Curriculum Vitae of Thu "Annelise" Nguyen

Professor, Toxicology
School of Veterinary Medicine
Texas Tech University
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Education:

- Doctor of Philosophy (Ph.D.) – Toxicology
  Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University
  Faculty Advisor – Dr. Stephen Safe
- Master of Business Administration (M.B.A.) – Management
  College of Business, Kansas State University
  Faculty Advisors – Drs. Brian Niehoff and Kevin Gwinner
- Bachelor of Science (B.S.) – Molecular and Cell Biology
  Department of Biology, Texas A&M University
  Faculty Advisor – Dr. Tom Adams

Specialty Certification:

- Diplomate, American Board of Toxicology (D.A.B.T.), active 2018-2023

Professional Experience/Appointments:

- Professor, Toxicology, School of Veterinary Medicine, Texas Tech University, 8/20-present
- Associate Director, Johnson Cancer Research Center, Kansas State University, 1/20-8/2020
- Associate Professor, Toxicology, Department of Diagnostic Medicine/Pathobiology, Kansas State University, 3/12-3/20
- Chair, Faculty Affairs of Faculty Senate, Kansas State University, 5/18-8/20
- Chair, Institutional Biosafety Committee of Kansas State University, 5/18-8/19

- Appointed Scientific Reviewer, National Library of Medicine, Pub-Med Central, 6/18-present
- Director, Veterinary Research Scholars Program, College of Veterinary Medicine, Kansas State University, 11/13-12/18
- Visiting Research Scientist, National Institute of Health, Frederick National Laboratory for Cancer Research, Clinical Pharmacodynamics Biomarkers Program, 10/17-4/18
- Interim Director, Master of Public Health Program, Kansas State University, 2/16-6/16
- Assistant Professor, Toxicology, Department of Diagnostic Medicine/Pathobiology, Kansas State University, 11/05- 2/12
- Research Assistant Professor, Department of Diagnostic Medicine/Pathobiology, Kansas State University, 8/04- 10/05
- Research Assistant Professor, Department of Biochemistry, Kansas State University, 1/03 – 8/04
- Research Associate, Department of Biochemistry, Kansas State University, 8/01-1/03
- Graduate Research Assistant, Department of Pharmacology and Physiology, Toxicology, Texas A&M University, 6/97 – 7/01
- Biochemistry Teaching Assistant, Biochemistry 412 and 413 Courses, Department of Biochemistry, Texas A&M University, 9/96-5/97

Fields of Competence:

Molecular Toxicology, Molecular Biology, Carcinogenesis, Hormonal Oncogenesis, Tumor Biology, Tumor Microenvironment, Spheroid/Organoid Development (Ex Vivo Model), Drug Discovery, Breast Cancer, Canine Mammary Cancer, Lens Biology; Environmental Health, Public Heath; STEM and STEM-related outreach programs; Small Business Development, Management

Honors and Awards:

- 2020 PepGel® Award in Application, recognition in innovative model of *in vitro* 3D tumor
- 2019 John Doull Award, Central States Society of Toxicology
- 2019 Zaffarano Memorial Lecturer, Iowa State University

- 2018 Outstanding Member Award of the American Associate of University Women (AAUW) Manhattan Branch
- 2017 Inspiring Leaders in STEM Award by the INSIGHT Into Diversity
- 2016 Outstanding Department/Unit Award for Enhancing Diversity
- 2016 AAAS-Lemelson Invention Ambassador Nominee
- 2015, Invention, hydrogel biomaterial and its application, at the Innovation Festival – Smithsonian and US Patent and Trademark Office
- 2012, Inaugural K-State Women of Distinction
- 2011 University Distinguished Faculty Award for Mentoring Undergraduate Students in Research – the highest honor for mentoring students in research at Kansas State University
- Kansas Technology Enterprise Corporation Scholar – 2008-2009
- NIH Loan Repayment Award – 7/2004 to 6/2008
- Faculty Travel Fellowship – Terry C. Johnson Center for Basis Cancer Research – 11/2003
- ISER Travel Grant – The ICER Conference, Geneva, Switzerland – 10/2002
- NEI Travel Grant – ARVO Conference, Fort Lauderdale, FL – 3/2002

Intellectual Property:

- Title: Cell Linkers for Heterotypic Cell Spheroids
  Inventor: **Thu A. Nguyen,** Ralph E. Parchment, and Robert Kinders
  PCT Application No.: PCT/US2019/041800
  Issued: July 15, 2019
- Title: Polymer-cast Inserts for Cell Histology and Microscopy (PICHAMs) – System for High Throughput 3D Cell Culture and Screening Microscopy
  Inventors: **Thu A. Nguyen** and Ralph E. Parchment
  Provisional filed: March, 2018
- Title: Peptide-Albumin Hydrogel Properties and its Applications
  Inventors: Hongzhou Huang, **Thu A. Nguyen**, and Xiuzhi S. Sun
  EPO Patent: 13861358.3
  Issued: October, 2015
  US Patent: 20160030629A1
  Issued: February, 2016

- Title: Compounds affecting gap junction activity
  Inventors: Duy Hua, Dolores Takemoto, and **Thu A. Nguyen**
  US Patent: 8809368
  Issued: August, 2014
- Title: Use of siRNA and RNA against Connexin 46 for Medicinal/Disease Treatments
  Inventors: **Thu A. Nguyen** and Dolores Takemoto
  Filed: June, 2008
- Title: C1B domain peptide of PKCγ causes prolonged growth suppression of human cancer cells in vitro and in vivo
  Inventors: **Thu A. Nguyen** and Masaaki Tamura
  Filed: August, 2006

Funding:

