (Poster) Use of Geranylgeraniol to Rescue Osteoblasts, Periodontal Ligament
	Fibroblasts, and Oral Keratinocytes from Zoledronate-Induced Cell Death, Calli Williams and Jacob Kellner (Oral and Poster)
2015	Hodson Summer Research Institute Colloquium Presentations: Zoledronate-Induced Death Effects in Normal Human Oral Keratinocytes, Terry Beal (Poster)
	Investigation of Cathepsin K Gene Expression in Equine Cartilage, Christian Cuevas (Poster)
2016	Extended Time Course of Reveromycin A Death Effects in Normal Chondrocytes and Synoviocytes, Austin Greer (Poster)
2016	14 th Annual IWU Celebration of Scholarship Presentations: Cathepsin K Gene Expression Measurement in Cartilage-Forming Cells, Seth Baker (Poster)
	Death Effects of Reveromycin A, A Potential Osteoporosis Therapeutic, in Cells of the Joint, Austin Greer (Poster)
	Death Effects of Reveromycin A, A Potential Osteoporosis Therapeutic, in Cells of the Joint, Nathan Granger, Austin Greer, and Patricia Martinez (Oral)
	Cathepsin K Gene Expression Measurement in Cartilage-Forming Cells, Luke Hayden, Seth Baker, Christian Cuevas (Oral)
	Zoledronate-Induced Death Effects in Human Oral Keratinocytes, Ryan Smith, Zach Zylstra (Oral)

2016 Hodson Summer Research Institute Colloquium Presentation: Death Effects of Reveromycin A, a Potential Osteoporosis Therapeutic, in Cells of the Joint Lining, Seth Baker and Morgan Smith (Poster) 2017 132nd Annual Indiana Academy of Science Meeting Poster Presentations: Cathepsin K Gene Expression Measurement in Equine Chondrocytes, Christian Cuevas Characterization of Apoptosis and Necrosis Induced by Reveromycin A, a Potential Bone Anti-Resorptive Agent, in Normal Cells of the Joint, Patricia Martinez Use of Geranylgeraniol to Rescue Osteoblasts, Periodontal Ligament Fibroblasts, and Oral Keratinocytes from Zoledronate-Induced Cell Death, Ryan Smith and Sammy Oberholtzer 15th Annual IWU Celebration of Scholarship Presentations: 2017 Cathepsin K Gene Expression Measurement in Equine Chondrocytes, Christian Cuevas (Poster) Characterization of Apoptosis and Necrosis Induced by Reveromycin A, a Potential Bone Anti-Resorptive Agent, in Normal Cells of the Joint, Patricia Martinez (Poster) Death Effects of Reveromycin A, a Potential Osteoporosis Therapeutic, in Normal and Disease-Associated Cells of the Joint, Patricia Martinez, Morgan Smith, and Natassja Thomas (Oral) Death Effects of Reveromycin A in Diseased Synoviocytes of the Arthritic Joint, Morgan Smith (Poster) Zoledronate-Induced Death Effects in Human Oral Keratinocytes, Ryan Smith (Oral) Use of Geranylgeraniol to Rescue Osteoblasts, Periodontal Ligament Fibroblasts, and Oral Keratinocytes from Zoledronate-Induced Cell Death, Ryan Smith and Sammy Oberholtzer (Poster) Reveromycin A, a Potential Osteoporosis Therapeutic, Induces Apoptosis in Normal Synoviocytes Through a Mechanism Independent of Caspase 8 and 9, Natassja Thomas (Poster) Hodson Summer Research Institute Colloquium Presentations: 2017 Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Necrosis Rescue. Ethan Blake (Poster) Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Apoptosis Rescue, Jesse Maguire (Poster) Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Senescence Rescue, Preston Rippe (Poster) 2017 West Michigan Regional Undergraduate Science Research Conference Poster Presentations: Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Necrosis Rescue, Ethan Blake Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Apoptosis Rescue, Jesse Maguire

