

CURRICULUM VITAE

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PERSONAL DATA

Born: Philadelphia, PA; married; four children; U.S. citizen

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EDUCATION

B.S., Physics, St. Joseph's University, Philadelphia, PA, 1962

M.S., Biophysics, Syracuse University, Syracuse, NY, 1965

Ph.D., Biophysics, Syracuse University, Syracuse, NY, 1968

J.D., Law, Syracuse University College of Law, 1974

POSITIONS HELD

Research Biophysicist, Veterans Administration Medical Center, Syracuse, New York, 1964-1981

Assistant Professor, Department of Orthopaedic Surgery, SUNY Upstate Medical Center, Syracuse, New York, 1972-1981

Assistant Professor, Department of Orthopaedic Surgery, Louisiana State University Medical Center, Shreveport, Louisiana, 1981-1985

Associate Professor, Department of Orthopaedic Surgery, Louisiana State University Medical Center, Shreveport, Louisiana, 1985-1989

Associate Professor, Department of Bioengineering, Louisiana Tech University, Ruston, Louisiana, 1988-1994

Professor: Department of Orthopaedic Surgery, Louisiana State University Medical Center, Shreveport, Louisiana, 1989 to present

Department of Cellular Biology and Anatomy, Louisiana State University Medical Center, Shreveport, Louisiana, 1989 to present

Department of Bioengineering, Louisiana Tech University, Ruston, Louisiana, 1995-present

Chairman, LSU Medical School Institutional Review Board for Human Research, June, 1986-1990

Chairman, Committee on Promotions Guidelines, 1990-1992

Chairman, Medical Communications Committee, 1990-1992

President of the Faculty of the Medical School, 1991-1992, 1999-2000

Member, Elected Faculty Council, LSUMC, 1986-1992

Member, Institutional Animal Care and Use Committee, 1990-1996

Vice-President, International Society for Bioelectricity, 1981-1983

President, International Society for Bioelectricity, 1983-1991

Editorial Consultant in Biophysics and Medical Physics, Encyclopedia of Applied Physics, 1990-present

Editor, Journal of Bioelectricity, 1980-1991

Associate Editor, Journal of Electro- and Magnetobiology, 1991-2002

Associate Editor, Electromagnetic Medicine and Biology, 2002-present

Member, Advisory Board, Center for Frontier Sciences, Temple University, 1998-present

Member, Editorial Board, Center for Frontier Sciences, Temple University, 1998-present

BAR MEMBERSHIP:

New York, 1975-present

Louisiana, 1995-present

BOOKS

1. Electromagnetism & Life. with R.O. Becker. State University of New York Press, Albany, 1982.
2. Electric Wilderness. A.A. Marino and J. Ray. San Francisco Press, San Francisco, 1986.
3. Foundations of Modern Bioelectricity. A.A. Marino, ed. Marcel Dekker, New York, 1988.