- NCI-Leidos: HHSN261200800001E (**T.A. Nguyen, PI**) – Bio-active H9e Peptide Derivatives Form Novel Hydrogels – 2019-2020
- Flossie E. West Trust (**T.A. Nguyen, PI**) – Development of 3D Heterogeneous Tumor Spheroids – 2016-2020
- Boehringer Ingelheim Veterinary Research Scholars Program (**T.A. Nguyen, PI**) – The Veterinary Research Scholars Program at Kansas State University – 2018-2019
- Merial Veterinary Research Scholars Program **(T.A. Nguyen, PI**) – The Veterinary Research Scholars Program at Kansas State University – 2013-2017
- CEVA Biomune (**T.A. Nguyen, PI**) – Veterinary Research Scholar Training – 2015-2018
- NSF – STTR I and IB 1321261 (PepGel, **T.A. Nguyen**, X.S. Sun, and M. Weiss) - Novel Peptide Hydrogel for 3D Cell Culture – 2013-2016
- National Bio and Agro-defense Facility (NBAF) **(T. A. Nguyen, PI) –** Veterinary Research Scholar Training – 2015
- PepGel, LLC (**T.A. Nguyen, PI**) – Implantation of hydrogel in mice – 2015
- K-State Office of International Programs (**T.A. Nguyen, PI**) – Internationalization Activities with the Vietnam National University of Agricultural – 2015
- Morris Animal Foundation (**T.A. Nguyen, PI**) – Efficacy of Anticancer Drugs in Canine Mammary Carcinoma – 2015

- NIH/NCI – R15CA159250-01 (J. Li, PI, **T.A. Nguyen, Co-PI,** and D.H. Hua, Co-PI) – Nanoelectrode Array Based Electronic Biosensors for Rapid Profiling of Cancerous Enzymes – 2011-2015
- Center for Basic Cancer Research **(T.A. Nguyen, PI**) – Targeting Gap Junction Intercellular Communication for Triple Negative Breast Cancer Treatment – 2013
- Sustained Momentum for Investigators with Laboratories Established (SMILE) (**T.A. Nguyen, PI**) – Tumor recurrence after treatment with gap junction enhancers and the effects of long-term exposure in a spontaneous mammary tumor model – 2013
- NIH **–** 2T35OD010979-16 (PIs: B. Schultz, **T.A Nguyen**, and E.G. Davis) – Short Term Training in Health Professional Schools – 2013-2018
- NIH/NCI – R15CA152922-01 (**T.A. Nguyen, PI**) – Increasing efficacy of antineoplastic drugs with gap junction enhancers – 2010-2013
- NIH – P20RR016475-11 (J. Hunt, PI; D. Hua and **T.A. Nguyen, Project Leader**) – The Molecular Target of Gap Junction Enhancers – 2012-2013
- NIH – P20RR016475 (Joan Hunt, PI; **T.A. Nguyen, Project Leader**) – Anticancer Effect of Substituted Quinolines in Breast Cancer Cells – 2009-2012
- Center for Basic Cancer Research **(T.A. Nguyen, PI**) **–** Integrated Cellular System in Breast Cancer Cells – 2006
- NIH **–** P20RR017686 (Daniel Marcus, PI; **T.A. Nguyen, Project Leader**) – Center for Epithelial Function in Health and Disease – Regulation of Gap Junction in Colon Cancer Cells – 2004-2008
- Center for Basic Cancer Research **(T.A. Nguyen, PI) –** The Effects of Estrogen on Gap Junction in Breast Cancer Cells – 2005
- NIH/NEI LRP **(T.A. Nguyen, PI) –** Regulation of Gap Junction Activity in Colon Cancer Cells – 2004-2008
- NIH/NEI NRSA **(T.A. Nguyen, PI) –** Modulation of PKC γ on gap junction in lens – 2001-2004

Publications:

- Tiffany Carter, Guangyan Qi, Weiqun Wang, **T. Annelise Nguyen**, Nikki Cheng, Young Min Ju, Sang Jin Lee, James Yoo, Anthony Atala, and Xiuzhi Susan Sun. (2020) Self-

Assembling Peptide Solution Accelerates Hemostasis. *Advances in Wound Care*, https://doi.org/10.1089/wound.2019.1109.

- Stephani Shishido and **Thu Annelise Nguyen**. (2020) Combinational Treatment of Gap Junction Enhancers and Paclitaxel Attenuates Mammary Tumor Growth. *Anti-Cancer Drugs*, DOI: 10.1097/CAD.0000000000000879
- Savannah Luu, Cynthia Bell, and **Thu Annelise Nguyen**. (2019) Expression of connexins in canine mammary carcinoma. *Veterinary Science*, 6, 101; doi:10.3390/vetsci6040101.
- S.N. Shishido and **T. A. Nguyen**. (2017) "Cell-Cell Communications through Gap Junctions and Cancer in 3D Systems". Taylor & Francis book entitled *Engineering 3D Tissue Test Systems*. Eds. Didier Dreau, Karen Burg, and Tim Burg.
- Stephanie N. Shishido and **Thu A. Nguyen**. (2016) Induction of apoptosis by PQ1, a gap junction enhancer that upregulates connexin 43 and activates the MAPK signaling pathway in mammary carcinoma cells. *International Journal of Molecular Sciences*, 17(2), 178.
- Luxi Z. Swisher, Allan M. Prior, Medha J. Gunaratna, Stephanie Shishido, Foram Madiyar, **Thu A. Nguyen**, Duy H. Hua, Jun Li. (2015) Quantitative electrochemical detection of cathepsin B activity in breast cancer cell lysates using carbon nanofiber nanoelectrode arrays toward identification of cancer formation. *Nanomedicine*, 11(7), 1695-1704. Doi:10.1016/j.nano.2015.04.014
- Kristina Bigelow and **Thu A. Nguyen**. (2014) Increase of gap junction activities in SW480 human colorectal cancer cells. *BMC Cancer*, 14, 502. doi:10.1186/1471-2407-14-502
- Stephanie Shishido, Adelaide Delahaye, Amanda Beck, **Thu Nguyen**. (2014) The anticancer effect of PQ1 in the MMTV-PyVT mouse model. *International Journal of Cancer*, 134(6), 1474-1483. DOI: 10.1002/ijc.28461. PMID:24038078
- LZ Swisher, AM Prior, S Shishido, **TA Nguyen**, DH Hua, J Li. (2014) Quantitative electrochemical detection of cathepsin B activity in complex tissue lysates using enhanced AC voltammetry at carbon nanofiber nanoelectrode arrays. Biosensors and Bioelectronics 56, 129-136.
- Stephanie Shishido, Adélaïde Delahaye, Amanda Beck, and **Thu Annelise Nguyen**. (2013) The MMTV-PyVT transgenic mouse as a multistage model for mammary carcinoma and the efficacy of antineoplastic treatment. *Journal of Cancer Therapy*, 4, 1187-1197.

