

Dr. Timothy P. White

Education

1962 - 1966 Pleasant Hill High School, Pleasant Hill, California

1966 - 1967 Diablo Valley Community College, Pleasant Hill, California

1967 - 1970 B.A., California State University, Fresno, California

1970 - 1972 M.S., California State University, Hayward, California

1972 - 1977 Ph.D., University of California, Berkeley, California

Postgraduate Training

1976 - 1978 Postdoctoral Scholar and Research Associate, Department of Physiology, School of Medicine,
University of Michigan

Postgraduate Professional Appointments

1978 - 1991 The University of Michigan, Ann Arbor:

Department of Kinesiology - Assistant Professor, 1978-82

Associate Professor, 1982-89

Professor, 1989-91

Chair, 1985-91

Institute of Gerontology, Associate Research Scientist, 1986 - 1990

Research Scientist, 1990-91

1991 - 1996 University of California, Berkeley:

Department of Human Biodynamics, Professor, 1991-96

Department of Human Biodynamics, Chair, 1992-96

1996 - 2004 Oregon State University, Corvallis:

Dean, College of Health and Human Sciences, 1996-2000 (nee College of Health and Human Performance)

Professor, Department of Exercise and Sport Science, 1996-2004

Provost and Executive Vice President, 2000-2002, 2004

Interim President, 2003

(because of accepting the interim assignment, a State Board of Higher Education rule excluded him from candidacy for consideration for 'permanent' appointment)

2004 - 2008 University of Idaho, Moscow:

President, 2004 - 2008

Professor of Biological Sciences, College of Science, 2004 – 2008

2008 – Present University of California, Riverside:

Chancellor, 2008 - Present

Professor of Biology and Biomedical Sciences, 2008 - present

**Recent
Committees
& Administrative
Service**

University of Idaho:

Inland Northwest Research Alliance, 2004 - 2008

Council of Idaho Presidents, 2004 - 2008, chair AY 2006-07

Batelle Energy Alliance Board of Managers, 2005 - 2008

Governor's Advisory Council on Science and Technology, 2005 - 2008

NCAA Division I Board of Directors, 2007-2008

Western Athletic Conference, Board 2004-2008, executive committee, 2006- 2008

American College and University Presidents Climate Commitment on Sustainability, Steering Committee, 2007 – 2008

University of California, Riverside:

Western Association of Schools and Colleges, Commissioner, 2010 – present

NCAA Division I Board of Directors, 2010 – present; Executive Committee, 2012-present

NCAA Working Group on Collegiate Model Rules, Vice Chair, 2012 – present

American College and University Presidents Climate Commitment on Sustainability, 2008 – present

Big West Conference Board of Directors, 2008 – present

University of California, Systemwide Working Smarter Initiative, 2010 – present

University of California, Systemwide Rebenchmarking Committee, 2010 – present

***Extramural
Research
Funding***

1976 - 1978 Michigan Heart Association. Postdoctoral fellow, support to study blood flow in regenerating skeletal muscle. University of Michigan, Ann Arbor.

1978 - 1981 National Institute of Health. Muscle transplantation and regeneration. J. Faulkner PI, T.P. White co-investigator.

1981 - 1984 National Institute of Health. Exercise-induced adaptations of skeletal muscle grafts. T.P. White, PI. \$188,322.

1987 - 1989 American Heart Association of Michigan. Cardiac adaptations to exercise in aging rats. T.P. White, PI. \$43,716.

1986 - 1990 National Institute of Health. Muscular adaptations to long-term training in aging rats. T.P. White, PI. \$675,627.

1985-1990 National Institute of Health. Regeneration and transplantation of skeletal muscle. Program project directed by J. Faulkner; T.P. White PI of project 3 @ \$473,998.

1991-1995 National Institute of Health through subcontract from University of Michigan to University of California, Berkeley. Regeneration and transplantation of skeletal muscle. Program project directed by J. Faulkner; T.P. White PI of project 2 @ \$250,900.

**Peer Reviewed
Research
Manuscripts**

Brooks, G.A. and T.P. White. Determination of metabolic and heart rate responses of rats to treadmill exercise. *J. Appl. Physiol.* 45: 1009 - 1015, 1978.

Faulkner, J.A., L.C. Maxwell, G. Ruff, and T.P. White. The diaphragm as a muscle; contractile properties. *Am. Rev. Resp. Dis.* 119: 89 - 92, 1979.

Faulkner, J.A., J.H. Niemeyer, L.C. Maxwell, and T.P. White. Contractile properties of transplanted extensor digitorum longus muscles of cats. *Am. J. Physiol.* 238 Cell Physiol. 7): C120 - C126, 1980.

