

MICHAEL DAVID WEST, B.S., M.S., Ph.D.

CURRICULUM VITAE

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Summary:

Dr. West is the Chief Executive Officer of BioTime, Inc. (NYSE Amex: BTIM) of Alameda, California as well as its subsidiaries. The Companies are focused on developing an array of research and therapeutic products using human embryonic stem cell technology. He received his Ph.D. from Baylor College of Medicine in 1989 concentrating on the biology of cellular aging. He has focused his academic and business career on the application of developmental biology to the age-related degenerative disease. He was the Founder of Geron Corporation of Menlo Park, California (Nasdaq: GERN) and from 1990 to 1998 he was a Director, and Vice President, where he initiated and managed programs in telomerase diagnostics, oligonucleotide-based telomerase inhibition as anti-tumor therapy, and the cloning and use of telomerase in telomerase-mediated therapy wherein telomerase is utilized to immortalize human cells. From 1995 to 1998 he organized and managed the research collaboration between Geron and its academic collaborators James Thomson and John Gearhart that led to the first isolation of human embryonic stem and human embryonic germ cells. From 1998 to 2007 he was President and Chief Scientific Officer at Advanced Cell Technology, Inc. (OTCBB: ACTC) where he managed programs in animal cloning, human somatic cell nuclear transfer, retinal differentiation, and ACTCellerate, a technology for the multiplex derivation and characterization of clonal human embryonic progenitor cell lines.

Personal:

Date and Place of Birth April 28, 1953; Niles, Michigan
Citizenship U.S.A.

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Education:

Niles Senior High School; Niles, MI		1971
Rensselaer Polytechnic Institute; Troy, NY	B.S. Major: Psychology Minor: Management	1976
Andrews University; Berrien Springs, MI	M.S. Biology	1982
Baylor College of Medicine; Houston, TX	Ph.D. Cell Biology (Division of Molecular Virology)	1989

Business Experience:

West Motor Leasing Company, Inc.	President, General Manager,	1976-1982
West Leasing Company, Inc.	President, General Manager,	1978-1982
West Motor Sales, Inc.	President, General Manager,	1980-1982
Geron Corporation (Nasdaq: GERN)	Founder, Director, Officer	1990-1998
Origen Therapeutics, Inc.	Founder, Chairman,	1997-1999
Advanced Cell Technology, Inc.	Chairman & CEO	1998-2004
Advanced Cell Technology, Inc. (OTCBB: ACTC)	President & CSO	2004-2007
CIMA Biotechnology, Inc.	President & CEO	1999-2005
Cyagra, LLC.	President & CEO	2000-2002
A.C.T. Group, Inc.	Founder, Chairman, President & CEO	1999-2005
BioTime, Inc. (NYSE Amex: BTIM)	CEO	2007-Present
Embryome Sciences, Inc.	CEO	2007-Present
OncoCyte Corporation	CEO	2009-Present
BioTime Asia	CEO	2010-Present
ES Cell International	CEO	2010-Present
OrthoCyte Corporation	CEO	2010-Present

Research and Professional Experience:

2010-Present	Chief Executive Officer OrthoCyte Corporation 1301 Harbor Bay Pkwy Alameda, CA 94502
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2010-Present	Chief Executive Officer BioTime Asia Hong Kong
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2007-Present	Chief Executive Officer BioTime, Inc. (NYSE Amex: BTIM) 1301 Harbor Bay Pkwy Alameda, CA 94502
2007-Present	Chief Executive Officer Embryome Sciences, Inc. 1301 Harbor Bay Pkwy Alameda, CA 94502
2005-2008	Adjunct Professor Department of Bioengineering University of California, Berkeley
2004-2007	President, Chief Scientific Officer Advanced Cell Technology, Inc. (OTC: ACTC) 381 Plantation St. Worcester, MA 01605

1998-2004	President, CEO, Chairman Advanced Cell Technology, Inc. One Innovation Dr. Worcester, MA 01605
1999-2005	Founder, Chairman, President & CEO A.C.T. Group, Inc. One Innovation Dr. Worcester, MA 01605
2003-Present:	Board Member Biotime, Inc. (AMEX: BTIM)
2000-2002	President & CEO Cyagra, Inc. One Innovation Dr. Worcester, MA 01605
1997-1999	Founder, Chairman, Origen Therapeutics, Inc. 1450 Rollins Rd. Burlingame, CA 94080
1992-1998	Founder, VP, Chief Scientific Officer, VP New Technology Discovery Geron Coporation 230 Constitution Dr. Menlo Park, CA 94025
1990-1992	Founder, President & CEO Geron Coporation 200 Constitution Dr. Menlo Park, CA 94025
1990 - 1992	Senior Research Scientist Department of Cell Biology and Neuroscience Southwestern Medical School 5323 Harry Hines Blvd. Dallas, Texas 75235 Laboratories of: Dr. Woodring E. Wright Dr. Jerry W. Shay