2018	Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Senescence Rescue, Preston Rippe 133rd Annual Indiana Academy of Science Meeting Poster Presentations: Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Necrosis Rescue, Ethan Blake and Morgan Smith
	Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Apoptosis Rescue, Jesse Maguire Improving Bone Health Knowledge in Selected Age 9-12 Indiana Students, Jaylin Miller and Alison Henry Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side
2018	Effect: Zoledronate-Induced Senescence Rescue, Preston Rippe 16th Annual IWU Celebration of Scholarship Presentations:
	Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Necrosis Rescue, Ethan Blake and Morgan Smith (Poster)
	Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Zoledronate-Induced Apoptosis Rescue, Jesse Maguire (Poster) Improving Bone Health Knowledge in Selected Age 9-12 Indiana Students, Jaylin Miller (Oral and Poster)
	Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side
2018	Effect: Zoledronate-Induced Senescence Rescue, Preston Rippe (Poster) Hodson Summer Research Institute Colloquium Presentation:
	Rescue of Zoledronate-Induced Death in Normal Human Oral Keratinocytes, Jacob Kirby (Poster)
2018	West Michigan Regional Undergraduate Science Research
	Conference Poster Presentation: Rescue of Zoledronate-Induced Death in Normal Human Oral
2018	Keratinocytes, Jacob Kirby Co-Mentored Completion of Graduate Master's Degree of Dental Science Thesis:
	Assessment of Senescence in an Oral Mucosal Model Treated with Bisphosphonate, Nur Bashira Binti Shaharuddin, Department of Restorative Dentistry, University of Malaysia, Kuala Lumpur, May 2018.
2019	17 th Annual IWU Celebration of Scholarship Presentations:
	Rescue of Osteoblasts from Zoledronate-Induced Apoptosis,
	Necrosis, and Senescence, Ethan Blake (Poster and Talk)
	Rescue of Zoledronate-Induced Death in Normal Human Oral
	Keratinocytes, Jacob Kirby (Poster)
	Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side
	Effect: Zoledronate-Induced Apoptosis Rescue, Jesse Maguire (Poster) Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side
	Effect: Zoledronate-Induced Senescence Rescue, Preston Rippe (Poster)

2019 Hodson Summer Research Institute Colloquium Presentation: Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Determination of Three Candidate Rescue Agent Doses, Tyler Cairncross (Poster) 2019 West Michigan Regional Undergraduate Science Research Conference Poster Presentation: Rescue of Human Oral Keratinocytes from a Bone Cancer Drug Side Effect: Determination of Three Candidate Rescue Agent Doses, Tyler Cairncross 2020 18th Annual IWU Celebration of Scholarship Poster Presentations (Virtual): Viability Rescue of Zoledronate-Treated Osteoblasts: A Comparison of Geranylgeraniol and Sodium Citrate Morgan Jessup Optimization of a Viability Rescue Assay in Human Oral Keratinocytes Jessica Binkley, Abigail Conrad, and Makayla Standfest Zoledronate-Induced Viability Loss: Determination of Rescue Agent Dosages in Human Oral Keratinocytes Jacob Kirby Viability Rescue of Zoledronate-Treated Osteoblasts: A Comparison of Geranylgeraniol and Phosphonoformic Acid Spencer Roose 18th Annual IWU Celebration of Scholarship Oral Presentations (Virtual): 2020 Zoledronate-Induced Viability Loss: Determination of Rescue Agent Dosages in Human Oral Keratinocytes Tyler Cairncross Should Preoperative Fascia Iliaca Block Be Used for Hip Arthroscopic Labral Repair and Femoroacetabular Impingement Treatment? A Prospective Single Blinded Randomized Study Alison Henry 2020 West Michigan Regional Undergraduate Science Research Conference (Virtual) Poster Presentations: Dose Optimization of Potential Topical Compounds for Treating Bisphosphonate-Related Osteonecrosis of the Jaw: Dose-Response Curve Determinations in Human Oral Keratinocytes and Gingival **Fibroblasts Charles Barnes** Rescue of Human Oral Keratinocytes and Gingival Fibroblasts from Zoledronate-Induced Viability Loss: Inroads to Lessening a Bone-Cancer Drug Side Effect **Evan Brown** Endocytosis Inhibition as a Rescue Strategy for Zoledronate-Induced Cell Death

