

PUBLICATIONS
of
JOHN A. FAULKNER

PUBLICATIONS (*In Reversed Chronological Order*)

196. Larkin LM, Hanes MC, Kayupov E, Claflin DR, **Faulkner JA**, Brooks SV. Weakness of whole muscles in mice deficient in Cu, Zn superoxide dismutase is not explained by defects at the level of the contractile apparatus. *Age (Dordr)*. 2012 Jun 14. [Epub ahead of print] PubMed PMID: 22696118.
195. Claflin DR, Larkin LM, Cederna PS, Horowitz JF, Alexander NB, Cole NM, Galecki AT, Chen S, Nyquist LV, Carlson BM, **Faulkner JA**, Ashton-Miller JA. Effects of high- and low-velocity resistance training on the contractile properties of skeletal muscle fibers from young and older humans. *J Appl Physiol*. October 1, 2011 vol. 111 no. 4 1021-1030.
194. Ramaswamy KS, Palmer ML, van der Meulen JH, Renoux A, Kostrominova TY, Michele DE, **Faulkner JA**. Ramaswamy KS, Palmer ML, van der Meulen JH, Renoux A, Kostrominova TY, Michele DE, **Faulkner JA**. Lateral Transmission of force is impaired in skeletal muscles of dystrophic mice and very old rats. *J Physiol*. 2011 Mar 1;589(Pt 5):1195-208.
193. Han R, Frett EM, Levy JR, Rader EP, Lueck JD, Bansal D, Moore SA, Ng R, Beltrán-Valero de Bernabé D, **Faulkner JA**, Campbell KP. Genetic ablation of complement C3 attenuates muscle pathology in dysferlin-deficient mice. *J Clin Invest*. 2010 Dec 1;120(12):4366-74.
192. Smietana MJ, Arruda EM, **Faulkner JA**, Brooks SV, Larkin LM. Reactive oxygen species on bone mineral density and mechanics in Cu,Zn superoxide dismutase (Sod1) knockout mice. *Biochem Biophys Res Commun*. 2010 Dec 3;403(1):149-53.
191. Gumerson JD, Kabaeva ZT, Davis CS, **Faulkner JA**, Michele DE. Soleus muscle in glycosylation-deficient muscular dystrophy is protected from contraction-induced injury. *Am J Physiol Cell Physiol*. 2010 Dec;299(6):C1430-40.
190. Kostrominova TY, Hassett CA, Rader EP, Davis C, Larkin LM, Coleman S, Oleson FB, **Faulkner JA**. Characterization of skeletal muscle effects associated with daptomycin in rats. *Muscle Nerve*. 2010 Sep;42(3):385-93.
189. Kostrominova TY, Coleman S, Oleson FB, **Faulkner JA**, Larkin LM. Effect of daptomycin on primary rat muscle cell cultures in vitro. *In Vitro Cell Dev Biol Anim*. 46: 613-618, 2010.
188. Han R, Kanagawa M, Yoshida-Moriguchi T, Rader EP, Ng RA, Michele DE, Muirhead DE, Kunz S, Moore SA, Iannaccone ST, Miyake K, McNeil PL, Mayer U, Oldstone MB, **Faulkner JA**, Campbell KP. Basal lamina strengthens cell membrane integrity via the laminin G

domain-binding motif of alpha-dystroglycan. Proc Natl Acad Sci USA 106:12573-12579, 2009.

187. Galecki AT, Chen S, **Faulkner JA**, Ashton-Miller J, Burzykowski T. Statistical power calculations for clustered continuous data. Int. J. Knowledge Engineering and Soft Data Paradigms 1: 40-48, 2009.
186. Lynch GS, **Faulkner JA**, Brooks SV. Force deficits and breakage rates after single lengthening contractions of single fast fibers from unconditioned and conditioned muscles of young and old rats. Am J Physiol (Cell) 295: C249-C256, 2008.
185. Kobayashi YM, Rader EP, Crawford RW, Iyengar N K, Thedens DR, **Faulkner JA**, Parikh SV, Weiss RM, Chamberlain JS, Moore SA, Campbell KP Sarcolemma-localized nNOS is required to maintain activity after mild exercise. Nature Nov 27:456(7221):511-5, 2008.
184. Ng R, Metzger JM, Claflin DR, **Faulkner JA**. Poloxamer 188 reduces the contraction-induced force decline in lumbrical muscles from mdx mice. Am J Physiol Cell Physiol 295: C146-C150, 2008.
183. Panchangam A, Claflin DR, Palmer ML, **Faulkner JA**. Magnitude of sarcomere extension correlates with initial sarcomere length during lengthening of activated single fibers from soleus muscle of rats. Biophys. J. Aug:95(4):1890-901, 2008.
182. Gao Y, Waas AM, **Faulkner JA**, Kostrominova TY and Wineman AS. Micromechanical modeling of the epimysium of the skeletal muscles. J Biomech 41: 1-10, January 2008.
181. Mendias CL, Bakhurin KI and **Faulkner JA**. Tendons of myostatin-deficient mice are small, brittle, and hypocellular. Proc Natl Acad Sci U S A 105(1):388-93, January 2008
180. Hanes MC, Weinzweig J, Panter KE, McClellan WT, Caterson SA, Buchman SR, **Faulkner JA**, Yu D, Cederna PS, Larkin LM. The effect of cleft palate repair on contractile properties of single permeabilized muscle fibers from congenitally cleft goat palates. Ann Plast Surg 60: 188-193, 2008.
179. Rader EP, Cederna PS, McClellan WT, Caterson SA, Panter KE, Yu D, Buchman SR, Larkin LM, **Faulkner JA**, Weinzweig J. Effect of cleft palate repair on the susceptibility to contraction-induced injury of single permeabilized muscle fibers from congenitally-clefted goat palates. Cleft Palate Craniofac J 45: 113-120, 2008.
178. Gao Y, Kostrominova TY, **Faulkner JA** and Wineman AS. Age-related changes in the mechanical properties of the epimysium in skeletal muscles of rats. J Biomech. 41(2):465-9, 2008.
177. Hanes M.C., Weinzweig J., Kuzon W.M., Panter K.E., Buchman S.R., **Faulkner J.A.**, Yu D., Cederna P.S. and Larkin L.M. Contractile properties of single permeabilized muscle fibers from congenital cleft palates and normal palates of Spanish goats. Plast Reconstr Surg 119: 1685-1694, 2007.
176. Chamberlain J.S., Metzger J., Reyes M., Townsend D., and **Faulkner J.A.** Dystrophin-deficient mdx mice display a reduced lifespan and are susceptible to spontaneous rhabdomyosarcoma. FASEB J 21(9):2195-2204, March 2007.

175. Kostrominova T.Y., Pasyk K.A., Van Remmen H., Richardson A.G. and **Faulkner J.A.** Adaptive changes in structure of skeletal muscles from adult Sod1 homozygous knockout mice. *Cell and Tissue Research* 327(3):595-605, 2007.
174. Rader E.P., Cederna P.S., Weinzweig J., Panter K.E., Yu D., Buchman S.R., Larkin L.M. and **Faulkner J.A.** Contraction-induced injury to single permeabilized muscle fibers from normal and congenitally-clefted goat palates. *Cleft Palate Craniofac J. Cleft Palate-Craniofacial Journal* 44(2):216-222, 2007.
173. Vasilaki A., Csete M., Pye D., Lee S., Palomero J., McArdle F., VanRemmen H., Richardson A., McArdle A., **Faulkner J.A.** and Jackson M.J. Genetic modification of the manganese superoxide dismutase/glutathione peroxidase 1 pathway influences intracellular ROS generation in quiescent, but not contracting, skeletal muscle cells. *Free Radical Biology and Medicine* 41:1719-1725, 2006.
172. Garvey SM, Miller SE, Claflin DR, **Faulkner JA**, Hauser MA: Transgenic mice expressing the myotilin T57I mutation unite the pathology associated with LGMD1A and MFM. *Human Molecular Genetics* 15:2348-2362, 2006.
171. Rader E.P. and **Faulkner J.A.** Effect of aging on the recovery following contraction-induced injury in muscles of female mice. *J Appl Physiol*, 101:887-892, 2006.
170. Rader E.P. and **Faulkner J.A.** Recovery from contraction-induced injury is impaired in weight-bearing muscles of old male mice. *J Appl Physiol* 100:656-661, 2006.
169. Rader E.P., Song W., Van Remmen H., Richardson A. and **Faulkner J.A.** Raising the antioxidant levels within mouse muscle fibers does not affect contraction-induced injury. *Exp Physiol*, 91.4:781-789, 2006.
168. Mendias C.L., Marcin J.E., Calderon D.R., **Faulkner J.A.** Contractile properties of EDL and soleus muscles of myostatin-deficient mice. *J Appl Physiol*, 101:898-905, May 2006.
167. Li S., Kimura E., Ng R., Fall B.M., Meuse L., Reyes M., **Faulkner J.A.** and Chamberlain, J.S. A highly functional mini-dystrophin/GFP fusion gene for cell and gene therapy studies of Duchenne muscular dystrophy. *Hum Mol Genet* 15:1610-1622, 2006.
166. Mansouri A., Muller F.L., Liu Y., Ng R., **Faulkner J.A.**, Hamilton, M., Richardson, A., Huang, T.T., Epstein, C., Van Remmen, H. Alterations in mitochondrial function, hydrogen peroxide release and oxidative damage in mouse hind-limb skeletal muscle during aging. *Mechanisms of Ageing and Development*,127(3):298-306, March 2006.
165. Muller F.L., Song W., Liu Y., Chaudhuri A., Pieke-Dahl S., Strong R., Huang T.T., Epstein C.J., Jackson Roberts II L., Csete M., **Faulkner J.A.** and Van Remmen H. Absence of CuZn superoxide dismutase leads to elevated oxidative stress and acceleration of age-dependent skeletal muscle atrophy. *Free Radic Biol Med* 40:1993-2004, 2006.
164. Vasilaki A., Mansouri A., Van Remmen H., van der Meulen J.H., Larkin L., Richardson A.G., McArdle A., **Faulkner J.A.** and Jackson M.J. Free radical

generation by skeletal muscle of adult and old mice: effect of contractile activity. *Aging Cell* 5:109-117, 2006.

