

Jason Louis Drago, MD

University of Colorado School of Medicine
12631 E. 17th Avenue, Mail Stop B202
Aurora, CO 80045

Academic History

Colleges and universities attended, degrees received, dates

- 1988-1992 Cal Poly State University
BS, Biological Sciences/Sports Medicine
Summa Cum Laude
- 1994-1998 University of Arizona, College of Medicine
Doctor of Medicine
USMLE Step 1 (6/96) 243-98th percentile

Post-doctoral and residency training

- 1998-2004 University of California, Los Angeles
Department of Orthopaedic Surgery
Orthopaedic Surgery Residency
- 2000-2001 University of California, Los Angeles
Department of Orthopaedic Surgery
Basic Science Fellowship
- 2004-2005 Steadman-Hawkins Sports Medicine Foundation
Vail, Colorado
Sports Medicine Fellowship

Scholarships and honors during educational years

- 1989-1992 President's List, Cal Poly
- 1992 Academic Excellence Award, Cal Poly
- 1992 Outstanding Biological Sciences Student, Cal Poly
- 1996 McGraw-Hill Award-Top student in the basic sciences
University of Arizona College of Medicine
- 1996 Junior Alpha Omega Alpha Honor Society
University of Arizona College of Medicine
- 1998 Bernard Revsin Scholarship Award for Academic Excellence

University of Arizona College of Medicine

- 1998 University of Arizona Foundation
Top Medical Student at Graduation
University of Arizona College of Medicine
- 2002 Aventis Orthopaedic Resident Scholarship
UCLA Department of Orthopaedics
- 2001 American College of Surgeons
“Best and Brightest: Current Research in Surgery. Award-Winning
Studies by California Surgeons and Residents”
First Prize-Best Overall Manuscript
Scientific Meeting, San Diego Chapter
- 2001 American Orthopaedic Association
Zimmer Resident Research Award
Annual AOA Meeting
Palm Beach, Florida
- 2002 California Orthopaedic Association
Orthopaedic Hospital Resident Award
Annual Meeting,
Palm Springs, California
- 2002 American Orthopaedic Association
Zimmer Resident Research Award
Annual AOA Meeting
Victoria, British Columbia
- 2002 Best Basic Science Manuscript Award
Smith and Nephew National Resident Research Awards
Residents Conference
Memphis, Tennessee
- 2004 Edgar Dawson Memorial Award
Most Outstanding Orthopaedic Surgery Resident- Peer Selected

Board Certification

Board Certified American Board of Orthopaedic Surgery

Subspecialty Certification Orthopaedic Sports Medicine,
American Board of Orthopaedic Surgery

Research grants

2003 Shriners Hospital for Children Educational Grant
Investigation of treatments for osteochondral defects in children using stem cells (PI)

2004 Arthroscopy Association of North America Research Grant Award, \$25,000 (PI)

2005 InScope Innovative Scientific Centers of Orthopaedic Excellence, Orthopaedic Research Grant, \$30,000 (PI)

2006 Omeros Corporation Clinical Grant to study post-operative pain control after ACL reconstruction, \$142,000 (PI)

2010 Partnership for clean competition, World Anti-Doping Association Grant- \$36,000 (PI)

2010 Ossur of the Americas Osteoarthritis Grant- \$120,000 (PI)

2012 Sanofi-Stanford BioSTAR Program Grant- \$150,000 (Co-PI)
Rapid and Durable Integration of Cartilage Implants Using Photochemical Bonding

2012 NIH R21-AR06387601A1- \$500,000 (Co-PI)
Rapid Integration of Articular Cartilage Implants Using Photochemical Bonding

