

**College of Health and Human Development
Faculty Research Themes**

Neuroscience

<i>John Beard</i>	Professor	
Research Interests	Nutritional Sciences	Email Address: JBEARD@PSU.EDU
	The effects of iron deficiency on brain function and development using both animal models and humans; the role of iron in dopamine metabolism.	
<i>Rebecca Corwin</i>	Associate Professor	
Research Interests	Nutritional Sciences	Email Address: BCORWIN@PSU.EDU
	Skeletal consequences of dietary fat during aging; neurochemical consequences of binge eating.	
<i>Mihai Covasa</i>	Assistant Professor	
Research Interests	Nutritional Sciences	Email Address: MZC13@PSU.EDU
	Reduced sensitivity to satiation signals in control of obesity; neural substrates of peptides- and nutrients-induced satiety; the role of glutamate in control food intake.	
<i>Michael Green</i>	Professor and Department Head	
Research Interests	Nutritional Sciences	Email Address: MHG@PSU.EDU
	Vitamin A metabolism; tracer kinetics/mathematical modeling; lipoprotein metabolism; lipid absorption; vitamin A delivery to milk.	
<i>Byron Jones</i>	Professor	
Research Interests	Biobehavioral Health	Email Address: BCJ1@PSU.EDU
	Pharmacogenetics, i.e., the genetic basis for individual differences in response to drugs which affect the central nervous system; localizing candidate genes which affect drug sensitivity in the mouse genome; sex-specific genetic mechanisms for neurotransmitter receptor expression and genetics of stress response.	
<i>Mark Latash</i>	Distinguished Professor	
Research Interests	Kinesiology	Email Address: MLL11@PSU.EDU
	Control and coordination of multi-element systems participating in the production of voluntary movements. Equilibrium-point hypothesis of motor control. Control of posture, multi-joint reaching, finger coordination, and other motor tasks; the neurophysiological mechanisms of the production of voluntary movements. Changes in motor control and coordination with age, neurological disorder, and rehabilitation.	
<i>Karl Newell</i>	Professor and Associate Dean	
Research Interests	Deans Office	Email Address: KMN1@PSU.EDU
	Coordination, control and skill of normal and abnormal human movement across the life-span; development of coordination, acquisition of skill, information and movement dynamics, mental retardation and motor skills, drug exercise influences on movement control.	
<i>Robert Sainburg</i>	Associate Professor	
Research Interests	Kinesiology	Email Address: RLS45@PSU.EDU
	Neural mechanisms underlying control of multijoint arm movements in humans. We combine both psychophysical experiments and biomechanical simulations to determine the neural processes responsible for coordinating the complex mechanics of the musculoskeletal system. Studies in patients with neurological lesions are conducted to determine the contributions of specific neural structures to control.	
<i>Semyon Slobounov</i>	Associate Professor	
Research Interests	Kinesiology	Email Address: SMS18@PSU.EDU
	Cognitive and affective aspects of motor skill acquisition, psychological causes and consequences of sport injury, psychological effects of exercise, EEG and voluntary movements, computer graphic visualization of movement dynamics.	

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Dagmar Sternad

Associate Professor

Kinesiology

Email Address: **DXS48@PSU.EDU**

Research Interests

Coordination of rhythmic movements, polyrhythmic relations in interlimb coordination, control of interceptive skills, perceptual information for movement control, dynamical modeling of actions, computer simulations of movement kinematics.

Steven Zarit

Professor and Department Head

Human Development & Family Studies

Email Address: **Z67@PSU.EDU**

Research Interests

Mental health and aging, especially the stress of caregivers, functioning of the oldest old, innovative models of service delivery.