

Richard Morales Ozuna, M.D.
The Spine Center at Sports Medicine North
One Orthopedics Drive
Peabody, MA 01960
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EDUCATION

1988	Harvard Medical School Doctorate of Medicine	Boston, Massachusetts
1984	Pepperdine University Bachelor of Science in Biology and Chemistry	Malibu, California

POSTDOCTORAL TRAINING

1994-95	University of California, Los Angeles Spinal Surgery Fellowship	Los Angeles, California
1994	Brigham and Women's Hospital Orthopaedic Surgery Chief Resident	Boston, Massachusetts
1989-93	Harvard Combined Orthopaedic Program Orthopaedic Surgical Residency	Boston, Massachusetts
1988-89	Massachusetts General Hospital General Surgical Internship	Boston, Massachusetts

AWARDS

1998	North American Spine Society Research Grant	Boston, Massachusetts
1986	Harvard Medical School The Claude Vilee, M.D. Research Fellowship	Boston, Massachusetts
1980-84	Pepperdine University Magna Cum Laude; Outstanding Graduating Science Student; Achievement Rewards for College Scientists (ARCS) Scholar; Alpha Chi Scholar; Phi Eta Sigma Scholar; Dean's List (11 times)	Malibu, California

CERTIFICATION AND LICENSURE

1998	American Board of Orthopaedic Surgery, Certified July 15,1998	Chicago, Illinois
1994	California Medical License (Inactive)	

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1990 Massachusetts Medical License (Active)

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CURRENT POSITION

2003-	Spine Surgery Staff New England Baptist Hospital	Boston, Massachusetts
1999-	Director of Spine Center Sports Medicine North	Peabody, Massachusetts
1997-2003	Chief of Spinal Surgery Brigham and Women's Hospital Department of Orthopedic Surgery	Boston, Massachusetts
1997-2003	Clinical Instructor in Orthopaedic Surgery Harvard Medical School	Boston, Massachusetts

RESEARCH AND EMPLOYMENT

2002-2004	Boston Spine Group New England Baptist Hospital	Boston, Massachusetts
1999-	Director of Spine Center Sports Medicine North	Peabody, Massachusetts
1997-2003	Brigham Orthopedic Associates Director of Spine Surgery Services Department of Orthopedic Surgery	Boston, Massachusetts
1995-97	Orthopaedic and Spine Associates Private Practice	New Port Richey, Florida
1994	Brigham and Women's Hospital Orthopaedic Surgery Chief Resident	Boston, Massachusetts
1986-94	Brigham and Women's Hospital Orthopaedic surgery clinical and laboratory research	Boston, Massachusetts
1982-84	Pepperdine University Plant Physiology Research; Organic Chemistry Research; Organic Chemistry Laboratory Instructor; Biochemistry Laboratory Instructor; Private Tutor in Chemistry, Calculus, and Algebra	Malibu, California

PRESENTATIONS

- 2004 Autograft and Bone Graft Extenders. Presented at the University of Florida Disorders of the Spine Course, Whistler, BC
- 2003 Posterior Ligamentous Tension During Flexion of Human Cadaver Cervical Spine Specimens. Presented at the 2003 Cervical Spine Research Society
- 2003 Biology of Disc Degeneration, Presented at the University of Florida Disorders of the Spine Course, Whistler, BC and EBI Spine Symposium, Las Vegas, NV.
- 2002 Biology of Fusion, Presented at the University of Florida Disorders of the Spine Course, Whistler, BC and EBI Spine Symposium, Las Vegas, NV.
- 2002 Randomized Multi-Center Study for the Treatment of Lumbar Spinal Stenosis with the X STOP Interspinous Spacer: 1-Year Results, Presented at the 2002 Annual Meeting of the European Spine Society
- 2002 The Quality of Life of Lumbar Stenosis Patients Treated with the X Stop interspinous spacer. Presented at the 2002 North American Spine Society annual meeting
- 2001 Proteoglycan Synthesized by Adult Canine Anulus Fibrosus Cells in a Collagen-Glycosaminoglycan Matrix. Presented at the 2001 Cervical Spine Research Society.
- 2001 Proteoglycan Synthesized by Adult Canine Intervertebral Disc Cells in a Collagen-Glycosaminoglycan Matrix. Presented at the 2001 NASS Society.
- 2001 Instructional Course Lectures: Cervical Spine Trauma. Presented at the Annual Meeting of the American Academy of Orthopaedic Surgeons
- 2000 Ankylosing Spondylitis; Regional Anesthesia Grand Rounds
- 2000 Cervical Radiculopathy; Rheumatology Grand Rounds
- 2000 Instructional Course Lectures: Cervical Spine Trauma. Presented at the Annual Meeting of the American Academy of Orthopaedic Surgeons
- 1999 Regional Differences in Certain Cellular Characteristics in Human Lumbar Intervertebral Discs, Presented at the International Society for the Study of the Lumbar Spine annual meeting.
- 1999 Cell Outgrowth from Annulus Explants in 2-D and 3-D Cultures. Presented at the North American Spine Society (NASS) annual meeting.