2012 Ossur Grant- \$171,158 (PI)
The Effect of Offloader Bracing on Microfracture Results

2012 NIH R01-AR052784-\$4,000,000 (Investigator)
Enhanced Clinical Diagnosis of Early Osteoarthritis

2013 NIH R01-AR063643- \$2,885,979 (Investigator)
Quantitative 3D Diffusion and Relaxometry using MRI of the Knee

2015 NIH R21-AR066302- \$434,199 (Investigator)
Tracking Mesenchymal Stem Cells with MR Imaging: Clinical Translation

2015	NIH R13-AR067045-01A1- ~\$20,000 (Co-PI) Biologic Treatments for Orthopaedic Injuries
2016	AOSSM Sandy Kirkley Research Grant Award (PI) - \$20,000 Adipose Derived Stem Cell Randomized Clinical Trial
2018	DOD PR171647- GRANT12511894 \$ 638,791(Co-PI) Novel Strategies to Combat Post-traumatic Osteoarthritis (PTOA)
2018	Zimmer Biomet (PI) \$703,943 Randomized Controlled Trial of meniscectomy with or without Subchondroplasty

Employment History

2005-2012	Assistant Professor Stanford University Department of Orthopaedic Surgery Division of Sports Medicine Palo Alto, CA
2012-2019	Associate Professor Stanford University Department of Orthopaedic Surgery Division of Sports Medicine Palo Alto, CA
2019-current	Professor Vice Chair of Academic Affairs Endowed Chair of Regenerative Medicine Department of Orthopaedic Surgery University of Colorado

Public and Professional Service

1990-1992	Athletic Trainer Cal Poly Athletic Department
1993	Football Coach McClintock High School Tempe, AZ
1994-1996	Headstart Physical Exam and Wellness Program Phoenix, AZ
1994-1997	Founder Arizona Sports Medicine Community Education Program

	Phoenix, AZ
1994-1997	High School Physical Exam Program Phoenix, AZ
1995	American College of Physicians Summer Internal Medicine Externship Program
2004	Clinical Advisory Panel Sanofi-Synthelabo LLC Evaluation of efficacy of Factor Xa Inhibitors on Orthopaedic Surgery
2004-Present	Physician US Ski Team
2004	Sideline Physician Denver Broncos Training Camp
2004	Team Physician Battle Mountain High School Eagle-Vail, CO
2004	Team Physician Colorado Rockies Training Camp
2005	Head Orthopaedic Surgeon Tucson Professional Rodeo
2007-2019	Head Team Physician Stanford University Football Program, Stanford University Athletics
2007-present	Journal Reviewer Tissue Engineering
2007	Journal Reviewer Physician and Sports Medicine
2008-present	Journal Reviewer American Journal of Sports Medicine
2010-present	Level III physician, US Olympic Committee
2011-2015	Elected, Research Committee American Orthopaedic Society for Sports Medicine

2011	Editor, Modern Arthroscopy Textbook InTech Publishing
2011	American Academy of Orthopaedic Surgery Now Worldwide PRP Consensus Panel member
2012-present	Elected, Editorial Board American Journal of Sports Medicine
2015-present	Elected, American Academy of Orthopaedic Surgery Biologics and Regenerative Medicine Committee
2015-present	Board of Directors, Chairman-elect (2019) PAC 12 Conference Student Health and Wellness Committee
2018-present	Elected, American Arthroscopy Association of North America Education Committee
2018-present	Elected, American Orthopaedic Society for Sports Medicine Team Physician Committee
2018-present	Elected, Chairman Biologic Association
2018-present	Chairman AOSSM OrthoBiologics Symposium
2019-present	Vice Chair, Academic Affairs University of Colorado School of Medicine Department of Orthopedic Surgery
2019-present	Director, UCHealth Steadman Hawkins Center University of Colorado
2019-present	Head Team Physician, Denver Nuggets, NBA
2019-present	Head Orthopedic Team Physician, Colorado Rapids, MLS
2019-present 2020-present	Team Physician, Denver Broncos Nuggets NFL Editor, Basic Science Curriculum Development National Resident Education Program, AAOS

Post-Degree Honors and Awards, including Memberships in Professional Organizations