163. Dow D.E., Carlson B.M., Hassett C.A., Dennis R.G. and **Faulkner J.A.** Electrical stimulation of denervated muscles of rats maintains mass and force, but not recovery following grafting. *Journal of Restorative Neurology and Neuroscience* Volume 23, 2006.
162. Kostrominova T., Dow D., Dennis R., Miller R. and **Faulkner J.A.** Comparison of gene expression of two month denervated, two month denervated-stimulated and control rat skeletal muscles. *Physiol Genomics*, 22:227-243, July, 2005.
161. Dow D.E., **Faulkner J.A.** and Dennis R.G. Distribution of rest periods between electrically generated contractions in denervated muscles of rats. *Artificial Organs*, 29(6):432-5, June, 2005.
160. Dow D., Dennis R. and **Faulkner J.A.** Electrical stimulation attenuates age-related atrophy in EDL muscles of old rats. *Journal of Gerontology: Biological Sciences*, 60A:416-424, April, 2005.
159. Dow D., **Faulkner J.A.** and Dennis, R. Number of contractions to maintain mass and force of a denervated rat muscle. *Muscle & Nerve*, 30:77-86, July, 2004.
158. McArdle A., Dillmann W., Mestril R., **Faulkner J.A.** and Jackson M.J. Over-Expression of HSP70 in mouse skeletal muscle protects against muscle damage and age-related muscle dysfunction. *FASEB Journal*, 18(2),355-7, February, 2004.
157. McArdle A, van der Meulen JH, Close GL, Pattwell D, van Remmen H, Huang TT, Richardson AG, Epstein CJ, **Faulkner JA** and Jackson MJ. The role of mitochondrial superoxide dismutase in contraction-induced generation of reactive oxygen species in skeletal muscle extracellular space. *Am J Physiol, Cell Physiol*. 286, C1152 – 1158, May, 2004.
156. **Faulkner, J. A.** Terminology for contractions of muscles during shortening, while isometric, and during lengthening. *J. Appl. Physiology*, 95: 455-459, 2003.
155. Dennis R.G., Dow D.E. and **Faulkner J.A.** An implantable device for stimulation of denervated muscles in rats. *Medical Engineering & Physics*, 25: 239-253, 2003.
154. Carlson B. M., Borisov A.B., Dedkov E. I., Khalyfa A., Kostrominova T. Y., MacPherson P.C.D., Wang E., and **Faulkner J. A.** Effects of long-term denervation on skeletal muscle in old rats. *J. Gerontology: Biological Sciences*, 57A: B366-B374, 2002.
153. Kosnik P., **Faulkner J.A.** and Dennis R. Functional development of engineered skeletal muscle from adult and neonatal rats. *Tissue Engineering*, 7(5): 573-584, 2001.
152. Brooks S.V. and **Faulkner J. A.** Severity of contraction-induced injury is affected by velocity only during stretches of large strain. *J. Appl. Physiol.* 91: 661-666, 2001.

151. Cederna P.S., Asato H., Xiaming G., van der Meulen J., Kuzon, Jr. W.M., Carlson B.M. and **Faulkner, J.A.** Motor unit properties of nerve-intact extensor digitorum longus muscle grafts in young and old rats. *J. Gerontology: Biological Sciences*, 56A(6): B254-258, 2001.
150. Carlson B.M., Dedkov E., Borisov A. and **Faulkner J.A.** Skeletal muscle regeneration in very old rats. 2000. *J. Gerontology: Biological Sciences*, Vol. 56A(5): B224-B233, 2001.
149. Brooks S.V., Opitck J.A. and **Faulkner J.A.** Conditioning of skeletal muscles in adult and old mice for protection from contraction-induced injury. *J. Gerontology: Biological Sciences*, Vol. 56A(4): B163-B171, 2001.
148. Lynch G.S., Hinkle R.T., Chamberlain J.S., Brooks S.V. and **Faulkner J.A.** Force and power output of fast and slow skeletal muscles from *mdx* mice 6 to 28 months old. *J. Physiol. (London)*, 535.2: 591-600, 2001.
147. Lynch G.S., Hinkle R.T. and **Faulkner J.A.** Force and power output of diaphragm muscle strips from *mdx* and control mice after clenbuterol treatment. *Neuromuscular Disorders*, 11(2):191-195, 2001.
146. Dennis R.G., Kosnik P. Jr., Gilbert, M.E. and **Faulkner, J.A.** Excitability and contractility of skeletal muscle engineered from primary cultures and cell lines. *Am. J. of Physiol.* 280 (Cell Physiol.): C288-C295, 2001.
145. Crawford G.E., **Faulkner J.A.**, Crosbie R.H., Campbell K.P., Froehner S.C. and Chamberlain J.S. Assembly of the dystrophin-associated protein complex does not require the dystrophin COOH-terminal domain. *J. Cell Biol.* 150(6): 1399-1409, September 2000.
144. Lynch G.S., Rafael J.A., Chamberlain J.S. and **Faulkner J.A.** Contraction-induced injury to single permeabilized muscle fibers from *mdx*, transgenic *mdx*, and control mice. *Am. J. Physiol. Cell Physiol.* 279: C1290-C1294, 2000.
143. Lebakken C.S., Venzke D.P., Hrstka R.F., Consolino C., **Faulkner J.A.**, Williamson R.A. and Campbell K.P. Sarcospan-deficient mice maintain normal muscle function. *Mol. Cell Biol.* 20:1669-1677, 2000.
142. Stevens E.D. and **Faulkner J.A.** The capacity of *mdx* mouse diaphragm muscle to do oscillatory work. *J. Physiol. (London)*, 522.3:457-66, 2000.
141. Cederna P.S., van der Meulen J.H., **Faulkner J.A.** and Kuzon W.M. Force deficits in aging skeletal muscle: motor unit properties. *Surgical Forum*. Vol. L:608-610, 1999.
140. Devor S.T., and **Faulkner J.A.** Regeneration of new fibers in muscles of old rats reduces contraction-induced injury. *J. Appl. Physiol.* 87:750-756, 1999.
139. Lynch G.S., Hinkle R.T. and **Faulkner J.A.** Yearlong clenbuterol treatment increases mass, but not specific force or normalized power, of skeletal muscles of mice. *Clinical and Experimental Pharmacology and Physiology* 26:117-120, 1999.
138. McArdle A., van der Meulen J.H., Catapano M., Symons M.C.R., **Faulkner J.A.** and Jackson M.J. Free radical activity following contraction-induced injury to the extensor digitorum longus muscles of rats. *Free Radical Biol. & Med.* 26: 1085-1091, 1999.

137. Carlson B.M., and **Faulkner J.A.** Muscle regeneration in young and old rats: effects of motor nerve transection with and without marcamine treatment. *J. Gerontol.: Biol. Sci.* 53:B52-B57, 1998.
136. Miller S.W., Hassett C.A., and **Faulkner J.A.** Recovery of single muscle transfers replacing the total plantarflexor muscle group in rats. *J. Appl. Physiol.* 84:1865-1871, 1998.
135. Lynch G.S. and **Faulkner J.A.** Contraction-induced injury to single muscle fibers: Velocity of stretch does not influence the force deficit. *Am. J. Physiol* 275 (Cell Physiol. 44): C1548-C1554, 1998 .
134. Duclos F., Volker S., Moore S.A., Venzke D.P., Hrstka R.F., Crosbie R.H., Durbeej M., Lebakken C.S., Ettinger A.J., Holt K.H., Lim L.E., Sanes J.R., Davidson B.L., **Faulkner J.A.**, Williamson R. and Campbell K.P. Progressive muscular dystrophy in sarcoglycan deficient mice. *J. Cell Biol.* 142(6): 1461-1471, 1998.
133. Hunter KD., and **Faulkner J.A.** Pliometric contraction-induced injury of mouse skeletal muscle: effect of initial length. *J. Appl. Physiol.* 82:278-283,1997.
132. Macpherson P.C.D., Dennis R.G., and **Faulkner J.A.** Sarcomere dynamics and contraction-induced injury to maximally activated single muscle fibres from soleus muscles of rats. *J. Physiol. (London)*, 500:523-533, 1997.
131. Gu X., Carlson B.M., and **Faulkner J.A.** Power measurement of denervated muscle isografts with neurotomy and nerve-implantation in rats. *Chinese J. Stomatol.* 32:131-135, 1997.
130. Lynch G.S., Rafael J.A., Hinkle R.T., Cole N.M., Chamberlain J.S. and **Faulkner J.A.** Contractile properties of diaphragm muscle segments from old *mdx* mice and old transgenic *mdx* mice. *Am J. Physiol.* 272 (Cell Physiol. 41): C2063-C2068, 1997.
129. van der Meulen J.H., McArdle A., Jackson M.J., and **Faulkner J.A.** Contraction-induced injury to the extensor digitorum longus muscles of rats: the role of vitamin E. *J. Appl. Physiol.* 83:817-823, 1997.
128. Miller R.A., Bookstein F., van der Meulen J.H., Engle S., Kim J., Mullins L. and **Faulkner J.A.** Candidate biomarkers of aging: age-sensitive indices of immune and muscle function covary in genetically heterogeneous mice. *J. Gerontol.: Biol. Sci.* 52:B39-B47, 1997.
127. Larkin L.M., **Faulkner J.A.** Hinkle R.T., Hassett C.A., Supiano M.A., and Halter J.B. Functional deficits in medial gastrocnemius grafts in rats: relation to muscle metabolism and β -AR regulation. *J. Appl. Physiol.* 83:67-73, 1997.
126. **Faulkner J.A.**, Brooks S.V., Dennis R.G. and Lynch G.S. The functional status of dystrophic muscles and functional recovery by skeletal muscles following myoblast transfer. *Basic Appl. Myol.* 7, (3&4):257-264, 1997.
125. Miller S.W., Opitck J.A., White T.P. and **Faulkner J.A.** Functional evaluation of the medial gastrocnemius donor site in rats. *J. Reconstr. Microsurg.* 12, No. 3:143-147, 1996.
124. Kadhiresan V.A., Hassett C. and **Faulkner, J.A.** Properties of single motor units in medial gastrocnemius muscles of adult and old rats. *J. Physiol. (London)* 493:543-552, 1996.

