

Mark Wallace Moody

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EXPERIENCE

Nov., 2002 – Present.

MARK MOODY PHOTOGRAPHY, Sole Proprietor: Fine-Art and Stock photography emphasizing subject matter which exists at the boundary between reflected light and transmitted light microscopy. My slide-to-digital print process includes: Knowledge and implementation of color profiles for viewing and printing images, high resolution scanning of transparencies, monitor calibration with professional equipment, image color correction, CMYK conversion, preparation of Master Files for digital printing processes and the creation of archival media (DVD and CD). I have extensive knowledge, including troubleshooting, of both PC and Macintosh platforms (10+ years with both types of computers). Well acquainted with the use of Microsoft Office software including: Excel, Word, and Powerpoint on both Macintosh and PC. Proficient in the use of Adobe Photoshop v5.0-CS2, Adobe GoLive v4.0-CS2, and Genuine Fractals PrintPro. I have a proven record of the ability to work alone, and with teams, to complete/solve complex projects and problems. I am represented non-exclusively by Gallery 110, located in Pioneer Square at 110 South Washington Street, Seattle, WA 98104, 206.634.9336. Some current work and more information can be found at: <http://www.nanaphon.com>, and <http://www.gallery110.com>.

June 2003 – Present.

RESEARCH SCIENTIST 1: Division of Pulmonary and Critical Care Medicine, University of Washington School of Medicine, Seattle, Washington 98195. Supervisor: Dr. Teal Hallstrand, Assistant Professor of Medicine.
Responsible for analysis of clinical samples in on-going clinical research examining the physiological basis of exercise-induced asthma. Development, optimization, and utilization of laboratory protocols designed to investigate airway inflammation and associated airway remodeling including: isolation RNA for genetic analysis, magnetic cell-separation, high-throughput fluorescent analysis of exhaled breath condensate, ELISA of lipid mediators and mucins, development of *in vitro* models including isolation of primary cultures, and identification/characterization of inflammatory cell population distribution. Additional responsibilities include the maintenance of laboratory equipment, operation, and training of laboratory personnel.

September, 1999 – Dec. 2002

STAFF SCIENTIST: Inologic, Incorporated. 3005 1st Ave, Ste. 300, Seattle, WA . Supervisor: Dr. Alexis Traynor-Kaplan, CEO and co-founder.
I excel at optimizing experimental results.

Responsible for developing primary cell lines and well differentiated *in vitro* models for use in electrophysiological experiments. Developed protocols to examine the effects of phosphoinositide analogs on ion channel regulation. Responsibilities include: Summarizing acquired data for grant renewal deadlines and patents, grant writing, review of current and related literature, preparing abstracts for presentation, primary cell isolation and culture, Ussing chamber operation, lab maintenance, supply ordering, and training of laboratory personnel.

October, 1994 - June 4, 1998.

RESEARCH TECHNOLOGIST II: University of Washington School of Medicine, Division of Gastroenterology and Seattle Veterans Affairs Medical Center. Supervisor: Dr. Toan Nguyen, Associate Professor of Medicine.
Lead technician for the Cystic Fibrosis electrophysiology core for the gastroenterology department at the University of Washington School of Medicine. Experience with complex laboratory research in cell physiology including: fluorescence and time-lapse microscopy, diffusion chamber operation, isotope efflux assays and auto-titrator operation. Experienced with advanced cell culture techniques for more than 20 epithelial and mesenchymal cell lines, including isolation of human cell lines and co-culture. Familiar with the following Molecular Biology techniques: DNA/RNA isolation, DNA ligation/digestion, agarose gel electrophoresis, SDS-PAGE, and transfection. Handling of the following radioisotopes according to Nuclear Regulatory Commission safety regulations: ³²P, ¹²⁵I, ⁸⁶Rb, ³⁵S. Maintenance of radioiodination facility. Manager of laboratory supplies and equipment. Manager of all laboratory databases. Responsible for review of current and related literature. Experience at supervising and training laboratory personnel. Proficient in use of Macintosh and

Windows 9x operating systems utilizing the following software: Microsoft Word, Excel, Powerpoint, Microcal Origin 6.0, Filemaker Pro, Cricket Graph, Endnote, and Adobe Photoshop, Metamorph/Metafluor.

