Human Physiology

Andrew Karduna, Department Head
541-346-4107
541-346-2841 fax
181 Esslinger Hall

Human physiology is the science of the mechanical, physical, and biochemical function of humans, and serves as the foundation of modern medicine. As a discipline, it connects science, medicine, and health, and creates a framework for understanding how the human body adapts to stresses, physical activity, and disease.

Human physiology and anatomy are closely related—anatomy is the study of form, physiology is the study of function, and form and function are intrinsically linked. The study of human physiology integrates knowledge across many levels, including biochemistry, cell physiology, and organ systems. Contemporary research in human physiology explores new ways to maintain or improve the quality of life, the development of new medical therapies and interventions, and the unanswered questions about how the human body works. The Department of Human Physiology serves its students by providing strong training in human physiology and anatomy to prepare them for careers in medicine, allied health professions, and biomedical research.

Faculty

Damien Callahan, assistant professor. BA, 2001, Boston; PhD, 2011, Massachusetts, Amherst. (2017)

Hans Dreyer, associate professor. BS, 1998, California State, Long Beach; MS, 2002, PhD, 2004, Southern California. (2009)

Grace Golden, senior lecturer. BS, 1989, MS, 1991, Oregon; PhD, 2007, Oregon State. (2009)

Ian Greenhouse, assistant professor. BA, 2004, Tufts; PhD, 2012, California, San Diego. (2017)

Michael Hahn, associate professor. BS, 1996, Colorado Mesa; MS, 2000, Iowa State; PhD, 2003, Oregon. (2012)

John Halliwill, professor. BS, 1991, Ohio State; PhD, 1995, Medical College of Virginia. (2002)

Robin Hopkins, senior instructor. BS, 2005, Simon Fraser; MS, 2009, Western Ontario; PhD, 2014, British Columbia. (2014)

Adrianne Huxtable, associate professor. BS, 2003, British Columbia; PhD, 2009, Alberta. (2015)

Andrew Karduna, professor. BS, 1989, Massachusetts Institute of Technology; MS, 1991, Johns Hopkins; PhD, 1995, Pennsylvania. (2002)

Andrew Lovering, professor. BS, 1995, PhD, 2003, Texas Tech. (2007)

Michelle Marneweck, assistant professor. BA, 2020, MS/PhD, 2014, Western Australia. (2020)

Philip Matern, senior instructor. BS, 2003, Gonzaga; MS, 2005, Central Washington. (2014)

Carrie McCurdy, associate professor. BS, 1998, Notre Dame; PhD, 2004, Wisconsin, Madison.(2013)

Christopher Minson, Kenneth and Kenda Singer Endowed Professor in Human Physiology. BS, 1989, Arizona; MA, 1993, San Diego State; PhD, 1997, Pennsylvania State. (2000)

Jon Runyeon, senior instructor. BS, 1996, MS, 2010, Oregon. (2012)

Elinor Sullivan, research associate professor. BA, 2000, Willamette; PhD, 2006, Oregon Health and Science. (2017)

Nicole Swann, assistant professor. BA, 2006, California, Berkeley; PhD, 2012, California, San Diego. (2017)

Ashley Walker, assistant professor. BS, 2003, Oregon State; PhD, 2010, Colorado, Boulder. (2017)

Affiliated

Balamurali Ambati, MD, PhD. Courtesy research professor, Phil and Penny Knight Campus for Accelerating Scientific Impact.

Sierra Dawson, PhD. Associate Vice Provost for Academic Affairs.

Jon Elliot, PhD. Instructor pro tem.

Katie Farina, PhD. Instructor pro tem.

Robert Guldberg, PhD. Professor; Vice President and Executive Director, Phil and Penny Knight Campus for Accelerating Scientific Impact.

Marian Hettiaratchi, PhD. Assistant professor, Phil and Penny Knight Campus for Accelerating Scientific Impact.

Austin Hocker, PhD. Assistant Director for Research and Assessment, Teaching Engagement Program.

Brett Kirby, PhD. Instructor pro tem.

Benjamin McKay, MS. Sports Science Coordinator, Intercollegiate Athletics.

Keat Ghee Ong, PhD. Professor, Phil and Penny Knight Campus for Accelerating Scientific Impact.

Kimberly Terrell, MS. Courtesy instructor.

Ann Zeidman-Karpinski, MS. Associate professor. See **Libraries**.

Brad Winn, MS. Instructor pro tem.

Courtesy

John Bagdade, courtesy research professor. AB, 1958, Harvard; MD, 1962, Cornell. (2017)

Patrick Bergin, courtesy professor. BA, 1976, Columbia College; MD, 1980, Dartmouth College. (2000)

Mark Chesnutt, courtesy research associate. BS, 1982, Pacific Lutheran; MD, 1986, Oregon Health and Science. (2012)

Michael Colasurdo, courtesy professor. BS 1980, Portland State; MD, 1984, Oregon Health and Science. (2009)

William Cornwell, courtesy research assistant professor. BS, 2004, Ohio State; MD, 2008, Wright State. (2021)

JJ Duke, courtesy research assistant professor. BS, 2005, Arizona State; MA 2008, North Carolina; MS, 2012, PhD, 2012, Indiana. (2021)

Daniel Erichsen, courtesy professor. MD, 2003, Karolinska Institute. (2017)

Mathews Fish, courtesy professor. AB, 1956, California, Berkeley; MD, 1959, California, San Francisco. (2002)