Alex Cartwright

2021 136th Annual Indiana Academy of Science Meeting Poster Presentations:

Geranylgeraniol, Not Phosphonoformic Acid, Partially Rescues Human

Gingival Fibroblasts From Zoledronate-Induced Death

Jessica Binkley

Rescue of Human Oral Keratinocytes and Gingival Fibroblasts from Zoledronate-Induced Viability Loss: Inroads to Lessening a Bone-Cancer Drug Side Effect

Evan Brown

Endocytosis Inhibition as a Rescue Strategy for Zoledronate-Induced Cell Death

Alex Cartwright

Optimization of a Viability Rescue Assay in Human Oral Keratinocytes Abigail Conrad

Dynasore, A Dynamin Inhibitor, Prevents Zoledronate-Induced Human Gingival Fibroblast Death

Makayla Standfest

2021 19th Annual IWU Celebration of Scholarship Poster Presentations:

Geranylgeraniol, Not Phosphonoformic Acid, Partially Rescues Human Gingival Fibroblasts From Zoledronate-Induced Death

Jessica Binkley

Rescue of Human Oral Keratinocytes and Gingival Fibroblasts from Zoledronate-Induced Viability Loss: Inroads to Lessening a Bone-Cancer Drug Side Effect

Evan Brown

Endocytosis Inhibition as a Rescue Strategy for Zoledronate-Induced Cell Death

Alex Cartwright

Optimization of a Viability Rescue Assay in Human Oral Keratinocytes Abigail Conrad

Dynasore, A Dynamin Inhibitor, Prevents Zoledronate-Induced Human Gingival Fibroblast Death

Makayla Standfest

2021 19th Annual IWU Celebration of Scholarship Oral Presentations:

Compound Comparison Analysis for Human Gingival Fibroblast Viability Rescue: A Step Toward Prevention of the BRONJ Side Effect in Patients With Cancer Metastasis to Bone

Jessica Binkley and Makayla Standfest

Optimization of a Viability Rescue Assay in Human Oral Keratinocytes Abigail Conrad

2021 Hodson Summer Research Institute Colloquium Presentations:

Investigation of Compounds for Rescue of Human Gingival Fibroblasts From Zoledronate-Induced Death: A Step Toward the Treatment of Medication-Related Osteonecrosis of the Jaw

Tricalcalion Related Osteonoolo

Danielle Dadisman

	Visualization and Quantitation of TRITC-Dextran Uptake in Human Gingival Fibroblasts
	Colten Mowat Confocal Fluorescence Microscopy Visualization of Human Gingival Fibroblast Plasma Membrane with DiO Lipophilic Dye
	Daniel Wilmot
2021	West Michigan Regional Undergraduate Science Research Conference (Virtual) Poster Presentation:
	Confocal Fluorescence Microscopy Visualization of Human Gingival Fibroblast Plasma Membrane with DiO Lipophilic Dye Daniel Wilmot
2022	20 th Annual IWU Celebration of Scholarship Poster Presentations: Inhibition of Endosomal Acidification Prevents Zoledronate-Induced Viability Loss in Human Gingival Fibroblasts
	Evan Brown, Alex Cartwright, Colten Mowat, Danielle Dadisman, Conner Murphy, Teddy Houseman
	Analysis of Rescue From Zoledronate-Induced Death in Human Gingival Fibroblasts
	Danielle Dadisman, Colten Mowat, Daniel Wilmot
2022	20th Annual IWU Celebration of Scholarship Oral Presentation:
	Inhibition of Endosomal Acidification Prevents Zoledronate-Induced
	Viability Loss in Human Gingival Fibroblasts Evan Brown, Alex Cartwright
2022	Hodson Summer Research Institute Colloquium Presentation:
	Optimization of a CellProfiler™ Software Pipeline to Quantitate
	Fluorescently-Labeled Zoledronate Distribution in Human Gingival Fibroblasts
	Teddy Houseman, Conner Murphy
2023	21st Annual IWU Celebration of Scholarship Presentations:
	Visualization and Quantitation of TRITC-Dextran Uptake in Human
	Gingival Fibroblasts (Oral and poster presentations)
	Colten Mowat Endocytosis Inhibition as a Rescue Strategy for Zoledronate-Induced Cell
	Death (Oral and poster presentations)
	Alex Cartwright
	Optimization of a CellProfiler™ Software Pipeline to Quantitate
	Fluorescently-Labeled Zoledronate Distribution in Human Gingival Fibroblasts (Oral presentation)
	Teddy Houseman, Conner Murphy
	Optimization of a CellProfiler™ Software Pipeline to Quantitate
	Fluorescently-Labeled Zoledronate Distribution in Human Gingival Fibroblasts (Poster presentation)
	Conner Murphy