May, 1994 - Sept., 1994.

RESEARCH TECHNICIAN: Seattle Institute for Biomedical and Clinical Research at the Seattle Veterans Affairs Medical Center, 1660 S. Columbian Way, Seattle, WA. Supervisor: Dr. Toan Nguyen, Associate Professor of Medicine.

University of Washington affiliated laboratory. Responsible for cell culture and executing physiological experiments on various cell models including: CFPAC-I, DPDE, MGBE, IB3, and T84 cells. Maintenance of laboratory equipment and supplies. Familiarity with protein assays and receptor binding assays using radiolabeled peptides. Data compilation and analysis.

Nov., 1991-Sept 1993.

RESEARCH ASSISTANT: Institute for Watershed Studies, Western Washington University, Bellingham, WA. Supervisor: Thomas A. Storch, Ph.D. Washington State Department of Ecology certified laboratory. Proficient with chemical, physical, and biological analyses on lakes and streams. Responsible for preparation of an environmental health report for the Washington State Department of Ecology based on the collection and identification of aquatic macroinvertebrates. Experience with the preparation, organization, and construction of research equipment. Responsible for data entry, analysis, and data quality control. Laboratory maintenance and glassware preparation.

Summer 1991

VOLUNTEER: Institute for Watershed Studies, Western Washington University, Bellingham, WA. Assistant to Institute personnel in sampling, analyses, lab maintenance, data entry, and data quality control.

EDUCATION

Bachelor of Science, Environmental Science,
Huxley College of Environmental Studies,
Western Washington University, Bellingham, Washington
Major: Watershed Studies/Aquatic Entomology
March, 1993.

HONORS

- Oral presentation at Workshop Session II, Workshop 11: Therapeutic Approaches to Modulate or Bypass CFTR, Friday, October 26th, 2001 at the Fifteenth Annual North American CF Conference, Orlando, FL, October, 2001.
- Nomination and member: R&D Research Safety Subcommittee, Nov., 1996
- Chuckanut District of Garden Clubs Scholarship, 1992-93.

BIBLIOGRAPHY

PUBLICATIONS:

1. Nguyen, T.D., Koh, D-S., **Moody, M.W.**, Fox, N.R., Savard, C.E., Kuver, R., Hille, B., Lee, S.P. Characterization of two distinct chloride channels in cultured dog pancreatic duct epithelial cells. *Am J Physiol.* Jan;272(1 Pt 1):G172-80, 1997.
2. Nguyen, T.D., Okolo, C.N., **Moody, M.W.** Histamine stimulates ion transport by dog pancreatic duct epithelial cells through H₁ receptors. *Am J Physiol.* Jul;275(1 Pt 1):G76-84, 1998.
3. Nguyen T.D., **Moody, M.W.**, Savard, C.E., Lee, S.P. Secretory effects of ATP on nontransformed dog pancreatic duct epithelial cells. *Am J Physiol.* Jul;275(1 Pt 1):G104-13, 1998.
4. Nguyen, T.D., **Moody, M.W.** Calcium-activated potassium conductances on cultured nontransformed dog pancreatic duct epithelial cells. *Pancreas.* Nov;17(4):348-58, 1998.
5. Nguyen, T.D., **Moody, M.W.**, Steinhoff, M., Okolo, C., Koh, D-S., Bunnett, N.W. Trypsin activates pancreatic duct epithelial cell ion channels through proteinase-activated receptor-2. *J Clin Invest.* Jan;103(2):261-9, 1999.
6. Koh, D.S., **Moody, M.W.**, Nguyen, T.D., Hille, B. Regulation of exocytosis by protein kinases and Ca²⁺ in pancreatic duct epithelial cells. *J Gen Physiol.* Oct;116(4):507-20, 2000.
7. Nguyen, T.D., Meichle, S., Kim, U.S., Wong, T., and **Moody, M.W.** P2Y₁₁, a purinergic receptor acting via cAMP, mediates secretion by pancreatic duct epithelial cells. *Am. J. Physiol. Gastrointest. Liver Physiol.* May;280(5):G795-G804, 2001.
8. Dinkel, C., **Moody, M.**, Traynor-Kaplan, A, and Schultz, C. Membrane-permeant 3-OH-phosphorylated phosphoinositide derivatives. *Angew. Chem. Int. Ed.* 40(16):3004-8, 2001.
9. Okolo, C., Wong, T., **Moody, M.**, and Nguyen, T.D. Effects of bile acids on dog pancreatic duct epithelial cell secretion and monolayer resistance. *Am. J. Physiol. Gastrointest. Liver Physiol.* 2002 Nov;283(5):G1042-50.
10. Traynor-Kaplan A, **Moody M**, and Schultz C. An inositol phosphate analog, INO-4995 normalizes electrophysiology in CF airway epithelia. *Adv. Exp. Med. Biol.* 558: 115–127, 2005.
11. **Moody M**, Pennington C, Schultz C, Caldwell R, Dinkel C, Rossi MW, McNamara S, Widdicombe J, Gabriel S, Traynor-Kaplan AE. Inositol polyphosphate derivative inhibits Na⁺ transport and improves fluid dynamics in cystic fibrosis airway epithelia. *Am. J. Physiol. Cell Physiol.* 2005 Sep;289(3):C512-20. Epub 2005 Apr 27.
12. Hallstrand TS, **Moody MW**, Aitken ML, Henderson WR Jr. Airway immunopathology of asthma with exercise-induced bronchoconstriction. *J. Allergy Clin. Immunol.* 2005 Sep;116(3):586-93.
13. Hallstrand TS, **Moody MW**, Wurfel MM, Schwartz LB, Henderson WR Jr, Aitken ML. Inflammatory basis of exercise-induced bronchoconstriction. *Am. J. Respir. Crit. Care Med.* 2005 Sep 15;172(6):679-86. Epub 2005 Jun 9.

