

**Traci A. Wilgus, Ph.D.**  
The Ohio State University  
Department of Pathology  
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**Current Academic Position:**

2015-present Associate Professor (with tenure)  
The Ohio State University, Department of Pathology

**Other Current Positions:**

2022-present Visiting Scientist (Sabbatical/Faculty Professional Leave)  
University of Cape Town, Groote Schuur Hospital, Department of Medicine, Division of Dermatology, Hair and Skin Research Laboratory

2012-present Investigator  
The Ohio State University, Center for Regenerative Medicine and Cell-Based Therapies

2012-present Adjunct Faculty  
The Ohio State University, Comparative and Veterinary Medicine Graduate Program

2009-present Investigator  
The Ohio State University, Davis Heart and Lung Research Institute, Regenerative Medicine Program

2008-present Member  
The Ohio State University, Comprehensive Cancer Center, Molecular Carcinogenesis and Chemoprevention Program

2008-present Faculty Member  
The Ohio State University, Biomedical Sciences Undergraduate Program

2008-present Faculty Member  
The Ohio State University, Biomedical Sciences Graduate Program (*formerly the Integrated Biomedical Sciences Graduate Program*)

**Previous Positions:**

2008-2015 Assistant Professor  
The Ohio State University, Department of Pathology

2006-2007 Research Assistant Professor  
University of Illinois at Chicago, Department of Periodontics and Center for Wound Healing & Tissue Regeneration

2003-2006 Research Associate/Postdoctoral Fellow (Dr. Luisa DiPietro)  
Loyola University Medical Center, Department of Surgery and Burn & Shock Trauma Institute

2001-2003 Research Associate/Postdoctoral Fellow (Dr. Tatiana Oberyszyn)  
The Ohio State University, Department of Pathology

	Traci A. Wilgus, Ph.D.
1998-2001	Research Assistant/Graduate Student (Dr. Tatiana Oberyszyn) The Ohio State University, Department of Molecular Virology, Immunology & Medical Genetics
1996-1998	Student Research Assistant - Undergraduate (Dr. Michael Para) The Ohio State University, Division of Internal Medicine

### **Education:**

1998-2001	Doctor of Philosophy, Molecular Virology, Immunology & Medical Genetics The Ohio State University, Columbus, OH Dissertation Title: <i>Inflammation in ultraviolet light B-induced carcinogenesis, wound healing and fibrosis in adult and fetal murine skin.</i>
1995-1998	Bachelor of Science, Microbiology The Ohio State University, Columbus, OH

### ***Advanced Coursework***

2003	NCI-AACR sponsored Edward A. Smuckler Memorial <i>Pathobiology of Cancer</i> Workshop
2005	New England BioLabs Molecular Biology Summer Workshop

### **Honors and Awards:**

2022	Lumley Interdisciplinary Research Award, College of Engineering, Ohio State University (Group award to: S Prakash, R Machiraju, P Stoodley, D Wozniak, and T Wilgus)
2020	Drake Institute for Teaching and Learning Endorsement: Teaching Online, Ohio State University
2020	International Research and Scholar Grant, Ohio State University
2019	Symposium on Advanced Wound Care Wound Healing Research Scholarship Award
2019	Keynote Speaker, Biomedical Sciences Undergraduate Program Commencement, Ohio State University
2018	Institute for Teaching and Learning (UITL) Endorsement: Mentoring Faculty, Ohio State University
2014	Outstanding Poster Award, International Skin Carcinogenesis Conference, Tucson, AZ
2014	Selected Attendee, Junior Research Faculty Retreat, Society for Investigative Dermatology
2014	Connect Networking and Travel Award for Women Faculty in STEMM fields, Center for Comprehensive Equity at Ohio State
2013	Selected Attendee, Early Career Women Faculty Professional Development Seminar, Association of American Medical Colleges (AAMC)
2011	Excellence in Teaching Award, College of Medicine and Department of Pathology, The Ohio State University
2010	Novera Pharmaceuticals Junior Faculty Travel Award to attend the Wound Healing Society Meeting
2009	Young Investigator Travel Award to attend the Gordon Research Conference on Tissue Repair and Regeneration
2005	Farber Travel Award to attend the Montagna Symposium on the Biology of Skin

- 2005 Merit Award, American Society for Investigative Pathology
- 2003 Travel Fellowship and Selected Attendee, NCI-AACR sponsored Edward A. Smuckler Memorial *Pathobiology of Cancer* Workshop
- 2003 Travel Fellowship to attend the International Investigative Dermatology/Society for Investigative Dermatology Meeting
- 2001 Cayman Chemical Travel Award to attend the Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases Conference
- 2001 Travel Award to attend the Gordon Research Conference on Tissue Repair and Regeneration
- 2000 First Place Talk, Graduate Student Colloquium, The Ohio State University

## **Publications:**

### **Book Chapters**

1. **TA Wilgus.** 2020. *Fetal wound healing.* In: Wound Healing, Tissue Repair and Regeneration in Diabetes. Eds: D Bagchi, A Das, and S Roy, Academic Press, London, UK. pp 579-591. Print ISBN: 978-0-12-816413-6; E-Book ISBN: 978-0-12-816414-3
2. BC Wulff and **TA Wilgus.** 2013. *Examining the role of mast cells in fetal wound healing using cultured cells in vitro.* In: Wound Regeneration and Repair: Methods and Protocols, Methods in Molecular Biology, Vol. 1037. Eds: R Gourdie and T Meyers, Humana Press, New York, NY. pp 495-506. Print ISBN: 978-1-62703-504-0; E-Book ISBN: 978-1-62703-505-7.
3. **TA Wilgus** and BC Wulff. 2012. *Mast cells in chronic inflammation.* In: Chronic inflammation: Molecular Pathophysiology, Nutritional and Therapeutic Interventions. Eds: S Roy, D Bagchi and SP Raychaudhuri, CRC Press, Taylor & Francis Group, Boca Raton, FL. pp. 35-50. Print ISBN: 978-1-4398-7211-6; E-Book ISBN: 978-1-4398-7215-4.
4. **TA Wilgus.** 2010. *Lipid Mediators: Important regulators of cutaneous wound inflammation.* In: Advances in Wound Care, Volume 1: Translational Medicine: From Benchtop to Bedside to Community and Back. Ed: CK Sen, Mary Ann Liebert Publishers, NY, NY. pp 230-235. Print ISBN: 1-934854-01-8; E-Book ISBN: 978-1-934854-18-1.

### **Journal Articles**

1. S Ghatak, S Khanna, S Roy, M Thirunavukkarasu, SR Pradeep, BC Wulff, M El Masry, A Sharma, R Palakurti, N Ghosh, Y Xuan, **TA Wilgus**, N Maulik, MC Yoder, and CK Sen. 2023. *Driving adult tissue repair via re-engagement of a pathway required for fetal healing.* Mol Ther 31(2): 454-470.
2. LMG Neves, **TA Wilgus**, A Bayat. 2023. *In vitro, ex vivo and in vivo approaches for investigation of skin scarring: Human and animal models.* Adv Wound Care 12(2): 97-116.
3. D. Chesko and **TA Wilgus.** 2022. Immune cells in cutaneous wound healing: A review of functional data from animal models. Int J Mol Sci 23(5): 2444.
4. R Heald, S Salyer, K Ham, **TA Wilgus**, VV Subramaniam, S Prakash. 2022. *Electroceutical treatment of infected chronic wounds in a dog and a cat.* Vet Surg 51(3): 520-527.
5. S Ud-Din, **TA Wilgus**, DD McGeorge, and A Bayat. 2021. *Pre-emptive priming of human skin improves cutaneous scarring and is superior to immediate and delayed topical anti-scarring treatment post-wounding: A double-blind randomized placebo-controlled trial.* Pharmaceutics 13(4): 510.

6. **TA Wilgus**. 2021. *A murine incisional fetal wound healing model to study scarless and fibrotic skin repair*. Methods Mol Biol 2193: 13-21.
7. LA DiPietro, **TA Wilgus**, TJ Koh. 2021. *Macrophages in healing wounds: Paradoxes and paradigms*. Int J Mol Sci 22(2): 950.
8. **TA Wilgus**, S Ud-Din, A Bayat. 2020. *A review of the evidence for and against a role for mast cells in cutaneous scarring and fibrosis*. Int J Mol Sci 21(24): 9673.
9. SC Gnyawali, M Sinha, MS El Masry, BC Wulff, S Ghatak, F Soto-Gonzalez, **TA Wilgus**, S Roy, and CK Sen. 2020. *High Resolution ultrasound imaging for repeated measure of wound tissue morphometry, biomechanics, and hemodynamics under fetal, adult and diabetic conditions*. PLoS One 15(11): e0241831.
10. **TA Wilgus**. 2020. *Inflammation as an orchestrator of cutaneous scar formation: A review of the literature*. Plast Aesthet Res 7(54) 1-18.
11. S Ud-Din, **TA Wilgus**, and A Bayat. 2020. *Mast cells in skin scarring: A review of animal and human research*. Front Immunol 11:552205.
12. BN Blackstone, **TA Wilgus**, S Roy, BC Wulff, and HM Powell. 2020. *Skin biomechanics and miRNA expression following chronic UVB Irradiation*. Adv Wound Care 9(3): 79-89.
13. **TA Wilgus**. 2019. *Vascular endothelial growth factor and cutaneous scarring*. Adv Wound Care 8(12): 671-678.
14. BC Wulff, NK Pappa, and **TA Wilgus**. 2019. *Interleukin-33 encourages scar formation in murine fetal skin wounds*. Wound Repair Regen 27(1) 19-28.
15. **TA Wilgus**. 2018. *Alerting the body to tissue injury: The role of alarmins and DAMPs in cutaneous wound healing*. Curr Pathobiol Rep 6(1): 55-60.
16. **TA Wilgus**. 2017. *New mechanisms of ECM production during wound healing: A role for parathyroid hormone 2 receptor signaling*. J Invest Dermatol 137(8): 1617-1619.
17. DM DeBruler, BN Blackstone, ME Baumann, KL McFarland, BC Wulff, **TA Wilgus**, JK Bailey, DM Supp, and HM Powell. 2017. *Inflammatory responses, matrix remodeling, and re-epithelialization after fractional CO<sub>2</sub> laser treatment of scars*. Lasers Surg Med 49(7): 675-685.
18. D Gallego-Perez, JJ Otero, C Czeisler, J Ma, C Ortiz, P Gygli, FP Catacutan, HN Gokozan, A Cowgill, T Sherwood, S Ghatak, V Malkoc, X Zhao, WC Liao, S Gnyawali, X Wang, AF Adler, K Leong, B Wulff, **TA Wilgus**, C Askwith, S Khanna, C Rink, CK Sen, and LJ Lee. 2016. *Deterministic transfection drives efficient nonvital reprogramming and uncovers reprogramming barriers*. Nanomedicine 12(2): 399-409.
19. KE Johnson and **TA Wilgus**. 2014. *Angiogenesis and VEGF in the regulation of cutaneous wound repair*. Adv Wound Care 3(10):647-661.
20. **TA Wilgus** and BC Wulff. 2014. *The importance of mast cells in dermal scarring*. Adv Wound Care 3(4): 356-365.
21. L Chen, ME Schrementi, MJ Ranzer, **TA Wilgus**, LA DiPietro. 2014. *Blockade of mast cell activation reduces cutaneous scar formation*. PLoS One 9(1): e85226.
22. KE Johnson, BC Wulff, TM Oberyszyn, and **TA Wilgus**. 2013. *Ultraviolet light exposure stimulates HMGB1 release by keratinocytes*. Arch Dermatol Res 305(9): 805-815.
23. **TA Wilgus**, S Roy, and JC McDaniel. 2013. *Neutrophils and wound repair: Positive actions and negative reactions*. Adv Wound Care 2(7): 379-388.