- Stephanie N Shishido, Keshar Prasain, Amanda Beck, Thi DT Nguyen, Duy H Hua and **Thu A. Nguyen**. (2013) Bioavailability and efficacy of a gap junction enhancer (PQ7) in a mouse mammary tumor model. *PLoS ONE* 8(6): e67174. doi:10.1371/journal.pone.0067174.
- Stephanie N. Shishido, Emma B. Faulkner, Amanda Beck, and **Thu A. Nguyen**. (2013) The Effect of Antineoplastic Drugs in a Male Spontaneous Mammary Tumor Model. *PLoS ONE*, 8(6): e64866. Doi: 10.1371/journal.pone.0064866
- Ying Ding and **T. A. Nguyen**. (2013) PQ1, a Quinoline Derivative, Induces Apoptosis in Breast Cancer Cells through both Intrinsic and Extrinsic Pathways. *Apoptosis,* doi 10.1007/s10495-013-0855-1.
- Huang H, Ding Y, Sun XS, **Nguyen TA**. (2013) Peptide Hydrogelation and Cell Encapsulation for 3D Culture of MCF-7 Breast Cancer Cells. *PLoS ONE* 8(3): e59482. doi:10.1371/journal.pone.0059482
- Swisher, L. Z., Syed, L. U., Prior, A. M., Madiyar, F. R., Carlson, K. R., **Nguyen, T. A.**, et al. (2013) Electrochemical protease biosensor based on enhanced AC voltammetry using carbon nanofiber nanoelectrode arrays. *Journal of Physical Chemistry*, 117(8), 4268-4277.
- Shishido, SN and **Nguyen, TA**. (2012) Gap Junction Enhancer Increases Efficacy of Cisplatin to Attenuate Mammary Tumor Growth. *PLoS ONE* 7(9): e44963.doi:10.1371
- Ying Ding and **T.A. Nguyen**. (2012) Gap Junction Enhancer Potentiates Cytotoxicity of Cisplatin in Breast Cancer Cells. *Journal of Cancer Science & Therapy*, 4(11): 371-378.
- Shishido, SN and **Nguyen, TA**. (2012) Gap Junction Enhancer Increases Efficacy of Cisplatin to Attenuate Mammary Tumor Growth. *PLoS ONE* 7(9): e44963.doi:10.1371
- Kawabata, A., Matsuzuka, T., Doi, C., Seiler, G., Reischman, J., Pickel, L., Ayuzawa R, **Nguyen TA**, Tamura M. (2012) C1B domain peptide of protein kinase Cγ significantly suppresses growth of human colon cancer cells in vitro and in an in vivo mouse xenograft model through induction of cell cycle arrest and apoptosis. *Cancer Biology and Therapy*, 13(10), 880-889.
- Ding Y, Prasain K, Nguyen TD, Hua DH, **Nguyen TA**. (2012) The effect of the PQ1 anti-breast cancer agent on normal tissues. *Anticancer Drugs*, 23(9): 897-905.

- Julie Bernzweig, Brian Heiniger, Keshar Prasain, Jianyu Lu, Duy H. Hua and **Thu A. Nguyen**. (2011) Anti-breast Cancer Agents, Quinolines, Targeting Gap Junction. *Med Chem.* 7(5):448-453.
- Gunjan Gakhar, Duy H. Hua, and **Thu Annelise Nguyen**. (2010) Combinational treatment of PQ1 and tamoxifen induces increased apoptosis in T47D breast cancer cells. *Anti-Cancer Drugs* 21: 77-88.
- EM Perchellet, KR Crow, G Gakhar, **TA Nguyen**, DH Hua, JP Perchellet. (2010) Bioactivity and molecular targets of novel substituted quinolines in murine and human tumor cell lines in vitro. *Intl. Journal of Oncology* 36(3):673-688.
- Debarshi Banerjee, D. Madgwick, Gunjan Gakhar, Dolores Takemoto, and **Thu Annelise Nguyen**. (2010) A novel role of gap junction connexin46 protein to protect breast tumors from hypoxia. *Intl. Journal of Cancer* 127(4): 839-848.
- Brian Heiniger, Gunjan Gakhar, Keshar Presain, Duy H. Hua, and **Thu Annelise Nguyen**. (2010) Second Generation of Substituted Quinolines as Anticancer Drugs for Breast Cancer. *Journal of Anticancer Research* 30(10): 3927-32.
- Gunjan Gakhar, Mary Wight-Carter, Gordon Andrews, Sally Olson, **Thu Annelise Nguyen**. (2009) Hydronephrosis and Urine Retention in Estrogen-Implanted Athymic Nude Mice. *Veterinary Pathology* 46(3): 505-508.
- Gakhar G, Diane Schrempp and **Nguyen TA**. (2008) Regulation of gap junctional intercellular communication by TCDD in HMEC and MCF-7 breast cancer cells. *Toxicology and Applied Pharmacology* 235(2):171-181.
- Gunjan Gakhar, Takahiro Ohira, Aibin Shi, Duy H. Hua and **Thu Annelise Nguyen**. (2008) Antitumor Effect of Substituted Quinolines via Gap Junctional Intercellular Communication in Breast Cancer Cells. *Drug Development Research* 69: 526–534.
- Aibin Shi, **Thu A. Nguyen,** Sandeep Rana, Dolores J. Takemoto, Peter K. Chiang, and Duy H. Hua. (2008) Synthesis and Bioevaluation of Substituted Quinolines. *Bioorg Med Chem Lett* 18:3364-3368.
- J.R. Sabah, B.D. Schultz, Z.W. Brown, **T.A. Nguyen**, J. Reddan, L.J. Takemoto. (2007). Transcytotic Passage of Albumin through Lens Epithelial Cells. *IOVS*, 48: 1237-1244.
- **T. A. Nguyen.** Book review. Rajeh K. Naz (Ed.), Endocrine Disruptors: Effects on Male and Female Reproductive Systems, second ed. (2005) *Toxicology Letters* 157, 173.