Daniel Fitzpatrick, courtesy associate professor. BS, 1991, MS, 1993, MD, 1997, Iowa. (2007)

Eben Futral, courtesy research associate. BS, 1988, Stanford; MBA, 1999, Arizona State. (2015)

Andrew Gilchrist, courtesy professor. BS, 1990, Washington; MD, 1994, Nevada. (2021)

Igor Gladstone, courtesy professor. BS, 1973, MD, 1981, Washington (Seattle). (2009)

Randall Goodman, courtesy research assistant. BS, 1994, Oregon. (2010)

Jerold Hawn, courtesy professor. BS, 1963, Santa Clara; MD, 1967, Georgetown. (2009)

Rudolf Hoellrich, courtesy research professor. BS, 1993, Willamette; MD, 1997, OHSU. (2021)

Stanley James, courtesy professor. BS, 1953, MD, 1962, Iowa. (1979)

Brian Jewett, courtesy associate professor. BS, 1990, MS, 1991, Stanford; MD, 1995, Vanderbilt. (2007)

Donald Jones, courtesy professor. BS, 1969, Centenary (Hackettstown); MD, 1973, Louisiana State. (1983)

Hirosuke Kadono, courtesy associate professor. BS, 2005, PhD, 2015, Tsukuba. (2021)

Paul Kaplan, courtesy research associate; university physician. AB, 1970, Stanford; MD, 1974, California, Los Angeles. (2005)

Vern Katz, courtesy professor. BA, 1971, MD, 1979, California, Los Angeles. (2001)

Sean Kohles, courtesy professor. BS, 1987, MS, 1988, PhD, 1994, Wisconsin. (2021).

Peter Kosek, courtesy professor. BA, 1984, Grinnell College; MD, 1988, California, Los Angeles. (2009)

Brett "Brick" Lantz, courtesy professor. BA, 1981, Stanford; MD, 1985, Oklahoma. (2007)

Samuel Lau, courtesy professor. BS, 1984, MD, 1988, Creighton. (2009)

Fuzhong Li, courtesy senior research associate. BS, 1994, Shanghai; MS, 1990, Oregon; PhD, 1996, Oregon State. (2013)

Victor Lin, courtesy associate professor. BS, 1988, Massachusetts Institute of Technology; MS, 1991, California, Berkeley; MD, California, San Francisco. (2002)

Elizabeth McCorkle, courtesy research associate. BA, 1987, Rollins College; MD, 1992, Augusta. (2016)

Benjamin McKay, courtesy research assistant professor. BS, 2016, MS, 2017, Wollongong. (2021)

Gregory Moore, courtesy assistant professor. BS, 1995 Southern Methodist; MS, 1999, Oregon State; MD, 2003, Texas, San Antonio. (2013)

Richard Padgett, courtesy professor. BS, 1984, East Carolina; MD, 1988, North Carolina, Chapel Hill. (2005)

Robert Roach, courtesy research associate professor. BS, 1979, Evergreen; MS, 1985, Cornell; PhD, 1994, New Mexico. (2021)

Matthew Shapiro, courtesy research associate. BA, 1979, Cornell; MD, 1983, Columbia. (2015)

Grant Simmons, courtesy research associate. BS, 2003, MS, 2005, PhD, 2008 Oregon. (2018)

Kenneth Singer, courtesy professor; team physician. BS, 1961, Massachusetts Institute of Technology; MD, 1965, Columbia University College of Physicians and Surgeons. (1994)

Nicholas Strasser, courtesy associate clinical professor. BS, 2002, Sioux Falls; MD, 2006, South Dakota. (2021)

Andrew Subudhi, courtesy research professor. BA, 1992, Colorado College; MS, 1996, Colorado State; PhD, 2000, Utah. (2021)

Yuta Suzuki, courtesy research associate professor. BS, 2006, MS, 2008, Kyoto; PhD, 2014, Tsukuba. (2021)

Jeffrey Tuman, courtesy associate clinical professor. BA, 2005, Virginia; MD, 2009, Drexel. (2021)

Brad Wilkins, courtesy instructor. BS, 1993, Oregon State; MS, 1996, Northern Michigan; PhD, 2003, Oregon. (2014)

Emeriti

Barry Bates, professor emeritus. BSE, 1960, Princeton; MEd, 1971, East Stroudsburg; PhD, 1973, Indiana. (1974)

Gary Klug, professor emeritus. BS, 1970, MS, 1973, Wisconsin, La Crosse; PhD, 1980, Washington State. (1985)

Louis Osternig, professor emeritus. BS, 1965, MS, 1967, California State, Hayward; PhD, 1971, Oregon. (1971)

Richard Troxel, senior instructor emeritus. BS, 1975, MS, 1977, Oregon. (1976)

Marjorie Woollacott, professor emerita. BA, 1968, PhD, 1973, Southern California. (1980)

The date in parentheses at the end of each entry is the first year on the University of Oregon faculty.

Undergraduate Program

Major - Bachelor's Degree

- Human Physiology (BA/BS) (http://catalog.uoregon.edu/arts-sciences/natural-sciences/hum-phys/ug-human-physiology/)

Graduate Program

Major - Doctoral Degree

- Human Physiology (PhD) (http://catalog.uoregon.edu/arts-sciences/natural-sciences/hum-phys/phd-human-physiology/)