Optimization of a CellProfiler™ Software Pipeline to Quantitate Fluorescently-Labeled TRITC Dextran Endosomal Marker Distribution in Human Gingival Fibroblasts Teddy Houseman (Poster presentation) Hodson Summer Research Institute Colloquium Presentation: 2023 Investigation of Compounds for Prevention of Zoledronate-Induced Viability Loss in Osteoblasts and Osteoclasts Caleb Engelsman, Josh Haller (Poster presentation) 22nd Annual IWU Celebration of Scholarship Presentations: 2024 Investigation of Compounds for Prevention of Zoledronate-Induced Viability Loss in Osteoblasts and Osteoclasts Caleb Engelsman, Josh Haller (Poster presentation) The Dynamin Inhibitor, Dynasore, Prevents Zoledronate-Induced Viability Loss in Human Gingival Fibroblasts by Inhibiting Endosomal Acidification Caleb Engelsman, Josh Haller (Oral presentation) 2024 Hodson Summer Research Institute Colloquium Presentations: Investigation of Histatin-1 Effects on Migration and Spreading in Zoledronate-Treated Human Gingival Fibroblasts Ethan White, Daniella Joseph, Chloe Yoder, Kaiden Slater (Poster presentation) Preliminary Investigation of Histatin-1 Effects on Zoledronate-Induced Apoptosis in Human Gingival Fibroblasts Chloe Yoder, Kaiden Slater, Ethan White, Daniella Joseph (Poster presentation) PROFESSIONAL MEMBERSHIP: 2003-Indiana Academy of Science Cell Biology Section Co-Chair, 126th Annual Indiana Academy of Science 2011 Meeting, Indianapolis, Indiana Christian Medical & Dental Associations 2012-American Society for Pharmacology & Experimental Therapeutics 2013-**CONFERENCES AND WORKSHOPS:** 2003 Attended IWU Teaching Workshops—Introduction to Blackboard Technology, Writing World Changing Outcomes, and Teaching Tips Attended CCCU National New Faculty Workshop 2004 Attended Indiana University School of Medicine Premedical 2004 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

Attended Taylor University's Technology for Teaching Conference

Human Dignity

2005

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
2014	Attended the 2014 Global Missions Health Conference, Louisville, Kentucky, taking 10 IWU undergraduates
2018	Presenter and Leader, Biology Break Out Session, Annual Indiana CCCU Faith-Learning Integration Faculty Group Meeting

PUBLICATIONS:

Original Research Articles

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, 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.

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.

Mead, B., Morgan, H., Mann, A., Tedeschi, L., Sloan, C., Lang, S., Hines, C., Gragg, M., Stofer, J., Reimann, K., Derr, T., Heller, E., Collins, D., Landis, P., Linna, N., and **Jones, D.** Reveromycin A-Induced Apoptosis in Osteoclasts is Not Accompanied by Necrosis, *Journal of Cellular Biochemistry*, 2015,116(8):1646- 1657.