2005	InScope Innovative Scientific Centers of Orthopaedic Excellence Orthopaedic Award
2005-2007	Member, Arthroscopy Association of North America
2005-present	Member, American Orthopaedic Society of Sports Medicine
2006	Bone and Joint Decade Young Investigator Award, Toronto
2006	Smith and Nephew Research Award
2006-present	Member, International Cartilage Repair Society
2008	Listed, Consumers Research Council of America's "Top US Orthopaedic Surgeons"
2004	AOSSM/ESSKA European Traveling Fellowship Award
2010	American Orthopaedic Society for Sports Medicine Young Investigators Award, for Research on Post-ACL Tear Osteoarthritis
2010	Top 70 Best Knee Surgeons in America, Becker's Hospital Review
2011	American Orthopaedic Society for Sports Medicine Annual Meeting Best Poster Award
2012	American Orthopaedic Society for Sports Medicine Annual Meeting Best Poster Award
2012	Member, Orthopaedic Research Society
2013	American Medical Women's Association Exceptional Mentor Award
2013	International Cartilage Repair Society Elected to Fellowship Level
2016	AOSSM Sandy Kirkley Research Award: Adipose Derived Stem Cell Trial
2017	American Academy of Orthopaedic Surgery Achievement Award
2019	Endowed Chair of Regenerative Medicine

University of Colorado School of Medicine**Scholarship****Peer-Reviewed Articles (124)**

1. **Dragoo JL**, Samimi B, Zhu M, Hame SL, Thomas BJ, Lieberman JR, Hedrick MH, Benhaim P. Tissue-engineered cartilage and bone using stem cells from human infrapatellar fat pads. *J Bone Joint Surg*. 2003, 85-B, Jul; 31(4):577-84.
2. De Ugarte DA, Morizono K, Elbarbary A, Alfonso Z, Zuk PA, Zhu M, **Dragoo JL**, Ashjian P, Thomas B, Benhaim P, Chen I, Fraser J, Hedrick MH. Comparison of multi-lineage cells from human adipose tissue and bone marrow. *Cells Tissues Organs*. 2003, 174(3):101-9.
3. **Dragoo JL**, Choi JY, Lieberman JR, Huang J, Zuk PA, Zhang J, Hedrick MH, Benhaim P. Bone induction by BMP-2 transduced stem cells derived from human fat. *J Orthop Res*. 2003, July; 21(4):622-9.
4. McAllister DR, Tsai AM, **Dragoo JL**, McWilliams J, Dorey FJ, Hame SL, Finerman GA. Knee function after anterior cruciate ligament injury in elite collegiate athletes. *Am J Sports Med*. 2003, Jul-Aug; 31(4):560-3.
5. **Dragoo JL**, Lee RS, Benhaim P, Finerman GA, Hame SL. Relaxin receptors in the human female anterior cruciate ligament. *Am J Sports Med*. 2003, Jul-Aug; 31(4):577-84.
6. Kay SP, **Dragoo JL**, Lee R. Long-term results of arthroscopic resection of the distal clavicle with concomitant subacromial decompression. *Arthroscopy*. 2003, Oct; 19(8):805-9.
7. Carlson GA, **Dragoo JL**, Samimi B, Bruckner DA, Bernard GW, Hedrick M, Benhaim P. Bacteriostatic Effect of Biomatrices on Common Orthopaedic Pathogens. *Biochem Biophys Res Commun*. 2004, Aug 20; 321(2):472-8.
8. **Dragoo JL**, Lieberman JL, Lee RS, Deugarte DA, Lee YP, Zuk PA, Hedrick MH Benhaim P. Tissue-engineered bone from BMP-2-transduced stem cells derived from human fat. *Plast Reconstr Surg*. 2005, May; 115(6):1665-73.
9. Stevens KJ, **Dragoo JL**. Anterior Cruciate Ligament Tears and Associated Injuries. *Top Magn Reson Imaging*. 2006, 17(5): 347-362.
10. **Dragoo JL**, Carlson GA, McCormick F, Khan-Farooqi H, Zhu M, Zuk, PA, Benhaim P. Healing Full-Thickness Cartilage Defects using Adipose Derived Stem Cells. *Tissue Engineering*. 2007, Jul; 13(7):1615-1621.
11. **Dragoo, JL**, Abnousi, F. Disorders of the Suprapatellar Pouch of the Knee. *Knee*. 2008, Oct; 15(5): 348-54.
12. **Dragoo JL**, Korotkova T, Kanwar R, Wood, B. The Effect of Local Anesthetics Administered via Pain Pump on Chondrocyte Viability. *Am J Sports Med*. 2008, Aug; 36(8): 1484-8.
13. Steadman JR, **Dragoo JL**, Briggs KK, Hines SL. Arthroscopic release for symptomatic scarring of the anterior interval of the knee. *Am J Sports Med*. 2008, Sept; 36(9), pages 1763-9.
14. Bales CP, Matheson G, Ouyang D, **Dragoo JL**. College Football Player with Unstable C1 Fracture: A Case Report. *Am J Sports Med*. 2008, Sept; 36(9), pages 195-8.