PATENTS:

1. Traynor-Kaplan Alexis (US); Schultz Carsten (DE); Meyerdierks Tanja (DE); **Moody Mark** (US); Schnaars Andrew (DE); Smith Jane (US). 2002. Inositol Derivatives for Increasing Chloride Secretion and Inhibiting Inflammation. International Patent WO0241831, filed November 21 2001, and issued May 30, 2002.
2. Traynor-Kaplan Alexis (US); **Moody Mark** (US). 2003. Method of Modulating Sodium Ion Absorption in Epithelial Cells. International Patent WO03024189, filed September 19 2002, and issued March 27, 2003.

ABSTRACTS/PRESENTATIONS:

1. Nguyen, T.D., **Moody, M.W.**, Fox, N.R., Kuver, R., and Lee, S.P. Characterization of chloride transport in primary cultures of dog pancreatic duct epithelial cells. *Gastroenterology* 108: A378, 1995. Presented at the National AGA Meetings, San Diego, CA, 1995.
2. Nguyen, T.D., **Moody, M.W.**, Fox, N.R., Kuver, R., and Lee, S.P. Characterization of chloride secretion by dog pancreatic duct epithelial cells. *Pediatric Pulmonology, Suppl.* 12: 201, 1995. Presented at the Ninth Annual North American CF Conference, Dallas, TX, 1995.
3. Nguyen, T.D., **Moody, M.W.**, and Lee, S.P. Characterization of potassium transport by non-transformed dog pancreatic duct epithelial cells. *Gastroenterology* 110: A421. Presented National AGA Meetings, San Francisco, CA 1996.
4. Nguyen, T.D., and **Moody, M.W.** Effect of ATP on non-transformed dog pancreatic duct epithelial cells. *Gastroenterology* 110: A1277. Presented National AGA Meetings, San Francisco, CA 1996.
5. Nguyen, T.D., and **Moody, M.W.** Activation of chloride and potassium channels by ATP in dog pancreatic duct epithelial cells. *Pediatric Pulmonology, Suppl.* 13: 241, 1996. Presented at the Tenth Annual North American CF Conference, Orlando, FL, 1996.
6. Nguyen, T.D., and **Moody, M.W.** Apical localization of chloride channels on non-transformed dog pancreatic duct epithelial cells. *Gastroenterology* 112: A466, 1997. Presented National AGA Meetings, Washington, D. C., May 1997.