- **T. A. Nguyen**, L. J. Takemoto, and D. J. Takemoto. Inhibition of gap junction activity through the release of the C1B domain of PKCγ from 14-3-3: Identification of PKCγ binding sites. (2004) *J. Biol. Chem.* 279(50): 52714-25.
- **T.A. Nguyen**, D. Boyle, L.M. Wagner, T. Shinohara, and D.J. Takemoto. (2003) LEDGF Activation of PKC γ and Gap Junction Disassembly in Lens Epithelial Cells. *Experimental Eye Research* 76: 565-572.
- Kim K, **T Nguyen**, Saville B, and Safe S. (2003) Domains of Estrogen Receptor {alpha} (ER{alpha}) Required for ER{alpha}/Sp1-Mediated Activation of GC-Rich Promoters by Estrogens AND Antiestrogens in Breast Cancer Cells. *Mol Endocrinol.* 17: 804-817.
- C. Qin, **T. Nguyen**, J. Stewart, I. Samudio, R. Burghardt, and S. Safe. (2002) Estrogen Up-Regulation of p53 Gene Expression in MCF-7 Breast Cancer Cells Is Mediated by Calmodulin Kinase IV-Dependent Activation of a Nuclear Factor kappaB/CCAAT-Binding Transcription Factor-1 Complex. *Mol Endocrinol.* 16: 1793-1809.
- Matthew Stoner, Fan Wang, Mark Wormke, **Thu Nguyen**, Ismael Samudio, Carrie Vyhlidal, Dieter Marme, Gunter Finkenzeller, and Stephen Safe. (2000) Inhibition of Vascular Endothelial Growth Factor Expression in HEC1A Endometrial Cancer Cells through Interactions of Estrogen Receptor α and Sp3 Proteins. *J. Biol. Chem.* 275: 22769-22779.
- Brad Saville, Mark Wormke, Fan Wang, **Thu Nguyen**, Eva Enmark, George Kuiper, Jan-Ake Gustafsson, and Stephen Safe. (2000) Ligand-, Cell-, and Estrogen Receptor Subtype (α/β)-dependent Activation at GC-rich (Sp1) Promoter Elements. *J. Biol. Chem*. 275: 5379-5387.
- **Thu A. Nguyen**, Debie Hoivik, Jeong-Eun, and Stephen Safe. (1999) Interactions of Nuclear Receptor Coativator/Corepressor Proteins with the Aryl Hydrocarbon Receptor Complex. *Archives of Biochemistry and Biophysics* 367: 250-257.
- **Thu Nguyen**, Debie Hoivik, and Stephen Safe. (1998) Functional and Physical Interactions of Steroid Receptor Coactivator 1 (SRC-1) and the Aryl Hydrocarbon Receptor Complex. *Organohalogen Compounds*. 37: 169-173.
- Debie Hoivik, **Thu Nguyen**, Jane Thompsen, and Stephen Safe. (1997) Evidence Suggestion ERAP140 Interacts with the Aryl Hydrocarbon Receptor. *Organohalogen Compounds* 34: 342-347.

Published Abstracts/Proceedings:

- Emma Hawkins and **Annelise Nguyen**. (2019) Development of Heterogeneous Spheroids of Colon Cancerous and Non-cancerous cells. Central States Society of Toxicology – Des Moines, Iowa.
- James Osborn and **Annelise Nguyen**. (2019) Heterogeneous Spheroids of Prostate Tumors. Central States Society of Toxicology – Des Moines, Iowa.
- Savannah Luu and **Annelise Nguyen**. (2018) Gap junction intercellular communication in canine mammary carcinoma. Annual Meeting of Society of Toxicology – San Antonio, TX.
- Margherita Zecchin and **Annelise Nguyen**. (2017) Protein Kinase C Isoforms in Combinational Treatment of Paclitaxel and Substituted Quinolines. NIH-Boehringer Ingelheim Veterinary Research Symposium – Bethesda, MD.
- Savannah Luu and **Annelise Nguyen**. (2017) Comparative approach of gap junction intercellular communication in canine mammary carcinoma. Annual Meeting of Society of Toxicology – Baltimore, MD.
- Savannah Luu and **Annelise Nguyen**. (2016) Profile of Gap Junction Intercellular Communication in Canine Mammary Carcinoma. NIH-Merial Veterinary Research Symposium – Columbus, OH.
- Leigh Ann Feuerbacher and **Thu Annelise Nguyen**. (2015) Effect of PQ1 on tumor recurrence in a spontaneous murine mammary tumor model. Annual Meeting of Central States Society of Toxicology – Kansas City, KS.
- Marine Colson and **Annelise Nguyen**. (2015) Characterized canine cancerous cells. NIH-Merial Veterinary Research Symposium – Davis, CA.
- Giovanni Finesso and **Annelise Nguyen**. (2015) Efficacy of Anticancer Drugs in Canine Mammary Carcinoma. NIH-Merial Veterinary Research Symposium – Davis, CA.
- Luke Kicklighter, Leigh Ann Feuerbacher, and Annelise Nguyen. (2015) Targeting Gap Junction Intercellular Communication for Triple Negative Breast Cancer Treatment. K-INBRE Symposium – Topeka, KS.
- Hannah Gray and **Annelise Nguyen**. (2014) Biomarkers and Anticancer Drugs in Spontaneous Mammary Tumors. Developing Scholars Program Symposium – Manhattan,