24. BC Wulff and **TA Wilgus**. 2013. *Mast cell activity in the healing wound: More than meets the eye?* Exp Dermatol 22(8): 507-510.  
\*\*Featured on the MDLinx.com website, which provides medical news information to physicians
25. JC McDaniel, S Roy, and **TA Wilgus**. 2013. *Neutrophil Activity in Chronic Venous Leg Ulcers – A Target for Therapy?* Wound Repair Regen 21(3): 339-351.
26. AD Dardenne, BC Wulff, and **TA Wilgus**. 2013. *The alarmin HMGB-1 influences healing outcomes in fetal skin wounds*. Wound Repair Regen 21(2): 282-291.
27. BC Wulff and **TA Wilgus**. 2013. *Examining the role of mast cells in fetal wound healing using cultured cells in vitro*. Methods Mol Biol 1037: 495-506.
28. BC Wulff, L Yu, AE Parent, and **TA Wilgus**. 2013. *Novel differences in the expression of inflammation-associated genes between mid- and late-gestational dermal fibroblasts*. Wound Repair Regen 21(1): 103-112.
29. ST Yeh, SE Aune, **TA Wilgus**, AE Parent, and MG Angelos. 2013. *Hyperoxemic reperfusion after prolonged cardiac arrest in a rat cardiopulmonary bypass resuscitation model*. Resuscitation 84(1): 114-120.
30. KE Johnson and **TA Wilgus**. 2012. *Multiple roles for VEGF in non-melanoma skin cancer: Angiogenesis and beyond*, J Skin Cancer 2012 (483439): 1-6.
31. **TA Wilgus**. 2012. *Growth factor-extracellular matrix interactions regulate wound repair*. Adv Wound Care 1(6): 249-254.
32. **TA Wilgus** and LA DiPietro. 2012. *Complex roles for VEGF in dermal wound healing*. J Invest Dermatol 132(2): 493-494.
33. BC Wulff, AE Parent, MA Meleski, LA DiPietro, ME Schrementi, and **TA Wilgus**. 2012. *Mast cells contribute to scar formation during fetal wound healing*. J Invest Dermatol 132(2): 458-465.  
\*\*Evaluated by Faculty of 1000 (Must Read Article)  
Evaluation citation: <http://f1000.com/13570963>  
\*\*Featured as the 'Journal Club Article' for Feb 2012 issue of J Invest Dermatol
34. **TA Wilgus**, AM Ferreira, TM Oberyszyn, VK Bergdall, and LA DiPietro. 2008. *Regulation of scar formation by vascular endothelial growth factor*. Lab Invest 88(6): 579-590.  
\*\*Evaluated by Faculty of 1000 (Recommended Article)  
Evaluation citation: <http://f1000.com/1109096>  
\*\*Featured on the MDLinx.com website, which provides medical news information to physicians
35. ME Kleinman, K Yamada, A Takeda, V Chandrasekaran, M Nozaki, JZ Baffi, RJC Albuquerque, S Yamasaki, M Itaya, Y Pan, B Appukuttan, D Gibbs, Z Yang, K Karikó, BK Ambati, **TA Wilgus**, LA DiPietro, E Sakurai, K Zhang, JR Smith, EW Taylor, and J Ambati. 2008. *Sequence- and target-independent angiogenesis suppression by siRNA via TLR3*. Nature 452(7187): 591-598.
36. **TA Wilgus**. 2008. *Immune cells in the healing skin wound: influential players at each stage of repair*. Pharmacol Res 58(2): 112-116.
37. **TA Wilgus**. 2007. *Regenerative healing in fetal skin: A review of the literature*. Ostomy Wound Manage 53(6): 16-31.
38. KL Tober, **TA Wilgus**, DF Kusewitt, JM Thomas-Ahner, T Maruyama, and TM Oberyszyn. 2006. *Importance of the EP<sub>1</sub> receptor in cutaneous UVB-induced inflammation and tumor development*. J Invest Dermatol 126: 205-211.

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39. **TA Wilgus**, AM Matthies, KA Radek, J Dovi, A Burns, R Shankar, and LA DiPietro. 2005. *Novel function for vascular endothelial growth factor receptor-1 on epidermal keratinocytes*. Am J Pathol 167(5): 1257-1266.
40. **TA Wilgus**, VK Bergdall, LA DiPietro, and TM Oberyszyn. 2005. *Hydrogen peroxide disrupts scarless fetal wound repair*. Wound Repair Regen 13(5): 513-519.
41. **TA Wilgus**, VK Bergdall, KL Tober, KJ Hill, S Mitra, NA Flavahan, and TM Oberyszyn. 2004. *The impact of cyclooxygenase-2 mediated inflammation on scarless fetal wound healing*. Am J Pathol 165(3): 753-761.
42. **TA Wilgus**, TS Breza, Jr., and TM Oberyszyn. 2004. *Treatment with 5-fluorouracil and celecoxib displays synergistic regression of ultraviolet light B-induced skin tumors*. J Invest Dermatol 122(6) 1488-1494.
43. **TA Wilgus**, AT Koki, B Zweifel, PA Rubal, DF Kusewitt, and TM Oberyszyn. 2003. *Inhibition of cyclooxygenase-2 activity with topical celecoxib blocks cutaneous ultraviolet light-B mediated inflammation and tumor formation*. Mol Carcinog 38(2) 49-58.
44. **TA Wilgus**, AT Koki, B Zweifel, PA Rubal, and TM Oberyszyn. 2003. *Chemotherapeutic efficacy of topical celecoxib in a murine model of ultraviolet light B induced skin cancer*. Mol Carcinog 38(1) 33-39.
45. **TA Wilgus**, Y Vodovotz, E Vittadini, EA Clubbs, and TM Oberyszyn. 2003. *Reduction of scar formation in full-thickness wounds with topical celecoxib treatment*. Wound Repair Regen 11(1) 25-34.
46. **TA Wilgus**, ML Parrett, MS Ross, KL Tober, FM Robertson, and TM Oberyszyn. 2002. *Inhibition of ultraviolet light B-induced cutaneous inflammation by a specific cyclooxygenase-2 inhibitor*. Adv Exp Med Biol 507: 85-92.
47. TM Oberyszyn, FM Robertson, KL Tober, MS Ross, ML Parrett, **TA Wilgus**, S Iyer, J Woo, and R Buelow. 2001. *Inhibition of cutaneous ultraviolet light-induced tumor necrosis factor-alpha protein production by Allotrap 1258, a novel immunomodulatory peptide*. Photochem Photobiol 73(2) 184-190.
48. **TA Wilgus**, MS Ross, ML Parrett, and TM Oberyszyn. 2000. *Topical application of a selective cyclooxygenase inhibitor suppresses UVB mediated cutaneous inflammation*. Prostaglandins Other Lipid Mediat 62(4) 367-384.

## **Funding:**

### **Federal Grants**

#### ***Current:***

R21 AR078022

7/1/21-6/30/24

NIH/NIAMS

*Understanding the role of VEGF in scar formation*

Role: Principal Investigator

The main goal of the proposed studies is to determine whether VEGF can directly promote scar formation by stimulating dermal fibroblasts.

#### ***Completed:***

R21 AR071115

3/1/17-2/28/20

NIH/NIAMS

*Evaluation of a novel pro-fibrotic regulatory pathway in the skin*

Role: Principal Investigator

The primary goals of the studies proposed in this grant are to examine the role of Fetuin-A in cutaneous scar formation.

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R21 ES022749

12/01/13-11/30/16

NIH/NIEHS

*Interleukin-33 in skin carcinogenesis*

Role: Principal Investigator

The primary goals of the studies proposed in this grant are to examine the function of IL-33 in UV-induced inflammation and to determine the importance of IL-33 in UV-induced skin carcinogenesis.

R21 ES020462

8/13/12-7/31/15

NIH/NIEHS

*Mast cells, immunosuppression and skin cancer*

Role: Principal Investigator

The studies outlined in this grant will determine the role of mast cells in UV-induced skin carcinogenesis and examine the ability of mast cells to enhance the tumor-promoting ability of cyclosporine.

R01 CA127109

9/21/07-7/31/15

NIH/NCI

*Keratinocyte responses to VEGF in carcinogenesis*

Role: Principal Investigator

This project will assess whether direct signaling of VEGF through VEGFR-1 in keratinocytes is involved in skin carcinogenesis.

R01 CA127109-S1

6/15/09-9/30/10

NIH/NCI

*Keratinocyte responses to VEGF in carcinogenesis*

Role: Principal Investigator

This was an American Recovery and Reinvestment Act (ARRA) supplement to fund a summer undergraduate student.