Maxwell, L.C., T.P. White, and J.A. Faulkner. Oxidative capacity, blood flow and capillarity of skeletal muscles. *J. Appl. Physiol.* 49: 627 - 633, 1980.

White, T.P. and G.A. Brooks. [U 14C] glucose, alanine, and leucine oxidation in rats at rest and two intensities of running. *Am. J. Physiol.* 240 (Endocrinol. Metab. 3): E155 - E165, 1981.

White, T.P., L.C. Maxwell, D.M. Sosin, and J.A. Faulkner. Capillarity and blood flow of transplanted skeletal muscles of cats. *Am. J. Physiol.* 241 (Heart Circ. Physiol. 10) H630 - H636, 1981.

White, T.P., J.A. Faulkner, J.M. Markley, Jr., and L.C. Maxwell. Translocation of the temporalis muscle for treatment of facial paralysis. *Muscle and Nerve.* 5: 500 - 504, 1982.

Faulkner, J.A., J.M. Markley, Jr. K.K. McCully, C.R. Watters, and T.P. White. Characteristics of cat skeletal muscles grafted with intact nerves or with anastomosed nerves. *Exp. Neurol.* 80: 682 - 696, 1983.

Brooks, G.A., C.M. Donovan, and T.P. White. Estimation of anaerobic energy production and efficiency in rats during exercise. *J. Appl. Physiol.* 56: 520 - 525, 1984.

White, T.P., J.F. Villanacci, P.G. Morales, S.S. Segal, and D.A. Essig. Exercise induced adaptations of rat soleus muscle grafts. *J. Appl. Physiol.* 56: 1325 - 1334, 1984.

Maxwell, L.C., J.A. Faulkner, T.P. White, and F.M. Hansen Smith. Growth of regenerating skeletal muscle fibers in cats. *Anat. Record* 209: 153 - 163, 1984.

Clark, K.I. and T.P. White. Morphology of stable muscle grafts of rats: effects of gender and muscle type. *Muscle and Nerve.* 8: 99 - 104, 1985.

Markley, J.M., Jr., J.A. Faulkner, J.H. Niemeier, and T.P. White. Functional properties of palmaris longus muscles of rhesus monkeys transplanted as index finger flexors. *Plastic and Reconstructive Surgery*, 76: 574 - 577, 1985.

Pels, A.E. III, T.P. White, and W.D. Block. Effects of exercise training on plasma lipids and lipoproteins in rats. *J. Appl. Physiol.* 58: 612 - 618, 1985.

Essig, D.A., S.S. Segal, and T.P. White. Skeletal muscle protein synthesis and degradation in vitro: effects of temperature. *Am. J. Physiol.* 249 (Cell Physiol. 18): C464 - 470, 1985.

Segal, S.S., T.P. White, and J.A. Faulkner. Architecture, composition and contractile properties of rat soleus muscle grafts. *Am. J. Physiol.* 250 (Cell Physiol. 19): C474 - 479, 1986.

White, T.P. Adaptations of skeletal muscle grafts to chronic changes of physical activity. *Fed. Proc.* 45:1470 - 1473, 1986.

Segal, S.S., J.A. Faulkner, and T.P. White. Skeletal muscle fatigue in vitro is temperature dependent. *J. Appl. Physiol.* 61: 660 - 665, 1986.

Hilbers, P.A. and T.P. White. Impact of wheelchair design on heart rate and metabolic responses to propulsion by persons with paraplegia. *Physical Therapy* 67: 1355 - 1358, 1987.

Geenen, D.L., T.P. White, and R.M. Lampman. Papillary mechanics and cardiac morphology of infarcted rat hearts after training. *J. Appl. Physiol.* 63: 92 - 96, 1987.

Daw, C.K., T.P. White, and J.W. Starnes. Muscle atrophy and hypoplasia with aging; impact of training and

food restriction. *J. Appl. Physiol.* 64: 2428 - 2432, 1988.

Esser, K.A., M.O. Boluyt, and T.P. White. Separation of cardiac myosin heavy chains by gradient SDS PAGE. *Am. J. Physiol.* 255 (Heart Circ. Physiol. 24): H659 - H663, 1988.

Nelson, D.J., A.E. Pels, III, D.L. Geenen, and T.P. White. Cardiac frequency and energetic cost of aerobic dancing. *Res. Q. Exerc. Sport* 59: 229 - 233, 1988.

Coté, C., T.P. White, and J.A. Faulkner. Intramuscular substrate depletion and fatigability of soleus grafts in rats. *Can. J. Physiol. Pharmacol.* 66: 829 - 832, 1988.

