

**Dr. Leonard Guarente** is the Novartis Professor of Biology at the Massachusetts Institute of Technology. Dr. Guarente received his BS degree from MIT and his PhD at Harvard. He trained as a postdoctoral fellow at Harvard and has been on the faculty of MIT since 1981. He was elected to the American Academy of Arts and Sciences in 2004. His laboratory studies the mechanism of aging and its regulation. His laboratory identified SIR2 as the key gene regulating life span in yeast and defined SIR2's biochemical activity as a NAD-dependent deacetylase. More recently, his laboratory has focused on the mammalian ortholog of SIR2, Sirt1, and its relationship to caloric restriction. His book *Ageless Quest* (Cold Spring Harbor Press, 2003) describes the discovery of SIR2 as a key regulator of life span in response to diet.

**Dr. Holly Van Remmen** is an Assistant Professor at the University of Texas Health Science Center at San Antonio. She obtained her BS degree from Eastern Illinois University and her PhD at the University of Texas-San Antonio. She subsequently trained as a postdoctoral fellow at the University of Texas-San Antonio and has been on the faculty there since 1995. Her research focuses on the relationship between oxidative damage and aging using primarily transgenic and knockout mouse models. In particular, her laboratory has focused on oxidative stress and mitochondrial function as it relates to aging by manipulating the expression levels of the superoxide dismutase and glutathione peroxidase genes. More recently, she has also investigated the role of oxidative stress in tumor formation and neurodegeneration.

**Dr. Richard Miller** is a Professor at the University of Michigan. Dr. Miller obtained his BA degree from Haverford College and his PhD and MD degrees from Yale University. He trained as a post-doctoral fellow at the Dana Farber Cancer and Sloan Kettering Institutes and then assumed a faculty position at Boston University before moving to the University of Michigan. Dr. Miller's research historically focused on the effects of aging on T-cells and T-cell activation. More recent work has focused on developing animal models to study the genetics of lifespan and the mechanism by which aging might be delayed. Dr. Miller is a former Leukemia Society of America Scholar, has received a MERIT award from the National Institutes of Aging and received the 1997 Robert W. Kleemeier Award for Research on Aging.

**Dr. Richard Weindruch** is a Professor of Medicine at the University of Wisconsin and an investigator with the Geriatric Research, Education and Clinical Center at the VA Hospital in Madison. He earned his BS and MS degrees at the University of Illinois, Urbana, and his PhD at UCLA. Dr. Weindruch has served as Chairman of the Geriatrics and Rehabilitation Medicine Study Section and President of the American Aging Association. For more than 25 years, Dr. Weindruch has studied caloric restriction and aging in experimental animals, such as mice, rats and monkeys. Dr. Weindruch is the author and co-author of more than 170 publications, including *The Retardation of Aging and Disease by Dietary Restriction*, written with Dr. Roy Walford and published in 1988.

## Program

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| 1:30 | <b>Welcome</b><br><i>Dr. David Bernlohr</i><br><i>University of Minnesota</i>  |
| 1:35 | <b>Introduction</b><br><i>Dr. Huber Warner</i><br><i>University of Minnesota</i>   |
| 1:45 | <b>SIR2, Calorie Restriction and Aging</b><br><i>Dr. Leonard P. Guarente</i><br><i>Massachusetts Institute of Technology</i>                             |
| 2:25 | <b>Fifty Years of the Oxidative Stress Theory of Aging: Where Are We Now?</b><br><i>Dr. Holly Van Remmen</i><br><i>University of Texas — San Antonio</i> |
| 3:05 | <b>Refreshment Break</b>   |
| 3:20 | <b>Size, Stress, and Aging: Lessons from Dwarf Mice</b><br><i>Dr. Richard Miller</i><br><i>University of Michigan</i>                                    |
| 4:00 | <b>Caloric Restriction and Aging: Studies in Mice and Monkeys</b><br><i>Dr. Richard Weindruch</i><br><i>University of Wisconsin — Madison</i>            |
| 4:40 | <b>Closing Remarks</b><br><i>Dr. Huber Warner</i><br><i>University of Minnesota</i>  |

Department of Biochemistry, Molecular  
Biology & Biophysics

University of Minnesota

Presents:

**The 2006 Bollum Symposium in  
Molecular Biology**

**“The Science of Aging”**

Wednesday, May 3<sup>rd</sup>, 2006

1:30-5:00

**2-101 Nils Hasselmo Hall**

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