### Local/Institutional Funding

2009-2017	Unspecified Research Funds, Bruning Foundation (approximately \$50,000 over 8 years)
2009-2014	OSU Comprehensive Cancer Center Research Enhancement and Assistance Program (REAP) Funds (approximately \$20,000 over 5 years)
2014-2014	Pilot Funds, OSU Comprehensive Cancer Center Molecular Carcinogenesis and Chemoprevention Program (\$5,000) Title: <i>Macrophage-dependent effects of VEGF during skin carcinogenesis</i>
2013-2013	Pilot Funds, OSU Comprehensive Cancer Center Molecular Carcinogenesis and Chemoprevention Program (\$5,000) Title: <i>Interleukin-33 in inflammation and skin carcinogenesis</i>
2013-2013	Funds for Biostats Support, Center for Clinical and Translational Science (CCTS) Title: <i>Identification of novel fibroblast genes regulating skin regeneration and scarless healing</i>

### Fellowships

Wound Healing Foundation-3M Fellowship	7/1/05-6/30/07 <i>VEGF receptor signaling in dermal fibroblasts: implications for scarring</i>
NIH-NIGMS NRSA Fellowship F32 GM072196	8/20/04-3/31/06 <i>VEGF-induced angiogenesis and scar formation</i>
Ladies Auxiliary VFW	7/1/02-6/30/03

## **Professional Activities and Memberships:**

### **Society Memberships**

2004-present	American Society for Investigative Pathology
2002-present	Wound Healing Society
2001-present	Society for Dermatology
1999-2016	American Association for Cancer Research
1999-2016	Women in Cancer Research

### **Society Leadership Positions**

2022-2024	Board Member, Wound Healing Foundation (WHS representative)
2020-2025	Executive Leadership, Wound Healing Society <i>Executive Committee Member 2020-2025, and:</i> <i>-Vice President 2021-2022</i> <i>-President-Elect 2022-2023</i> <i>*President 2023-2024 (current role)</i> <i>-Past-President 2024-2025</i>
2019-2021	Member at Large, Board of Directors, Wound Healing Society
2016-2019	Secretary and Executive Board Member, Wound Healing Society
2013-2016	Board of Directors, Wound Healing Society
2014-2015	Co-Chair, Program Committee, Wound Healing Society

### **Society Committee Positions**

2021-present	Member, Nominations Committee, Wound Healing Society
2021-present	Member, International Relations Committee, Wound Healing Society
2010-present	Member, Abstract Review Subcommittee, Wound Healing Society
2010-present	Member, Program Committee, Wound Healing Society
2018-2019	Member, Wound Repair Regeneration Task Force, Wound Healing Society
2018-2019	Member, Finance Committee, Wound Healing Society
2014-2015	Member, Annual Meeting Task Force, Wound Healing Society
2011-2014	Member, Awards Committee, Wound Healing Society
2008-2011	Member, Website Committee, Wound Healing Society



### Conference Activities

2013-present	Judge, Young Investigator Awards Oral Presentations, Wound Healing Society Meeting
2022	Session moderator, Tissue Regeneration and Wound Healing, Society for Investigative Dermatology Meeting
2022	Session moderator, Immune Cells and Wound Healing, Wound Healing Society Meeting
2021	Session moderator, Cancer and Chronic Wounds, Wound Healing Society Meeting
2019	Session moderator, Advances in Wound Technologies, Wound Healing Society Meeting
2017-2019	Mentor, Meet the Mentors Session, Wound Healing Society Meeting
2018	Session moderator, Chronic Wounds Concurrent Abstract Session, Wound Healing Society Meeting
2018	Abstract reviewer, Society for Investigative Dermatology/International Investigative Dermatology Meeting
2017	Session moderator, Molecular Mechanisms of Wound Repair Session, Wound Healing Society Meeting
2017	Session moderator, Acute Wounds Concurrent Abstract Session, Wound Healing Society Meeting
2017	Co-chair, Poster Award Committee, Translational to Clinical Wound Care Conference
2016	Session moderator, Inflammation Session, Wound Healing Society Meeting
2015	Co-Chair, Wound Healing Society Annual Meeting
2014	Chair and Organizer, Scientific Symposium for American Association of Anatomists Meeting Session Title: <i>Inflammation: At the Crossroads of Regeneration and Repair</i>
2014	Session moderator, Nervous System and Wound Healing Session, Wound Healing Society Meeting
2014	Invited participant, Association of Specialty Professors (ASP) Workshop on Wound Healing and Aging, Washington, DC
2013	Poster judge, American Physician Scientists Association's (APSA) Midwest Regional Meeting
2013	Session moderator, Guest Society Session: Society for Investigative Dermatology, Wound Healing Society Meeting
2012-13,2016	Organizer, Meet the Mentors Session, Wound Healing Society Meeting
2012	Session moderator, Diabetes Session, Wound Healing Society Meeting
2011-2013	Session moderator, Translational to Clinical Wound Care Conference
2010-2012	Program committee member, International Skin Carcinogenesis Conference
2011-2012	Poster judge, Translational to Clinical Wound Care Conference
2009-2011	Co-organizer, Meet the Mentors Session, Wound Healing Society Meeting

2011	Session moderator, Gene Expression and Angiogenesis Session, Wound Healing Society Meeting
2011	Panel discussant, Translational to Clinical Wound Care Conference
2010	Session moderator, Biologicals (Gene Therapy/Stem Cells/Growth Factors) and Angiogenesis Session, Wound Healing Society Meeting
2009	Session moderator, Wound Infection/Inflammation Session, Wound Healing Society Meeting
2009	Invited participant, Workshop on Systems Biology and Wound Healing, Riverside, CA
2006	Session moderator, Chronic Wound Healing Session, Wound Healing Society Meeting

### **Grant Review Activities**

2014-2022	Ad hoc reviewer, NIH Grants, Arthritis, Connective Tissue and Skin (ACTS) Study Section [2/14, 6/14, 10/15, 2/16, 6/16, 6/17, 2/18, 10/18, 6/19, 6/20, 6/22]
2022	Ad hoc reviewer, International Research Award, Office of International Affairs, Ohio State University
2022	Ad hoc reviewer and Co-Chair, NIH Special Emphasis Panel, Promoting a Basic Understanding of Chemical Threats to the Skin, ZRG1 MOSS-L (02)
2022	Ad hoc reviewer, NIH Special Emphasis Panel, Member Conflict: Arthritis, Connective Tissue and Skin Sciences, ZRG1 MOSS-L (90)
2022	Ad hoc reviewer, Pelotonia Undergraduate Fellowship Applications, Ohio State University
2021	Ad hoc reviewer, Scleroderma Foundation
2021	Ad hoc reviewer, Department of Defense, Congressionally Directed Medical Research Program (CDMRP)
2021	Ad hoc reviewer, Dutch Research Council, Netherlands Organisation for Scientific Research, Applied and Engineering Sciences Grant
2021	Ad hoc reviewer, Department of Defense, Combat Readiness-Medical Research Program (CRRP)
2017-2020	Ad hoc reviewer, Department of Veterans Affairs (VA) Grants, Oncology E (Onc E) Review Panel [11/17, 5/18, 11/20]
2020	Ad hoc reviewer, Canterbury Medical Research Foundation (New Zealand) Grants
2020	Ad hoc reviewer, Pelotonia Undergraduate Fellowship Applications, Ohio State University
2020	Ad hoc reviewer, Military Infectious Diseases Research Program, Wound Infections Panel
2019	External Referee, British Skin Foundation Research Awards
2019	Ad hoc reviewer, Wellcome Trust (UK), Sir Henry Dale Fellowships
2019	Ad hoc reviewer, NIH U24 Grants, Dental, Oral and Craniofacial Tissue Regeneration Consortium Stage 3, ZDE1 YM (10)

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2019	Ad hoc reviewer, Department of Defense, Pre-application – Tissue Regeneration-1 (PRE-TR-1) Panel
2015-2019	Ad hoc reviewer, NIH Special Emphasis Panel, Dermatology and Rheumatology, ZRG1 MOSS-U12 Small Business [7/15, 3/16, 11/16, 3/17, 11/17, 3/18, 7/18, 11/18, 3/19]
2014, 2018-19	Ad hoc reviewer, Medical Research Council (UK) Grants
2018	Ad hoc reviewer, Pelotonia Post-Doctoral Fellowship Applications, Ohio State University
2018	Ad hoc reviewer, Department of Defense, Pre-application – Tissue Regeneration-3 (PRE-TR-3) Panel
2014-2018	Ad hoc reviewer, NIH Special Emphasis Panel, Rheumatology and Dermatology, ZRG1 MOSS-U02 [3/14, 10/14, 3/15, 11/17, 7/18]
2016-2018	Reviewer, Wound Healing Foundation-3M Fellowships
2017-2018	Ad hoc reviewer, Department of Veterans Affairs (VA) Grants, Oncology E (Onc E) Review Panel [11/17, 5/18]
2009-2017	Permanent reviewer, Military Infectious Diseases Research Program, Wound panel
2014-2016	Ad hoc reviewer, Department of Veterans Affairs (VA) Grants, Immunology and Dermatology (IMMA) Review Panel [6/14, 12/14, 6/15, 12/15, 6/16, 11/16]
2014	Ad hoc reviewer, Medical Research Council (UK) Fellowships
2014	Ad hoc reviewer, Nazarbayev University Research Proposal Review, Oak Ridge Associated Universities
2014	Ad hoc reviewer, Center for Clinical and Translational Science (CCTS) Pilot Grants, Ohio State University
2013-2014	Ad hoc reviewer, Swiss National Science Foundation Grants
2013	Reviewer, Department of Defense, US Army Medical Research and Materiel Command Research Grants, Care for the Critically Injured Burn Patient II (CCIBP-II)
2012	Reviewer, NIH Provocative Questions Grants, ZCA1 SRLB-D (M2), Phase II on site-review
2012	Reviewer, NIH Provocative Questions Grants, ZCA1 SRLB-D (M1) R and ZCA1 SRLB-9 (M1) R, Phase I mail review
2010-2012	Reviewer, Bankhead-Coley Cancer Research Program Grants, Florida Department of Health
2010-2012	Reviewer, Pennsylvania Department of Health Research Grants
2009-2012	Ad hoc reviewer, US Army Medical Research and Materiel Command (USAMRMC) Research Grants
2010	Reviewer, James and Esther King Biomedical Research Program, Florida Department of Health
2009	Ad hoc reviewer, NIH Challenge Grants, ZRG1 OBT-A (58) R
2009	Ad hoc reviewer, NIH Challenge Grants, ZRG1 SBIB-V (58) R

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2008-2009	Reviewer, American Cancer Society Pilot Grant Program
2008	Ad hoc reviewer, NIH-SMEP study section, ZRG1 MOSS-H (12) ACTS Small Business
2007	Ad hoc reviewer, U.S. Army Research Office Grant, Life Sciences Division
2007	Ad hoc reviewer, NSF CAREER Award, Developmental Systems Program

### **Consulting**

2016	Amicus Therapeutics <i>Description of services:</i> Served on Epidermolysis Bullosa/Wound Healing Advisory Board.
2012	ORC International <i>Description of services:</i> Acted as a consultant for an industry client of ORC International Consultancy Firm. Answered questions, helped brainstorm, and judged the potential of research projects related to the health and repair of fetal and newborn skin.