LAW REVIEW

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PATENTS

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PAPERS

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156. Mobile-phone pulse triggers evoked potentials. S. Carrubba, C. Frilot II, A.L. Chesson Jr. & A.A. Marino. *Neurosci Lett.* 469:164–168, 2010.
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154. The effects of mobile-phone electromagnetic fields on brain electrical activity: a critical analysis of the literature. A.A. Marino & S. Carrubba. *Electromagnetic Medicine and Biology*, In Press, 2009.
153. Evidence that transduction of electromagnetic field is mediated by a force receptor. A.A. Marino, S. Carrubba, C. Frilot & A.L. Chesson Jr. *Neurosci. Lett.* 452:119–123, 2009.
152. Magnetosensory function in rats: localization using positron emission tomography. C. Frilot II, S. Carrubba & A.A. Marino. *Synapse* 63:421–428, 2009.
151. Neurobiophysics. O.V. Kolomytkin & A.A. Marino. In *Handbook of Molecular Biophysics. Methods and Applications*. H.G. Bohr, Ed. Wiley VCH, 2009, pp. 523–556.
150. Hyaluronan-binding receptors: possible involvement in osteoarthritis. S. Dunn, O.V. Kolomytkin, D.D. Waddell & A.A. Marino. *Mod. Rheumatol.* 19:151–155, 2009.
149. Method for detection of changes in the EEG induced by the presence of sensory stimuli. S. Carrubba, C. Frilot, A.L. Chesson Jr. & A.A. Marino. *J. Neurosci Methods.* 173:41–46, 2008.
148. Design and implementation of a system-based course in musculoskeletal medicine for medical students. K. Bilderback, J. Eggerstedt, K.K. Sadasivan, L. Seelig, R. Wolf, S. Barton, R. McCall, A.L. Chesson, Jr. & A.A. Marino. *J. Bone Joint Surg.* 90:2292–2300, 2008.
147. The effects of low-frequency environmental-strength electromagnetic fields on brain electrical activity: a critical review of the literature. S. Carrubba & A.A. Marino. *Electromag. Biol. Med.* 27:83–101, 2008.
146. Magnetosensory evoked potentials: consistent nonlinear phenomena. S. Carrubba, C. Frilot, A.L. Chesson, Jr., C.L. Webber, Jr., J.P. Zbilut & A.A. Marino. *Neurosci. Res.* 60:95–105, 2008.
145. Hyaluronan suppresses IL-1 β -induced metalloproteinase activity from synovial tissue. D.D. Waddell, O.V. Kolomytkin, S. Dunn & A.A. Marino. *Clin. Orthop.* 465:241–248, 2007.
144. Chronic knee effusions in patients with advanced osteoarthritis. D.D. Waddell & A.A. Marino. *J. Knee Surg.* 20:181–184, 2007.

143. Nonlinear EEG activation by low-strength low-frequency magnetic fields. S. Carrubba, C. Frilot, A.L. Chesson & A.A. Marino. *Neurosci. Lett.* 417:212–216, 2007.
142. Glycoproteins bound to ion channels mediate detection of electric fields: a proposed mechanism and supporting evidence. O.V. Kolomytkin, S. Dunn, F.X. Hart, C. Frilot, D. Kolomytkin & A.A. Marino. *Bioelectromagnetics* 28:379–385, 2007.
141. Evidence of a nonlinear human magnetic sense. S. Carrubba, C. Frilot II, A.L. Chesson Jr. & A.A. Marino. *Neuroscience* 144:356–367, 2007.
140. Detection of nonlinear event-related potentials. S. Carrubba, C. Frilot, A. Chesson & A.A. Marino. *J. Neurosci. Meth.* 157:39–47, 2006.
139. Assessment of immunologic mechanisms for flare reactions to Synvisc®. A.A. Marino, D.D. Waddell, O.V. Kolomytkin, S. Pruet, K.K. Sadasivan & J.A. Albright. *Clin. Orthop.* 442:187–194, 2006.
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137. Effect of low-frequency magnetic fields on brain electrical activity in human subjects. A.A. Marino, E. Nilsen, A.L. Chesson Jr., & C. Frilot. *Clin. Neurophysiol.* 115:1195–1201, 2004.
136. Increased intercellular communication through gap junctions may contribute to progression of osteoarthritis. A.A. Marino, D.D. Waddell, O.V. Kolomytkin, W.D. Meek, R. Wolf, K.K. Sadasivan & J.A. Albright. *Clin. Orthop.* 422:224–232, 2004.
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132. Comment on “Proposed test for detection of nonlinear responses in biological preparations exposed to RF energy.” A.A. Marino & C. Frilot. *Bioelectromagnetics* 24:70–72, 2003.
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103. Different outcomes in biological experiments involving weak EMFs: Is chaos a possible explanation? A.A. Marino. *Am. J. Physiol.* 268 (Regulatory Integrative Comp. Physiol. 37: R1013–R1018, 1995.
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98. A comparative study of osseointegration of titanium implants in corticocancellous block and corticocancellous chip grafts in canine ilium. D. Lew, A.A. Marino, J.M. Startzell & J.C. Keller. *J. Oral Maxillofac. Surg.* 52:952–958, 1994.
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96. Frequency-specific responses in the human brain caused by electromagnetic fields. G.B. Bell, A.A. Marino & A.L. Chesson. *J. Neurol. Sci.* 123:26–32, 1994.
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94. Potassium channels in epithelial cells. I.G. Iliev & A.A. Marino. *Cell. and Mol. Biol. Res.* 39:601–611, 1993.
93. Electromagnetic fields, cancer, and the theory of neuroendocrine-related promotion. A.A. Marino. *Bioelectrochem. Bioenerg.* 29:255–276, 1993.
92. Alterations in brain electrical activity caused by magnetic fields: detecting the detection process. G.B. Bell, A.A. Marino & A.L. Chesson. *Electroencephalog. Clin. Neurophysiol.* 83: 389–397, 1992.