123. Carlson B.M. and **Faulkner J.A.** The regeneration of non-innervated muscle grafts and marcaïne-treated muscles in young and old rats. *J. Gerontol. Biol. Sci.*: 51:B43-B49, 1996.
122. Corrado K., Rafael J.A., Mills P.L., Cole N.M., **Faulkner J.A.**, Wang K. and Chamberlain J.S. Transgenic mdx mice expressing dystrophin with a deletion in the actin-binding domain display a "Mild Becker" phenotype. *J. Cell Biol.* 134:873-884, 1996.
121. Brooks S.V., and **Faulkner J.A.** The magnitude of the initial injury induced by stretches of maximally activated muscle fibres increases in old age. *J. Physiol. (Lond.)* 497:573-580, 1996.
120. Macpherson P.C.D., Schork A.M., and **Faulkner J.A.** Contraction-induced injury to single fiber segments from fast and slow muscles of rats by single stretches. *Am. J. Physiol.* 271 (Cell Physiol. 40): C1438-C1446, 1996.
119. Carlson B.M., Billington L. and **Faulkner J.A.** Studies on the regenerative recovery of long-term denervated muscle in rats. *Restor. Neurol. Neurosci.* 10:77-84, 1996.
118. Brooks S.V., Zerba E. and **Faulkner J.A.** Injury to muscle fibers after single stretches of passive and maximally stimulated muscles in mice. *J. Physiol. (London)*. 488:459-469, 1995.
117. Phelps S.F., Howser M.A., Cole N.M., Raphael J.A., Hinkle R.T., **Faulkner J.A.** and Chamberlain J.S. Expression of full-length and truncated dystrophin mini-genes in transgenic *mdx* mice. *Human Molec. Genet.* 4(8):1251-1258, 1995.
116. Yoshimura K., **Faulkner J.A.** and Kuzon W. Influence of skeletal muscle architecture on contractile properties after tenotomy or myotomy. *Surg. Forum* 46:603-605, 1995.
115. Stevenson T.R., Kadhiresan V.A. and **Faulkner J.A.** Tubular nerve guide and epineurial repair: comparison of techniques for neuroorrhaphy. *J. Reconstr. Microsurg.* 10:171-174, 1994.
114. Brooks S.V. and **Faulkner J.A.** Isometric, shortening and lengthening contractions of muscle fiber segments from adult and old mice. *Am. J. Physiol.* 267(Cell Physiol. 36): C507-C513, 1994.
113. Brooks S.V. and **Faulkner J.A.** Skeletal muscle weakness in old age: underlying mechanisms. *Med. Sci. Sports Exerc.* 26:432-439, 1994.
112. Rafael J.A., Sunada Y., Cole N.M., Campell K.P., **Faulkner, J.A.** and Chamberlain J.S. Prevention of dystrophic pathology in mdx mice by a truncated dystrophin isoform. *Human Molecular Genetics* 3:1725-1733, 1994.
111. Miller S.W., Hassett C.A., White T.P. and **Faulkner, J.A.** Recovery of medial gastrocnemius muscle grafts in rats: implications for the plantarflexor group. *J. Appl. Physiol.* 77:2773-2777, 1994.
110. Kadhiresan V.A., Guelinckx P.J. and **Faulkner J.A.** Tenotomy and repair of latissimus dorsi muscles in rats: implications for transposed muscle grafts. *J. Appl. Physiol.* 75:1294-1299, 1993.
109. Cox G.A., Cole N.M., Matsumura K., Phelps S.F., Hauschka S.D., Campbell K.P., **Faulkner J.A.** and Chamberlain J.S. Overexpression of dystrophin in transgenic

MDX mice eliminates dystrophic symptoms without toxicity. *Nature* 364:725-729, 1993.

108. Guelinckx P.J. and **Faulkner J.A.** Parallel-fibered muscles transplanted with neurovascular repair into bipennate muscle sites in rabbits. *Plast. Reconstr. Surg.* 89:290-298, 1992.
107. Ashton-Miller J.A., He Y., Kadhiresan V.A., McCubbrey D. and **Faulkner J.A.** An apparatus to measure in vivo biomechanical behavior of dorsi- and plantarflexors of the mouse ankle. *J. Appl. Physiol.* 72:1205-1211, 1992.
106. Block, B.M., Barry S.R. and **Faulkner J.A.** Aminophylline increases power but not the force-velocity relationship of frog skeletal muscles. *J. Appl. Physiol.* 73:71-74, 1992.
105. Guelinckx P.J., Carlson B.M. and **Faulkner J.A.** Morphological characteristics of muscles grafted in rabbits with neurovascular repair. *J. Reconstr. Microsurg.* 8:481-489, 1992.
104. Wilkins E.G., Kadhiresan V.A., Hassett C. and **Faulkner J.A.** Functional Properties of nerve-repaired vascular-intact muscle grafts in young, adult, and old rats. *Surg. Forum* 43:561-562, 1992.
103. **Faulkner J.A.**, Opitck J.A. and Brooks S.V. Injury to skeletal muscle during altitude training: induction and prevention. *Int. J. Sports Med.* 13:S160-S162, 1992.
102. Brooks S.V. and **Faulkner J.A.** Maximum and sustained power of extensor digitorum longus muscles from young, adult and old mice. *J. Gerontol.: Biol. Sci.* 46:B28-33, 1991.
101. Brooks S.V. and **Faulkner, J.A.** Forces and powers of slow and fast skeletal muscles in mice during repeated contractions. *J. Physiol. (Lond.)* 436:701-710, 1991.
100. Schultz A.B., **Faulkner J.A.** and Kadhiresan V.A. A simple Hill element model of muscle contraction biomechanics. *J. Appl. Physiol.* 70:803-812, 1991.
99. Brooks S.V., **Faulkner J.A.** and McCubbrey D.A. Power outputs of slow and fast skeletal muscles of mice. *J. Appl. Physiol.* 68:1282-1285, 1990.
98. Zerba E., Komorowski T.E. and **Faulkner J.A.** Free radical injury to skeletal muscles of young, adult, and old mice. *Am. J. Physiol.* 258 (Cell Physiol. 27): C429-C435, 1990.
97. Brooks S.V. and **Faulkner J.A.** Contraction-induced injury: recovery of skeletal muscles in young and old mice. *Am. J. Physiol.* 258 (Cell Physiol. 27): C436-C442, 1990.
96. **Faulkner J.A.**, Zerba E. and Brooks S.V. Muscle temperature of mammals: cooling impairs most functional properties. *Am. J. Physiol.* 259 (Regulatory Integrative Comp. Physiol. 28):R259-R265, 1990.
95. Burton H.W., Stevenson T.R., White T.P., Hartman J. and **Faulkner J.A.** Force deficit of vascularized skeletal muscle grafts in rabbits. *J. Appl. Physiol.* 66:675-679, 1989.
94. Claflin D.R. and **Faulkner J.A.** The force-velocity relationship at high shortening velocities in the soleus muscle of the rat. *J. Physiol. (London).* 411:627-637, 1989.

93. Sandercock T.G., Côté C. and **Faulkner J.A.** Properties of motor units in nerve-intact autografts of cat extensor digitorum longus muscles. *J. Neurophysiol.* 62:231-238, 1989.
92. Carlson B.M. and **Faulkner J.A.** Muscle transplantation between young and old rats: age of host determines recovery. *Am. J. Physiol.* 256(Cell Physiol. 25):C1262-C1266, 1989.
91. Markley J.M., Jr., **Faulkner J.A.** and Côté C. Transplantation and transposition of skeletal muscles into the faces of monkeys. *Plast. Reconstr. Surg.* 84:425-431, 1989.
90. Ridings J.W., Barry S.R. and **Faulkner J.A.** Aminophylline enhances contractility of isolated frog skeletal muscle: an effect dependent on extracellular calcium. *J. Appl. Physiol.* 67:671-676, 1989.
89. **Faulkner J.A.**, Jones D.A. and Round J.M. Injury to skeletal muscles of mice by forced lengthening during contractions. *Quart. J. Exp. Physiol.* 74:661-670, 1989.
88. Côté C., White T.P. and **Faulkner J.A.** Intramuscular substrate depletion and fatigability of soleus grafts in rats. *Can. J. Physiol. Pharmacol.* 66:829-832, 1988.
87. Guelinckx P.J., **Faulkner J.A.** and Essig D.A. Neurovascular-anastomosed muscle grafts in rabbits: functional deficits result from tendon repair. *Muscle & Nerve.* 11:745-751, 1988.
86. Brooks S.V. and **Faulkner J.A.** Contractile properties of skeletal muscles from young, adult, and aged mice. *J. Physiol. (London).* 404:71-82, 1988
85. Burton H.W., Stevenson T.R., Dysko R.C., Gallagher K.P. and **Faulkner J.A.** Total and regional blood flows in vascularized skeletal muscle grafts in rabbits. *Am. J. Physiol.* 255(Heart Circ. Physiol. 24): H1043-H1049, 1988.
84. Carlson B.M. and **Faulkner J.A.** Reinnervation of long-term denervated rat muscle freely grafted into an innervated limb. *Exp. Neurol.* 102:50-56, 1988.
83. Donovan C.M. and **Faulkner J.A.** Plasticity of skeletal muscle: Regenerating fibers adapt more rapidly than surviving fibers. *J. Appl. Physiol.* 62:2507-2511, 1987.
82. Burton H.W. and **Faulkner J.A.** The response of arterioles in skeletal muscle grafts to vasoactive agents. *Microvascular Research.* 34:59-68, 1987.
81. **Faulkner J.A.** and Carlson B.M. Skeletal muscle fiber regeneration: a historical perspective. *Fed. Proc.* 45:1454. 1986.
80. **Faulkner J.A.** and Côté C. Functional deficits of skeletal muscle grafts. *Fed. Proc.* 45:1466-1469, 1986.
79. Bryant S., Edwards R., **Faulkner J.A.**, Hughes R.L. and Roussos C. Respiratory muscle fatigue: Fatigue or weakness? The role of theophylline. *Clinical Conference in Pulmonary Disease.* *Chest* 89:116-123, 1986.
78. Segal S.S., White T.P. and **Faulkner J.A.** Architecture, composition and contractile properties of rat soleus muscle grafts. *Am. J. Physiol.* 250 (Cell Physiol.19): C474-C479, 1986.

