

BIOGRAPHICAL SKETCH

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| | | | |
|---|------------------------------------|-------|------------------------|
| NAME Thomas A. Rando, MD, PhD | POSITION TITLE Professor | | |
| eRA COMMONS USER NAME (credential, e.g., agency login) TRANDO | | | |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.) | | | |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | MM/YY | FIELD OF STUDY |
| Harvard College, Cambridge, MA | AB | 1979 | Biochemistry |
| Harvard Medical School, Boston, MA | MD | 1987 | Medicine |
| Harvard University, Cambridge, MA | PhD | 1987 | Cell Biology |
| Stanford University, Stanford, CA | Postdoc | 1994 | Molecular Pharmacology |

POSITIONS AND HONORS

Professional Experience

1987-1988 Intern in Medicine, Massachusetts General Hospital, Boston, MA
1988-1990 Resident in Neurology, UCSF, San Francisco, CA
1990-1991 Chief Resident in Neurology, UCSF, San Francisco, CA
1991-1994 Postdoctoral Fellow, Department of Molecular Pharmacology, Stanford University
1995-2002 Assistant Professor, Department of Neurology and Neurological Sciences, Stanford University
2000-2003 Founding Director, MDA Clinic, Stanford University Medical Center
2000-2007 Director, GRECC, Veterans Affairs Medical Center, Palo Alto, CA
2002-2009 Associate Professor, Department of Neurology and Neurological Sciences, Stanford University
1996-present Chief of Service, Neurology Service, Veterans Affairs Medical Center, Palo Alto, CA
2006-present Deputy Director, Stanford Center on Longevity, Stanford University
2009-present Professor, Department of Neurology and Neurological Sciences, Stanford University
2009-present Director, Rehab R&D Center of Excellence, Veterans Affairs Medical Center, Palo Alto, CA
2011-present Director, Glenn Laboratories for the Biology of Aging, Stanford University

Other Academic Appointments

1995-present Program in Molecular and Genetic Medicine, Stanford University
1998-present Neurosciences Program, Stanford University School of Medicine
2006-present Cancer Biology Program, Stanford University School of Medicine
2009-present Program in Human Biology, Stanford University
2012-present Member Faculty, McGowan Institute for Regenerative Medicine, Pittsburgh, PA

Honors and Awards

1985 Grass Fellowship in Neurophysiology
1991-1994 Dana Fellowship in Neuroscience
1992-1994 Howard Hughes Medical Institute Postdoctoral Research Fellowship for Physicians
1995 Junior Faculty Research Award, American Academy of Neurology
1996 Frederick E. Terman Fellowship, Stanford University
1999 Paul Beeson Physician Faculty Scholar in Aging, American Federation for Aging Research
2004 Ellison Medical Foundation Senior Scholar Award in Aging
2005 NIH Director's Pioneer Award
2007 Schober Award, International Congress on Cardiovascular Ageing
2007 F.L. McNaughton Neuromuscular Disease Research Award, Montreal Neurological Institute
2008 Breakthroughs in Gerontology (BIG) Award, American Federation for Aging Research
2009 Bennett J. Cohen Award, University of Michigan Center for Aging Research
2010 MERIT Award, National Institute on Aging
2010 Roy Huffington Distinguished Lecturer, Baylor College of Medicine
2012 Miles Alpern Levin Memorial Lecturer, Oregon Health & Science University

SELECTED PEER-REVIEWED PUBLICATIONS (15 out of a total of >100 published or in press)

- Conboy IM, Rando TA (2002) The regulation of Notch signaling controls satellite cell activation and cell fate determination in postnatal myogenesis. **Dev Cell**, 3: 397-409.
- Conboy IM, Conboy MJ, Smythe GM, Rando TA (2003) Notch-mediated restoration of regenerative potential to aged muscle. **Science**, 302: 1575-1577.
- Conboy IM, Conboy MJ, Wagers AJ, Girma E, Weissman IL, Rando TA (2005) Rejuvenation of aged progenitor cells by exposure to a young systemic environment. **Nature**, 433: 760-764.
- Rando TA (2006) Stem cells, ageing and the quest for immortality. **Nature**, 441: 1080-1086.
- Rando TA (2007) The immortal strand hypothesis: Segregation and reconstruction. **Cell**, 129: 1239-1243.
- Boutet SC, Disatnik M-H, Chan LS, Iori K, Rando TA (2007) Regulation of Pax3 by proteasomal degradation of mono-ubiquitinated protein in skeletal muscle progenitors. **Cell**, 130: 349-362.
- Brack AS, Conboy MJ, Lee M, Roy S, Kuo CJ, Keller C, Rando TA (2007) Increased Wnt signaling during aging alters myogenic stem cell fate and increases fibrosis. **Science**, 317: 807-810.
- Brunet A, Rando TA (2007) Stem to stern. **Nature**, 449: 288-291.
- Brack AS, Conboy IM, Conboy MJ, Shen J, Rando TA (2008) A temporal switch from Notch to Wnt signaling in muscle stem cells is necessary for normal adult myogenesis. **Cell Stem Cell**, 2: 50-59.
- Boutet SC, Biressi S, Iori K, Natu V, Rando TA (2010) Taf1 regulates Pax3 protein by monoubiquitination in skeletal muscle progenitors. **Mol Cell**, 40: 1-13. (PMCID: PMC3023311)
- Villeda SA, Luo J, Mosher KI, Zou B, Britschgi M, Bieri G, Stan TM, Fainberg N, Ding Z, Egel A, Lucin KM, Czirr E, Park JS, Couillard-Després S, Aigner L, Li G, Peskind ER, Kaye JA, Quinn JF, Galasko DR, Xie XS, Rando TA, Wyss-Coray T (2011) Age-related changes in the systemic milieu regulate adult neurogenesis. **Nature**, 477: 90-95. (PMCID: PMC3170097)
- Rando TA, Chang HY (2012) Aging, rejuvenation, and epigenetic reprogramming: Resetting the aging clock. **Cell**, 148: 46-57. (PMCID: PMC3336960)
- Cheung TH, Quach NL, Liu L, Charville GW, Liu L, Park L, Edalati A, Yoo B, Hoang P, Rando TA (2012) Maintenance of muscle stem cell quiescence by microRNA-489. **Nature**, 482: 524-528. (PMCID: PMC3292200)
- Boutet SC, Cheung TH, Quach NL, Liu L, Prescott SL, Edalati A, Iori K, Rando TA (2012) Alternative polyadenylation mediates microRNA regulation of muscle stem cell function. **Cell Stem Cell**, 10: 327-336. (PMCID: PMC3306803)
- Barzilai N, Guarente L, Kirkwood TBL, Partridge L, Rando TA, Slagboom PE (2012) The place of genetics in ageing research. **Nat Rev Genet**, in press.