



The Gene and Linda Voiland School of
**Chemical Engineering and
Bioengineering**
2014 Seminar Series
Monday, November 17, 2014
12:00 p.m. CUE 319



Dan D. Rodgers, Ph.D.
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Personal statement:

My research expertise is in the endocrine control of striated muscle growth and development. This includes a Ph.D. in Endocrinology (UCB), postdoctoral training in the Diabetes Unit of the NIA and in the Division of Endocrinology at JHU, a faculty position in Pediatric Endocrinology (JHU), a sabbatical in Pediatric Endocrinology (UCLA) and eight years of service on the editorial board for the *Journal of Endocrinology*. I also teach Endocrine Physiology and serve on several regional and national grant review panels including those for the National Science Foundation, the American Cancer Society and the National Institutes of Health. My research uses both comparative and biomedical models and incorporates molecular, cellular and biochemical approaches. My lab goals are to better understand the differential development of pathological and physiological cardiac hypertrophy as well as skeletal muscle wasting. In addition, we are developing gene- and cell-based therapeutics, in hopes of ultimately improving the clinical treatment of muscular dystrophies, heart failure and sarcopenia, by disrupting activin/myostatin receptor signaling. Finally, I am the Director of the Washington Center for Muscle Biology; an interdisciplinary center composed of academic and industry scientists with interests in the biology and pathobiology of all muscle types.

Neither Hope Nor Despair:

Scientific fraud and misconduct are surprisingly common on academic campuses. Most people in academia, faculty and students alike, recognize the importance of academic integrity and in adhering to the scientific method, yet they are unsure of how best to manage situations when either are compromised. Universities are bound not only by ethical standards, but also by federal and state laws that require specific responses to accusations of fraud or misconduct that are yet again foreign to most academics. Two case studies will be presented and will be used to illustrate the investigative process. They will also describe the rights and responsibilities of all parties involved and most importantly, highlight mechanisms for enforcing and maintaining scientific integrity in research.