## **Editorial Board Appointments/Manuscript Review Activities:**

### **Editorships and Editorial Board Service**

2020-present	Deputy Editor (Basic Science), Wound Repair Regeneration
2020-present	Editorial Board Member, Plastic and Aesthetic Research
2011-present	Editorial Board Member, Advances in Wound Care
2008-present	Editorial Board Member, Ostomy Wound Management
2020-2021	Guest Editor, special edition of Advances in Wound Care on 'Scar Tissue/Fibrosis'
2017-2020	Editorial Board (Editorial Consultant), Journal of Investigative Dermatology
2015-2017	Associate Editor, Journal of Investigative Dermatology
2012-2014	Guest Editor, special edition of Advances in Wound Care on 'Wound Vascularization'
2006-2008	Managing Editor, special edition of Frontiers in Bioscience, 'Emerging trends in wound repair' (Launch Date: January 2007)

### **Manuscript Reviews**

Advances in Wound Care [2009-11, 2013-14, 2017-2021]

ACS Central Science [2016]

Aesthetic Surgery Journal [2018]

Aging Research Reviews [2016-17]

American Journal of Pathology [2016]

Antioxidants and Redox Signaling [2019]

Archives of Dermatological Research [2008, 2010-13, 2015, 2019]

Autonomic Neuroscience: Basic and Clinical [2019]

Blood [2013]

BMC Cancer [2006, 2007-2009]

BMC Cell Biology [2014]

BMC Research Notes [2020]

Carcinogenesis [2011]

Cell Proliferation [2014]

Cytokine [2011, 2014, 2016-17]

Data in Brief [2019]

Dermatology Research and Practice [2010]

Diabetes [2012-2015, 2018-19]

European Journal of Cell Biology [2015-2016]

European Journal of Dermatology [2018]

Experimental Biology and Medicine [2010]

Experimental Dermatology [2015-2016, 2018]

Expert Opinion on Biological Therapy [2013]

FASEB Journal [2016, 2020]

Frontiers in Bioscience [2006-2008]

Frontiers in Cell and Developmental Biology [2020]

Frontiers in Immunology [2017-2018]

Inflammation [2018, 2020]

International Journal of Experimental Pathology [2013]

International Journal of Molecular Sciences [2012-2014]

International Wound Journal [2016, 2019, 2022]

Journal of the American College of Surgeons [2006, 2018]

Journal of Burn Care & Rehabilitation [2005]

Journal of Clinical Investigation [2018, 2020]

Journal of Endocrinology [2021]

Journal of Investigative Dermatology [2007-2021]

Journal of Investigative Dermatology-Innovations [2021]  
Journal of Leukocyte Biology [2020]  
Journal of Pathology [2010, 2019, 2022]  
Journal of Visualized Experiments (JoVE) [2014, 2017, 2019]  
Laboratory Investigation [2019, 2020, 2021]  
Mechanisms of Ageing and Development [2021]  
Molecular Carcinogenesis [2007, 2017]  
Molecular Medicine [2009, 2015]  
Molecular Therapy [2020]  
Nature Communications [2020]  
Oncotarget [2015]  
Open Biology [2020]  
Ostomy Wound Management [2009-2018]  
Plastic and Aesthetic Research [2021]  
PLoS One [2009-10, 2013-2018]  
Recent Patents on Regenerative Medicine [2010]  
Regeneration [2017]  
Regenerative Medicine [2009]  
Saudi Medical Journal [2007]  
Scientific Reports [2015-2016, 2020-21]  
Science Translational Medicine [2021]  
Stem Cells and Translational Medicine [2019, 2020]  
Toxicology [2009]  
Wound Management and Prevention [2019, 2020]  
Wound Repair and Regeneration [2007-09, 2012-present]

## **Invited Presentations:**

### **Academic Lectures at Outside Institutions**

- 2022 *Identification of novel regulators of scar formation using animal models*, Division of Dermatology Seminar, Department of Medicine, University of Cape Town, Cape Town, South Africa
- 2022 *Cellular and molecular mechanisms of scarless healing*, Microbiology and Immunology Seminar, University of Miami, Miami, FL (virtual delivery)
- 2018 *The importance of mast cells in wound healing and scar formation*, Dermatology Medical Science Training Program Annual Conference, University of Miami, Miami, FL
- 2018 *Scarless wound healing: Lessons learned from fetal skin*, Cell, Molecular and Developmental Biology Seminar, Tufts University, Boston, MA
- 2015 *Regulation of skin regeneration and repair: The role of inflammation*, Pharmacology and Toxicology Seminar, Wright State University, Dayton, OH
- 2015 *Dissecting the cellular mechanisms of skin regeneration following injury: The role of inflammatory cell-fibroblast crosstalk*, Cell, Molecular, and Developmental Biology Seminar, University of California-Riverside, Riverside, CA
- 2012 *Inflammation and immunosuppression in non-melanoma skin cancer*, Mari Lowe Center for Comparative Oncology Seminar, University of Pennsylvania, Philadelphia, PA
- 2010 *Fetal wound healing: Old concepts and new ideas*, McGowan Institute for Regenerative Medicine Seminar, University of Pittsburgh, Pittsburgh, PA
- 2010 *Healing in fetal skin: Clues for enhancing wound repair*, Department of Dermatology Grand Rounds, University of Miami, Miami, FL
- 2007 *Functional roles for VEGF in the skin: Not just for angiogenesis anymore*, Department of Pathology, The Ohio State University, Columbus, OH (\*invited while at University of Illinois-Chicago)
- 2007 *New roles for VEGF in wound healing and skin carcinogenesis*, Columbus Children's Research Institute Seminar, Columbus Children's Hospital, Columbus, OH (\*invited while at University of Illinois-Chicago)
- 2004 *Inflammation, angiogenesis and skin function*, Skin Research Group Seminar, The Ohio State University, Columbus, OH (\*invited while at Loyola University)

### **National/International Meetings**

- 2021 *The role of inflammation in scar formation*, Plastic and Aesthetic Research Webinar on Skin Wound Healing and Scarring
- 2021 *Using fetal wound healing as a guide to understand skin regeneration and fibrosis*, Systems Approaches to Wound Healing Webinar, Cardiff Immunity Research Institute, Cardiff, Wales (online due to COVID)
- 2019 *Mast cells and wound healing*, Diabetic Lower Extremity Symposium, Boston, MA
- 2019 *Novel pathways regulating inflammation in wound healing*, Gordon Research Conference on Tissue Repair and Regeneration, New London, NH
- 2019 *Fetal wound healing: What do we know and how do we use it?* (General/Keynote Session), Symposium on Advanced Wound Care/Wound Healing Society Meeting, San Antonio, TX

- 2018 *Using pre-clinical models for the discovery of novel therapeutic targets for wound healing and scar formation*, International Conference on Clinical Trial & Innovative Therapeutics, Durban, South Africa
- 2017 *Inflammatory pathways regulating scar formation*, International Skin Scarring & Keloid Symposium, New York, NY
- 2017 *Inflammation: A switch for fibrotic healing in developing skin*, American Society for Investigative Pathology Meeting, Chicago, IL
- 2016 *Mouse models to study regeneration and scarless healing in fetal skin*, World Union of Wound Healing Societies Meeting, Florence, Italy
- 2014 *Mast cells and scar formation*, Innovations in Wound Healing Conference, Duck Key, FL
- 2014 *Using fetal wounds to understand skin regeneration and fibrosis*, Wound Healing: Science + Industry Conference, San Juan, Puerto Rico
- 2014 *Inflammation: A common thread between cancer and repair outcomes*, American Society for Investigative Pathology Meeting at Experimental Biology, San Diego, CA
- 2014 *Inflammation and the regulation of repair responses in developing skin*, American Association of Anatomists Meeting at Experimental Biology, San Diego, CA
- 2013 *Alarmins regulate inflammation and fibrosis in fetal wounds*, Gordon Research Conference on Tissue Repair and Regeneration, New London, NH
- 2013 *Inflammation: A roadblock to scarless repair*, Wound Healing Society Meeting, Denver, CO
- 2012 *Pro-inflammatory regulators in UV-induced skin carcinogenesis*, International Skin Carcinogenesis Conference, Columbus, OH
- 2012 *Scarless fetal wound healing*, Translational to Clinical Wound Care Conference, Columbus, OH
- 2011 *Regulating repair in the fetus: The role of inflammation*, Symposium on Advanced Wound Care Conference, Grapevine, TX
- 2011 *Developmental regulation of wound repair*, Wound Healing Society Meeting, Grapevine, TX
- 2011 *Inflammation and Scarless Healing*, Translational to Clinical Wound Care Conference, Columbus, OH
- 2009 *Potential role for mast cells in VEGF-mediated scar formation*, Gordon Research Conference on Tissue Repair and Regeneration, New London, NH
- 2006 *Fetal wound healing*, Symposium on Advanced Wound Care Conference, San Antonio, TX
- 2006 *Non-endothelial influences of VEGF on wound healing*, Wound Healing Society Meeting, Scottsdale, AZ
- 2005 American Society of Investigative Pathology Merit Award Presentation, *VEGF-associated angiogenesis promotes cutaneous scar tissue deposition*, American Society of Investigative Pathology Meeting at Experimental Biology, San Diego, CA

#### **Local Meetings/Internal Seminars**

- 2020 *How to heal wounds without a scar: Lessons learned from embryonic skin*, College of Dentistry Science Colloquium, The Ohio State University
- 2017 *Scarless healing in fetal skin: Contributions of inflammation and fibroblasts*, Oral Biology Graduate Program Seminar, College of Dentistry, The Ohio State University



- 2017 *Fibroblast-specific pathways in scarless healing*, Center for Regenerative Medicine and Cell-Based Therapies Scientific Retreat, The Ohio State University
- 2014 *Investigating the contribution of dermal fibroblasts to scarless healing*, Center for Regenerative Medicine and Cell-Based Therapies Scientific Retreat, The Ohio State University
- 2013 *The effects of inflammation on scarless repair*, Oral Biology Graduate Program Seminar, College of Dentistry, The Ohio State University
- 2013 *Regenerative, scarless healing in fetal skin*, Center for Regenerative Medicine and Cell-Based Therapies Scientific Retreat, The Ohio State University
- 2012 *Alternative roles for VEGF in cutaneous wound repair*, Davis Heart and Lung Research Institute Research in Progress Seminar, The Ohio State University
- 2011 *Potential role for alarmins in skin injury*, Department of Pathology Work in Progress Seminar, The Ohio State University
- 2010 *A link between mast cells and scar formation in fetal wounds*, Wound Healing Research Group Seminar, The Ohio State University
- 2009 *Inflammation and wound healing: Too much of a good thing?*, Oral Biology Graduate Program Seminar, College of Dentistry, The Ohio State University
- 2009 *Regenerative healing in the fetus: The impact of inflammation and angiogenesis*, Davis Heart and Lung Research Institute Research in Progress Seminar, The Ohio State University
- 2008 *Angiogenesis and wound Repair*, Wound Healing Research Group Seminar, The Ohio State University
- 2008 *Wound repair in the fetus: The key to perfect repair?* Department of Pathology Grand Rounds, The Ohio State University
- 2008 *Inflammation and Angiogenesis in the Skin*, Department of Pathology Research in Progress, The Ohio State University
- 2008 *New roles for vascular endothelial growth factor in the skin*, Clinical/Research Dermatology Retreat, The Ohio State University
- 2008 *VEGF in skin carcinogenesis: Angiogenesis and beyond*, Molecular Carcinogenesis and Chemoprevention Program, Comprehensive Cancer Center, The Ohio State University
- 2006 *Non-endothelial effects of VEGF in wound healing and skin carcinogenesis*, Center for Molecular Biology of Oral Diseases Seminar, University of Illinois at Chicago
- 2005 *Modulation of dermal scar formation by VEGF*, Department of Surgery/Burn & Shock Trauma Institute Seminar, Loyola University
- 2004 *Inflammation, angiogenesis and scar formation*, Department of Surgery/Burn & Shock Trauma Institute Seminar, Loyola University

