CV- Steven Artandi

POSITION TITLE
Associate Professor eRA COMMONS USER NAME
ARTANDI.STEVEN
EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*
INSTITUTION AND LOCATION DEGREE
(if applicable) YEAR(s) FIELD OF STUDY
Princeton University, Princeton, NJ A.B. 1986 Chemistry
Columbia University College Physicians &
Surgeons, New York, NY M.D. 1995 Medicine
Columbia University College Physicians &
Surgeons, New York, NY Ph.D. 1995 Microbiology

A. Positions and Honors

Positions and Employment

1995-1997 Intern/Resident–Internal Medicine, Massachusetts General Hospital
1997-2000 Clinical Fellowship–Medical Oncology, Harvard University, Dana-Farber Cancer
Institute & Brigham's & Women's Hospital, Massachusetts General Hospital
1998-2000 Research Fellowship–Dana-Farber Cancer, Harvard University, Dr. Ron DePinho
2000-2008 Assistant Professor of Medicine, Division of Hematology, Stanford University
2008-present Associate Professor of Medicine (Tenure), Division of Hematology, Stanford University

Profession activities, Honors and Awards

1986 Honors in Chemistry, Princeton University
1990 Outstanding Medical Student Award, American College of Rheumatology
1993 Dean's Day Award for Medical Student Research, Columbia University
1995 Marion Merrell Dow Prize for Research, Columbia University
1995 Fredrick P. Gay Memorial Award for Research, Columbia University
1999-2000 Massachusetts Dept. Public Health Breast Cancer Research Award
1999-2000 Howard Hughes Physician Post-doctoral Fellowship
2000-2005 NIH K08 Grant
2001-2004 Rita Allen Scholar Award
2001-2003 V Foundation Scholar Award
2001 Ellison Foundation Scholar Award (declined)
2005-2007 American Federation of Aging Research (AFAR)/Pfizer Award
2006 American Cancer Society Scholar Award (declined)
2006 Editorial board, Journal *Stem Cells*
2007 Senior Editor, *Molecular Cancer Research*
2007 Elected Fellow, American Association for the Advancement of Science (AAAS)
2009 Elected Member, American Society for Clinical Investigation (ASCI)
2010 Glenn Award for Research in Biological Mechanisms of Aging
2011 Associate Director, Paul F. Glenn Laboratories for the Biology of Aging at

Stanford

B. Selected peer-reviewed publications (in chronological order)

Artandi, S. E., Canfield, S. M., Tao, M.-H., Calame, K. L., Morrison, S. L. and Bonagura, V. R.
1991. Molecular Analysis of IgM rheumatoid factor binding to chimeric IgG. *J. Immunol.* 146:603.

Roman, C., Matera, G., Cooper, C., Artandi, S., Blain, S., Ward, D., and Calame, K. 1992. mTFE3, an X-linked transcriptional activator containing basic helix-loop-helix and zipper domains, utilizes the zipper to stabilize both DNA binding and multimerization. *Mol. Cell. Biology* 12: 817.

Artandi, S. E., Calame, K. L., Morrison, S. L. and Bonagura, V. R. 1992. Monoclonal IgM rheumatoid factors bind IgG at a discontinuous epitope comprised of amino acid loops from
heavy-chain constant-region domains 2 and 3. *Proc. Natl. Acad. Sci.* 89:94.

Bonagura, V.R., Artandi, S.E., Davidson, A., Randen, I., Agostino, N., Thompson, K., Natvig,
J.B., and Morrison, S.L. 1993. Mapping studies reveal unique epitopes on IgG recognized by rheumatoid arthritis-derived monoclonal rheumatoid factors. *J. Immunol.* 151:3840.

Shrivastava, A., Saleque, S., Kalpana, G.V., Artandi, S., Goff, S.P., and Calame, K. 1993. Inhibition of transcriptional regulator yin-yang-1 by association with c-myc. *Science* 262:1889.

Artandi, S. E., Cooper, C, Shrivastava, A., and Calame, K. 1994. The basic-helix-loop-helixzipper
domain of TFE3 mediates enhancer-promoter interaction. *Mol. Cell. Biology* 14:7704.

Panagiotidis, C. A., Artandi, S., Calame, K., and Silverstein, S. J. 1995. Polyamines alter sequence-specific DNA-protein interactions. *Nucl. Acids Res.* 23:1800.

Artandi, S.E., Avitahl, N., Wong, K., Merrell, K., and Calame, K. 1995. TFE3 contains two activation domains, one acidic and the other proline-rich, that synergistically activate transcription. *Nucl. Acids Res.* 23: 3865.

Shrivastava, A., Yu, J., Artandi, S. and Calame, K. 1996. YY1 and c-Myc associate in vivo in a
manner that depends on c-Myc levels. *Proc. Natl. Acad. Sci.* 93:10638.

Chin*, L., Artandi*, S.E., Shen, Q., Tam, A., Lee, S.-L., Gottlieb, G. J., Greider, C. W., and DePinho, R. 1999. p53 deficiency rescues the adverse effects of telomere loss and cooperates with telomere dysfunction to accelerate carcinogenesis. *Cell* 97: 527. [*Co-first author]

Artandi, S.E., Chang, S., Lee, S.-L., Alson S., Gottlieb, G.J., Chin, L., and DePinho, R.A., 2000.
Telomere dysfunction promotes non-reciprocal translocations and epithelial cancers in mice.
Nature 406:641-644.