77. Côté C. and **Faulkner J.A.** Characteristics of motor units in muscles of rats grafted with nerves intact. *Am. J. Physiol.* 250 (Cell Physiol. 19):C828-C833, 1986.
76. McCully K.K. and **Faulkner J.A.** Characteristics of lengthening contractions associated with injury to skeletal muscle fibers. *J. Appl. Physiol.* 61:293-299, 1986.
75. Segal S.S., **Faulkner J.A.** and White T.P. Skeletal muscle fatigue is temperature dependent. *J. Appl. Physiol.* 61:660-665, 1986.
74. Donovan C.M. and **Faulkner J.A.** Muscle grafts overloaded by ablation of synergistic muscles. *J. Appl. Physiol.* 61:288-292, 1986.
73. **Faulkner J.A.** Power output of the human diaphragm. *Amer. Rev. Resp. Dis.* 134:1081-1083, 1986.
72. Ciske P.E. and **Faulkner J.A.** Chronic electrical stimulation of nongrafted and grafted skeletal muscles in rats. *J. Appl. Physiol.* 59: 1434-1439, 1985.
71. Claflin D.R. and **Faulkner J.A.** Shortening velocity extrapolated to zero load and unloaded shortening velocity of whole rat skeletal muscle. *J. Physiol. London*, 359:357-363, 1985.
70. **Faulkner J.A.** and Carlson B.M. Contractile properties of standard and nerve-intact muscle grafts in the rat. *Muscle & Nerve* 8:413-418, 1985.
69. Markley J.M. Jr, **Faulkner J.A.**, Niemeyer J.H. and White T.P. Functional properties of palmaris longus muscles of rhesus monkeys transplanted as a flexor of the index finger. *Plast. Reconstruct. Surg.*, 76:574-577, 1985.
68. McCully K.K. and **Faulkner J.A.** Injury to skeletal muscle fibers of mice following lengthening contraction. *J. Appl. Physiol.* 59: 119-126, 1985.
67. Sandercock T.G., **Faulkner J.A.**, Albers J.W. and Abbrecht P.H. Single motor unit and fiber action potentials during fatigue. *J. Appl. Physiol.* 58:1073-1079, 1985.
66. Segal S.S. and **Faulkner J.A.** Temperature dependent physiological stability of rat skeletal muscle in vitro. *Am. J. Physiol.* 248 (Cell Physiol. 17):C265-C270, 1985.
65. Côté C. and **Faulkner J.A.** Motor unit function in skeletal muscle autografts of rats. *Exp. Neurol.* 84:292-305, 1984.
64. Maxwell L.C., **Faulkner J.A.**, White T.P. and Hansen-Smith F. Growth of regenerating skeletal muscle fibers. *Anatom. Rec.* 209:153-163, 1984.
63. Albers J.W., **Faulkner J.A.**, Dorovini-Zis K., Barald K.F., Must R.E. and Ball R.D. Abnormal neuromuscular transmission in an infantile myasthenic syndrome. *Ann. Neurol.* 16:28-34, 1984.
62. Block A.J., **Faulkner J.A.**, Hughes R.L., Remmers J.E. and Thach B. Factors influencing upper airway closure. *Chest* 86:14-122, 1984.
61. Carlson B.M. and **Faulkner J.A.** The regeneration of skeletal muscle fibers following injury. *Med Sci. Sports and Exercise* 15:187-198, 1983.
60. **Faulkner J.A.**, Markley J.M. Jr., McCully K.K., Watters C.R. and White T.P. Characteristics of cat skeletal muscles transplanted with intact nerves or with anastomosed nerves. *Exp. Neurol.* 80:682-696, 1983.

59. Braun N.M.T., **Faulkner J.A.**, Hughes R.L., Roussos C. and Sahgal V. When should respiratory muscles be exercised? *Chest* 84:76-84, 1983.
58. McCully K.K. and **Faulkner J.A.** Length-tension relationship of mammalian diaphragm muscles. *J. Appl. Physiol.* 54:1681-1686, 1983.
57. **Faulkner J.A.**, Weiss S.W. and McGeachie J.K. Revascularization of skeletal muscle transplanted into the hamster cheek pouch: Intravital and light microscopy. *Microvasc. Res.* 26:49-64, 1983.
56. Weiss S.W. and **Faulkner J.A.** Revascularization of skeletal muscle transplanted into the hamster cheek pouch: Electron Microscopy. *Microvasc. Res.* 26:65-73, 1983.
55. **Faulkner J.A.**, McCully K.K., Carlson D.S. and McNamara J.A. Contractile properties of the muscles of mastication of monkeys following an increase in muscle length. *Arch. Oral Biol.* 27:841-845, 1982.
54. **Faulkner J.A.**, Claflin D.R., McCully K.K. and Jones D.A. Contractile properties of bundles of fiber segments from skeletal muscles. *Am. J. Physiol* 243 (Cell Physiol. 12): C66-C73, 1982.
53. White T.P., **Faulkner J.A.**, Markley J.M. Jr and Maxwell L.C. Translocation of temporalis muscle for treatment of facial paralysis. *Muscle & Nerve* 5:500-504, 1982.
52. Maxwell L.C., **Faulkner J.A.** and Murphy R.A. Relationship among fiber type, myosin ATPase activity and contractile properties. *Histochem. J.* 14:981-997, 1982.
51. Carlson B.M., Hnik P., Tucek S., Vejsada R., Bader D. and **Faulkner J.A.** Comparison between grafts with intact nerves and standard free grafts of the rat extensor digitorum longus muscle. *Physiol. Bohemoslov.* 30:505-514, 1981.
50. White T.P., Maxwell L.C., Sosin D.M. and **Faulkner J.A.** Capillarity and blood flow of transplanted skeletal muscles of cats. *Am. J. Physiol.* 241 (Heart Circ. Physiol 10):H630-H636, 1981.
49. Maxwell L.C., Carlson D.S., McNamara J.A. Jr and **Faulkner J.A.** Adaptation of the masseter and temporalis muscles following alteration in length, with or without surgical detachment. *Anat. Rec.* 200:127-137, 1981.
48. **Faulkner J.A.**, Niemeyer J.H., Maxwell L.C. and White T.P. Contractile properties of transplanted extensor digitorum longus muscles of cats. *Am. J. Physiol.* 238 (Cell Physiol. 7):C120-C126, 1980.
47. Maxwell L.C., McNamara J.A. Jr, Carlson D.S. and **Faulkner J.A.** Histochemistry of fibres of masseter and temporalis muscles of edentulous monkeys *Macaca mulatta*. *Archs. oral Biol.* 25:87-93, 1980.
46. Maxwell L.C., White T.P. and **Faulkner J.A.** Oxidative capacity, blood flow, and capillarity of skeletal muscles. *J. Appl. Physiol.: Respirat. Environ. Exercise Physiol.* 49(4):627-633, 1980.
45. Armstrong T.J., Chaffin D.B., **Faulkner J.A.**, Herrin G.D. and Smith R.G. Static work elements and selected circulatory responses. *Am. Ind. Hyg. Assoc. J.* 41:254-261, 1980.