### **Formal Mentoring:**

#### **Faculty**

2021-present Dossier Coach (for faculty seeking promotion), Department of Pathology, The Ohio State University

- 2018-2020 Lead Mentor, FIT (Foundations, Impact, Transformation), University Institute for Teaching and Learning, The Ohio State University
- 2017-2020 Faculty Mentor, FIT (Foundations, Impact, Transformation), University Institute for Teaching and Learning, The Ohio State University

### **Post-doctoral Trainees**

- 2009-2017 Brian Wulff  
Postdoctoral Researcher, The Ohio State University  
Awards:  
6/09-6/17 Research Grants (multiple awards), Bruning Foundation  
4/2015 Young Investigator Award Finalist, Wound Healing Society  
5/2013 International Investigative Dermatology World Congress Travel Fellowship Award, Society for Investigative Dermatology/International Investigative Dermatology meeting  
3/2011 Poster Award, First Place, Translational to Clinical Wound Care Conference  
Subsequent Position:  
Postdoctoral Researcher, Technology Entrepreneurship and Commercialization (TEC) Institute, Ohio State University

### **Graduate Students**

- 2008-2013 Kelly Johnson (formerly Kelly Nye)  
Doctoral Student, Integrated Biomedical Sciences Program, The Ohio State University  
Awards:  
5/2014 Graduate Student of the Year Award, The Ohio State University Department of Pathology (co-awardee)  
3/2013 Selected to give oral presentation at the Edward Hayes Graduate Research Forum, The Ohio State University  
4/2012 Ray Travel Award from The Ohio State University Council of Graduate Students to Attend American Association for Cancer Research Meeting  
7/2009-6/2011 T32 Trainee, NIH Training Grant on Systems and Integrative Biology  
6/2008-6/2009 University Fellowship, The Ohio State University  
Subsequent Position:  
Postdoctoral Researcher, Harvard University
- 2011-2012 Adrienne Dardenne  
Master's Student, Veterinary Preventive Medicine, The Ohio State University  
Awards:  
5/2012 Graduate Student Oral Presentation Award, Second Place, Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University  
Subsequent Position:  
Veterinarian, Cardiovascular Research Foundation

### **Undergraduate Students**

- 2018-2021 David Chesko  
Undergraduate Student, Biomedical Sciences, The Ohio State University  
Awards:  
2020 Summer Research Fellowship, Wound Healing Society  
2020 Undergraduate Research Apprentice Program Award (declined in favor of Wound Healing Society award)  
2021 Academic Enrichment Grant, OSU Undergraduate Student Government  
Subsequent Position:  
Medical School, Ohio State University

Traci A. Wilgus, Ph.D.

- 2018-2020 Vincent Marzula  
Undergraduate Student, Biomedical Sciences, The Ohio State University  
Awards:  
2018 Biomedical Sciences Enrichment Grant for Summer Research, The Ohio State University
- 2016-2019 Nick Pappa  
Undergraduate Student, Biomedical Sciences, The Ohio State University  
Awards:  
2018 Biomedical Sciences Enrichment Grant for Summer Research, The Ohio State University  
Subsequent Position:  
Medical School, Ohio State University
- 2016-2018 Catherine Dong  
Undergraduate Student, Biology, The Ohio State University
- 2013-2015 Kathryn Gasior  
Undergraduate Student, Biomedical Sciences, The Ohio State University
- 2014 Gabrielle Nogueira-Meza  
Undergraduate Student, Biomedical Sciences, The Ohio State University
- 2010-2013 Monica Lachey  
Undergraduate Student, Biomedical Sciences, The Ohio State University  
Awards:  
3/2013 Poster Award, Fourth Place, Biological Sciences, Denman Undergraduate Research Forum, The Ohio State University  
Subsequent Position:  
Graduate Student, Public Health, Emory University
- 2008-2010 Melissa Meleski  
Undergraduate Student, Biology, The Ohio State University  
Awards:  
9/2009-6/2010 Undergraduate Research Scholarship Award, The Ohio State University  
Subsequent Position:  
Medical Student, University of Cincinnati

### **High School Students**

- 2010-2010 Allison Lim  
High School Student, Westerville North/Metro Early College Student  
Subsequent Position:  
Undergraduate Student, Biomedical Engineering, Carnegie Mellon University

### **Committee Assignments:**

#### **Department**

Ohio State University – Department of Pathology

- 2020-present Member, Committee on Doctoral and Undergraduate Education
- 2018-present Procedures Oversight Designee, Pathology Promotion and Tenure Committee
- 2016-present Member, Pathology Promotion and Tenure Committee
- 2008-present Member, Pathology Graduate Studies Committee

Traci A. Wilgus, Ph.D.

2012	Interim Chair, Pathology Graduate Studies Committee
2011	Member, Pathology Appointment, Promotion & Tenure Document Revision Subcommittee
2010	Faculty Interviewer, Dermatopathology Fellow Candidates
2008-2011	Faculty Interviewer, Pathology Faculty Candidates

## **College**

### Ohio State University - College of Medicine

2017-present	Member, Medical School Admissions Committee
2013-present	Faculty Interviewer, Integrated Biomedical Sciences Graduate Program applicants
2009-present	Faculty Interviewer, Biomedical Sciences Undergraduate Major Program applicants
2008-present	Poster Judge, Ohio State University Medical Center Research Day
2022	Grievance Committee Member, Biological Sciences Graduate Program
2021	External Procedures Oversight Designee, Physical Medicine and Rehabilitation Promotion and Tenure Committee
2020	Faculty Interviewer, Pathology Executive Vice Chair/Endowed Chair of Research Candidates
2019-0020	Oral Presentation Judge, Biomedical Sciences Graduate Program Retreat
2014-2017	Faculty Screener, Medical School Student Applicants
2017	Member, Shared Resource Oversight Committee, Comprehensive Cancer Center
2016-2017	Ad hoc Member, Data Collection Subcommittee, Women in Medicine and Science
2014-2014	Participant, Liaison Committee on Medical Education (LCME) Accreditation Site Visit, Junior Faculty Session

### University of Illinois at Chicago – College of Dentistry

2007	Poster judge, UIC College of Dentistry Annual Clinic and Research Day
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## **University**

### Ohio State University

2021	Co-Chair, Alumni Award for Distinguished Teaching Selection Committee
2020-2021	Member, Alumni Award for Distinguished Teaching Selection Committee
2015-present	Faculty Advisor, Bennett Society
2012-present	Member, Institutional Animal Care and Use Committee, Veterinary Subcommittee
2009-present	Abstract Judge, Edward Hayes Graduate Research Forum
2008-present	Poster Judge, Denman Undergraduate Research Forum
2009-2010	Poster Judge, Russell Klein Nutrition Symposium - OSU Department of Human Nutrition

	Traci A. Wilgus, Ph.D.
2008-2009	Evaluator, Maximus Competition Essays
2008-2009	Oral Presentation judge, Edward Hayes Graduate Research Forum
2008-2009	Paper Judge, Edward Hayes Graduate Research Forum
2008	Abstract/Poster Judge, Biological Sciences Undergraduate Research Colloquium

University of Illinois at Chicago

2007	Member, Animal Care and Use Committee, Teaching Subcommittee
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**Student Advising and Committees**

Ohio State University

2022-present	Jocelyn Treneff Advisory Committee member, Molecular, Cellular and Developmental Biology Project topic: Estrogen receptor signaling in melanoma
2020-present	Weiwei Liu Committee member, Candidacy exam – Molecular, Cellular and Developmental Biology <i>Determining the role of estrogen receptor beta in melanocyte differentiation and melanoma suppression</i>
2022-2023	Anastasia Smith First Year Advisor - Biomedical Sciences Graduate Program
2022	Holly A. Huellemeier Graduate Faculty Representative, Doctoral Dissertation – Food, Agricultural & Biological Engineering <i>Application of quartz crystal microbalance technology for the investigation of milk fouling during thermal processing</i>
2022	Joshua Zhent Graduate Faculty Representative, Doctoral Dissertation – Biomedical Engineering <i>Tools for investigating pericellular matrix metalloproteinase activity and their applications in drug development</i>
2018-2021	Tucker Piergallini Committee member, Doctoral Dissertation Committee – Integrated Biomedical Sciences <i>The Impact of Acute Inflammation on Lung Immunology and Mycobacterium tuberculosis Control</i>
2021	Rachel Heald Committee member, Master's Thesis Committee – Engineering <i>Development and Evaluation of a Smart Platform for Engineered Electroceutical Dressings</i>
2021	Nien-Ching Han Graduate Faculty Representative, Doctoral Dissertation – Microbiology <i>Mistranslation and quality control of aminoacyl-tRNA synthetases</i>
2019-2020	Stephanie Muscat First Year Advisor - Biomedical Sciences Graduate Program
2019	Naima Khandaker Graduate Faculty Representative, Doctoral Dissertation – Educational Studies <i>Academic and Motivational Outcomes of Reading Ability Grouping in the Early Grades</i>

2018-2019	Salha Sassi Committee member, Master's Thesis Committee – Veterinary Preventive Medicine
2018-2019	Rachel Woodflint First Year Advisor - Biomedical Sciences Graduate Program
2018	Carol Huseby Graduate Faculty Representative, Doctoral Dissertation – Biophysics <i>Molecular Neuropathology in Alzheimer's Disease</i>
2017-2018	Tucker Piergallini Chair and committee member, Candidacy Exam – Integrated Biomedical Sciences
2018-2018	Salha Sassi Committee member, Candidacy Exam – Veterinary Preventive Medicine <i>The Role of Slit2/Robo1 signaling pathway in progression and metastasis of small cell lung cancer</i>
2017-2018	Shaleni Singh First Year Advisor - Integrated Biomedical Sciences
2017	Michelle Gerst Graduate Faculty Representative, Doctoral Dissertation – Microbiology <i>Improving methods for screening and isolation of antimicrobial-producing bacteria using culture and genetic techniques followed by identification and characterization of selected antimicrobial peptides</i>
2015-2017	Hannah Komar Committee member, Doctoral Dissertation Committee – Integrated Biomedical Sciences
2016	Monali Nandy Mazumdar Graduate Faculty Representative, Doctoral Dissertation – Microbiology <i>RfaH Contacts to DNA, RNA polymerase, and ribosome activate gene expression</i>
2014-2016	Ashley Carpenter-Jackson Committee member, Doctoral Dissertation Committee – Integrated Biomedical Sciences <i>Significance of renal urothelium during development and disease</i>
2015	Pin-Chuang Lai Graduate Faculty Representative, Doctoral Dissertation – Oral Biology <i>Azithromycin in periodontal therapy: pharmacokinetic and mechanistic investigations</i>
2015	Hannah Komar Committee member, Candidacy Exam – Integrated Biomedical Sciences <i>Targeting IL-6/JAK2/STAT3 signaling in chronic pancreatitis</i>
2015	Sarah Gutzwiller Graduate Faculty Representative, Doctoral Dissertation – Evolution, Ecology & Organismal Biology <i>Adaptation and exaptation in the evolution of the upper molar talon in microbats</i>
2010-2013	Kelly Johnson Committee member ( <u>Advisor</u> ), Doctoral Dissertation Committee – Integrated Biomedical Sciences <i>Direct effects of VEGF on keratinocyte function during skin carcinogenesis and wound healing</i>
2013	Meng Lopez-Garrity Graduate Faculty Representative, Doctoral Dissertation – Materials Science and Engineering <i>In situ monitoring of undercoating corrosion damage by direct optical interrogation</i>