Burton, H.W., T.R. Stevenson, T.P. White, J. Hartman, and J.A. Faulkner. Force deficit of vascularized skeletal muscle grafts in rabbits. *J. Appl. Physiol.* 66: 675 - 679, 1989.

Boluyt, M.O., J.A. Opitck, K.A. Esser, and T.P. White. Cardiac adaptations to aortic constriction in adult and aged rats. *Am. J. Physiol.* 257 (Heart Circ. Physiol. 26): H643 - H648, 1989.

Clark, K.I., P.G. Morales, and T.P. White. Mass and fiber cross sectional area of soleus muscle grafts following training. *Med. Sci. Sports Exerc.* 21: 432 - 436, 1989.

White, T.P. and K.A. Esser. Satellite cell and growth factor involvement in skeletal muscle growth. *Med. Sci. Sports Exerc.* 21: S158 - S163, 1989.

Kandarian, S.C. and T.P. White. Force deficit during the onset of muscle hypertrophy. *J. Appl. Physiol.* 67: 2600 - 2607, 1989.

Kasper, C.E., T.P. White, and L.C. Maxwell. Running during recovery from hind limb suspension induces transient muscle injury. *J. Appl. Physiol.* 68: 533 - 539, 1990.

Esser, K.A. and T.P. White. Prior running reduces hypertrophic growth of skeletal muscle grafts. *J. Appl. Physiol.* 69: 451 - 455, 1990.

Kandarian, S.C. and T.P. White. Mechanical deficit persists during long term muscle hypertrophy. *J. Appl. Physiol.* 69: 861 - 867, 1990.

Zhou, J.Q., T.P. White, and A. Gafni. Endurance training induced changes in skeletal muscle

phosphoglycerate kinase of old Wistar rats. *Mech. Aging Develop.* 58: 163 - 175, 1990.

Clark, K.I. and T.P. White. Neuromuscular adaptations to cross-reinnervation in 12- and 29-month fischer 344 rats. *Am. J. Physiol.* 260 (Cell Physiol. 29): C96 - C103, 1991.

Pels, A.E., III, A.H.M. Terpstra, and T.P. White. Endurance training increased HDL cholesterol ester metabolism in rats. *J. Appl. Physiol.* 70: 1743 - 1747, 1991.

Boluyt, M.B., D.G. Penney, F.J. Clubb, Jr., and T.P. White. Exposure of neonatal rats to carbon monoxide alters cardiac adaptation to aortic constriction. *J. Appl. Physiol.* 70: 2697 - 2702, 1991.

White, T.P. and M. Kern. Neuromuscular stress. *Quest* 46(1): 8 - 19, 1994.

Esser, K.A. and T.P. White. Mechanical load affects the growth and maturation of skeletal muscle grafts. *J. Appl. Physiol.* 78(1): 30 - 37, 1995.

Miller, S.W., C.A. Hassett, T.P. White, and J.A. Faulkner. Recovery of medial gastrocnemius muscle grafts in rats: implications for the plantarflexor group. *J. Appl. Physiol.* 77(6): 2773 - 2777, 1994.

Devor, S.T. and T.P. White. Myosin heavy chain phenotype in regenerating skeletal muscle is affected by thyroid hormone. *Med. Sci. Sports Exerc.* 27: 674 - 681, 1995.

Devor, S.T. and T.P. White. Myosin heavy chain of immature soleus muscle grafts adapts to hyperthyroidism more than to physical activity. *J. Appl. Physiol.* 80(3):789 - 794, 1996.

Kasper, C.E., L.C. Maxwell, and T.P. White. Alterations in skeletal muscle related to short-term impaired physical mobility. *Research in Nursing and Health* 19:133 - 142, 1996.

Miller, S.W., J. A. Opitck, T.P. White, and J.A. Faulkner. Functional evaluation at the medial gastrocnemius donor site in rats. *J. of Reconstructive Microsurgery.* 12(3):143 - 147, 1996.

Boluyt, M.O., S.T. Devor, J.A. Opitck, and T.P. White. Age-associated changes in the regional variation of cardiac myosin isoforms of female rats. *J. Gerontology* 54:B313 - B317, 1999.

Boluyt, M.O., S.T. Devor, J.A. Opitck, and T.P. White. Age effects on the adaptive response of the female rat heart following aortic constriction. *J. Gerontology: Biological Sciences* 55A(6):B307-314, 2000.

