

David A. Watson, Ph.D.:
Summary of Professional Accomplishments
12 June 2008

Research:

- Published nearly 50 peer-reviewed scientific papers
- Have had my work cited nearly 1000 times, yielding a Mean Citations per Paper value of almost 20 and an *h*-index of 17, both very reasonable
- Reviewed manuscripts for many of the major journals in my field
- Received as PI or Co-I numerous grants, including NASA, NIH, and the Texas Advanced Research Program
- Served recently as Co-I of two flight experiments with NASA on board the Space Shuttle and International Space Station
- Publically acknowledged by Dr. Daniel Musher for role in both creative process and in design, refinement, and execution of research into host responsiveness to pneumococcal vaccines, for which he won BCM's DeBakey Award for Research in 2000
- Co-author of manuscript that was awarded the 1993 Louis Weinstein Prize for most outstanding clinically oriented published paper in *Clinical Infectious Diseases*

Teaching:

- Involved as course director and/or lecturer in nearly 20 different courses at the high school, undergraduate, graduate, professional (Nursing, Physical Therapy, Pharmacology), and Medical Student levels
- Mentored or served as preceptor for junior and senior high school students, undergraduates, Master's, Ph.D., MD, and postdoctoral-level students/trainees; these individuals have consistently won awards for their work under my guidance
- Regularly achieve excellent scores from first years medical students for my UTMB lectures in the *Pathophysiology of Human Disease* course (e.g. mean of 4.23/5.00 for three lectures earlier this year)
- Designed study and collected data, a portion of which I published in *Nature* (and which was well-received) on the topic of the impact of peer review on oral presentation skills of graduate students in seminars
- Selected by a committee of 1st year UTMB medical students to deliver the Keynote Academic Lecture for the 2004 National Youth Leadership Forum on Medicine

Administration and Management:

- Provided both hands-on administration of numerous NASA/NSBRI peer review panels in the areas of Bone Loss, Immune Function, Radiation Biology, and Educational Outreach, as well as Management of entire process for numerous other panels totaling c. 700 proposals
- Elected/served three terms as Executive Secretary to NSBRI Industry Forum
- Served as member of team to produce NASA Space Life Sciences Research Announcement *NRA 03-OBPR-04*

- Co-authored Office of Research and Technology Transfer component of UT System 10 year strategic plan (and of whitepaper “Value Added By Research & Tech Transfer” included as an appendix), final release Sept. 2008
- Participated as contributing or lead section or volume author for four different large government procurements; listed as one of only 12 Key Personnel in a 10 year/\$1B (aggregate) bid for Bioastronautics Support at NASA-JSC
- Served nearly two years as Director of Research for Texas Woman’s University-Houston, and currently as Deputy ACOS for Research, Michael E. DeBakey Veterans Affairs Medical Center, Houston, TX

Academic and Public Service:

Academic:

- Served as Director of the UTMB Summer Undergraduate Research Program (1996 and 1997), and of the Summer High School Student Research Program (2004 and 2005). Four years total experience; funded by HHMI
- Chosen Microbiology Working Group Lead, Bioastronautics Technology Forum '05 (UTMB-NASA JSC Partnering Initiative)
- Current External Advisory Board Member, Southeast Regional T-STEM (Texas Science, Technology, Engineering, and Mathematics) Center, University of Texas Medical Branch (support: Texas Education Agency/HHMI)
- Invited Participant, “Critical Thinking Curriculum Model Assessment Workshop”, Advanced Concepts Group, Sandia National Laboratories
- Served on numerous university and departmental academic committees over 15 years, e.g. safety, curriculum, strategic planning, faculty searches

Public:

- Elected/served (two terms) as a member of the Board of Trustees of the Pearland (TX) Independent School District (2001-05); served 18 months as President; testified twice before Public Education Committee of Texas House of Representatives
- Elected/served (two terms) representing Independent School Districts of the Greater Houston Area, Board of Directors, Houston-Galveston Area Council
- Faculty Reader for Advanced Placement End-of-Course Exam in Biology, and AP course auditor, Educational Testing Service (College Board)
- Served in a wide variety of volunteer executive and leadership capacities with the Boy Scouts of America, 1995-Present
- Published 222 non-technical items to date, including: Feature Articles; Guest Op-Ed Columns; Letters to the Editor; Book, Website, and Other Reviews; Newsletter/Other News Items; Columns; and Radio Scripts.