

EDUCATION

Doctor of Philosophy

Fred Hutchinson Cancer Research Center, University of Washington, Seattle
Molecular and Cellular Biology

Master of Science

University of Wisconsin, Madison
Veterinary Sciences

Bachelor of Science

University of Wisconsin-Madison
Genetics and Biochemistry

PROFESSIONAL EXPERIENCE

Scientific Writer and Editor (2016-present)

- Providing freelance writing and editing support to clients worldwide.
- Assisted over 90 scientists prepare technical documents that included manuscript articles, review articles, grant proposals, slide presentations, medical book chapters and surgical procedures.

Postdoctoral Fellow (2012-2014), Department of Genome Sciences, University of Washington, Seattle

- Research focused on understanding the mechanisms underlying mitochondrial quality control in the *D. melanogaster* model system. Conducted a genetic screen that identified modifiers of the PINK1-Parkin pathway that regulates the turnover of damaged mitochondria.
- Wrote two successful grant applications that resulted in funding support for two consecutive years: Genome Sciences Training Grant, NIH and Aging Training Grant, NIH.

Doctoral Graduate Student (2005-2011), Molecular and Cellular Biology, Fred Hutchinson Cancer Research Center, University of Washington, Seattle

- Thesis work focused on characterizing the role of a lipid sensing nuclear receptor in the *C. elegans* model system. Demonstrated a novel nuclear receptor partnership involved in the regulation of lipid metabolism.
- Wrote one first author publication: PLOS Genet. 8(4), 2012.
- Presented research findings at two meetings.

Teaching Associate (2002-2005), Department of Orthopedics, University of Washington,

Seattle

- Research focused on studying the cellular and molecular effects of bone cells exposed to hypoxia. Demonstrated that osteopontin is upregulated by bone cells exposed to hypoxia.
- Wrote one co-author publication: J Bone Miner Res. 20 (2), 250-256, 2005.

Research Assistant (2000-2002), Targeted Genetics Corporation, Seattle

- Work focused on generating, characterizing gene expression constructs and their incorporation into novel, targeted, lipid and polymer based gene delivery systems.

Masters Graduate Student (1998-2000), Department of Animal Health and Biomedical Sciences, University of Wisconsin-Madison

- Thesis work focused on elucidating the impact of mitochondrial electron transport system (ETS) enzymatic activities on aging skeletal and cardiac muscles. Demonstrated that mitochondrial DNA deletion mutations colocalize with segmental ETS abnormalities and oxidative damage.
- Wrote one co-author publication: FASEB J. 15, 322-332, 2001.

SUMMARY OF PUBLICATIONS AND PRESENTATIONS

Grants

- Genome Sciences Training Grant, NIH (2012-2014)
- Aging Training Grant, NIH (2012-2014)

Papers

- **Pranali Pathare**, Alex Lin, Stefan Taubert, Karin Bornfeldt, Marc Van Gilst. Coordinate regulation of lipid metabolism by novel nuclear receptor partnerships. PLOS Genet. 8(4), 2012.
- Ted Gross, Katy King, Natalia Rabaia, **Pranali Pathare**, Sundar Srinivasan. Upregulation of osteopontin by osteocytes deprived of mechanical loading or oxygen. J Bone Miner Res. 20 (2), 250-256, 2005.
- Jonathan Wanagat, Zhenjin Cao, **Pranali Pathare**, Judd M. Aiken. Mitochondrial DNA deletion mutations colocalize with segmental electron transport system abnormalities, muscle fiber atrophy, fiber splitting, and oxidative damage in sarcopenia. FASEB J. 15, 322-332, 2001

Oral Presentations

- **Pranali Pathare**, Marc Van Gilst. Co-ordinate regulation of sphingolipid metabolism by nuclear receptor partnership. International Worm Meeting. Los Angeles, CA, 2007.
- **Pranali Pathare**, Marc Van Gilst. NHR-49: regulator of lipid metabolism. Seattle Worm Meeting. Seattle, WA, 2007.

Poster Presentations and Published Abstracts

- **Pranali Pathare**, Tessie Ng, Marc Van Gilst. NHR-49 influences mitochondrial physiology by regulating distinct aspects of lipid metabolism. Nuclear Receptor Meeting. Cold Spring Harbor, NY, 2010.
- **Pranali Pathare**, Marc Van Gilst. Co-ordinate regulation of lipid metabolism by a novel nuclear receptor partnership. International Worm Meeting, Los Angeles, CA, 2009.
- **Pranali Pathare**, Ted Gross. Heat shock protein modulation by hypoxic osteocytes. American Society of Bone and Mineral Research, Seattle, WA, 2004.
- Jonathan Wanagat, Nate Van Zeeland, **Pranali Pathare**, Judd M. Aiken. Segmental mitochondrial abnormalities concurrent with skeletal muscle fiber oxidative damage, atrophy and splitting. American Aging Association Annual Meeting, Boston, MA, 2000.
- Allen Herbst, Jonahan Wanagat, **Pranali Pathare**, Judd M. Aiken. Age-associated electron system abnormalities concurrent with intra-fiber atrophy in rat skeletal muscle fibers. American Aging Association Annual Meeting, Seattle, WA, 1999.

PROFESSIONAL MEMBERSHIPS

American Medical Writers Association (AMWA)