44. Gorniak G.C., Gans C. and **Faulkner J.A.** Muscle fiber regeneration after transplantation: prediction of structure and physiology from electromyograms. *Science*. 204:1085-1087, 1979.
43. Maxwell L.C., **Faulkner J.A.**, Markley J.M. Jr and Winborn D.R. Neuroanastomosis of orthotopically transplanted palmaris longus muscles. *Muscle & Nerve*. 2:44-52, 1979.
42. Maxwell L.C., Carlson D.S., McNamara J.A. Jr and **Faulkner J.A.** Histochemical characteristics of the masseter and temporalis muscles of the rhesus monkey (*Macaca mulatta*). *Anat. Rec.* 193:389-402, 1979.
41. **Faulkner J.A.**, Maxwell L.C., Ruff G.L. and White T.P. The diaphragm as a muscle: contractile properties. *Am. Rev. Resp. Dis.* 119:89-92, 1979.
40. Rogers P.A., Jones G.H. and **Faulkner J.A.** Protein synthesis in skeletal muscle following acute exhaustive exercise. *Muscle & Nerve*. 2:250-256, 1979.
39. Heigenhauser G.J.F. and **Faulkner J.A.** Estimation of cardiac output by the CO₂ rebreathing method during tethered swimming. *J. Appl. Physiol.* 44:821-824, 1978.
38. Maxwell L.C., **Faulkner J.A.**, Mufti S.A. and Turowski A.M. The free autografting of entire limb muscles in the cat: histochemistry and biochemistry. *J. Appl. Physiol.* 44:431-437, 1978.
37. Carey C., Dawson W.E., Maxwell L.C. and **Faulkner J.A.** Season acclimatization to temperature in Cardueline finches. *J. Comp. Physiol.* 125:101-113, 1978.
36. Markley J.M., **Faulkner J.A.** and Carlson B.M. Regeneration of skeletal muscle after grafting in monkeys. *Plast. Reconstr. Surg.* 62:415-422, 1978.
35. Heigenhauser G.F., Boulet D., Miller B. and **Faulkner J.A.** Cardiac outputs of post-myocardial infarction patients during swimming and cycling. *Med and Sci in Sports* 9:143-147, 1977.
34. Maxwell L.C., Barclay J.K., Mohrman D.E. and **Faulkner J.A.** Physiological characteristics of skeletal muscles of dogs and cats. *Am. J. Physiol.* 223:C14-C18, 1977.
33. Mufti S.A., Carlson B.M., Maxwell L.C. and **Faulkner J.A.** The free autografting of entire limb muscles in the cat: morphology. *Anat. Rec.* 188:417-430, 1977.
32. **Faulkner J.A.** and Heigenhauser G.F. Cardiac output-oxygen uptake relation of men during graded exercise. *Med. Sci. Sports.* 9:148-154, 1977.
31. **Faulkner J.A.**, Maxwell L.C., Mufti S.A. and Carlson B.M. Skeletal muscle fiber regeneration following heterotopic autotransplantation in cats. *Life Sci.* 19:289-296, 1976.
30. Reybrouck T., Heigenhauser G.F. and **Faulkner J.A.** Limitations to maximum oxygen uptake during arm, leg, and combined arm-leg ergometry. *J. Appl. Physiol.* 38:774-779, 1975.
29. Maxwell L.C., **Faulkner J.A.** and Hyatt G.J. Estimation of the number of fibers in guinea pig skeletal muscle. *J. Appl. Physiol.* 37:259-264, 1974.

28. Maxwell L.C., **Faulkner J.A.** and Lieberman D.A. Histochemical manifestations of age and endurance training in skeletal muscle fibers. *Am. J. Physiol.* 224:356-361, 1973.
27. Lieberman D.A., **Faulkner J.A.**, Craig A.B. Jr. and Maxwell L.C. Performance and histochemical composition of guinea pig and human diaphragm. *J. Appl. Physiol.* 34:233-237, 1973.
26. **Faulkner J.A.**, Maxwell L.C. and Lieberman D.A. Histochemical characteristics of muscle fibers from trained and detrained guinea pigs. *Am. J. Physiol.* 222:836-840, 1972.
25. Lieberman D.A., Maxwell L.C. and **Faulkner J.A.** Adaptation of guinea pig diaphragm muscle to aging and endurance training. *Am. J. Physiol.* 222:556-561, 1972.
24. Brooks G.A., Hittleman K.J., **Faulkner J.A.** and Beyer R.E. Tissue temperatures and whole animal oxygen consumption after exercise. *Am. J. Physiol.* 221:427-431, 1971.
23. Hermiston R.T. and **Faulkner J.A.** The prediction of maximum oxygen uptake by step-wise regression technique. *J. Appl. Physiol.* 30:833-837, 1971.
22. **Faulkner J.A.**, Roberts D.E., Elk R.L. and Conway J. Cardiovascular responses to submaximum and maximum effort cycling and running. *J. Appl. Physiol.* 30:457-461, 1971.
21. Dixon R.W. and **Faulkner J.A.** Cardiac outputs during maximum effort running and swimming. *J. Appl. Physiol.* 30:653-656, 1971.
20. **Faulkner J.A.**, Maxwell L.C., Brook D.A. and Lieberman D.A. Adaptation of guinea pig plantaris muscle fibers to endurance training. *Am. J. Physiol.* 221:291-297, 1971.
19. Brooks G.A., Hittleman K.J., **Faulkner J.A.** and Beyer R.E. Temperature, skeletal muscle mitochondrial functions, and oxygen debt. *Am. J. Physiol.* 220:1053-1059, 1971.
18. Brooks G.A., Hittleman K.J., **Faulkner J.A.** and Beyer R.E. Temperature, liver mitochondrial respiratory functions, and oxygen debt. *Med. Sci. Sports* 3:72-74, 1971.
17. Welch H.G., **Faulkner J.A.**, Barclay J.K. and Brooks G.A. Ventilatory response during recovery from muscular work and its relation with O₂ debt. *Med. Sci. Sports* 2:15-19, 1970.
16. Cunningham D.A. and **Faulkner J.A.** The effect of training on aerobic and anaerobic metabolism during a short exhaustive run. *Med. Sci. Sports* 1:65-69, 1969.
15. **Faulkner J.A.**, Montoye H.J. and Greey G.W. A comparison of executives with a total population in physical activity and other possible coronary heart disease risk factors. *Med. Sci. Sports* 1:160-164, 1969.
14. Eaton J.W., **Faulkner J.A.** and Brewer G.J. Response of the human red cell to muscular activity. *Proc. Soc. Exp. Biol. and Med.* 132:886-887, 1969.
13. **Faulkner J.A.**, Kollias J., Favour C.B., Buskirk E.R. and Balke B. Maximum aerobic capacity and running performance at altitude. *J. Appl. Physiol.* 24:685-691, 1968.

12. **Faulkner J.A.** New perspectives in training for maximum performance. *J.A.M.A.* 205:741-746, 1968.
11. Ferguson R.J., **Faulkner J.A.**, Julius S. and Conway J. Comparison of cardiac output determined by CO₂ rebreathing and dye-dilution methods. *J. Appl. Physiol.* 25:450-454, 1968.
10. Montoye H.J., **Faulkner J.A.**, Dodge H.J., Mikkelsen W.M., Willis P.W. III and Block W.D. Serum uric acid concentration among business executives. *Annals of Internal Med.* 66:838-850, 1967.
9. **Faulkner J.A.**, Daniels J.T. and Balke B. Effects of training at moderate altitude on physical performance capacity. *J. Appl. Physiol.* 23:85-89, 1967.
8. Magel J.R. and **Faulkner J.A.** Maximum oxygen uptakes of college swimmers. *J. Appl. Physiol.* 22:929-933, 1967.
7. **Faulkner J.A.** Physiology of swimming. *Res. Quarterly* 37(1):41-45, 1966.
6. **Faulkner J.A.** and Dawson R.M. Pulse rate after 50-meter swims. *Res. Quarterly* 37:282-284, 1966.
5. Montoye H.J. and **Faulkner J.A.** Determination of the optimum setting of an adjustable grip dynamometer. *Res. Quarterly* 35:1, March, 1964.
4. **Faulkner J.A.** Effect of cardiac conditioning on the resting, exercise and recovery heart rates of young men. *J. Sports Med. and Physical Fitness* 4:79-86, 1964.
3. **Faulkner J.A.**, Greey G.W., and Hunsicker P. Heart rate during physical education periods. *Res. Quarterly* 34:95-98, 1963.
2. **Faulkner J.A.**, Montoye H.J. and Greey G.W. An analysis of heart rate tests of physical fitness. *J. Sports Med. and Physical Fitness* 3:255-256, 1963.
1. **Faulkner J.A.** and Loken N. The objectivity of judging at the National Collegiate Athletic Association gymnastic meet. A ten-year follow-up study. *Res. Quarterly* 33(3):485-486, 1962.

CHAPTERS IN BOOKS AND REVIEW ARTICLES *(In Reverse Chronological Order)*

81. **Faulkner J.A.**, Davis C.S., Mendias C.L. and Brooks S.V. The aging of elite male athletes: age-related changes in performance and skeletal muscle structure and function. *Clin J Sport Med* 18: 501-507, 2008.
80. **Faulkner J.A.**, Ng R., Davis C.S., Li S., Chamberlain J.S. Diaphragm Muscle Strip Preparation for Evaluation of Gene Therapies in mdx mice. *Clin Exp Pharmacol Physiol* 35: 725-729, 2008.
79. **Faulkner J.A.**, Larkin L.M., Claflin D.R., Brooks, S.V. Age-related changes in the structure and function of skeletal muscles. *Clin Exp Pharmacol Physiol* 34:1091-1096, 2007.
78. **Faulkner J.A.** and Brooks S.V. Physiological Changes, Organ Systems: Skeletal. *Macmillan Encyclopedia of Aging*, 2002.

