Cthrc1, hormonal regulator of body composition and voluntary physical activity

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12:00-1:00 p.m.
Alfond 304
UNE, Biddeford Campus

Lunch will be provided

Hosted by: Amy Davidoff, Ph.D.
Sponsored by: The Center for Excellence in the Neurosciences

Dr. Volkhard Lindner complete his M.D., Ph.D. degree at the University of Tübingen, Germany. At the University of Washington in Seattle he conducted research in vascular biology as a postdoctoral fellow and later as Assistant Professor before joining the Maine Medical Center Research Institute in 1996. Much of Dr. Lindner's previous work was dedicated to studying vascular remodeling with emphasis on growth factor signaling. He developed two models enabling vascular remodeling studies in mice, which are widely used by investigators studying vascular diseases and their mechanisms.

In 1999 Dr. Lindner discovered the gene Cthrc1, Collagen Triple Helix Repeat Containing1, which since then has remained the focus of his research activities. Cthrc1 was discovered during a screen for novel sequences associated with vascular- and tissue remodeling. In recent years Lindner's group reported that Cthrc1 functions as a hormonal regulator of lipid metabolism with expression occurring in the pituitary gland and the hypothalamus. Ongoing work characterizes Cthrc1 as an important regulator of adipose tissue development, physical activity and body composition with broad implications for obesity as well as athletic performance.