KS.

- Nallely Barron and **Annelise Nguyen**. (2014) Effect of Tamoxifen on Canine Mammary Cancer. Developing Scholars Program Symposium – Manhattan, KS.
- Kristina Bigelow and **Thu Annelise Nguyen**. (2014) Shift of Cx43 isoform expression by PQ1 in SW480 Human colorectal Cancer Cells. Annual Meeting of American Association for Cancer Research – San Diego, CA.
- Michael Porta and **Annelise Nguyen**. (2014) Efficacy of Fulvestrant in Canine Mammary Carcinoma Cells. NIH-Merial Veterinary Research Symposium – Ithaca, NY.
- Stephanie Shishido and **Thu Annelise Nguyen**. (2013) Induction of apoptosis by PQ1, a gap junction enhancer that upregulates Cx43 and activates the p38-MAPK signaling pathway in mammary carcinoma cells. Annual Meeting of Central States Society of Toxicology – Ames, IA.
- Kristina Bigelow and **Thu Annelise Nguyen**. (2013) Cytotoxic Effect of Substituted Quinolines on SW480 Human Colon Cancer Cells. Annual Meeting of Central States Society of Toxicology – Ames, IA.
- Jessica Chavera and **Annelise Nguyen**. (2013) Charaterization of Canine Mammary Carcinoma Cells for Hormonal Receptros, Kinases, and Intercellular Communication. East Lansing, MI.
- Stephanie Shishido and **Annelise Nguyen**. (2013) The effect of anticancer compounds and the role of connexins n a new continuous cell line derived from a metastatic murine mammary carcinoma. Annual Meeting of American Association for Cancer Research, Washington, D.C.
- Kristina Bigelow and **Annelise Nguyen**. (2013) Effect of Gap Junction Enhancer in Colon Cancer Cells. K-INBRE symposium – Kansas City, MO.
- Nallely Barron, Stephanie Shishido, and **Annelise Nguyen**. (2013) Differential Pattern f Connexins in Mammary Cancer Cells of MMTV-PyVT Mouse. Developing Scholars Program Symposium – Manhattan, KS.
- Stephanie Shishido and **T.A. Nguyen**. (2012) Establishment and characterization of new continuous cell lines derived from murine mammary carcinomas and their response to anti-cancer compounds. Annual Meeting of Central States Society of Toxicology – Manhattan, KS.

- Ying Ding and **Thu Annelise Nguyen**. (2012) Enhancement Effect of Gap Junction Enhancer on Cisplatin Cytotoxicity in Breast Cancer Cells. Annual Meeting of Central States Society of Toxicology – Manhattan, KS.
- Stephanie Shishido, Keshar Prasain, Thi D.T. Nguyen, and **Annelise Nguyen**. (2012) The distribution of a gap junction enhancer and its effects on a mouse mammary tumor model. Capitol Graduate Research Summit – Topeka, KS.
- Kristina Bigelow and **Annelise Nguyen**. (2012) Upregulation of Gap Junctions with Substituted Quinolines in Colon Cancer Cells. Biennial Meeting of IDeA Symposium of Biomedical Research Excellence – Bethesda, MD.
- Ying Ding and **Thu Annelise Nguyen**. (2012) Gap junction enhancer as an anti-cancer agent via GJIC-dependent and independent pathways. Annual Meeting of American Association for Cancer Research – Chicago, IL.
- Stephanie Shishido and **Annelise Nguyen**. (2012) Histological and biological effects of substituted quinolines (gap junction enhancers) in a spontaneous mammary tumor model of PyVT mice. Annual Meeting of American Association for Cancer Research – Chicago, IL.
- Stephanie Shishido and **Annelise Nguyen**. (2012) Gap Junction Enhancer Increases Efficacy of Cisplatin to Attenuate Mammary Tumor Growth. Annual Meeting of Society of Toxicology – San Francisco, CA.
- Ying Ding and **Annelise Nguyen**. (2012) PQ1 Induces Cytotoxicity in Breast cancer Cells by Activating Both Intrinsic and Extrinsic Pathways of Apoptosis. Annual Meeting of Society of Toxicology – San Francisco, CA.
- Jonathan Bernard and **Annelise Nguyen**. (2012) Increase of cell communication in colorectal cancer. Developing Scholars Program symposium – Manhattan, KS.
- Felicia Walker and **Annelise Nguyen**. (2012) Screening of new anti-cancer drugs for breast cancer. Developing Scholars Program symposium –Manhattan, KS.
- Nallely Barron and **Annelise Nguyen**. (2012) Effect of Substituted Quinolines on Gene Expression of Gap Junction Proteins. Developing Scholars Program symposium – Manhattan, KS.