Svrcina, H., Greer, A., Baker, S., Smith, M., Martinez, P., Granger, N., Thomas, T., Miller, J., Steinke, E., Davitt, K., Sloane, E., Nugent, L., Sabo, R., Williams C., Lipton, M., and **Jones, D.** Death Effects of Reveromycin A in Normal and Disease-Associated Cells of the Joint, *Journal of Cellular Biochemistry*, 2018; 119 (6): 4382-4396.

Nur Bashira Shaharuddin, **Daniel Jones**, Wen Lin Chai. The Senescence Effect of Zoledronate on Three-Dimensional Oral Mucosa Model, *Sains Malaysiana*, 2022, 51(4): 1131-1142. http://doi.org/10.17576/jsm-2022-5104-15.

Jacob Kirby, Makayla Standfest, Jessica Binkley, Charles Barnes, Evan Brown, Tyler Cairncross, Alex Cartwright, Danielle Dadisman, Colten Mowat, Daniel Wilmot, Theodore Houseman, Conner Murphy, Caleb Engelsman, Josh Haller, **Daniel Jones**. The Dynamin Inhibitor, Dynasore, Prevents Zoledronate-Induced Viability Loss in Human Gingival Fibroblasts by Partially Blocking Zoledronate Uptake and Inhibiting Endosomal Acidification, *Journal of Applied Oral Science*, 2024, 32: http://dx.doi.org/10.1590/1678-7757-2024-0224.

Original Teaching Articles and Resources

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.

Research Abstracts

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

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

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, *Molecular Biology of the Cell*, November 2001 Supplement, 12:496A.

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.

Haley Svrcina, Ellen Steinke, Kelsey Davitt, Emily Sloane, Calli Williams, and **Dan Jones**, Death Effects of Reveromycin A in Chondrocytes and Synoviocytes, *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, *FASEB J* April 2014 28:663.15.

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

Dan Jones, Haley Svrcina, Ellen Steinke, Kelsey Davitt, Emily Sloane, Austin Greer, and Calli Williams, Death Effects of Reveromycin A in Normal and Diseased Synoviocytes, *FASEB J* April 2015 29:936.11.

S. Bashira, W.L. Chai, and **D.R. Jones**, Tissue Engineering of Normal Immortalized Oral Keratinocytes (OKF6) Co-Cultured at an Air-Liquid Interface with Normal Human Primary Oral Fibroblasts (pHOF): Potential Model for Osteonecrosis of the Jaw Studies, *Tissue Engineering: Part A* Volume 21, Supplement 1, 2015:S-258.

Review Articles

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.

Jones, D. (2014). Genetic Imprinting In B. Auday, 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.

Jones, Daniel R. A Potential Osteoporosis Target in the FAS Ligand/FAS Pathway of Osteoblast to Osteoclast Signaling, *Annals of Translational Medicine*, 2015, 3(14):1-5.

Jones, Daniel R. Blueberry Polyphenols and Their Effects on Bone and Joint, *Advances in Food Technology and Nutritional Sciences*, 2016, 2(1): 143-149.

INVITED TEXT REVIEW/NATIONAL COMMITTEES:

2005	Chapter review of genetics text, The Logic of Genetics, for Benjamin
	Cummings
2006	Chapter review of gapatics taxt iCapation 2nd adition for Paniamin