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- 1985 - 1988 Graduate Student (Ph.D.)
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Houston, TX 77030
Advisor: Dr. James R. Smith
- 1982 - 1985 Graduate Student (Doctoral Candidate)
University of Arkansas
for Medical Sciences
Department of Biochemistry
Little Rock, AR 72205

RESEARCH GRANT SUPPORT:

Active:

2009 TR1-01276 (PI: West); (06/09- 05/12); California Institute for Regenerative Medicine; Addressing the Cell Purity and Identity Bottleneck through Generation and Expansion of Clonal Human Embryonic Progenitor Cell Lines, \$4,721,706.

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Patents

1. West, M.D. 1996. Trypsin-sensitive Agent Able to Reduce PAI-1 and beta-APP Expression in Senescent Cells and Increase the Ability of Fibroblasts to Divide in Culture. U.S. Patent No. 5,482,838.
2. West, M.D., Shay, J., Wright, W. 1996 . Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. U.S. Patent No. 5,489,508.
3. West, M.D. 1996. PADPRP Inhibitors to Treat Diseases Associated with Cellular Senescence. U.S. Patent No. 5,589,483.
4. Shay, J., West, M.D., and Wright, W.E. 1997. Methods for Cancer Diagnosis and Prognosis. U.S. Patent No. 5,639,613.
5. West, M.D., Harley, C.B., Strahl, C.M., McEachern, M.J., Shay, J., Wright, W.E., Blackburn, E.H., and Vaziri, H. 1997. . Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. U.S. Patent No. 5,645,986.
6. West, M.D., Shay, J., and Wright, W.E. 1997. Telomerase Diagnostic Methods. U.S. Patent #5,648,215.
7. West, M.D., Shay, J., and Wright, W.E. 1997. Methods for Screening for Agents which Modulate Telomere Length. U.S. Patent #5,686,245.
8. West, M.D., Shay, J., and Wright, W.E. 1997. Methods and Reagents for Lengthening Telomeres. U.S. Patent #5,686,306.

9. Shay, J., West, M.D., and Wright, W.E. 1997. Methods for Cancer Diagnosis and Prognosis. U.S. Patent #5,693,474.
10. West, M.D., Shay, J., Wright, W., Blackburn, E.H., and McEachern, M.J. 1997. Telomerase Activity Assays for Diagnosing Pathogenic Infections. U.S. Patent #5,695,932.
11. West, M.D., Shay, J., and Wright, W.E. January 13, 1998. Therapy and diagnosis of conditions related to telomere length and/or telomerase activity. U.S. Patent No. 5,707,795.
12. West, M.D. 1998. Method to extend life span and proliferative capacity of cells – comprises administration of polyadenosine diphosphate-ribose polymerase inhibitor to cells. WO 9827975.
13. Blackburn, E.H., Shay, J., West, M.D., and Wright, W. Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. Australian Patent No. 688.262.
14. Linskens, M.H.K., Hirsch, K.S., Villeponteau, B., Feng, J., Funk, W., and West, M.D. 1998. Methods and Reagents for the Identification and Regulation of Senescence-Related Genes. U.S. Patent No. 5,744,300.
15. West, M.D. December 31, 1996. Isoquinoline poly(ADP-ribose) polymerase inhibitors to treat skin diseases associated with cellular senescence. U.S. Patent No. 5,589,483.
16. West, M.D., Shay, J.W., and Wright, W.E. 1998. Method for Screening for Agents which Increase Telomerase Activity. U.S. Patent No. 5,830,644.
17. West, M.D., Shay, J., and Wright, W.E. November 24, 1998. Methods for diagnosis of conditions associated with elevated levels of telomerase activity. U.S. Patent No. 5,840,495.
18. West, M.D. Poly(ADP-Ribose) Polymerase Inhibitors to Treat Diseases Associated with Cellular Senescence. U.S. Patent No. 5,874,444. Issued 02/23/99.
19. West, M.D., Shay, J., Wright, W.E., Kim, N-W., Harley, C.B., and Weinruch, S.L. November 23, 1999. Detecting cancerous conditions by assaying for telomerase activity. US Patent No. 5,989,807
20. West, M.D., Harley, C.B., Weinruch, S.L., Strahl, C.M., McEachern, M.J., Shay, J., Wright, W.E., Blackburn, E.H., Kim, N-W., Vaziri, H. December 28, 1999. Methods for screening for compounds that derepress or increase telomerase activity. US Patent No. 6,007,989.