15. **Dragoo JL**, Padrez K, Workman R; Lindsey DP. The Effect of Relaxin on the Female Anterior Cruciate Ligament Part II: Analysis of mechanical properties in an animal model. *Knee*. 2008, Volume 16, Issue 1: 69-72.
16. Vaughn ZD, Schmidt J, Lindsey DP, **Dragoo JL**. Biomechanical Evaluation of a one-stage ACL Revision Technique Using a Structural Bone Void Filler. *Arthroscopy*. 2009, Sep; 25(9): 1011-8.
17. Hamman D, Lindsay DP, **Dragoo JL**. Biomechanical analysis of bicortical versus unicortical locked plating of mid-clavicular fractures. *Arch Orthop Trauma Surg*. 2011, Volume 131, Issue 6, Page 773.
18. **Dragoo JL**, Korotkova T, Jagadish A. Chondrotoxicity of low pH, epinephrine, and preservatives found in local anesthetics containing epinephrine. *Am J Sports Med*. 2010, Jun; 38(6):1154-9.
19. **Dragoo JL**, Phillips C, Schmidt JD, Scanlan SF, Blazek K, Steadman JR, Williams A. Mechanics of the Anterior Interval of the Knee using Open Dynamic MRI." *Clin Biomech*. 2010, Jun; 25(5):433-7.
20. **Dragoo JL**, Braun H. The Effect of Playing Surface on Injury Rate: A review of the current literature. *Sports Med*. 2010, Nov 1; 40(11):981-90.
21. **Dragoo JL**, Pun SY. Effect of bupivacaine on chondrocyte viability. *Spine J*. 2010, 10(2): 172-173.
22. **Dragoo JL**, Miller MD, Vaughn ZD, Handley E. Restoration of Knee Volume Using Selected Arthroscopic Releases. *Am J Sports Med*. 2010, Nov; 38(11):2288-93.
23. **Dragoo JL**, Castillo TN, Korotkova TA, Purnell AC, Stewart DR. Trends in serum relaxin concentration among elite collegiate female athletes. *Int J Womens Health*. 2010, Jan 19; 3:19-24.
24. Koo S, Hargreaves BA, Gold GE, **Dragoo JL**. Fabrication of Custom-Shaped Grafts for Cartilage Regeneration. *Int J Artif Organs*. 2011, Oct; 33(10):731-7.
25. Castillo TN, Pouliot MA, Kim HJ, **Dragoo JL**. Comparison of Growth Factor and Platelet Concentration from Commercial Platelet-Rich Plasma Separation Systems. *Am J Sports Med*. 2011, Feb; 39(2):266-71.
26. **Dragoo JL**, Castillo TN, Braun HJ, Kennedy AC, Golish SR. Prospective Correlation between Serum Relaxin Concentration and Anterior Cruciate Ligament Tears among Elite Collegiate Female Athletes. *Am J Sports Med*. 2011, Oct; 39(10):2175-80.
27. Xu H, Zhang C, Pei G, **Dragoo JL**. Restoration of knee volume using selected arthroscopic releases. Letter to the editor. *Am J Sports Med*. 2011, Apr; 39(4): NP5.
28. Hart ND, Golish SR, **Dragoo JL**. Maximizing Intra-articular Length of the Proximal Biceps Tendon for Shoulder Arthroscopy: A Cadaveric study. *Arthroscopy*. 2012, Apr; 28(4):481-5.
29. Chen M, **Dragoo JL**. Arthroscopic Releases for Arthrofibrosis. *J Am Acad Orthop Surg*. 2011, Nov; 19(11):709-16.
30. Tse BK, Vaughn VD, Lindsey DP, **Dragoo JL**. Evaluation of a one-stage ACL revision Technique using bone void filler after cyclic loading. *Knee*. 2012, Aug; 19(4):477-