77. **Faulkner J.A.**, and Dennis R.G. Excitability and Contractility of Skeletal Muscle: Measurements and Interpretations. *The Functional Tissue Engineering*, 1st Edition, 2001.
76. **Faulkner J.A.** and Brooks S.V. Skeletal Muscle Characteristics. *Encyclopedia of Aging*, Third Edition, 2000.
75. Brooks S.V. and **Faulkner J.A.** Tissue Engineering of Skeletal Muscle. *The Biomedical Engineering Handbook*, Second Edition 123: 1-14, 2000.
74. **Faulkner J.A.**, Brooks S.V. and Dennis R.G. Measurement of recovery of function following whole muscle transfer, myoblast transfer, and gene therapy. In: *Methods in Molecular Medicine*, Vol. 18: Tissue Engineering Methods and Protocols. J. Morgan and M.L. Yarmush, Ed., Humana Press Inc., Totowa, NJ, 1998.
73. **Faulkner J.A.**, Brooks S.V. and Dennis R.G. Measurement of Recovery of Function Following Whole Muscle Transfer, Myoblast Transfer, and Gene Therapy. *Meth. In Mol. Med.*, 18: 155-172, 1998.
72. **Faulkner J.A.**, Brooks S.V., Dennis R.G. and Lynch G.S. The functional status of dystrophic muscles and functional recovery by skeletal muscles following myoblast transfer. In: *Basic and Applied Myology: Special Issue*, M. Grounds, Ed., 7:257-264, 1997.
71. **Faulkner J.A.** Exercise and aging; oh what a tangled web we mortals weave. In: *The Gerontologist*. R.H. Binstock, Ed., Vol.37, pp. 423-426, 1997.
70. Brooks S.V. and **Faulkner J.A.** Effects of aging on the structure and function of skeletal muscle. In: *The Thorax*, Second Edition. C. Roussos, Ed., Chapter 10, Marcel Dekker, Inc., New York, New York, pp 295-312, 1995.
69. Brooks S.V., Cole Neil M. and **Faulkner J.A.** Tissue engineering of skeletal muscle. In: *The Biomedical Engineering Handbook*. J.D. Bronzino, Ed.-in-Chief, CRC Press, Inc., pp 1774-1787, 1995.
68. **Faulkner J.A.** Conditioning of the ventilatory muscles. In: *The Thorax*, Second Edition. C. Roussos, Ed., Chapter 79, Marcel Dekker, Inc., New York, New York, pp 2321-2339, 1995.
67. **Faulkner J.A.** Structural and functional adaptations of skeletal muscle. In: *The Thorax*, Second Edition. C. Roussos, Ed., Chapter 9. Marcel Dekker, Inc., New York, New York, pp 269-294, 1995.
66. Edwards R.H.T. and **Faulkner J.A.** Structure and function of the respiratory muscles. In: *The Thorax*, Second Edition. C. Roussos, Ed., Chapter 5, Marcel Dekker, Inc., New York, New York, pp 185-217, 1995.
65. **Faulkner J.A.**, Macpherson P.C.D. and Brooks S.V. Contraction-induced injury to skeletal muscle: mechanisms underlying the initial and secondary injury. In: *Bone Formation and Regeneration*. T. Einhorn, and J. Glowacki, Ed., American Academy of Orthopaedic Surgeons, Rosemont, IL., 1995
64. **Faulkner J.A.**, Brooks S.V. and Zerba E. Muscle atrophy and weakness with aging: contraction-induced injury as an underlying mechanism. In: *Journals of Gerontology*, Series A: Biological and Medical Sciences, Vol. 50A, The Gerontological Society of America, Washington, D.C., pp 124-129, 1995.

63. **Faulkner J.A.** and Brooks S.V. Muscle fatigue in old animals: unique aspects of fatigue in elderly humans. In: *Fatigue*. S.C. Gandevia, Ed., Chapter 34, Plenum Press, New York, NY, pp 471-480, 1995.
62. **Faulkner J.A.**, Miller S.W., Hassett C.A. and Hinkle R. Functional recovery of muscle grafts: longitudinal noninvasive measurements of maximum force, power, and sustained power. In: *Fourth International Muscle Symposium*. M. Frey, Ed., Zürich, Switzerland, 1995.
61. **Faulkner J.A.** and Brooks S.V. An in situ single skeletal muscle model of contraction-induced injury: mechanistic interpretations. In: *Basic and Applied Myology: Special Issue*. R. Salmons, Ed., Unipress, Padova, Italy, Vol. 4 (1), 1994.
60. **Faulkner J.A.**, Carlson B.M. and Kadhiresan V.A. Whole skeletal muscle transplantation: mechanisms responsible for functional deficits. In: *Biotechnology and Bioengineering*. E.T. Papoutsakis, Ed., Vol. 43, pp 757-763, Wiley & Sons, Inc., 1994.
59. **Faulkner J.A.**, Green H.J. and White T.P. Response and Adaptation of Skeletal Muscle to Changes in Physical Activity. In: *Physical Activity, Fitness & Health*. C. Bouchard, R.J. Shephard, and T. Stephens, Eds., Human Kinetics Publ., Champaign, IL, Chapter 21, pp 343-357, 1994.
58. **Faulkner J.A.** and Brooks S.V. Fatigability of mouse muscles during constant length, shortening, and lengthening contractions: interactions between fiber types and duty cycles. In: *Neuromuscular Fatigue*. T. Sargeant and D. Kernell, Eds., Royal Netherlands Academy of Arts and Sciences, Amsterdam, Netherlands, pp. 116-123, 1993.
57. **Faulkner J.A.** and Brooks S.V. Age-related immobility: the roles of weakness, fatigue, injury and repair. In: *Musculoskeletal Soft-Tissue Aging: Impact on Mobility*. J.A. Buckwalter, V.M., Goldberg, S.L.-Y Woo, Eds., American Academy of Orthopaedic Surgeons, Rosemont, IL., Chapter 13, pp 187-194, 1993.
56. **Faulkner J.A.**, Brooks S.V. and Opiteck J.A. Injury to skeletal muscle fibers during contractions: conditions of occurrence and prevention. In: *Physical Therapy, Special Edition*, Vol. 73(12). S.A. Binder-Macleod, Ed., Am. Physical Therapy Assoc., Alexandria, VA., pp 911-921, 1993.
55. **Faulkner J.A.**, Kadhiresan V.A., Wilkins E.G. and C.A. Hassett. Functional properties of motor units in non-vascularized and vascularized grafts. In: *Third Vienna Muscle Symposium*. G. Freilinger and M. Deutinger, Eds., Blackwell MZV, Vienna, Austria, pp 41-48, 1992.
54. Carlson B.M. and **Faulkner J.A.** Regeneration of denervated and aging muscles. In: *Third Vienna Muscle Symposium*, G. Freilinger and M. Deutinger, Eds., Blackwell MZV, Vienna, Austria, pp 68-70, 1992.
53. **Faulkner J.A.** and Brooks S.V. Skeletal muscle fatigue: implications for circulatory-assist pumps. In: *Seminars in Thoracic and Cardiovascular Surgery*. G.J. Magovern, Ed., W.B. Saunders, Philadelphia, 1991.
52. **Faulkner J.A.**, Doerning B.J. and Hunter K.D. Muscle atrophy, weakness, fatigability & injury with aging: implications for upper airway function. In: *Proceedings of the Second International Symposium on Sleep and Respiration*. S.T. Kuna, Ed., Elsevier Science Publishing Co., New York, New York, 1991.

51. **Faulkner J.A.**, Claflin D.R., Brooks S.V. and Burton H.W. Power output of fiber segments from human latissimus dorsi muscles: Implications for cardiac assist devices. In: Proceedings of the International Symposium on Basic and Applied Myology: Perspectives for the 90's. U. Carraro, Ed., Chapter 2, Unipress Padova, Padova, Italy, pp 31, 1991.
50. **Faulkner J.A.** and White T.P. Adaptations of skeletal muscle to physical activity. In: Exercise, Fitness and Health. C. Bouchard, R.J. Shephard, T. Stephens, J.R. Sutton, and B.D. McPherson, Eds., Human Kinetics Publishers, Chapter 22, pp 265-279, 1990.
49. **Faulkner J.A.**, Zerba E. and Brooks S.V. Contraction-induced injury to skeletal muscle fibers. In: Hypoxia: The Adaptation. J. R. Sutton, G. Coates, and J. Remmers, Eds., Chapter 36, B.C. Decker Inc., Philadelphia, pp 225-230, 1990.
48. Carlson B.M. and **Faulkner J.A.** Free muscle grafts - Laboratory studies. In: The Paralyzed Face. L.R. Rubin, Ed., Chapter 6, Mosby, Inc., St. Louis, 1990.
47. **Faulkner J.A.**, Brooks S.V. and Zerba E. Skeletal muscle weakness, fatigue, and injury: inevitable concomitants of aging? In: Liber Amicorum - Hermes XXI. J. Ghesquire, and J. Tolleneer, Eds., Leuven, Belgium, pp 269-280, 1990.
46. **Faulkner J.A.**, Brooks S.V. and Zerba E. Skeletal muscle weakness in old age: underlying mechanisms. In: Annual Review of Gerontology and Geriatrics. V.J. Cristofalo, and M. Powell Lawton, Eds., Vol. 10, Springer Publishing Company, New York, pp 147-166, 1990.
45. Messina L.M. and **Faulkner J.A.** Skeletal muscle. In: Clinical Ischemic Syndromes. G. Zelenock, L. D'Alecy, and J. Stanley, Eds. C.V. Mosby Publishers, Chapter 24, 1989.
44. Carlson B.M., and **Faulkner J.A.** Skeletal muscle regeneration and aging. In: Proceedings of the First International Meeting on Functional Surgery of the Head and Neck. H. Kärcher, Ed., Graz, Austria, pp 131-134, 1989.
43. Caplan A., Carlson B.M., **Faulkner J.A.**, Fischman D. and Garrett W. Jr. Skeletal Muscle. In: Injury and Repair of the musculoskeletal soft tissues. S.L.Y. Woo, and J. Buckwalter, Eds. Am. Acad. of Orthopedic Surgeons, Park Ridge, Il., Chapter 6, 1988.
42. Burton H.W., Carlson B.M. and **Faulkner J.A.** Microcirculatory adaptation to skeletal muscle transplantation. Ann. Rev. Physiol., 49:439-451, 1987.
41. **Faulkner J.A.**, Claflin D.R. and McCully K.K. Muscle function in the cold. In: Hypoxia and Cold. Sutton, J.R., Houston, C.S., and Coates G. Eds., Praeger Publishers, New York, pp 429-442, 1987.
40. **Faulkner J.A.** Factors limiting performance at extreme altitude: Implications for elite athletes. In: Hypoxia and Cold. Sutton, J.R., Houston, C.S., and Coates, G. Eds., Praeger Publishers, New York, pp 516-530, 1987.
39. **Faulkner J.A.** Plasticity of regenerating and surviving skeletal muscle fibers. In: Proceedings of the 6th Biennial Conference, Muscle and Nerve Affecting Motor Performance. P. Russo, Ed. Cumberland College, Sydney, Australia, pp 1-12, 1987.
38. **Faulkner J.A.** Contraction-Induced injury to skeletal muscle fibers. In: Proceedings of the 6th Biennial Conference, Muscle and Nerve Factors Affecting Motor