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- 1999 Endoscopically Assisted Posterolateral Fusion and Instrumentation: A Feasibility Study. Presented at the 1999 NASS meeting.
- 1999 Endoscopically Assisted Posterolateral Fusion with Pedicle Screw Instrumentation, Presented at the 1999 International Society for Minimal Intervention in Spinal Surgery.
- 1999 Current Concepts in the Management of Cervical Spine Disorders, General surgery grand rounds, Brigham and Women's Hospital
- 1999 Making Old Backs New, Brigham and Women's Hospital Health Education and Outreach: Spring Lecture Series
- 1999 Management of the Fractured Spine, Spinal Cord Injury Medicine: Eighth Symposium
- 1999 Spine Surgery: The Minimally Invasive Version, Grand rounds Union Hospital May 1999.
- 1999 Cervical Spondylotic Myelopathy, Presented at the 1999 Beijing-Shanghai-Boston Symposium.
- 1999 New Concepts in the Treatment of Herniated Lumbar Discs. Presented at the 1999 Beijing-Shanghai-Boston Symposium.
- 1999 Regional Differences in Certain Cellular Characteristics in Human Lumbar Intervertebral Discs. Abstract presented at the 1999 Orthopaedic Research Society.
- 1998 Surgical Treatment of SCI, Presented to the spinal cord unit physicians and residents of the West Roxbury VA, October 1998.
- 1998 Lower Cervical Spine Injuries, New England Fracture Forum, October 1998
- 1998 The Spine: an Overview, Presented to Harvard Medical School surgical clerkship, February 1998, May 1998, July 1998.
- 1995 Carriers for Bone Morphogenetic Protein for Posterolateral Spinal Fusion. Abstract presented at the 1995 Scoliosis Research Society, and North American Spine Society
- 1995 Experimental Spinal Fusions with Recombinant BMP: Is Decortication Necessary? Abstract presented at the 1995 Scoliosis Research Society, and North American Spine Society
- 1994 Conversion of Unicompartmental Knee Arthroplasty to Total Knee Arthroplasty. Abstract presented at the 1994 American Academy of Orthopaedic Surgeons, March 1994.
- 1993 Protein Adsorption to Titanium Particles Facilitates Receptor-Mediated Phagocytosis

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and Endocytosis by Rat Peritoneal Macrophages. Abstract presented at the 39th Annual Meeting of the Orthopaedic Research Society, February 1993.

- 1992 The Effect of Adhesion Proteins on Phagocytosis of Titanium Particles by Rat Peritoneal Macrophages. Abstract presented at the GORDEN Conference.
- 1992 Analysis of Metallic Wear Debris Retrieved at Revision Arthroplasty. Abstract presented at the Implant Retrieval Symposium of the SOCIETY FOR BIOMATERIALS.
- 1992 Two Stage Reimplantation for Infected Total Knee Arthroplasty. Abstract presented at the American Academy of Orthopaedic Surgeons and The Knee Society Annual Meetings.
- 1991 Biological Reaction to Particles Around Loose Prostheses in Human Subjects Presentation at the Total Knee Replacement Conference, Cambridge, Massachusetts.
- 1983 Analysis of Guard Cell Viability and Action in Senescing Leaves of *Nicotiana glauca* (Graham), Tree Tobacco. Presented at the Santa Clara Undergraduate Research Conference, Santa Clara, California.

