

Gayle Slaughter received a B.S. in chemistry from Northwestern State University and a Ph.D. in biochemistry from Iowa State University. Her post-doctoral fellowship at Baylor College of Medicine (BCM) was supported by an NIH National Research Service Award. She then received a NIH New Investigator Award. As an assistant professor at BCM she continued studies of gene expression during spermatogenesis also funded by a NIH R01. She was an invited speaker for a Serona Symposium in Finland and two Gordon Conferences. She served as a reviewer for a number of journals, the Texas Heart Association and both science and educational NIH and NSF grant study sections.

Dr. Slaughter was very involved in the design and was designated as director of the SMART summer undergraduate research program and as Director of Special Projects, then Assistant Dean and now Sr. Associate Dean for the Graduate School. Her emphasis is on training young scientists, especially those from disadvantaged and under-represented populations. More than 2,200 college students from across the nation have participated in the unique SMART Program. Spin-off activities she directed include a high school summer research program, a program with the United Negro College Fund to train faculty and students from UNCF affiliated Texas campuses to incorporate molecular biology and "CSI" type experiments into middle and high school and college courses, the SMART PREP post-baccalaureate program, and an Initiative for Maximizing Student Diversity and the REACH IRACDA research/teaching program for post-docs. The IMSD currently involves more than 80 under-represented Ph.D. students, with 88 having earned PhDs since 1998. Participants in the program have won more than 270 awards and fellowships. Her newest NIH funded IRACDA project involves training BCM post-doctoral fellows in research and to develop up-to-date courses and teach them at minority serving colleges in the Houston area. Post-docs have already developed 6 new courses for the campuses, including an undergraduate biophysics course and updated about 20 other courses. 10 IRACDA alumni have been promoted into academic positions in 7 different institutions. She has been awarded 23 grants from NIH, NSF and the Department of Defense to support her research and education projects, valued at more than \$25 million.

Dr. Slaughter has been an invited speaker at more than 30 national meetings and presented more than 400 seminars and workshops at regional, local and college meetings. She served on the NHGRI Advisory Committee for Minority Action Plans. Her skills workshop series, "Thriving, Not Just Surviving, As A Scientist", is presented annually for young scientists. Some of the workshops have been compiled in *Beyond the Beakers: SMART Advice on Entering Graduate Programs in the Sciences and Engineering*. She served on and chaired the Steering Committee of the GREAT Group, composed of leaders of graduate education in medical schools. She received the Presidential Excellence in Education Award and the Jaworski Award for Educational Leadership from BCM. She received the first educational award given by her department. Dr. Slaughter was awarded the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring presented at the White House. She is a Vice-Chair of the BCM Diversity Council.