- Performance. P. Russo and P. Balnave Eds. Cumberland College, Sydney, Australia, pp 140-151, 1987.
37. **Faulkner J.A.**, Guelinckx P.J., McCully K.K. and White T.P. Functional deficits in free and vascularized grafts. In: Proceedings of 2nd Vienna Muscle Symposium, Eds., M. Frey and G. Freilinger, Facultas Universitätsverlag, Vienna, pp. 68-74, 1986.
 36. Plummer E.A., Sing D.B., **Faulkner J.A.** and Sing C.F. Software for muscle transplant registry. In: Proceedings of 2nd Vienna Muscle Symposium, Eds., M. Frey and G. Freilinger, Facultas Universitätsverlag, Vienna, pp. 371-376, 1986.
 35. **Faulkner J.A.**, Claflin D.R. and McCully K.K. Peak and sustained power output at low muscle temperatures. In: Hypoxia, Exercise, and Altitude, Sutton, J.R., Houston, C.S. and Jones, N.L. Eds., Alan R. Liss, Inc., New York, pp. 429-437, 1986.
 34. **Faulkner J.A.** Elite athletes at high altitude. In: Hypoxia, Exercise, and Altitude, Sutton, J.R., Houston, C.S. and Jones, N.L., Eds., Alan R. Liss, Inc., New York, pp. 516-524, 1986.
 33. **Faulkner J.A.**, Claflin D.R. and McCully K.K. Power output of fast and slow fibers from human skeletal muscles. In: Human Power Output. Jones, N. L., McCartney, N., and McComas, J. Eds., Human Kinetics Publishers, Inc., Champaign, Illinois, pp. 81-91, 1986.
 32. Guelinckx J.P., **Faulkner J.A.** and Essig D., Rectus remoris muscles of rabbits autografted with microvascular repair with nerves intact or nerves anastomosed. In: Proceedings of the 2nd Vienna Muscle Symposium, M. Frey and G. Freilinger, Eds., Facultas Universitätsverlag, Vienna, pp. 75-83, 1986
 31. Burton H.W. and **Faulkner J.A.** Angiogenesis in skeletal muscle. In: News in Physiol. Sci., pp. 1:160-163, 1986.
 30. Edwards R.H.T. and **Faulkner J.A.** Structure and Function of the Respiratory Muscles. In: The Thorax: Vital Pump, (Part A), Roussos C, Ed., Marcel Dekker Inc., New York, pp. 297-326, 1985.
 29. **Faulkner J.A.** Structural and Functional Adaptations of Skeletal Muscle. In: The Thorax: Vital Pump, (Part B), Roussos C, Ed., Marcel Dekker Inc., New York, pp. 1329-1351, 1985.
 28. Guelinckx P.J. and **Faulkner J.A.** Adaptation of vascularized muscle transplants to a new receptor site. In: Proceedings of the Fifth International Symposium on the Facial Nerve, M. Portmann, Ed., Masson Pub. USA Inc., New York, pp. 559-563, 1985.
 27. **Faulkner J.A.** The Nature of the Stimulus for Adaptation. In: Frontiers of Exercise Biology, Borer KT, Edington DW, and White TP, Eds., Human Kinetics, Publ., Champaign, IL, pp. 4-14, 1983.
 26. **Faulkner J.A.** Fatigue of Skeletal Muscles. In: Proceedings Third International Banff Hypoxia Symposium. Jones N.L., Houston C., and Sutton J.R., Eds. Alan R. Liss, Inc., New York, pp. 243-255, 1983.
 25. Markley J.M. Jr. and **Faulkner J.A.** Transplanted Skeletal Muscle Regeneration in Primates with Clinical Correlation. In: Disorders of the Facial Nerve, M.D. Graham and W.F. House, eds., New York, Raven Press, pp. 507-518, 1982.

24. **Faulkner J.A.**, White T.P. and Markley J.M. Canadian Ski Marathon: a natural experiment in hypothermia. In: Exercise in Health and Disease-Balke Symposium. Nagle FJ and Montoye HJ, Eds. Charles C. Thomas, pp. 184-195 Springfield, Illinois, 1981.
23. **Faulkner J.A.** and White T.P. Current and future topics in exercise physiology. In: Perspectives on the Academic Discipline of Physical Education: A Tribute to G.L. Rarick. Brooks G.A, Ed., Human Kinetics Publ., Champaign, Illinois, Chapter 6, 1981.
22. **Faulkner J.A.**, Markley J.M. and White T.P. Skeletal Muscle Transplantation in Cats With and Without Nerve Repair. In: Muscle Transplantation. Freiling G., Holle J., and Carlson B.M., Eds., Springer-Verlag, New York, 1981.
21. **Faulkner J.A.** Heat and contractile properties of skeletal muscle. In: Environmental Physiology: Aging, Heat and Altitude. Horvath S., Yousef M., Eds., Elsevier North Holland, Inc., 1981.
20. **Faulkner J.A.** Physiologic performance capacity and medical aspects of sports. In: Hermes - Physical Fitness Research XIV, Ghesquiere J. and Van Gerven D., Eds., pp. 237-246, Leuven, 1981.
19. **Faulkner J.A.**, Jones D.A., Round J.M., and Edwards R.H.T. Dynamics of energetic processes in human muscle. In: International Symposium on Exercise, Bioenergetics, and Gas Exchange. Cerretelli P. and Whipp B.J., Eds. Milan, pp. 81-90, 1980.
18. **Faulkner J.A.**, Maxwell L.C., White T.P. and Niemeyer J.H. Characteristics of autografted mammalian skeletal muscles. In: Muscle Regeneration. Mauro A, et al., Eds. Raven Press, New York, pp. 485-492, 1979.
17. **Faulkner J.A.** Cardiac rehabilitation: major concerns in basic physiology. In: Heart Disease and Rehabilitation. Pollock ML and Schmidt DH, Eds., v-725, Houghton-Mifflin, Pacific Palisades, CA, pp. 663-677, 1979.
16. **Faulkner J.A.**, Maxwell L.C. and White T.P. Adaptations in skeletal muscle. In: Muscle Adaptation in the Craniofacial Region, Monograph #8, Craniofacial Growth series. McNamara JA, Jr, and Carlson DS, Eds. Center for Human Growth and Development, Ann Arbor, Michigan, 1978.
15. **Faulkner J.A.**, Brewer G.J. and Eaton J.W. Adaptation of the red blood cell to muscular exercise. In: Red Cell Metabolism and Function. Brewer G, Ed., Plenum Press, New York, pp. 213-227, 1970.
14. **Faulkner J.A.** Muscle fatigue. In: The Physiology and Biochemistry of Muscle as a Food, 2. Briskey EJ, Cassens RG, and Marsh BB, Eds. University of Wisconsin Press, Madison, Wisconsin, pp. 555-575, 1970.
13. **Faulkner J.A.** Maximum exercise at medium altitude. In: Frontiers in Fitness. Shephard RJ, editor. Charles C Thomas, Ch. 20, Springfield, Illinois, 1970.
12. **Faulkner J.A.** Physiology of swimming and diving. Chapter 15 in Exercise Physiology. Falls HB, Ed., Academic Press, New York, 1968.
11. Balke B., Daniels J.T. and **Faulkner J.A.** Training for maximum performance at altitude. In: Exercise at Altitude. Margaria R, editor. Excerpta Medica Foundation, New York, pp. 179-186, 1967.

10. **Faulkner J.A.** What Research Tells the Coach about Swimming. American Association for Health, Physical Education, and Recreation. Washington, D.C., pp. 56, 1967.
9. **Faulkner J.A.** Human performance in aquatics. Am. College Sports Med. Newsletter 1(2):4, 1966.
8. Montoye H.J., **Faulkner J.A.**, Willis P.W., Block W.D., Mikkelsen W.M. and Dodge H.J. Serum total cholesterol concentration in business executives: Intercorrelation with physical activity, serum uric acid and body fatness. Proceedings, XVI, World Congress of Sports Medicine, Hanover, June 1966.
7. **Faulkner J.A.** Training for Maximum Performance at Altitude. Proceedings of International Symposium of Effects of Altitude on Physical Performance. Albuquerque, December 1965.
6. **Faulkner J.A.** The physical fitness of executives. Michigan Business Review 16:30-33, Jan. 1964.
5. **Faulkner J.A.** The case for physical activity. School of Educ. Bull. 35:44-46, 1963.
4. **Faulkner J.A.** Motivation and athletic performance. Coaching Review 1:3-5, Sept. 1963.
3. **Faulkner J.A.**, Greey G.W., and Hunsicker P. Grand Rapids-Evaluation of the Health and Physical Education Program 1961-1962. Bureau of School Services, Univ. of Michigan, Ann Arbor.
2. **Faulkner J.A.** The development of Canadian swimmers of international caliber. J. Canadian Assn. Health, Physical Educ. and Recreation (2):5+, 1961-62.
1. **Faulkner J.A.** Editor of Canadian edition. Enjoying Health. Logmans Green and Company, Toronto, p. v-261, 1957, Toronto, p. v-261, 1957.

ABSTRACTS (Not published as full-length articles)

Faulkner J.A., Larkin L.M., Wellington M.S., Claflin D.R., Following lengthening contractions, force deficits of permeabilized single fibers from muscles of old women are greater than those from young women and are not reduced by training with shortening contractions. Experimental Biology Meeting, San Francisco, CA, April, 2006.

Hanes M.C., Weinzwieg J., Buchman S.R., Panter K., Faulkner J.A., Yu, D., Cederna P.S., Larkin L.M. The effect of repair on contractile properties of single permeabilized muscle fibers from congenitally-clefted goat palates. Experimental Biology Meeting, San Francisco, CA, April, 2006.