- Adelaide Delahaye, Stepahnie Shishido, and **Annelise Nguyen**. (2011) Histological and biological effects of substituted quinolines in a spontaneous mammary tumor model of PyVT mice. NIH-Merial Veterinary Research Symposium – Fort Collins, CO.
- Stephanie Shishido and **Annelise Nguyen**. (2011) Gap Junction Enhancer Increases Efficacy of Cisplatin to Attenuate Mammary Tumor Growth. *American Association for Cancer Research* – Orlando, FL.
- Kristina Bigelow and **Annelise Nguyen**. (2011) Upregulation of Gap Junctions with Substituted Quinolines in Colon Cancer Cells. *American Association for Cancer Research* – Orlando, FL.
- Ying Ding, Keshar Prasain, Duy Hua, and **Annelise Nguyen**. (2011) Bioavailability of Substitued Quinoline, a Gap Junction Enhancer. *American Association for Cancer Research* – Orlando, FL.
- Kristina Bigelow and **Annelise Nguyen**. (2010) Decreased interaction of Nedd4 and Cx46 by Gap Junction Enhancers in Breast Cancer Cells. *K-INBRE Annual Meeting* – Kansas City, MO.
- Jennifer Darby and **Annelise Nguyen**. (2010) Gap Junctional Intercellular Communication of Normal, Dysplastic, and Neoplastic Feline Mammary Tissues. *Morris Animal Foundation Annual Meeting* – Denver, CO.
- G. Gakhar, Duy Hua, and **T. A. Nguyen**. (2010) Increased apoptosis by combinational treatment of gap junction activator and tamoxifen in breast cancer cells. *Society of Toxicology* – Salt Lake City, UT.
- **T.A.Nguyen**, Ying Ding, and Kristina Bigelow. (2010) Disruption of Nedd4 and Cx46 by Gap Junction Enhancers in T47D Cells. *American Association for Cancer Research* – Washington D.C.
- Kristina Bigelow and **Annelise Nguyen**. (2010) Regulation of Gap Junctions in Colon Cancer Cells. *2th Biennial IDeA Conference* – Bethesda, MD.
- Brian Heiniger, Gunjan Gakhar, Keshar Prasain, Duy Hua, and **Annelise Nguyen**. (2010) Anti-breast Cancer Activities of Substituted Quinolines. *American Society of Cell Biology* – Philadelphia, PA.

- G. Gakhar, Duy Hua, and **T. A. Nguyen**. (2009) Combinational therapy of tamoxifen and primaquine compound affects GJIC and inhibits colony growth in T47D human breast cancer cells. *American Association for Cancer Research* – Denver, CO.
- Kristina Bigelow and **Annelise Nguyen**. (2009) Regulation of Gap Junctions in Colon Cancer Cells. *9th Annual Research Poster Symposium* – Manhattan, KS.
- Jennifer Darby and **Annelise Nguyen.** (2009) Gap Junctional Intercellular Communication of Normal, Dysplastic, and Neoplastic Feline Mammary Tissues. *Merck-Merial NIH Veterinary Scholars Symposium* – Raleigh, NC.
- G. Gakhar, Duy Hua, and **T. A. Nguyen**. (2009) Combinational of gap junction activator and tamoxifen in breast cancer cells. *Central States Society of Toxicology* – Ames, IA.
- G. Gakhar, Duy Hua, and **T. A. Nguyen**. (2009) Increased apoptosis by combinational treatment of gap junction activator and tamoxifen in breast cancer cells. *American Society for Cell Biology* – Washington D.C.
- D. Banerjee, D. Madgwick, G. Gakhar, D.J. Takemoto, **T. A. Nguyen**. (2008) Cx46, a Hypoxic-specific Gap Junction Which Protect Tumors from Hypoxia. *American Society for Cell Biology* – San Francisco, CA.
- Ofelia Zegarra-Moro and **Thu Annelise Nguyen**. (2008) Integrated Cellular System plays a crucial role in breast cancer development. *American Association for Cancer Research* – San Diego, CA.
- G. Gakhar, Takahiro Ohira, Duy Hua, and **T. A. Nguyen**. (2008) Primaquine-inhibited gap junctions via regulation of connexins 43 and 46. *American Association for Cancer Research* – San Diego, CA.
- Areli Monarrez and **T. Annelise Nguyen**. (2008) Changes in Gap Junctional Connexin Isoforms During Colorectal Cancer Progression. *American Association for Cancer Research* –San Diego, CA.
- Sola Kim and **T. Annelise Nguyen**. (2008) Antitumor effect of substituted quinolines in SW620 Human Colorectoral Cancer. *American Association for Cancer Research* – San Diego, CA.
- G. Gakhar, Takahiro Ohira, Duy Hua, and **T. A. Nguyen**. (2007) Antitumor Effect of Substituted Quinolines via Gap Junctional Intercellular Communication in Breast Cancer Cells. *American Association for Cancer Research* – Los Angeles, CA.