2010-2013	Monica Lachey Committee member ( <u>Advisor</u> ), Senior Honors Thesis – Biomedical Sciences <i>The role of VEGF in macrophage recruitment during wound healing</i>
2012-2013	Erin Burns Committee member, Doctoral Dissertation Committee – Integrated Biomedical Sciences <i>Men and Women Are Not Just From Different Planets: The Role of Sex-Based Differences in the Prevention of Non-Melanoma Skin Cancer</i>
2009-2012	Jessica Fleming Committee Member, Doctoral Dissertation Committee – Molecular, Cellular & Developmental Biology <i>Utilizing Cancer Resistant and Susceptible Mice to Identify the Genetic Contributions to Cutaneous Squamous Cell Carcinoma Susceptibility</i>
2011-2012	Adrienne Dardenne Committee member ( <u>Advisor</u> ), Master's Thesis – Comparative and Veterinary Medicine <i>High Mobility Group Box-1 (HMGB-1) Induces Scar Formation in Early Fetal Wounds</i>
2012	Jeremy Keirse Committee member, Master's Thesis Exam – Pathology <i>Phosphorylation regulation of the function, localization and protein interactions of the BLM helicase</i>
2012	Katryna Cisek Graduate Faculty Representative, Doctoral Dissertation – Biophysics <i>Rational Optimization of Small Molecules for Premortem Diagnosis of Alzheimer's Disease</i>
2011	Erin Burns Committee member, Candidacy Exam – Integrated Biomedical Sciences <i>Sex-specific cutaneous differences affect treatment strategies of UV-induced SCC</i>
2011	Gregory Hostetler Graduate Faculty Representative, Doctoral Dissertation – Food Science & Technology <i>Effects of Enzymatic and Thermal Processing on Flavones, the Effects of Flavones on Inflammatory Mediators in Vitro, and the Absorption of Flavones in Vivo</i>
2011	Dustin Gable Committee member, Senior Honors Thesis – Biomedical Sciences <i>Ets1 as a target of microRNA-1 in cutaneous squamous cell carcinoma</i>
2008-2010	Kelly Nye Committee member ( <u>Advisor</u> ), Candidacy Exam – Integrated Biomedical Sciences <i>Bone marrow derived cells promote metastasis by a VEGFR-1-dependent mechanism</i>
2010-2010	Vorachai Sribanditmongkol Committee member, Candidacy Exam – Nursing <i>Stress, physical fitness performance, and inflammatory immune responses</i>
2010	Julie Freshwater Graduate Faculty Representative, Doctoral Dissertation – Public Health <i>Impact of Antimicrobial Use on the Resistance of Pseudomonas aeruginosa in the Intensive Care Unit Setting in a Large Academic Medical Center</i>

- 2010-2010 Amanda Harper  
Committee member, Senior Honors Thesis – Biomedical Sciences  
*The effects of dietary administration of vitamin D on UVB induced skin inflammation and carcinogenesis*
- 2008-2010 Melissa Meleski  
Committee member (Advisor), Senior Honors Thesis – Biology  
*The role of mast cells in fetal wound healing*
- 2009 Valerie Galbraith  
Committee member, Master's Thesis Exam – Pathology  
*Reactive oxygen species and their role in atherosclerosis and mitochondrial DNA damage*
- 2009-2009 Jessica Fleming  
Committee Member, Candidacy Exam – Molecular, Cellular and Developmental Biology  
*The effect of oxidative stress on DNA methylation in Alzheimer's disease*
- 2008-2009 Nick Sullivan  
Committee Member, Doctoral Dissertation Committee – Integrated Biomedical Sciences  
*Interleukin-6 as a potential mediator of breast cancer progression and non-melanoma skin carcinogenesis*
- 2008-2009 F. Jason Duncan  
Committee Member, Doctoral Dissertation Committee – Integrated Biomedical Sciences  
*The effects of black raspberry extract on UVB-induced inflammation and carcinogenesis*
- 2008 Daniele Vicari  
Graduate Faculty Representative, Doctoral Dissertation – Microbiology  
*Evaluation of VEGF peptide mimics as inhibitors of angiogenesis*
- 2008-2008 Jessica Rossette  
Committee Member, Senior Honors Thesis – Biomedical Sciences  
*Sex differences in total and specific antioxidant enzymes in unirradiated and irradiated skin*

University of Illinois at Chicago

- 2007 Allison Yen  
Committee member, Master's Thesis - Oral Sciences Program
- 2007 Logesh Swayamprakasam  
Committee member, Master's Thesis - Oral Sciences Program

**External Committees**

- 2022 External Committee Member, Doctoral Dissertation, Katelyn Rivas  
Department of Microbiology and Immunology, University of Miami  
*Role of gamma delta T cells and perforin-2 in skin immune surveillance*
- 2021 External Examiner, Doctoral Thesis, Division of Dermatology, University of Cape Town
- 2020 External Evaluator, Faculty Grant Review, George Washington University
- 2019 External Evaluator, Promotion & Tenure, University of Arizona
- 2019 External Examiner, Master's Thesis, Division of Dermatology, University of Cape Town
- 2017 External Evaluator, Promotion & Tenure, University of Miami School of Medicine



2008-2013	External Member, Doctoral Dissertation Committee, Anna Turabelidze Oral Sciences, University of Illinois-Chicago <i>Differences Between Oral and Skin Keratinocytes During Wound Healing</i>
2009	External Judge, Thomas Worthington High School Science Fair
2008	External Evaluator, Promotion & Tenure, University of Pittsburgh School of Medicine

### **Teaching:**

2021-present	Course: PATHOL 3900 – Basic Pathology & Disease Mechanisms Pathology, Ohio State University Role: Director
2017-present	Course: NSGY 8250 – Biology of the Tumor Microenvironment Neurosurgery, Ohio State University Role: Co-Director and Lecturer (multiple lectures on tumor microenvironment, angiogenesis and anti-angiogenic therapy) (1 semester, annually)
2015-present	Course: Medical School – Foundations 2 (M1 students) College of Medicine, Ohio State University Role: Lecturer " <i>Angiogenesis</i> " and " <i>Wound Healing/Fibrosis</i> " (1 semester, annually)
2010-present	Course: PATHOL 7847 – Cellular Mechanisms and Pathogenesis of Inflammation Pathology, Ohio State University Role: Director and Lecturer (multiple lectures on inflammation) (1 semester, every other year) *Developed the course in 2010
2009-present	Course: MVIMG 7010 – Cellular and Molecular Immunology Molecular Virology, Immunology & Medical Genetics, Ohio State University Role: Lecturer " <i>Inflammation and Cell Trafficking</i> " (1 semester, annually)
2009-2019	Course: SURG 814 – Responsible Conduct of Research Surgery, Ohio State University Role: Co-Director (1 semester, annually)
2008-2019	Course: BMS H720.01/BMS H3891 – Biomedical Science Research Experience Biomedical Sciences Program, Ohio State University Role: Co-Director (1 semester, annually)
2014-2018	Course: BMS H4830 – Special Topics in Biomedical Sciences: Cancer Research Biomedical Sciences Program, Ohio State University Role: Lecturer " <i>Tumor progression: tumor angiogenesis</i> " (1 semester, annually)
2011-2018	Course: IBGP 8880.03 – Signature Program Translational Science Curriculum-Regenerative Medicine & Wound Healing Integrated Biomedical Sciences Graduate Program, Ohio State University Role: Lecturer " <i>Biology of scars &amp; Fetal wound healing</i> " (1 semester, annually)
2010-2016	Course: NSGY 8250 – Biology of the Tumor Microenvironment Neurosurgery, Ohio State University Role: Lecturer " <i>Anti-angiogenic Therapy</i> " (1 semester, annually)
2009-2014	Course: IBGP 797.01 – Integrated Biomedical Science Graduate Seminar Integrated Biomedical Sciences Graduate Program, Ohio State University

Traci A. Wilgus, Ph.D.

Role: Director (2 semesters, annually)

\*Re-designed the course in 2009

- 2011 Course: PATHOL 650 – Mechanisms of Pathogenesis  
Pathology, Ohio State University  
Role: Lecturer (3 lectures on inflammation; 3 lectures on repair)
- 2008-2009 Course: IBGP 797.01 – Integrated Biomedical Science Graduate Seminar  
Integrated Biomedical Sciences Program, Ohio State University  
Role: Co-Director (3 quarters, annually)
- 2008 Course: IBGP 706 – Faculty Research in Biomedical Science  
Integrated Biomedical Sciences Program, Ohio State University  
Role: Lecturer "*Cutaneous biology and skin disorders*"
- 2007 Course: Oral Sciences 594 – Special Topics in Oral Sciences-Wound Healing  
Oral Sciences Program, University of Illinois at Chicago  
Role: Lecturer "*Epithelial differentiation and repair*"  
Lecturer "*Fetal wound healing*"
- 2007 Course: MIMX 322 – Dental Microbiology and Immunology  
Dentistry Program, University of Illinois at Chicago  
Role: Facilitator, Autoimmune disease small group discussions
- 2005 Course: SURG – Integrated Basic Science and Critical Care Seminar  
Surgery, Loyola University Medical Center  
Role: Lecturer "*Fetal wound healing: A tool for studying scar formation*"
- 2002 Course: DENT 803 – Wound healing: Molecular, Cellular & Clinical Aspects  
Oral Biology Program, Ohio State University  
Role: Lecturer "*Tissue remodeling and fetal wound healing*"

## **Abstracts:**

### **Podium Presentations (\*presenter)**

#### National/International Meetings

1. S Ud-Din\*, **TA Wilgus**, DD McGeorge, and A Bayat. 2022. *A double-blind randomized placebo-controlled clinical trial demonstrates that pre-emptive priming of human skin with topical epigallocatechin-3-gallate improves cutaneous skin scarring.* Presented at the Wound Healing Society Meeting. Phoenix, AZ.
2. Chesko D\* and **TA Wilgus**. 2021. *The effects of fibroblast-specific NF-KB signaling on scar formation.* Presented at the Wound Healing Society Meeting. (Virtual)
3. NK Pappa, BC Wulff, and **TA Wilgus\***. 2019. *Evidence That Fetuin-A Contributes To Cutaneous Scar Formation.* Presented at the Wound Healing Society Meeting. San Antonio, TX.
4. BC Wulff, OE Branson, ML Gardner, MA Freitas, and **TA Wilgus\***. 2017. *Characterizing fetal skin fibroblasts using collagen 1a1-GFP transgenic mice.* Presented at the Wound Healing Society Meeting. San Diego, CA.
5. BC Wulff\* and **TA Wilgus**. 2015. *IL-33 promotes inflammation and scarring in murine wounds.* Presented at the Wound Healing Society Meeting. San Antonio, TX.
6. **TA Wilgus\*** and BC Wulff. 2014. *Dissecting the contribution of fibroblasts to skin regeneration using a mouse model of embryonic healing.* Presented at the American Society for Matrix Biology Meeting, Cleveland, OH.