Larkin L.M., Cederna P.S., Claflin D.R., Faulkner J.A. Velocity of shortening accurately predicts myosin isoform in permeabilized single fibers from the vastus lateralis muscle in older women. Experimental Biology Meeting, San Francisco, CA, April, 2006.

Larkin L.M., Figueroa A., Ashton-Miller J.A., Horowitz J.F., Alexander N.B., Cederna P.S., Claflin D.R., Faulkner J.A. Effects of progressive resistance training on the contractile

function of permeabilized single muscle fibers from the vastus lateralis muscle of older women. Experimental Biology Meeting, San Francisco, CA, April, 2006.

Mendias C.L., Marcin J.E., Faulkner J.A. Contractile properties of skeletal muscles from myostatin deficient mice. Experimental Biology Meeting, San Francisco, CA, April, 2006.

Panchangam A, Claflin DR, Palmer ML, & Faulkner JA. Sarcomere length non-uniformity during active stretches of human permeabilized fibers. Biophysical Journal 90:158a, 2006.

Panchangam A, Witte R, Claflin DR, O'Donnell M, & Faulkner JA. A novel optical imaging system for investigating sarcomere dynamics in single skeletal muscle fibers. Proceedings of the Society of Photoinstrumentation Engineers 6088:CID-608808, 2006.

Rader E.P., Weinzweig J., Cederna P.S., McClellan W.T., Caterson S.A., Panter K., Yu, D., Buchman S.R., Larkin L.M., Faulkner J.A., Effect of surgery on the susceptibility of single permeabilized muscle fibers of congenitally-clefted goat palates to contraction-induced injury. Experimental Biology Meeting, San Francisco, CA, April, 2006.

Mendias C.L., Baar K., and Faulkner J.A. Myostatin increases collagen I expression in skeletal muscle myotubes and tendon-derived fibroblast cells. Federation of American Societies for Experimental Biology Summer Research Conference: TGF- β Superfamily Signaling and Development, Snowmass Village, CO, June, 2005.

Mendias C.L., Baar K., and Faulkner J.A. Myostatin increases procollagen content in tendon-derived fibroblast cells. XXXV International Congress of Physiological Sciences, San Diego, CA, April, 2005.

Rader, E. & Faulkner J.A. For muscles of young mice, an antioxidant, N-2-mercaptopropionyl glycine, reduces the initial damage from contraction-induced injury. Experimental Biology Annual Meeting, April, 2004.

Vasilaki A., McArdle A., van der Meulen J.H., Van Remmen H., Richardson A.G., Faulkner J.A. and Jackson M.J. Generation of reactive oxygen species (ROS) in contracting skeletal muscle: The effect of age. FASEB J. 18(4), A344. 2004.

Kostrominova, T.Y., Dow, D.E., Dennis, R.G., Miller, R.A. and Faulkner, J.A. Electrical stimulation of skeletal muscles attenuates denervation induced changes in gene expression. University of Washington Expression Array Workshop, June 24-25, 2004.

van der Meulen, J.H., McArdle, A., Van Remmen, H., Richardson, A.G., Jackson, M.J., Faulkner, J.A. Lengthening contractions increase superoxide anion production in EDL muscles of rats. Experimental Biology Annual Meeting April 2004.

Kostrominova, T.Y., Miller, R.A., and Faulkner, J.A. (2003). Regulation of Gene Expression in Skeletal Muscle with Denervation and Aging. The Gerontologist 43: 15. 56th Annual Scientific Meeting, San Diego, November 2003.

- Rader, E. and Faulkner, J.A. Recovery of weight-bearing muscles after contraction-induced injury in young and old mice. *FASEB Journal* A1277, 2003
- Kostrominova, K.Y., Miller, R.A. and Faulkner, J.A. Gene expression profiles for two month denervated and control skeletal muscles of rats. *Experimental Biology* 2003.
- Brooks S.V., Rashes S.A., and Faulkner J.A. Number of sarcomeres in series is unaffected by six weeks of conditioning with lengthening contractions. *Medicine and Science in Sports and Exercise*, 34:S205, 2002.
- Macpherson, P.C.D. and Faulkner, J.A. During stretches of single permeabilized muscle fibers from old compared with young rats, greater heterogeneity in sarcomere lengths predicts greater force deficits. *ACSM* 2001.
- Faulkner, J.A., Macpherson, P.C.D., Stucky, M.J., Claflin, D.R., Brooks, S.V., and Dennis, R.G. Sarcomere heterogeneity during stretches of passive and activated single permeabilized fibers from soleus muscles of young and old rats: mechanism of injury. *Society of Experimental Biology* 2000.
- Consolino, C.M., Faulkner, J.A., Duclos, F., Lee, J. Williamson, R., Campbell, K.P., and Brooks, S.V. Dramatic hypertrophy of small limb muscles in Ssga null mice is maintained with aging. *Biophysical Society* 2000.
- Consolino, C.M., Brooks, S.V., Duclos, F., Lee, J., Williamson, R., Campbell, K.P., and Faulkner, J.A. Functional deterioration of the diaphragm muscle of a-sarcoglycan-null mice with age. *Biophysical Society* 2000.
- Dow, D.E., Dennis, R.G., Hassett, C.A., and Faulkner, J.A. "Electrical stimulation protocol to maintain mass and contractile force of denervated muscles." *BMES-EMBS 1st Joint Conference, Session 6.1.2 Functional Neuromuscular Stimulation Paper 573*, 1999.
- Lynch, G.S., Hinkle, R.T., and Faulkner, J.A. Clenbuterol increases muscle mass but not specific force or normalized power output of fast and slow muscles of dystrophic *mdx* mice. *ACSM* 1998.
- van der Meulen, J.H., R.A. Miller, and J.A. Faulkner. The effect of gender, food intake and age on fatigability of dorsiflexor muscles in mice. *ACSM* 1997.
- Faulkner, J.A., S.V. Brooks, R.G. Dennis, W.M. Kuzon, S.T. Devor, G.S. Lynch, and P.C.D. Macpherson. Terminology in muscle mechanics: the case for miometric, isometric, and pliometric contractions. *ACSM* 1997.
- Macpherson, P.C.D., J.A. Faulkner, and R.G. Dennis. Electrical stimulation attenuates the effects of short-term denervation in soleus muscles of rats. *ACSM* 1997.
- Macpherson, P.C.D., R.G. Dennis, and J.A. Faulkner. Changes in impedance and excitability of soleus muscles from rats after 4 weeks of denervation. *FASEB* 1997.
- Lynch, G.S., and J.A. Faulkner. Contraction-induced injury to single fibers from mouse EDL and tibialis anterior muscles. *Biophysical J.* 70:A292, 1996.
- Devor, S.T., A. Ho, T.P. White, and J.A. Faulkner. Fiber number deficit in long term nerve-repaired vascularized medial gastrocnemius muscle grafts. *ACSM* 1996.

- van der Meulen, J. H., R.A. Miller, and J.A. Faulkner. Endurance of dorsiflexor muscles in calorie-restricted and ad libitum fed, genetically heterogeneous mice. *Med. Sci. Sports Exerc.* 28:S167.
- Hunter, K.D. and J.A. Faulkner. Injury to single muscle fibers by single pliometric contractions: role of initial fiber length. *ACSM* 1996.
- Asato, H., B.M. Carlson, W.M. Kuzon, and J.A. Faulkner. Motor unit properties of nerve-intact muscle grafts in old rats. In: *Proceedings of 4th International Muscle Symposium*, eds. M. Frey and P. Giovanoli, Universitätsspital, Zürich, pp 82-84, 1995
- Faulkner, J.A., S.V. Brooks, L. Larsson, R. Woledge, and A,B, Schultz. Impairments in the structure and function of skeletal muscle with aging. *ACSM* 1994.
- Faulkner, J.A., P.C.D. Macpherson, K.D. Hunter, and S.V. Brooks. Injury to skeletal muscle fibers: the common pathway of regeneration. *Fed. Proc.*, 1994.
- Macpherson P.C.D., Schultz A.B., and Faulkner J.A. A muscle contraction model: Predictions of age-related changes in elastic modulus and power. *Biophysical J.*, A297:1703, 1992.
- Zerba E., Ridings E.O., and Faulkner J.A. At different muscle temperatures, contraction-induced injury correlates with power absorption. *Fed. Proc.* 4:A815, 1990.
- Clafin D.R., Faulkner J.A., and Ward C.E. Force-velocity relationships for mouse soleus muscles during after-loaded and quick-released isotonic contractions. *J. Physiol. (London)*, 418:161P, 1989.
- Faulkner J.A., Clafin D.R., Jones D.A., and Burton H.W. Force-velocity of bundles of fiber segments from human skeletal muscles. *Fed. Proc.* 2:A939, 1988.
- Lian T.S., and Faulkner J.A. Lengthening contractions: Fibers in soleus muscles of young mice undergo injury. *Fed. Proc.* 46:812, 1987.
- Faulkner J.A., Sachdev N., Brooks S.V., and White T.P. Adaptation of soleus muscles to an atypical site and innervation: Comparison of regenerating and surviving fibers. *Fed. Proc.* 46:639, 1987.
- McCully K.K., Côté C., and Faulkner J.A. Oxidative capacity and fatigability of rat skeletal muscle. *Fed. Proc.* 42(4):995, 1983.
- White T.P., Hazeyama Y., Faulkner J.A., and Sparks H.V. Relationships between muscle blood flow, oxygen delivery and oxygen uptake during submaximal exercise in situ. *Med. Sci. Sports and Exercise* 12:126, 1980.
- White T.P., Faulkner J.A., and Villanacci J.F. Contractile properties of rat soleus and plantaris muscles following prolonged running. *The Physiologist* 23:96, 1980.
- White T.P., Pachtman S., Villanacci J.F., Faulkner J.A., and McNamara J.A. Blood flow of masticatory muscles of rhesus monkeys. *The Physiologist* 22:132, 1979.