Wong, K.-K., Chang S., Weiler, S.R., Ganesan S., Chaudhura J., Zhu C., Artandi S.E., Rudolph
K.L., Gottlieb G.J., Chin L., Alt F.W., and DePinho, R.A., 2000. Telomere dysfunction impairs DNA repair and enhances sensitivity to ionizing radiation. *Nature Genetics*. 26:85-

88.
Artandi, S.E., and DePinho R.A., 2000. Mice without telomerase: what can they teach us about
human cancer? *Nature Medicine* 6:852-855.
Artandi, S.E., and DePinho R.A., 2000. A critical role for telomeres in suppressing and facilitating carcinogenesis. *Current Opinions in Genetics and Development,* 10:39-46.
Artandi, S. E., Alson, S., Tietze, M., Sharpless, N., Ye, S., Greenberg, R., Castrillon, D., Horner,
J., Weiler, S., Carrasco, R. and R. DePinho. 2002. Constitutive telomerase expression promotes mammary carcinomas in aging mice. *Proc. Natl. Acad. Sciences*, 99:8191-8196.
Artandi, S.E., 2002. Telomere shortening and cell fates in mouse models of neoplasia. *Trends*
Mol. Med., 8:44.
O'Hagan, R., Chang, S., Maser, R., Mohan, R., Artandi, S.E., Chin, L. and R.A. DePinho. 2002.
Telomere dysfunction provokes regional amplification and deletion in cancer genomes. *Cancer Cell* 2:149-153.
Artandi, S.E., 2002. Complex roles for telomeres and telomerase in breast carcinogenesis. *Breast Cancer Research* 5:37-41.
Artandi, S.E. and Attardi, L.D. 2005. Pathways connecting telomeres and p53 in senescence,
apoptosis and cancer. *Biochem. Biophys. Res. Commun.* 331:881-90.
Sarin, K. Y., Cheung, P., Lee, E., Gilison, D., Artandi, M.K., Oro, A., and S. E. Artandi. 2005.
Conditional telomerase induction causes proliferation of hair follicle stem cells. *Nature*. 436:1048-1052.
Middleman, E., Choi, J., Venteicher, A. S., Cheung, P., and S.E. Artandi. 2006. Regulation of
cellular immortalization and steady-state protein levels of the telomerase reverse transcriptase through its carboxy-terminal domain. *Mol. Cell. Biol.* 26:2146-2159.
Artandi, S.E. 2006. Telomerase flies the coop: the telomerase RNA component as a viralencoded
oncogene. *J. Exp. Med.* 203:1143-45.
Artandi, S.E. 2006. Telomeres, telomerase and human disease. New Engl. J. Med. 355:1195-
1197.
Maser, R.S., Wong, K.K., Sahin, E., Xia, H., Naylor, M., Hedberg, H.M., Artandi, S.E., and R.A.
DePinho. 2007. DNA-PKcs is not required for dysfunctional telomere fusion and checkpoint
response in the telomerase deficient mouse. *Mol. Cell. Biol.* 27:2253-65.
Sarin, K. and S. E. Artandi. 2007. Aging, graying and loss of melanocyte stem cells. *Stem Cell*
Rev. 3: 212-217.
Rajaraman, S., Choi, J., Cheung, P., Beaudry, V., Moore, H. and S. E. Artandi. 2007. Telomere

uncapping in progenitor cells with critical telomere shortening is coupled to S-phase progression *in vivo. Proc. Natl. Acad. Sci.* 104:17747-52.
Choi, J., Southworth, L., Sarin, K., Venteicher, A. S., Ma, W., Chang, W., Cheung, P., Jun, S.,
Artandi, M.K., Shah, N., Kim, S.K. and S. E. Artandi. 2008. TERT promotes epidermal proliferation through transcriptional control of a Myc- and Wnt-related developmental program. *PLoS Gen.* 4(1):e10.
Venteicher, A.S., Meng, Z., Mason, P. J., Veenstra, T.D., and S. E. Artandi. 2008. Identification
of ATPases pontin and reptin as telomerase components essential for holoenzyme assembly. *Cell.* 132:945-57.
Gao, Q., Reynolds, G.E., Miller, D., Cheung, P. Artandi, S. E. and J. P. Murnane. 2008. Telomerase-dependent and independent chromosome healing in mouse embryonic stem cells. *DNA Repair (Amst.)*, 7:1222-1249.
Venteicher, A.S., Abreu, E.B., Meng, Z., McCann, K.E., Terns, R.M., Veenstra, T.D., Terns,
M.P., and S. E. Artandi. 2009. A human telomerase holoenzyme protein required for Cajal body localization and telomere synthesis. *Science*. 323:644-648.
Venteicher, A.S. and S. E. Artandi. 2009. TCAB1: Driving telomerase to Cajal bodies. *Cell Cycle.* 8:1329-31.
Batista, L.F. and S.E. Artandi. Telomere uncapping, chromosomes and carcinomas. 2009. *Cancer Cell*. 15:455-457.
Park, J.-I., Venteicher, A.S., Hong, J.Y., Choi, J., Jun, S., Shkreli, M., Chang, W., Meng, Z.,
Cheung, P., Ji, H., McLaughlin, M., Veenstra, T.D., Nusse, R., McCrea, P.D., and S. E. Artandi. 2009. Telomerase modulates Wnt signaling by association with target gene chromatin. *Nature*, 460:66-72.
Choi, J. and S.E. Artandi. 2009. Stem cell aging and aberrant differentiation within the niche.
Cell Stem Cell. 5:6-8.
Artandi, S.E. and J.P. Cooper. 2009. Reverse transcribing the code for chromosome stability.
Mol. Cell. 36:715-719.
Artandi, S.E. and R.A. DePinho. 2010. Telomeres and telomerase in cancer. *Carcinogenesis*.
31:9-18.
Sacco, A., Mourkioti, F., Tran, R., Choi, J., Llewellyn, M., Kraft, P., Shkreli, M., Delp, S., Pomerantz. J.H., Artandi, S.E., and H.M. Blau. 2010. Short Telomeres and Stem Cell