31. **Dragoo JL**, Johnson C, McConnell J. Evaluation and Treatment of Disorders of the Infrapatellar Fat Pad. *Sports Med.* 2012, Jan 1; 42(1):51-67.
32. Braun HJ, Wilcox-Fogel N, Kim HJ, Pouliot MA, Harris AH, **Dragoo JL**. The Effect of Local Anesthetic and Corticosteroid Combinations on Chondrocyte Viability. *Knee Surg Sports Traumatol Arthrosc.* 2012, Sep; 20(9):1689-95.
33. **Dragoo JL**, Korotkova T, Wasterlain AS, Pouliot MA, Kim HJ, Golish SR. Age-Related Changes of Chondrogenic Growth Factors in Platelet-Rich Plasma. *Oper Tech Orthop.* 2012; 22(2):49-55.
34. Wasterlain AS, Braun HJ, **Dragoo JL**. Contents and Formulations of Platelet-Rich Plasma. *Oper Tech Orthop.* 2012, 22(1):33-42.
35. **Dragoo JL**, Braun HJ, Kim HJ, Golish SR. The Chondrotoxicity of Single-Dose Local Anesthetics. *Am J Sports Med.* 2012, Apr; 40(4):794-9.
36. **Dragoo JL**, Danial CM, Braun HJ, Pouliot MA, Kim HJ. The Chondrotoxicity of Single-Dose Corticosteroids. *Knee Surg Sports Traumatol Arthrosc.* 2012, Sep; 20(9):1809-14.
37. **Dragoo JL**, Braun HJ, Durham JL, Ridley BA, Odegaard JI, Luong R, Arnoczky SP. Comparison of the Acute Inflammatory Response of Two Commercial Platelet-Rich Plasma Systems in Healthy Rabbit Tendons. *Am J Sports Med.* 2012, Jun; 40(6):1274-81.
38. **Dragoo JL**, Braun HJ, Durham JL, Chen MR, Harris AH. Incidence and Risk Factors for Injuries to the Anterior Cruciate Ligament in National Collegiate Athletic Association Football: Data From the 2004-2005 Through 2008-2009 National Collegiate Athletic Association Injury Surveillance System. *Am J Sports Med.* 2012, May; 40(5): 990-5.
39. **Dragoo JL**, Braun HJ, Bartlinksy SE, Harris AH. Acromioclavicular joint injuries in NCAA football: Data from the 2004 through 2009 NCAA Injury Surveillance System. *Am J Sports Med.* 2012, Sep; 40(9):2066-71.
40. Chen M, **Dragoo JL**. The Effect of Non-steroidal Anti-inflammatory Drugs on Tissue Healing. *Knee Surg Sports Traumatol Arthrosc.* 2013, Mar; 21(3):540-9.
41. Braun HJ, Busfield BT, Kim HJ, Scuderi GJ, **Dragoo JL**. The effect of local Anesthetics on synoviocytes: A possible indirect mechanism of chondrolysis. *Knee Surg Sports Traumatol Arthrosc.* 2013, Jun; 21(6): 1468-74.
42. Nord RM, Badowski N, Elkins C, Alley M, Harris A, **Dragoo JL**. Optimizing Lavage during Knee Arthroscopy: A 3-Dimensional MRI Study. *J Magn Reson Imaging.* 2013, Jan; 37(1): 201-7.
43. **Dragoo JL**, Braun HJ, Harris AH. The effect of playing surface on the incidence of ACL injuries in National Collegiate Athletic Association American Football. *Knee.* 2013, Jun; 20(3): 191-5.
44. Kim HJ, Park S, Durham J, Gimble JM, Kaplan DL, **Dragoo JL**. In-vitro Chondrogenic Differentiation of Human Adipose-Derived Stem Cells with Silk Scaffolds. *J Tissue Eng.* 2012, 3(1): 2041731412466405.
45. Shull PB, Shultz R, Silder A, **Dragoo JL**, Besier TF, Cutkosky MR, Delp SL. Toe-in gait reduces the first peak knee adduction moment in patients with medial compartment knee osteoarthritis. *J Biomech.* 2013, Jan 4; 46(1):122-8.
46. Hunt KJ, George E, Harris AS, **Dragoo JL**. Epidemiology of syndesmosis injuries in