***Referred Research,
Proceedings,
& Referred Chapters***

Faulkner, J.A., L.C. Maxwell, and T.P. White. Adaptations in skeletal muscle. In: D.S. Carlson and J.A. McNamara, Jr., (Eds.). *Muscle Adaptation in the Craniofacial Region. Monograph #8 Craniofacial Growth Series.* Center for Human Growth and Development: Ann Arbor, MI, 1978, pp. 17 - 37.

Faulkner, J.A., L.C. Maxwell, T.P. White, and J.H. Niemeyer. Characteristics of autografted mammalian skeletal muscle. In: A. Mauro (Eds.) *Muscle Regeneration.* Raven Press, New York, 1979, pp. 485 - 492.

Faulkner, J.A., T.P. White, and J.M. Markley, Jr. The 1979 Canadian Ski Marathon: A natural experiment in hypothermia. In: F.J. Nagle and H.J. Montoye (Eds.). *Exercise in Health and Disease.* Charles C. Thomas, Springfield, IL, 1981, pp. 184 - 195.

Faulkner, J.A., and T.P. White. Current and future topics in exercise physiology. In: G.A. Brooks (Eds.). *Perspectives on the Academic Discipline of Physical Education: A Tribute to G.L. Rarick.* Human Kinetics Publishers, Champaign, IL, 1981, pp. 75 - 96.

Faulkner, J.A., J.M. Markley, Jr., and T.P. White. Skeletal muscle transplantation in cats with and without nerve repair. In: G. Freilinger, J. Holle and B.M. Carlson (Eds.). *Muscle Transplantation.* Springer Verlag, Vienna, Austria, 1981, pp. 47 - 54.

Faulkner, J.A., P.J. Guelinckx, K.K. McCully, and T.P. White. Functional deficits in free vascularized grafts. In: M. Frey and G. Freilinger (Eds.). *Proceedings of 2nd Vienna Muscle Symposium, Facultor Universitatverlag, Vienna, Austria, 1986, pp. 68 - 74.*

Faulkner, J.A. and T.P. White. Adaptations of skeletal muscle to physical activity. In: C. Bouchard, et al., Eds. *Exercise, Fitness and Health: A Consensus of Current Knowledge.* Human Kinetics, Champaign, IL, 1990, pp. 265 - 279.

White, T.P., G.J. Alderink, K.A. Esser, and K.I. Clark. Postoperative physical activity alters growth of skeletal muscle grafts. In: 3rd Vienna Muscle Symposium. G. Freilinger, et al., (Eds.) Vienna, Austria, 1992, pp. 53 - 60.

White, T.P. and S. Devor. Skeletal muscle regeneration and plasticity of grafts. In: J. Holloszy (Ed.). *Exercise and Sport Sciences Reviews, Vol. 21, 1993, pp. 263 - 295.*

Faulkner, J.A., H.J. Green, and T.P. White. Response and adaptation of skeletal muscle to changes in physical activity. In: C. Bouchard et al. (Eds.). *Physical Activity, Fitness and Health*. Champaign: Human Kinetics, 1994, pp. 343 - 357.

White, T.P., S.T. Devor, and K.R. Baar. Neuroendocrine status of host organism affects skeletal muscle regeneration. In: M. Frey and P. Giovanoli (Eds.). *4th International Muscle Symposium*, Switzerland, 1995, pp. 54 - 57.

White, T.P. Skeletal muscle structure and function in old mammals. In: Lamb, D.L. et al. (Ed.). *Perspectives in Exercise Science and Sports Medicine*. Cooper, 1995, pp. 115 - 174.

Baldwin, K.M., T.P. White, S.B. Arnaud, V.R. Edgerton, W.J. Kraemer, R. Kram, D. Raab-Cullen, and C.M. Snow. Musculoskeletal adaptations to weightlessness and development of effective countermeasures. *Med. Sci. Sports Exerc.*, 28(10):1247 - 1253, 1996.

Books

Borer, K.T., D.W. Edington, and T.P. White (Eds.). *Frontiers of Exercise Biology*. Human Kinetics Publishers, Champaign, IL, 1983.

Brooks, G. A., T.D. Fahey, and T.P. White. *Exercise Physiology: Human Bioenergetics and Its Applications*; second edition. Mayfield Publishing, Mountain View, CA, 1996.

Brooks, G. A., T.D. Fahey, T.P. White and K.M. Baldwin. *Exercise Physiology: Human Bioenergetics and Its Applications*; third edition. Mayfield Publishing, Mountain View, CA, 2000.

Communications For Public-at-Large

White, Timothy P. and the Editors of the University of California at Berkeley Wellness Letter. *The Wellness Guide to Lifelong Fitness*. Rebus Publishing/ Random House Distributor, New York, 1993.

CBS Undercover Boss. Originally aired in 2011