PUBLICATIONS

1. R. Ozuna, R. Yera, K. Ortega, G. Tallman. Analysis of Guard Cell Viability and Action in Senescing Leaves of *Nicotiana glauca* (Graham), Tree Tobacco. *Plant Physiology* (1985) 79: 7-10.
2. T.S. Thornhill, R. M. Ozuna, S. Shortkroff, K. Keller, C.B. Sledge, M. Spector. Biochemical and Histological Evaluation of the Synovial-like Tissue Around Failed (Loose) Total Joint Replacement Prostheses in Human Subjects and a Canine Model. *Biomaterials* 1990, vol 11: 69-70.
3. R. M. Ozuna, R. B. Delamarter. Pyogenic Vertebral Osteomyelitis and Postsurgical Disc Space Infections. *The Orthopedic Clinics of North America* (1996) 1:87-94
4. R. M. Ozuna, R. B. Delamarter. Cervical Laminoplasty for Cervical Myeloradiculopathy. *Operative Techniques in Orthopaedics*, Jan. 1996:38-45.
5. W.N. Levine, R. M. Ozuna, R.D. Scott, T.S. Thornhill. Conversion of Unicdylar Knee Arthroplasty to Total Knee Arthroplasty. *J Arthroplasty*, Oct 1996 11(7):797-801
6. P. Kloen, J.D. Patterson, B.I. Wintman, R.M. Ozuna, G.B. Brick. Closed Cervical Spine Trauma Associated with Bilateral Vertebral Artery Injuries. *Arch Orthop Trauma Surg* (1999) 119:478-481.

7. M. Vostrejs, R. Ozuna, The Role of Instrumentation in The Degenerative Lumbar Spine, *Current Opinions in Orthopedics* 1999, April 1999.
8. K. Chin, R. Ozuna, Options in the Surgical Treatment of Cervical Spondylotic Myelopathy, *Current Opinions in Orthopedics* 2000, 11:151-157.
9. K Lewandrowski, R. Ozuna, F Pedlow, A. Hecht, Advances in the biology of Spinal Fusion: Growth Factors and Gene Therapy, *Current Opinions in Orthopedics* 2000, 11:167-175.
10. D. Hastreiter, R. Ozuna, M. Spector, Regional Variations in Certain Cellular Characteristics in Human Lumbar Intervertebral Discs: Cells Containing Alpha-Smooth Muscle Actin, *Journal of Orthopedic Research* July 2001, 19(4) 597-604.
11. D. Hastreiter, J. Chao, Q. Wang, M. Spector, R. Ozuna,; Alpha-Smooth Muscle Actin Expression in Pathological Human Lumbar Disc Nucleus Pulposus *In Vivo and In Vitro*, (Accepted for publication in the *Journal of Orthopedic Research*)
12. J. Zucherman, K. Hsu, C. Hartijen, T. Mehalic, D. Implicito, M. Martin, D. Johnson, Skidmore, P Vessa, J Dwyer, S. Puccio, J. Cauthen, R. Ozuna; A Prospective Randomized Multi-Center Study for the Treatment of Lumbar Spinal Stenosis with the X-STOP Interspinous Spacer: 1-Year Results, *European Spine Journal* February 2004 Feb;13(1):22-31.
13. J. Zucherman, K. Hsu, C. Hartijen, T. Mehalic, D. Implicito, M. Martin, D. Johnson, G. Skidmore, P Vessa, J Dwyer, S. Puccio, J. Cauthen, R. Ozuna; A Prospective Randomized Multi-Center Study for the Treatment of Lumbar Spinal Stenosis with the X-STOP Interspinous Spacer: 2-Year Results, (Manuscript in Preparation).
14. H. Sandu, R. M. Ozuna, R.B. Delamarter, L. Kamin, E. Dawson. Experimental Spinal Fusions with Recombinant BMP: Is Decortication Necessary? (Manuscript in preparation).
15. P. Tyrance, K. Chin, R. Ozuna; Spinal Stenosis: A novel radiographic analysis (Manuscript in preparation).
16. R. Hurford, R. Ozuna; Cervical Flexion and Extension Radiographs: When are They Adequate? (Manuscript in preparation)
17. J. Zucherman, K. Hsu, C. Hartijen, T. Mehalic, D. Implicito, M. Martin, D. Johnson, Skidmore, P Vessa, J Dwyer, S. Puccio, J. Cauthen, R. Ozuna; A Prospective Randomized Multi-Center Study for the Treatment of Lumbar Spinal Stenosis with the X-STOP Interspinous Spacer: 2-Year Results, *Spine Journal* June 2005, 30(12) 1351-8.