7. BC Wulff\*, KE Gasior, TM Oberyshyn, **TA Wilgus**. 2014. *Cyclosporine A Modulates UVB Induced Inflammation in Part Through its Effects on Mast Cells*. Presented at the International Skin Carcinogenesis Conference. Tucson, AZ.
8. **TA Wilgus\***. 2014. *Inflammation and the regulation of repair responses in developing skin*. Presented at the American Association of Anatomists Meeting at Experimental Biology. San Diego, CA.
9. KE Johnson, MK Lachey, and **TA Wilgus\***. 2013. *VEGF promotes cutaneous wound healing via VEGFR-1 signaling in keratinocytes and macrophages*. Presented at the Society for Investigative Dermatology/International Investigative Dermatology Meeting. Scotland, UK. J Invest Dermatol 133(S1): 257.
10. **TA Wilgus\***. 2012. *Pro-inflammatory regulators in UV-induced skin carcinogenesis*. Presented at the International Skin Carcinogenesis Conference. Columbus, OH.
11. BC Wulff\*, AD Dardenne, **TA Wilgus**. 2012. *High mobility group box-1 (HMGB-1) induces scar formation in fetal wounds*. Presented at the Wound Healing Society Meeting. Atlanta, GA. Wound Rep Regen 20(2) A46.
12. BC Wulff\*, L Yu, AE Parent, and **TA Wilgus**. 2012. *Differential gene expression in mid- and late-gestational dermal fibroblasts*. Presented at the Wound Healing Society Meeting. Atlanta, GA. Wound Rep Regen 20(2) A46.
13. **TA Wilgus\***, AE Parent, MA Meleski, and BC Wulff. 2009. *Potential role for mast cells in VEGF-mediated scar formation*. Presented at the Gordon Research Conference on Tissue Repair and Regeneration. New London, NH.
14. **TA Wilgus\***. 2006. *Fetal wound healing*. Presented at the Symposium on Advanced Wound Care Conference. San Antonio, TX.
15. LA DiPietro\*, **TA Wilgus**, and AM Szpaderska. 2006. *Angiogenesis in healing wounds: why less may be more*. Presented at the Experimental Biology Meeting. San Francisco, CA. FASEB J 20(5) A871.
16. AM Ferreira, DE Faunce, **TA Wilgus\***, R Fresco, JA McNulty, and LA DiPietro. 2006. *Modulation of wound scar formation by monocyte chemoattractant protein-1 (MCP-1)*. Presented at the Experimental Biology Meeting. San Francisco, CA. FASEB J 20(5) A872.
17. **TA Wilgus\***, TM Oberyshyn, VK Bergdall, AM Ferreira, and LA DiPietro. 2005. *Modulation of scar formation by vascular endothelial growth factor*. Presented at the Wound Healing Society Meeting. Scottsdale, AZ. Wound Rep Regen 13(2) A18.
18. **TA Wilgus\***, TM Oberyshyn, VK Bergdall, AM Ferriera, and LA DiPietro. 2005. *VEGF-associated angiogenesis promotes cutaneous scar tissue deposition*. Presented at the Experimental Biology Meeting. San Diego, CA. FASEB J 19(4) A482.
19. **TA Wilgus** and TM Oberyshyn\*. 2001. *Inhibition of cyclooxygenase-2 activity blocks cutaneous ultraviolet light-B mediated inflammation and tumor formation*. Presented at the Annual Congress of the Chilean Society of Pharmacology/Chilean Society of Physiological Sciences/Chilean Society of Biology Meeting, Pucon, Chile.

#### Local/Regional Meetings

1. KE Nye\*, MK Lachey, and **TA Wilgus**. 2013. *VEGF promotes cutaneous wound healing by stimulating reepithelialization and macrophage recruitment*. Presented at the OSU Edward F. Hayes Graduate Research Forum.
2. **TA Wilgus\***, MS Ross, and TM Oberyshyn. 2001. *Topical application of the anti-inflammatory drug celecoxib reduces scarring after full-thickness incisional skin wounding*. Presented at the Graduate Student Colloquium, Ohio State University.

3. **TA Wilgus\***, MS Ross, ML Parrett, and TM Oberyshyn. 2000. *Alleviation of acute UVB-mediated cutaneous inflammation by a specific cyclooxygenase-2 (COX-2) inhibitor*. Presented at the Graduate Student Colloquium, Ohio State University.

### Poster Talks (\*presenter)

#### National/International Meetings

1. **TA Wilgus\***, AE Parent, MA Meleski, and BC Wulff. 2010. *Mast cells contribute to scar formation in fetal wounds*. Presented at the Wound Healing Society Meeting. Orlando, FL. Wound Rep Regen 18(2) A27.
2. **TA Wilgus\***, TS Breza, Jr., JL Hatton, and TM Oberyshyn. 2003. *Combination chemotherapy for the treatment of ultraviolet light B induced skin tumors using efudex and celecoxib*. Presented at the Society of Investigative Dermatology meeting. Miami, FL. J Invest Dermatol 121(1) 1210.
3. **TA Wilgus\***, AT Koki, B Zweifel, and TM Oberyshyn. 2002. *Inhibition of cyclooxygenase-2 activity with topical celecoxib blocks cutaneous ultraviolet light-B mediated inflammation and tumor formation*. Presented at the Am. Assoc. for Cancer Res. San Francisco, CA. Meeting. Proc Am Assoc Cancer Res 43:1144.

### Poster Presentations (\*presenter)

#### National/International Meetings

1. **TA Wilgus\***, NK Pappa, and BC Wulff. 2018. *Identification of Fetuin A as a potential modulator of scar formation*. Presented at the Society for Investigative Dermatology Meeting. Orlando, FL.
2. Wulff BC\*, Gasior KE, Oberyshyn TM, **Wilgus TA**. 2014. *Cyclosporine A Modulates UVB Induced Inflammation in Part Through its Effects on Mast Cells*. Presented at the International Skin Carcinogenesis Conference. Tucson, AZ.
3. **Wilgus TA\***, Lachey MK, Johnson KE. 2014. *Keratinocyte-specific VEGFR-1 signaling affects UV-induced inflammation*. Presented at the International Skin Carcinogenesis Conference. Tucson, AZ.
4. **TA Wilgus\***, MK Lachey, and KE Johnson. 2013. *VEGF influences wound healing and skin carcinogenesis through direct actions on keratinocytes*. Presented at the Gordon Research Conference on Tissue Repair and Regeneration.
5. BC Wulff\* and **TA Wilgus**. 2013. *IL-33 is upregulated after injury and stimulates inflammation during repair*. Presented at the Society for Investigative Dermatology/International Investigative Dermatology Meeting. J Invest Dermatol 133(S1): 258.
6. KE Johnson\*, MK Lachey, and **TA Wilgus**. 2013. *VEGF stimulates reepithelialization and macrophage recruitment during wound healing*. Presented at the Translational to Clinical Wound Care Conference.
7. BC Wulff\*, **TA Wilgus**. 2013. *IL-33 promotes inflammation after cutaneous injury*. Presented at the Translational to Clinical Wound Care Conference.
8. **TA Wilgus\*** and BC Wulff. 2013. *Developmental differences in fetal fibroblasts and the regulation of scarless repair*. Presented at the Translational to Clinical Wound Care Conference.
9. KE Nye\*, AE Parent, and **TA Wilgus**. 2012. *Alterations in HMGB-1 Localization and Release in Response to Acute and Chronic UVB Exposure*. Presented at the International Skin Carcinogenesis Conference.
10. BC Wulff\*, KE Nye, AE Banks, and **TA Wilgus**. 2012. *Possible Effects Of IL-33 On Inflammation In The Development Of Non-Melanoma Skin Cancer*. Presented at the International Skin Carcinogenesis Conference.
11. KE Nye\*, MK Lachey, AE Parent, and **TA Wilgus**. 2012. *VEGF as a potential survival factor for keratinocytes following UV exposure in vivo*. Presented at the American Association for Cancer Research meeting.