7. Nguyen, T.D. and **Moody, M.W.** Effects of histamine on non-transformed dog pancreatic duct epithelial cells. *Gastroenterology* 112: A466, 1997. Presented National AGA Meetings, Washington, D. C., May 1997.
8. Traynor-Kaplan, A.E., **Moody, M.**, Wolfson, E., and Nguyen, T.D. Hydrogen peroxide inhibits secretion by colonic and pancreatic secretory epithelia. *Gastroenterology* 112: A412, 1997. Presented National AGA Meetings, Washington, D.C., May 1997.
9. C.E. Savard, **M. Moody**, T.D. Nguyen, and Lee, S. P. Secretin increases cAMP and activates chloride channels in cultured dog pancreatic duct epithelial cells, *Gastroenterology* 112: A479, 1997.
10. Koh, D.-S., **Moody, M.W.**, Nguyen, T.D., Tempel, B.L., Hille, B. Real-time detection of exocytosis in epithelial cells. *Society for Neuroscience Abstracts* 23: 467, 1997.
11. C.N. Okolo, **M.W. Moody**, and T.D. Nguyen. Effects of bile acids on secretion by dog pancreatic duct epithelial cells. *Gastroenterology* 114: A488, 1998. Presented National AGA Meetings, New Orleans, LA, May 1998.
12. T.D. Nguyen, M.W. **Moody**, C.N. Okolo, and N.W. Bunnett. Trypsin activates ion channels of dog pancreatic duct cells via proteinase-activated receptors-2. *Gastroenterology* 114: A1169, 1998. Presented National AGA Meetings, New Orleans, LA, May 1998.
13. Duerson, K., **Moody, M.**, Schnaars, A., Schultz, C., and Traynor-Kaplan, A.E. Patch Clamp analysis of a Cl⁻ current stimulated by a membrane-permeant inositol polyphosphate analogue in CF nasal epithelial cells. *Pediatric Pulmonology, Suppl.* 20: 199-200, 2000. Presented at the Fourteenth Annual North American CF Conference, Baltimore, MD, November 2000.
14. **Moody, M.**, Schnaars, A., Gillandt, H., Schultz, C., and Traynor-Kaplan, A. A novel membrane-permeant inositol polyphosphate increases I_{sc} in cultured CF human nasal epithelial monolayers. *Pediatric Pulmonology, Suppl.* 20: 206, 2000. Presented at the Fourteenth Annual North American CF Conference, Baltimore, MD, November 2000.
15. **Moody, M.**, Duerson, K., Dinkel, C., Pennington, C., Schultz, C., Traynor-Kaplan, A. A membrane-permeant analog of inositol 3,4,5,6-tetrakisphosphate inhibits Na⁺ absorption in CF nasal epithelia. *Pediatric Pulmonology, Vol 32, Suppl.* 22: Abstract 248, 2001. **Oral presentation** at Workshop Session II, Workshop 11: *Therapeutic Approaches to Modulate or Bypass CFTR*, 3:55pm, Friday, October 26th, 2001 at the Fifteenth Annual North American CF Conference, Orlando, FL, October, 2001.
16. T.S. Hallstrand, **M.W. Moody**, M.L. Aitken, W.R. Henderson, Jr. Characteristics of Airway Inflammation in the Exercise-Induced Bronchoconstriction Asthma Sub-Phenotype. Presented at 2004 American Thoracic Society Conference in Orlando, FL, USA., Wednesday, May 26, 2004
17. T.S. Hallstrand, M.M. Wurfel, **M.W. Moody**, W.R. Henderson, Jr., M.L. Aitken. Identification of Differentially Expressed Genes in Human Airways Contributing to Exercise-Induced Bronchoconstriction. Presented at 2004 American Thoracic Society Conference in Orlando, FL, USA., Wednesday, May 23, 2004
18. T.S. Hallstrand, MD, MPH, **M.W. Moody**, BS, M.M. Wurfel, MD, PhD, L.B. Schwartz, MD, PhD, W.R. Henderson, Jr., MD, M.L. Aitken, MD. Role of the Airway Epithelium and Airway Inflammatory Mediators in Exercise-Induced Bronchoconstriction. Presented at 2005 American Thoracic Society Conference in San Diego, CA, USA. May 22, 2005.