- Areli Monarrez and **T. Annelise Nguyen**. (2007) Changes in Gap Junctional Connexin Isoforms During Colorectal Cancer Progression. *8th Annual Undergraduate Research Forum* – Manhattan, KS.
- Sola Kim and **T. Annelise Nguyen**. (2007) Modulation of Subsituted Quinolines on Gap Junctional Intercellular Communication in SW620 Human Colorectoral Cancer. *8th Annual Undergraduate Research Forum* – Manhattan, KS.
- Rachel Lawn and **T. Annelise Nguyen**. (2007) Interaction of PKC γ and 14-3-3 in Caco-2 colorectal cancer cells. *8th Annual Undergraduate Research Forum* – Manhattan, KS.
- Takahiro Ohira and **T. Annelise Nguyen**. (2007) Inhibition of Cancer Cell Growth by Primaquine. *8th Annual Undergraduate Research Forum* – Manhattan, KS.
- Jerilynn Weisshaar and **Annelise Nguyen**. (2006) The Effect of Indole-3-Carbinol on Gap Junction Intercellular Communication in MCF-7 and MDA-453 Breast Cancer Cells. *Merck-Merial National Scholar Symposium* – Baton Rouge, LA.
- Vijaya Nareddy and **Annelise Nguyen**. (2006) Inhibition of Gap Junction Intercellular Communication via Phorbol Ester-Activated PKC γ in SW480 Epithelial Colon Cancer Cells. *National IDeA Symposium of Biomedical Research Excellence (NISBRE)* – Washington D.C.
- V. B. Nareddy **and T. A. Nguyen**. (2006) Regulation of Gap Junctions by TPA in Colon Cancer Cells. *Society of Toxicology* – San Diego, CA.
- G. Gakhar, D. Lawn, and **T. A. Nguyen**. (2006) Regulation of Gap Junctions by TCDD in Breast Cancer Cells. *Society of Toxicology* – San Diego, CA.
- Diane Schrempp and **Annelise Nguyen**. (2005) Regulation of Gap Junctions by TCDD in MDA-MB-231 and MCF-7 Breast Cancer Cells. *Merck-Merial National Scholar Symposium* – Athens, GA.
- **T A Nguyen**, A J Jurgensmeier, and D J Takemoto. (2004) Regulation of PKC by Phorbol Ester in Colon Cancer Cells. *American Society for Cell Biology (ASCB)* Conference, Washington D.C.

Teaching:

- DMP 801 – Veterinary Toxicology, 2006-2010, 10 hours of lecture

- DMP 802 / MPH 802 – Environmental Health, 2015- present, course coordinator as well as sole instructor, 45 hours of lecture
    - Teacher effectiveness: 4.8 out of maximum 5
    - Increase desire to learn: 4.8 out of maximum 5
    - Amount learned: 4.6 out of maximum 5
- DMP 804 – Ecotoxicology, 2 hours of lecture
- DMP 806 / MPH 806 – Environmental Toxicology, 2005-2017, 15 hours of lecture; 2018-present, course coordinator and sole instructor, 30 hours of lecture
    - Teacher effectiveness: 5 out of maximum 5
    - Increase desire to learn: 5 out of maximum 5
    - Amount learned: 5 out of maximum 5
- DMP 810 – Cancer Pathogenesis, course coordinator and sole instructor, 30 hours of lecture
    - Teacher effectiveness: 5 out of maximum 5
    - Increase desire to learn: 5 out of maximum 5
    - Amount learned: 4.8 out of maximum 5

Student Training:

- Major Professor for:
    - Brittany Blattner, MPH, 2020
    - Savannah Luu, MS, 2018
    - Elena Aronson, MPH, 2017
    - Deidre Bean, MPH, 2017
    - Cassandra Jones, MPH, 2016, epidemiologist at Tennessee Department of Public Health
    - Terra Dawes, MPH, 2016, US Captain at Fort Carson
    - Cassidy Keim, MPH, 2016
    - Rebecca Megee, MPH, 2016
    - Riley Evans, MS in Biochemistry, 2015
    - Kristina Bigelow, MS in Biomedical Sciences, 2014, PhD student at Johns Hopkins
    - Stephanie Shishido, PhD candidate in Pathobiology, 2013, Research Associate at USC Michelson Center, The Kuhn Laboratory

- Ying Ding, PhD in Biochemistry, 2013, Research Associate at Miami School of Medicine
- Kealan Schroeder, MPH, 2013
- Gunjan Gakhar, PhD in Pathobiology, 2009, currently assistant professor at Washington State University
- Vijaya Nareddy, MS in Biomedical Sciences, 2007, currently DVM at Ames, IA

- Major Professor for Undergraduate Students:
  - Emma Hawkins, 2020
  - Lana Herman, 2020
  - James Osborn, 2020
  - India Barrett, 2019
  - Daniel Avalos, 2019
  - Kevin Loya, 2018
  - Martha Nguyen, 2018, BS in Microbiology
  - Carolina Bueno, 2017
  - Matthew Thornsby, 2017, 1st year PhD student at KUMC
  - Kseniya Chumachenko, 2017, 2nd year PhD student at Kansas State University
  - Noah Trapp, 2017, high school science teacher in Mississippi
  - Luke Kicklighter, 2017, 2nd year medical student at Medical University of South Carolina
  - Carolina Garcia, 2016, MS at Kansas State University
  - Vinh Hoang, 2016, chemist at The Great Plains Laboratory
  - Hannah Grey, 2016, peace corps
  - Alan Duong, 2015, currently PhD student in aerospace engineering at Notre Dame
  - Andy Luu, 2015, BS in industrial engineering
  - Jonathan Bernard, 2014, 4th-year medical student at KUMC
  - Nallely Barron-Garcia, 2013, MD at KUMC
  - Felicia Walker, 2013, program animal specialist at Oakland Zoo
  - Clayton Habiger, 2013, MD
  - Emma Faulkner, 2013, DVM
  - Luis Chavez, 2012, MS in kinesiology

- Morgan Armbruster, 2012, ICU nurse in Wichita, KS
- Kristin Bigelow, 2012, currently PhD student at Johns Hopkins
- Jessica Rodriguez, 2011, currently doctoral student at Northwestern University
- Linette Ngaba, 2010
- Brian Heiniger, 2010,currently MD Internist at UT Southwestern University
- Randi King, 2008, currently associate scientist at Catalent Pharma Solutions
- Takahiro Ohira, 2008, chemist at Asahi in Japan
- Areli Monarrez, 2008, currently director of diagnostic lab in Kearne, NE
- Rachel Lawn, 2007, currently DVM in Waterloo, IL
- Sola Kim, 2007, currently MD in Kansas City, MO
- David Lawn, 2006, currently PharmD in Manhattan, KS
- Andrew Jurgensmeier, 2006, currently MD in Kansas City, MO