12. BC Wulff\*, AE Parent, and **TA Wilgus**. 2011. *Differences in mast cell populations from E15 and E18 fetal skin affect scarless fetal wound healing*. Presented at the Translational to Clinical Wound Care Conference.
13. AD Dardenne\*, BC Wulff, AE Parent, and **TA Wilgus**. 2011. *High Mobility Group Box-1 (HMGB-1) as a Potential Regulator of Inflammation and Determinant of Scar Formation in Fetal Wounds*. Presented at the American Association for Laboratory Animal Science Meeting.
14. **TA Wilgus\***, AE Parent, and BC Wulff. 2011. *HMGB-1 is a potential regulator of inflammation in fetal wounds*. Presented at the Gordon Research Conference on Tissue Repair and Regeneration.
15. KE Nye\*, AE Parent, and **TA Wilgus**. 2010. *Keratinocyte VEGFR-1 expression is altered during chronic UV exposure*. Presented at the 9th International Skin Carcinogenesis Conference.
16. BC Wulff\*, AE Parent, MA Meleski, and **TA Wilgus**. 2010. *Differences in cutaneous mast cells affect scar formation*. Presented at the Experimental Biology Meeting.
17. AE Parent, MA Meleski, ME Schrementi, LA DiPietro, and **TA Wilgus\***. 2009. *Higher mast cell numbers are associated with scar formation in fetal wounds*. Presented at the Wound Healing Society Meeting. Wound Rep Regen 17(2) A48.
18. KJ Nye, DR Lambert, SB Peters. AE Parent, and **TA Wilgus\***. 2009. *VEGFR-1 localization in human basal cell carcinomas*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 50: 4067.
19. H Kim\*, J Yang, L Finney, S Vogt, RD McKinney, **TA Wilgus**, LA DiPietro, M Ushio-Fukai, Tohru Fukai. 2008. *Segregation of Copper-dependent Transcription Factor and Copper Chaperone Function of Antioxidant-1 in Wound Healing*. Presented at the American Heart Association Scientific Sessions. Circulation 118: S332.
20. **TA Wilgus\***, TM Oberyszyn, LA DiPietro, and DF Kusewitt. 2007. *The role of epithelial vascular endothelial growth factor receptor-1 (VEGFR-1) in skin carcinogenesis*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 48: 625.
21. **TA Wilgus\*** and LA DiPietro. 2005. *Non-endothelial effects of vascular endothelial growth factor: implications for wound repair*. Presented at the Montagna Symposium on the Biology of Skin. J Invest Dermatol Symp Proceed, 2006, 11(1) 143.
22. **TA Wilgus\***, AM Ferreira, TM Oberyszyn, VK Bergdall, and LA DiPietro. 2005. *Vascular endothelial growth factor modulates cutaneous scarring*. Presented at the Gordon Research Conference on Tissue Repair and Regeneration.
23. **TA Wilgus\***, VK Bergdall, LA DiPietro, and TM Oberyszyn. 2005. *The effects of hydrogen peroxide on fetal wound repair*. Presented at the Wound Healing Society Meeting. Wound Rep Regen 13(2) A45.
24. **TA Wilgus\***, AM Matthies, KA Radek, and LA DiPietro. 2005. *Epidermal keratinocytes express functional vascular endothelial growth factor receptor-1*. Presented at the Society for Investigative Dermatology Meeting. J Invest Dermatol 124(4): A93.
25. **TA Wilgus\***, TM Oberyszyn, VK Bergdall, and LA DiPietro. 2004. *Characterization of angiogenesis during scarless and fibrotic fetal wound repair*. Presented at the Experimental Biology Meeting. FASEB J 18(5) A941.
26. **TA Wilgus**, KL Tober\*, and TM Oberyszyn. 2003. *Induction of the EP<sub>1</sub> receptor in murine skin following acute and chronic UVB exposure*. Presented at the Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases Conference.
27. **TA Wilgus\***, TS Breza, Jr., and TM Oberyszyn. 2003. *The effects of 5-fluorouracil and celecoxib on apoptosis, proliferation, and the regression of ultraviolet light B induced skin tumors*. Presented at the Edward A. Smuckler Memorial Pathobiology of Cancer Workshop.

28. AM VanBuskirk\*, TM Oberyszyn, AE Parent, JL Hatton, **TA Wilgus** and DF Kusewitt. 2003. *A murine model of increased skin cancer risk in immunocompromised patients*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 44: 758-759.
29. **TA Wilgus\***, TS Breza, Jr., JL Hatton, and TM Oberyszyn. 2003. *Regression of ultraviolet light B induced skin tumors with 5-fluorouracil and celecoxib*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 44: 738-739.
30. **TA Wilgus\***, VK Bergdall, and TM Oberyszyn. 2002. *The promotion of scar formation in fetal wounds by hydrogen peroxide*. Presented at the Wound Healing: Oxygen and Emerging Therapeutics Conference.
31. **TA Wilgus\*** and TM Oberyszyn. 2002. *Inhibition of scar formation with topical celecoxib treatment*. Presented at the Wound Healing Society Meeting. Wound Repair Regen 10(2): A61.
32. **TA Wilgus\***, NA Flavahan, S Mitra, and TM Oberyszyn. 2002. *Potential targets for anti-scarring therapy: cyclooxygenase-2 and thrombospondin*. Presented at the Society for Investigative Dermatology Meeting. J Invest Dermatol 119(1): 320.
33. **TA Wilgus\*** and TM Oberyszyn. 2001. *Inhibition of scar formation in the skin after topical treatment with a cyclooxygenase-2 inhibitor*. Presented at the Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases Conference.
34. **TA Wilgus\***, MS Ross, and TM Oberyszyn. 2001. *Topical application of the anti-inflammatory drug celecoxib reduces scarring after full-thickness incisional skin wounding*. Presented at the Gordon Research Conference on Tissue Repair and Regeneration.
35. **TA Wilgus\***, MS Ross, KL Tober, and TM Oberyszyn. 2001. *Mechanism of chemoprevention by celecoxib: inhibition of oxidative DNA damage?* Presented at the Keystone Symposia: Eicosanoid Lipid Mediators-Biochemistry, Molecular Biology and Pharmacology and Cell-Cell Interactions in Inflammation.
36. KL Tober\*, TM Oberyszyn, JA Holinga, MC Ullrich, **TA Wilgus**, MS Ross, and FM Robertson. 2001. *Differential effects of selective inhibitors of constitutive or inducible nitric oxide synthase on angiogenesis in murine multi-stage carcinogenesis*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 42: 585.
37. AM VanBuskirk\*, **TA Wilgus**, and TM Oberyszyn. 2001. *In vivo inhibition of plasmacytoma growth by the COX-2 inhibitor, celecoxib*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 42: 44.
38. **TA Wilgus\***, MS Ross, and TM Oberyszyn. 2001. *Celecoxib inhibits cutaneous oxidative DNA damage induced by ultraviolet light*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 42: 573-574.
39. **TA Wilgus\***, ML Parrett, MS Ross, and TM Oberyszyn. 2000. *Topical application of a specific cyclooxygenase-2 inhibitor, celecoxib, inhibits the acute cutaneous ultraviolet light B mediated inflammatory response*. Presented at the Am. Assoc. for Cancer Res. Meeting. Proc Am Assoc Cancer Res 41:493-494.
40. **TA Wilgus\***, FM Robertson, ML Parrett, MS Ross, KL Tober, and TM Oberyszyn. 1999. *Inhibition of ultraviolet light B-induced cutaneous inflammation by a specific cyclooxygenase-2 (COX-2) inhibitor*. Presented at the Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases Conference. Prostaglandins Other Lipid Mediat 59(1-6): 219.

#### Local/Regional Meetings

1. **TA Wilgus\***, KE Johnson, BC Wulff. 2014. *Contributions of inflammation and angiogenesis to skin cancer*. Presented at the OSU Comprehensive Cancer Center Annual Meeting.

2. KE Johnson\*, MK Lachey, and **TA Wilgus**. 2013. VEGFR-1 modulates keratinocyte function during cutaneous repair. Presented at Ohio State University Medical Center Research Day.
3. MK Lachey\*, KE Nye, and **TA Wilgus**. 2013. *The role of VEGF in macrophage recruitment during wound healing*. Presented at the Denman Undergraduate Research Forum.
4. KE Nye\*, AE Parent, and **TA Wilgus**. 2012. *A potential role for HMGB-1 in UV-induced skin carcinogenesis*. Presented at the OSU Comprehensive Cancer Center Annual Meeting.
5. BC Wulff\*, AE Banks, KE Nye, and **TA Wilgus**. 2012. *Potential Role for IL-33 in the Development of Non-Melanoma Skin Cancer*. Presented at the OSU Comprehensive Cancer Center Annual Meeting.
6. MK Lachey\*, KE Nye, and **TA Wilgus**. 2012. *The role of VEGF in macrophage recruitment during wound healing*. Presented at the Denman Undergraduate Research Forum.
7. KE Nye\*, AE Parent, and **TA Wilgus**. 2012. *HMGB-1 is released by keratinocytes during ultraviolet light-induced inflammation: Implications for skin carcinogenesis*. Presented at Ohio State University Medical Center Research Day.
8. BC Wulff\*, AE Parent, and **TA Wilgus**. 2011. *Mid- and late-gestational murine fetal skin mast cells differentially affect scarless fetal wound healing*. Presented at Ohio State University Medical Center Research Day.
9. KE Nye\*, AE Parent, MK Lachey, and **TA Wilgus**. 2011. *Ultraviolet light inhibits VEGF production in keratinocytes*. Presented at Ohio State University Medical Center Research Day.
10. BC Wulff\*, AE Parent, and **TA Wilgus**. 2010. *Mast cell lysate disrupts scarless healing in fetal skin*. Presented at the Ohio State University Medical Center Research Day.
11. Nye KE\*, Parent AE, and **TA Wilgus**. 2010. Keratinocyte VEGFR-1 expression is altered during chronic UV exposure. Presented at the Ohio State University Medical Center Research Day.
12. KE Nye\*, AE Parent, and **TA Wilgus**. 2010. *Modulation of keratinocyte VEGFR-1 expression in ultraviolet (UV) light-induced skin carcinogenesis*. Presented at the OSU Comprehensive Cancer Center Annual Meeting.
13. MA Meleski\*, BC Wulff, AE Parent, **TA Wilgus**. 2009. *Differences in Mast Cell Number and Makeup in Developing Mouse Skin*. Presented at the OSU Denman Undergraduate Research Forum.
14. BC Wulff\*, AE Parent, MA Meleski, and **TA Wilgus**. 2009. *Higher mast cell numbers are associated with scar formation in fetal wounds*. Presented at the Ohio State University Medical Center Research Day.
15. TS Breza\*, Jr., TM Oberyszyn, and **TA Wilgus**. 2003. *Regression of ultraviolet light induced skin tumors with the combination of 5-fluorouracil and celecoxib*. Presented at the OSU Medical Center Graduate and Postgraduate Research Forum, Ohio State University.
16. **TA Wilgus\***, AT Koki, B Zweifel, and TM Oberyszyn. 2002. *Inhibition of cyclooxygenase-2 activity with topical celecoxib blocks cutaneous ultraviolet light-B mediated inflammation and tumor formation*. Presented at the Comprehensive Cancer Center Scientific Meeting, Ohio State University.
17. **TA Wilgus\***, ML Parrett, MS Ross, and TM Oberyszyn. 2001. *Topical application of a specific cyclooxygenase-2 inhibitor, celecoxib inhibits the acute cutaneous ultraviolet light B mediated inflammatory response*. Presented at the Comprehensive Cancer Center Scientific Meeting, Ohio State University.

**Press:**

2009

Press Release: "Stimulus supports student, teacher research experiences at Ohio State". Source: The Ohio State University.

- 2008 Research chosen to be highlighted in the OSU Research Foundation's "Profile of Researchers Video Series".
- 2004 Story entitled "Skin cancer gets a boost from Pain Reliever" had 84 regional airings, and 209 national airing on various NBC and FOX affiliates.
- 2004 Press release: "Common pain drug may improve chemo for skin cancer". Source: The Ohio State University.
- 2003-2004 Research featured in Self magazine, Prevention Magazine, Men's Health Magazine, The Columbus Dispatch and The Lantern (OSU newspaper).
- 2003 Press Release: "Common pain relief drug may make skin cancer treatment more effective". Source: The Ohio State University.
- 2002 Research on ultraviolet light-induced skin cancer highlighted on Columbus local WNBC news and WABC news. Story was played 147 times around the country.
- 2002 Press Release: "Pain drug could lead to post-sunburn cancer prevention".