91. Electrochemical modification of tumor growth in mice. D.M. Morris, A.A. Marino & E. Gonzalez. *J. Surg. Res.* 53:306–309, 1992.
90. Electrical states in the rabbit brain can be altered by light and electromagnetic fields. G. Bell, A.A. Marino, A. Chesson & F. Struve. *Brain Res.* 570:307–315, 1992.
89. Human sensitivity to weak magnetic fields. G. Bell, A.A. Marino, A. Chesson & F. Struve. *Lancet* 338:1521–1522, 1991.
88. The effect of electrical stimulation on bone formation around hydroxyapatite implants placed on the rabbit mandible. D. Lew & A. Marino. *J. Oral Maxillofac. Surg.* 49:735–739, 1991.
87. Use of carbon fibers in the reconstruction of knee ligaments. P. Demmer, M. Fowler & A.A. Marino. *Clin. Orthop.* 271:225–232, 1991.
86. Meta-analysis of multi-generational studies in mice exposed to power-frequency electric fields. A.A. Marino. *J. Bioelectricity* 9:213–231, 1990.
85. Bioelectricity. A.A. Marino. *Collier's Encyclopedia*, 1990.
84. Use of carbon fibers for repair of abdominal-wall defects in rats. D.M. Morris, A.A. Marino, R. Haskins, R. Misra, S. Rogers, S. Fronczak & J.A. Albright. *Surgery* 107:627–631, 1990.
83. Exposure system for the production of uniform magnetic fields. G.B. Bell & A.A. Marino. *J. Bioelectricity* 8:147–158, 1989.
82. Piezoelectricity in cementum, dentin, and bone. A.A. Marino & B.D. Gross. *Arch. Oral Biol.* 34:507–509, 1989.
81. Use of carbon fibers for the repair of bowed tendons: a preliminary report. S.S. van den Berg, K.P. Reed & A. Marino. *J. Equine Surg.* 8:339–340, 1988.
80. Quasi-static charge interactions in bone. A.A. Marino, J. Rosson, E. Gonzalez, L. Jones, S. Rogers & E. Fukada. *J. Electrostatics* 21:347–360, 1988.
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74. Slow healing fractures: can they be prevented? G. Fontanesi, G.C. Traina, F. Giancetti, I. Tartaglia, R. Rotini, B. Virgili, R. Cadossi, G. Ceccherelli & A.A. Marino. *Ital J Orthop Traumatol* 12(3):371–385, 1986.
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68. Penetration of electric fields into a concentric-sphere model of biological tissue. F.X. Hart & A.A. Marino. *Med. & Biol. Eng. & Comput.* 24:105–108, 1985.
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46. Fracture healing in rats exposed to extremely low frequency electric fields. A.A. Marino, J.M. Cullen, M. Reichmanis & R.O. Becker. *Clin. Orthop.* 145: 239–244, 1979.
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ABSTRACTS, EDITORIALS, & REPLIES

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