21. West, M.D., Shay, J., and Wright, W.E. February 27, 2001. Use of Oligonucleotide Telomerase Inhibitors to reduce telomere length. U.S. Patent No. 6,194,206
22. Blackburn, E.H., Shay, J., West, M.D., Wright, W. November 9, 2000. Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. Australia Patent No. 726528.
23. Blackburn, E.H., Shay, J., West, M.D., Wright, W. July 19, 2001. Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. Australia Patent No. 735840.
24. West, M.D., Shay, J., Blackburn, E.H., Kim, N.W., Wright, W.E., Harley, C.B., Weinrich, S.L., Strahl, C.M., McEachern, M.J., Vaziri, H. May 29, 1995. Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. Australia Patent No. 1178195.
25. Shay, J., Wright, W.E., West, M.D. May 29, 1995. Methods and Reagents for Lengthening Telomeres. Australia Patent No. 1330795.
26. West, M.D. July 17, 1998. Poly (ADP-Ribose) Polymerase Inhibitors to Treat Diseases Associated with Cellular Senescence. Australia Patent No. 1743997.
27. Chiu C-P, Gold, J.D., Murai, J.T., Bodnar, A.G., West, M.D., Inokuma, M. March 8, 2001. Methods and Materials for the Growth of Primate-Derived Primordial Stem Cells. Australia Patent No. 7235600.
28. Blackburn, E.H., Shay, J., West, M.D., Wright, W. January 7, 1999. Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. Australia Patent No. 8949598.
29. Blackburn, E.H., Shay, J., West, M.D., Wright, W. January 14, 1999. Therapy and Diagnosis of Conditions Related to Telomere Length and/or Telomerase Activity. Australia Patent No. 8949698.
30. Blackburn, E.H., Shay, J., West, M.D., Wright, W. November 25, 1993. Detection of Conditions or Diseases Associated with an Altered Level of Telomerase Activity. Canada Patent No. 2245461.
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32. Wright, W.E., Shay, J., West, M.D. May 18, 1995. Methods and Reagents for Lengthening Telomeres. WO Patent No. 9513383.

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35. Bodnar, A.G., Chiu, C-P, Gold, J.D., Murai, J.T., West, M.D., Inokuma, M. April 29, 1999. Methods and Materials for the Growth of Primate-Derived Primordial Stem Cells. WO Patent No. 9920741.
36. Lanza, R.P., West, M.D. March 15, 2001. Method for Generating Immune-Compatible Cells and Tissues Using Nuclear Transfer Techniques. WO Patent No. 0118193.
37. West, M.D., Lanza, R.P., Cibelli, J. Methods of Repairing Tandemly Repeated DNA Sequences and Extending Cell Life-Span Using Nuclear Transfer. WO Patent No. 0118236.
38. Cibelli, J., West, M.D., Lanza, R.P. Methods of Producing Differentiated Progenitor Cells and Lineage-Defective Embryonic Stem Cells. WO Patent No. 0129206.
39. West, M.D. Pluripotent Cells Comprising Allogenic Nucleus and Mitochondria. WO Patent No. 0179445.
40. West, M.D. The Production of Agricultural Animals from Embryonic Stem (ES) Cells. WO Patent No. 0184920.
41. West, M.D., Shay, J., Wright, W.E., and Blackburn, E.H. April 9, 2002. Screening methods to identify inhibitors of telomerase activity. U.S. Patent No. 6,368,789.
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43. Cibelli, Jose, West, Michael, and Campbell, Keith. Methods For Making And Using Reprogrammed Human Somatic Cell Nuclei And Autologous And Isogenic Human Stem Cells. WO 03/046141
44. West, Michael, Page, Raymond, Scholer, Hans, and Chapman, Karen. Screening Assays For Identifying Differentiation-Inducing Agents And Production Of Differentiated Cells For Cell Therapy, WO 03/018760.

