

**Rehabilitation Research Career Development Program (K12)
Annual Meeting - May 2009**

SUMMARY

Program Overview

- Awarded September 25, 2007
- Total of 12 grant supported scholar slots to be filled over 5 years (6 UTMB, 6 UF); may be more if scholars rotate off early
- Ten current Phase 1 scholars – eight supported by K12 funding (4 UTMB, 4 UF) and two supported by UF matching
- Three Phase 2 scholars – all received external funding 9/1/08 or later
- Phase 1 – provides up to 3 years of funding (salary, research expenses, travel)
- Phase 2 – continued mentoring, but no funding

Current Scholars

Phase 1

Roxanna Bendixen, PhD, OTR

UF, Occupational Therapy

Lead Mentor: Krista Vandenberg, PhD, PT

Research Project: Impact of Muscle Dysfunction on Participation and Quality of Life in Boys with Duchenne Muscular Dystrophy

Joel Bialosky, PhD, PT

UF, Assistant Professor

Lead Mentor: Michael Robinson, PhD, UF

Research Project: Mechanisms of Manual Therapy in the Treatment of Musculoskeletal Pain

Mon Bryant, PhD., PT

UTMB, Assistant Professor

Lead Mentor: Elisabeth Protas, PhD, PT, UTMB

Research Project: Gait and Step Perturbation Training to Reduce Falls in Persons with Parkinson's Disease after Deep Brain Stimulation

Barbara Doucet, PhD, OTR

UTMB Assistant Professor

Lead Mentor: Douglas Paddon-Jones, PhD, UTMB

Research Project: Electrical Stimulation for Motor Recovery and Function

Steve Fisher, PhD, PT

UF, Assistant Professor

Lead Mentor: Glenn Ostir, PhD, UTMB

Research Project: Physical Functioning of Hospitalized Older Adults

Jessica Johnson, PhD, OTR

UF Assistant Professor

Lead Mentor: William Mann, PhD, OTR, UF

Research Project: Evaluation of Sensor Based Home Activity Monitoring

Donovan Lott, PhD, PT

UF Assistant Professor

Lead Mentor: Steven Kautz, PhD, Krista Vandernborne, PhD, PT, UF

Research Project: Muscle Pathology and Gait in Children with Duchenne Muscular Dystrophy

Timothy Reistetter, PhD, OTR

UTMB, Rehabilitation Sciences

Lead Mentor: Ken Ottenbacher, PhD, OTR

Research Project: Variability in Rehabilitation Outcomes

Dorian Rose, PhD, PT

UF Assistant Professor, PT

Lead Mentor:Carolynn Patten, PhD, PT, UF

Research Project: Combining Neural and Behavioral Therapies to Advance Stroke Recovery

Heather Hamilton Ross, PhD, PT

UT Assistant Professor

Lead Mentor: Andrea Behrman, PhD, PT,

Research Project: Modulation of Stem/Progenitor Cells in CNS Pathology: Current and Future Project Overview

Phase 2

Hans Dreyer, PhD, PT

UTMB, Physical Therapy

Lead Mentor: Elena Volpi, MD, PhD

Research Project: Effects of exercise training on skeletal muscle protein metabolism and satellite cell activity in healthy, type 2 diabetics, and older subjects

Research Funding: K01, Muscle regrowth during physical rehabilitation and amino acid supplementation, 9/1/08-8/31/13, National Center for Medical Rehabilitation Research (NICHD), NIH.

Mark Bishop, PhD, PT

UF, Physical Therapy

Lead Mentor: Michael Robinson, PhD

Research Project: Body-based and cognitive interventions in the management of pain

Research Funding: K01, Neurobiological mechanisms of body-based intervention for musculoskeletal pain, 9/1/08-8/31/13, National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH.

Chris Gregory, PhD, PT

UF, Physical Therapy

Lead Mentor: Steven Kautz, PhD

Research Project: Skeletal muscle properties and metabolic cost of walking post-stroke

Research Funding: Career Development Award-2, Skeletal muscle properties and the metabolic cost of walking post-stroke, 8/01/08 - 07/31/11, Veteran's Administration

UTMB Post-Ike Status

- Hospital reopened January 5th
- All research activities have resumed
- Some labs/personnel had to be relocated

- No major impact to K12 projects (i.e., no loss of personnel, minimal equipment loss, etc.)

Networking/Sharing Resources/Partner Institutions

- UF and UTMB will get funding for CTSA's
 - Integrate courses and training
 - Similar scholars' programs
 - CTSA's offer pilot funding
- Exchange between UTMB and UF
 - Scholars spend time at collaborating institution (UTMB or UF) to visit labs, work with other scholars and mentors in related research
 - Duration of visit - need to discuss further
- Potential collaboration with other K12 program (CORRT)
 - Joint advisory meeting
 - Joint workshop with scholars and mentors
 - Joint forums at national meetings
 - Seminar similar to annual NCMRR T32 trainee meeting held at UF
- Opportunities for outside training
 - Research Centers – NCMRR Infrastructure research centers, VA, NIDRR
 - Identify contribution of scholar to ensure it's a benefit to both sides

Future Plans & Possible Changes

- Duration of training experience
 - 3 years (current) vs. 2 years at UTMB or UF
 - Should be flexible and tailored to the individual
 - Small departments may not be able to release faculty for 3 years
 - Can training be translated immediately and easily when they return to their home institution?
- Connection/socialization of scholars
 - Increase interaction between scholars and advisory board
 - Web based system / communication
 - National meetings – individual or group meetings, scholar presentations
 - Include advisory board members on mentoring committees for K01's and other career development grants
 - Pre-review grants, papers, etc.
 - Seek advisory board members to volunteer to serve as outside mentors to provide feedback
 - Quarterly reports/newsletter
 - Lecture series
 - Add ½ day to annual meeting for board members to meet with scholars
 - Mock study section
 - Provide overview of goals, research project, etc. beforehand