- Major Professor for Veterinary Research Scholars:
  - Margherita Zecchin (2017), 4th-year veterinary student
  - Savannah Luu (2016), 2nd-year veterinary student
  - Marine Colson (2015), 4th-year veterinary student
  - Giovanni Finesso (2015), DVM, Anatomic Pathology Resident at UPenn
  - Michael Porta (2014), DVM at Wheat Ridge Animal Hospital, Wheat Ridge, CO
  - Jessica Chavera (2013), DVM, neurology resident at Washington State University
  - Adelaide Delahaye (2011), DVM, MS in Houston, TX
  - Julie Bernzweig (2010), DVM in Arizona
  - Jennifer Darby (2009), DVM at Pet Doctors of America, Jacksonville, FL
  - Jerilynn Weisshaar (2007), DVM at West Ridge Animal Hospital, Topeka, KS
  - Diana Schrempp (2005), DVM oncologist at VCA Veterinary Care Animal Hospital, Albuquerque, New Mexico
- Graduate Committee for:
  - Patricia McKenna, 2020
  - Amy Wedel, 2018
  - Linda Adnan Alyahya, 2017
  - Yue Qi, Biochemistry, 2016
  - Luxi Swisher, Chemistry, 2015

- Sara Duhachek-Muggy, PhD candidate in Biochemistry, 2014
- Allan Prior, PhD candidate in Chemistry, 2013
- Allison Crow, MPH, 2013
- Gabriel Kenne, MPH/MS, 2013
- Cristina Bonnelly, MPH, 2012
- Erica McCain, PhD in Biology, 2011
- Xiaoxia Wang, MS in Biomedical Sciences, 2011
- Debarshi Banerjee, PhD in Biochemistry, 2010
- Kanithaporn Puangsombat, PhD in Food Science, 2010
- Shanzhong Gong, MS in Pathobiology, 2010
- Lalitha Peddireddi, PhD in Pathobiology, 2009
- Kamesh Reddy Sirigireddy, PhD in Pathobiology, 2007
- Orn-usa Suwitheechon, MS in Clinical Sciences, 2007

- Research advisor for veterinary oncology resident:
  - Sabina Sheppard, current oncology resident

Professional Membership:

- Association for Women in Science
- American Society for Cell Biology
- Society of Toxicology
- American Association for Cancer Research
- Sigma Chapter of Phi Zeta Society
- Kansas Public Health Association

Significant Service Activities:

- **National**:
  - Appointed Member of the PubMed Central (PMC) Scientific Review Panel – 2018
  - Appointed Member of the Literature Selection Technical Review Committee for the National Library of Medicine – 2013-2017; Appointed chair for 2016-2017
  - Appointed Member for Education Committee, Society of Toxicology – 2013-2016

- Co-chair, Society of Toxicology Regional Chapter Collaboration and communication Committee, 2018-2019
- President, Central States of Society of Toxicology – 2012-2013, 2018-2019
- Councilor, Central States of Society of Toxicology –2007-2009
- Chair Session of Breast Cancer at Society of Toxicology, Seattle, Washington, March 19, 2008

- **University**:
  - Research Committee, School of Veterinary Medicine, Texas Tech University, present
  - Johnson Cancer Research Center Director Search Committee, 8/2019
  - GROW, EXCITE, and SUCCEED Steering Committee, Office for the Advancement of Women in Science and Engineering – 2018-2020
  - Chair of KSU-Institutional Biosafety Committee (IBC) – 5/2018-8/2019; member of KSU- IBC – 2009-2018
  - Faculty Senate – elected to serve 3-yr term, 2018-2021; chair of Faculty Affairs Subcommittee, 2019-2020
  - Advisory Council for the Office of Undergraduate Research and Creative Inquiry – 2014-2016
  - Vice President for Research Search Committee, 2014 and 2016
  - University Task Force for Undergraduate Research – 2011
  - Faculty Advisor, Vietnamese Student Association of Kansas State University – 2001-present
  - Faculty Advisor, American Association for University Women (AAUW) Student Chapter at Kansas State University – 2016-present
- **College**:
  - Dean Search Committee, College of Veterinary Medicine, Kansas State University, 2019
  - Chair of Multicultural Perspectives and Initiatives, Kansas State University – 2011-2015
  - President – Phi Zeta Society – 3/2009-3/2010

- Chair of the International Activity Committee of Kansas State University-College of Veterinary Medicine – 2008-2011
- CVM Representative for Global Food Initiatives of KSU-Shawnee Mission School District
- Anatomy and Physiology Department Head Search Committee, 2016
- Chair of Veterinary Immunologist Search Committee, 2016
- Coordinator of the Parallel Paths, a college-wide faculty mentoring activity for promotion and tenure

- **Department**:
  - Elected Member of Graduate Faculty Committee of Diagnostic Medicine and Pathobiology Department at Kansas State University – 2014-2020
  - Seminar Coordinator, 2011-2014
  - Faculty Mentoring Committees:
    - Chair for Dr. Nora Springer, 2017-2020
    - Chair for Dr. Lalitha Peddireddi, 2015-2018
    - Chair for Dr. Susan Moore, 2015-2020
    - Member for Dr. Sarah Schneider, 2019-2020
    - Member for Dr. Raelene Wouda, 2014-2020
    - Member for Dr. Wenjun Ma, 2012-2016

Community Service

- Pilot International – Little Apple Pilot Club (non-profit service organization), Chair of Fundraising Division
- American Association of University Women (AAUW), Founder and Advisor for student organization at Kansas State University
- Kansas Cancer Focus Group
- Kansas Public Health Association

Entrepreneurship

- President and CEO of Mini Properties, LLC – commercial building real estate