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46. West, Michael, D., and Cibelli, Jose. Method For Generating Cloned Animals Using Chromosome Shuffling. U.S. 20020174449.
47. Lanza, Robert, and West, Michael D. Method For Generating Immune-Compatible Cells And Tissues Using Nuclear Transfer Techniques. U.S. 20020046410.
48. West, Michael D. Harley, Calvin B., Weinrich, Scott L. Strahl, Catherine M. Mceachern, Michael J. Shay, Jerry, Wright, Woodring E., Blackburn, Elizabeth H., Kim, Nam Woo, and Vaziri, Homayoun. April 22, 2003. Diagnostic Methods For Conditions Associated With Elevated Cellular Levels Of Telomerase Activity. U.S. Patent No. 6,551,774.
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51. West Michael D., Shay, Jerry, Wright Woodring, and Blackburn Elisabeth H. May 11, 1999. Method for Screening Telomerase Activity-Regulating Agent. JP 11123100.
52. West Michael D., Shay, Jerry, Wright Woodring, and Blackburn Elisabeth H. May 18, 1999. Method of Detection. JP 11123100.
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55. West, Michael, D.; Shay, Jerry; Wright, Woodring; and Blackburn, Elizabeth, H. March 12, 1998. Therapy And Diagnosis Of Conditions Related To Telomere Length And/Or Telomerase Activity. AU 0688262.
56. West, Michael, D.; Shay, Jerry; Wright, Woodring; and Blackburn, Elizabeth, H. November 9, 2000. Therapy And Diagnosis Of Conditions Related To Telomere Length And/Or Telomerase Activity. AU 0726528.

57. West, Michael, D.; Shay, Jerry; Wright, Woodring; and Blackburn, Elizabeth, H. July 19, 2001. Therapy And Diagnosis Of Conditions Related To Telomere Length And/Or Telomerase Activity. AU 0735840.
58. Lanza, R., West, M.D., and Cibelli, J. October 26, 2004. Method for Generating Immune-Compatible Cells and Tissues Using Nuclear Transfer Techniques. U.S. Patent No. 6,808,704.
59. Bodnar; Andrea G; Chiu; Choy-Pik; Gold; Joseph D.; Inokuma; Margaret; Murai; James T.; West; Michael D. October 5, 2004, Methods and materials for the growth of primate-derived primordial stem cells in feeder-free culture, US Patent 6,800,480.
60. West, M.D. Nov 20, 2003. Cloning B and T lymphocytes. U.S. patent application number 20030217374.
61. West, M. January 29, 2004. Stem cell-derived endothelial cells modified to disrupt tumor angiogenesis. U.S. patent application number 20040018178.
62. Edelberg, J., Rafii, S., Mun, H., Lanza, R.P., and West, M.D. Nov 14, 2006. Endothelial precursor cells for enhancing and restoring vascular function. US. Patent no 7,135,171.
63. West, MD, Sargent, G., Murai, J.T., Kessler, S., Chapman, K. Methods to accelerate the isolation of novel cell strains from pluripotent stem cells and cells obtained thereby. US Patent Application No. 20080070303.
64. West, M.D., Chapman, K.B., and Sargent, R.G. Improved methods of reprogramming animal somatic cells. EPO Application No. WO/2007/019398.

Scientific Publications

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2. Shay, J.W., West, M.D., Wright, W.E. 1992. Re-expression of Senescent Markers in De-induced Reversibly Immortalized Cells. *Exp. Gerontol.* 27: 477-492.
3. West, M.D. 1994. The Cellular and Molecular Biology of Skin Aging. *Arch. Dermatol.* 130: 87-95.
4. Harley, C.B., Kim, N.W., Prowse, K.R., Weinrich, S.L., Hirsch, K.S., West, M.D., Bacchetti, S., Hirte, H.W., Counter, C.M., Greider, C.W., Piatyszek, M.A., Wright, W.E., and Shay, J.W. 1994. Telomerase, Cell Immortality, and Cancer. Cold Spring Harbor Symposium on Quantitative Biology LIX: 307-315. Cold Spring Harbor Press. Cold Spring Harbor, N.Y.
5. Kim, N.W., Piatyszek, M.A., Prowse, K.R., Harley, C.B., West, M.D., Ho, P.L.C., Coviello, G.M., Wright, W.E., Weinrich, S.L., and Shay, J.W. 1994. Specific association of human telomerase activity with immortal cells and cancer. *Science*, 266: 2011-2014.
6. Feng, J., Funk, W.D., Wang, S-S, Weinrich, S.L., Avilion, A.A., Chiu, C-P., Adams, R., Chang, E., Allsopp, R.C., Siyuan Le, J-Y., West, M.D., Harley, C.B., Andrews, W.H., Greider, C.W., Villeponteau, B.V. 1995. The RNA Component of Human Telomerase. *Science*. 269: 1236-1241.
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