ABSTRACTS

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1. T.S. Thornhill, R. M. Ozuna, S. Shortkroff, K. Keller, C.B. Sledge, M. Spector. Analysis of Metallic Wear Debris Retrieved at Revision Arthroplasty. Abstract presented at the Implant Retrieval Symposium of the SOCIETY FOR BIOMATERIALS, 1992.
2. S. Shortkroff, R. M. Ozuna, T.S. Thornhill, C.B. Sledge, M. Spector. The Effect of Adhesion Proteins on Phagocytosis of Titanium Particles by Rat Peritoneal Macrophages. Abstract presented at the GORDEN Conference, 1992.
3. SH Dysart, RM Ozuna, P Tsahaukis, TS Thornhill, GW Brick. Two Stage Reimplantation for Infected Total Knee Arthroplasty. Ortho Trans. 1992-93; 16, #3, 679.
4. R. M. Ozuna, S. Shortkroff, C.M. Vivereiros, M. Spector, T.S. Thornhill. Protein Adsorption to Titanium Particles Facilitates Receptor-Mediated Phagocytosis and Endocytosis by Rat Peritoneal Macrophages. Ortho Trans. 1993-94; 17, #3, 792.
5. W.N. Levine, R. M. Ozuna, R.D. Scott, T.S. Thornhill. Conversion of Unicondylar Knee Arthroplasty to Total Knee Arthroplasty. Ortho Trans. 1994-95; 18, #4, 1082.
6. H. Sandu, R. M. Ozuna, R.B. Delamarter, L. Kamin, E. Dawson. Carriers for Bone Morphogenetic Protein for Posterolateral Spinal Fusion. Abstract presented at the 1995 Scoliosis Research Society, and North American Spine Society.
7. H. Sandu, R. M. Ozuna, R.B. Delamarter, L. Kamin, E. Dawson. Experimental Spinal Fusions with Recombinant BMP: Is Decortication Necessary? Abstract presented at the 1995 Scoliosis Research Society, and North American Spine Society.
8. D. Hastreiter, R. Ozuna, S Shortkroff, M. Spector, Regional Differences in Certain Cellular Characteristics in Human Lumbar Intervertebral Discs, Abstract to presented at the 1999 Orthopaedic Research Society annual meeting.
9. D. Hastreiter, R. Ozuna, S Shortkroff, M. Spector, Regional Differences in Certain Cellular Characteristics in Human Lumbar Intervertebral Discs, Presented at the 1999 International Society for the Study of the Lumbar Spine annual meeting.
10. D. Hastreiter, M. Spector, R. Ozuna, Cell Outgrowth from Annulus Explants in 2-D and 3-D Cultures. Presented at the 1999 NASS meeting.
11. J. Knirk, D Bohrer, T Davidson, R. Ozuna, Endoscopically Assisted Posterolateral Fusion and Instrumentation: A Feasibility Study. Presented at the 1999 NASS meeting.
12. R. Ozuna, J. Knirk, Endoscopically Assisted Posterolateral Fusion with Pedicle Screw Instrumentation, Presented at the 1999 International Society for Minimal Intervention in Spinal Surgery.

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13. D. Hastreiter, M. Spector, R. Ozuna; Intervertebral Disc Annulus Explants in 2-D and 3- D Culture on Collagen-GAG Matrix Under Varying Medium Conditions, Presented at the 2001 Society for Biomaterials Meeting.
14. Y.Rong, G. Sugumaran, J. Silbert, D. Hastreiter, M Spector, R. Ozuna; Proteoglycan Synthesized by Adult Canine Anulus Fibrosus Cells in a Collagen-Glycosaminoglycan Matrix. Presented at the 2001 Cervical Spine Research Society.
15. Y.Rong, G. Sugumaran, J. Silbert, D. Hastreiter, M Spector, R. Ozuna; Proteoglycan Synthesized by Adult Canine Intervertebral Disc Cells in a Collagen-Glycosaminoglycan Matrix. Presented at the 2001 North American Spine Society.
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18. R. Hurford, R. Ozuna; Posterior Ligamentous Tension During Flexion of Human Cadaver Cervical Spine Specimens. Presented at the 2003 Cervical Spine Research Society.