2006 Chapter review of genetics text, *iGenetics*, 2nd edition, for Benjamin Cummings

2006	American Chemical Society—2008 National Biochemistry Exam
2011	Committee Member, Contributor Chapter review of genetics laboratory text, Genetics Laboratory
2017	Investigations, 13 th edition, for Pearson Prentice Hall Chapter review of Molecular Biology of the Cell, 6 th edition, for Garland Science
SCIENTIFIC	JOURNAL PEER REVIEWER:
2016-	Journal of Natural Products (publication of the American Chemical Society)
2016-	Canadian Journal of Physiology and Pharmacology
2016-	Nutrients (publication of the Multidisciplinary Digital Publishing Group)
2016-	Journal of Investigative Medicine
2018-	Journal of Cellular Physiology
2018-	Experimental Biology and Medicine
2019-	Bone
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
2005	through IWU, two awarded Lilly Faculty Scholarship Grant through IWU, A Study of the Mechanisms
2003	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
2015	IWU Hodson Summer Research Institute Grant
2015	Lilly Faculty Scholarship Grant
2015	Lilly Experiential Learning Field Trip Grant
2015	Mentored two students' Lilly Student Research Award application through IWU, awarded
2016	IWU Hodson Summer Research Institute Grant
2016	Lilly Faculty Scholarship Grant
2017	Lilly Experiential Learning Field Trip Grant
2017	IWU Hodson Summer Research Institute Grant
2017	Lilly Faculty Scholarship Grant
2018	Lilly Experiential Learning Field Trip Grant
2018	IWU Hodson Summer Research Institute Grant
2018	IWU University Scholar Award Grant
2019	IWU Hodson Summer Research Institute Grant
2019	Indiana Academy of Science Senior Research Scientist Grant, Rescue of Human Oral Keratinocytes From a Bone Cancer Drug Side Effect: Relative Ability of Three Candidate Agents to Rescue
2020	IWU Hodson Summer Research Institute Grant
2021	IWU Hodson Summer Research Institute Grant
2022	IWU Hodson Summer Research Institute Grant
2023	IWU Hodson Summer Research Institute Grant
2024	IWU Hodson Summer Research Institute Grant

TEACHING:

Past Courses—

Anatomy & Physiology I Lab

Biochemistry II (Biochemistry of Nucleic Acids Lecture)

Biochemistry II Lab

Genetics (Integrated Lecture and Lab)

Human Biology Lecture and Lab for the Non-Science Major

Molecular Biology (Lecture and Lab)

Physiology/Pathophysiology (Lecture, IWU Doctorate of Physical Therapy

Program)

Current Courses—

Anatomy & Physiology I (Lecture)

Anatomy & Physiology II (Lecture)

Biology Research

Cell Biology (Lecture)

Nutrition for the Science Major (Lecture and Lab)

Dental Science (Integrated Lecture and Lab)

Preparing the Christian Health Professional (Lecture)

COMMUNITY SERVICE:

2000-	Coordinated my students' efforts on Operation Christmas Child
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:

CITIVEIXOII	CERTICE.
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
2005-2009	Ethics Essay Contest candidates Biology Department Co-Coordinator
2005-2009	Member, Indiana Wesleyan University Institutional Review Board
2006-2007	Chairman, Faculty Pre-Med Committee
2022-	Chairman, Faculty Pre-Med Committee Chairman, Faculty Pre-Health Care Sciences Program Committee
2006-2010	Faculty member, College of Arts and Sciences' Academic Advising
2000-2010	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
2012-2015	Faculty advisor for the IWU chapter of CMDA
2014	Chairman of Subcommittee for Lilly Faculty Research Awards and
2011	Chairman of Subcommittee for Provost's Outstanding Faculty Research Award
2017-2019	Member, Faculty Rank Promotion Committee
2017-	STEM Scholar mentor
2019-2021 2019-2021,	Member, University General Education Committee
2023-	Member, University Scholarship Council
2024-	Member, University Athletics Committee

CHURCH:

2002-04	Member, Grace Community Church, Noblesville, IN
2002-04	Participant, Community Group Bible Fellowship
2004-2019	Member, Harbour Shores Church, Cicero, IN

2004-2019	Participant, Ambassadors Adult Bible Study Fellowship
2004-05	1 st grade Sunday school teacher
2005-06	5 th grade Sunday school teacher
2006-2019	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
2014-2017	Walker nursery volunteer
2017-2019	4 th grade Sunday school teacher
2020-	Northview Church, Carmel, Indiana
2020-	Mens' S.O.A.P. Bible Study, Northview Church
2020-	Guest Services Ministry, Northview Church, Carmel, Indiana