- intercollegiate football: Incidence and risk factors from National Collegiate Athletic Association Injury Surveillance System data 2004-05 to 2008-09. *Clin J Sport Med.* 2013, Jan 21.
47. Shull PB, Silder A, Schultz R, **Dragoo JL**, Besier TF, Delp SL, Cutkosky MR. Six-Week Gait Retraining Program Reduces Knee Adduction Moment, Reduces Pain, and Improves Function for Individuals with Medial Compartment Knee Osteoarthritis. *J Orthop Res.* 2013 Jul, 31(7):1020-5.
 48. Chu CR, Bennyon B, **Dragoo JL**, Fleisig G, Hart J, Khazzam M, Marberry K, Nelson B. The Feasibility of Randomized Controlled Trials of Early Arthritis Therapies (EARTH) Involving Acute Anterior Cruciate Ligament Tear Cohorts. *Am J Sports Med.* 2012, Nov; 40 (11):2648-2652.
 49. Leatherwood WE, **Dragoo JL**. Effect of airline travel on performance: a review of the literature. *Br J Sports Med.* 2013, Jun; 47(9):561-7.
 50. Braun HJ, **Dragoo JL**, Hargreaves BA, Levenston ME, Gold GE. Application of Advanced Magnetic Resonance Imaging Techniques in Evaluation of the Lower Extremity. *Radiol Clin North Am.* 2013, 51(3): 529-45.
 51. Wasterlain AS, Braun HJ, Harris HS, Kim HJ, **Dragoo JL**. The Systemic Effects of Platelet-Rich Plasma Injection. *Am J Sports Med.* 2013, Jan; 41(1):186-93.
 52. Dehghan F, **Dragoo JL**. The Effect of Relaxin on the Musculoskeletal System. *Scand J Med Sci Sports.* 2014, Aug; 24(4): 220-9.
 53. Wasterlain AS, **Dragoo JL**. Author's response. *Am J Sports Med.* 2013, May; 41(5): 23-6.
 54. Padilla S, Orive G, Sánchez M, Anitua E, Wasterlain AS, **Dragoo JL**. Causality in biology has to answer 2 main questions—which and how: letter to the editor. *Am J Sports Med.* 2013, May; 41(5): 22-3.
 55. Braun HL, Waterlain AS, **Dragoo JL**. The Use of PRP in Ligament and Meniscal Healing. *Sports Med Arthrosc.* 2013, Dec; 21(4): 206-12.
 56. George E, Sox-Harris A, **Dragoo JL**, Hunt KJ. Incidence and risk factors for turf toe injuries in intercollegiate football: Data from the National Collegiate Athletic Association Injury Surveillance System. *Foot Ankle Int.* 2014, Feb; 35(2):108-15.
 57. **Dragoo JL**, Wasterlain AS, Braun BA, Nead KT. Platelet-Rich Plasma as a Treatment for Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial. *Am J Sports Med.* 2014, Mar, 42(3): 610-8.
 58. Braun HJ, Kim HJ, Chu CR, **Dragoo JL**. The Effect of Platelet Rich Plasma Formulations and Blood Products on Human Synoviocytes: Implications for Intra-Articular Injury and Therapy. *Am J Sports Med.* 2014, May 42 (5): 1204-10.
 59. Braun HJ, Shultz R, Malone M, Leatherwood WE, Slider A, **Dragoo JL**. Differences in ACL Biomechanical Risk Factors Between Field Hockey and Lacrosse Female Athletes. *Knee Surg Sports Traumatol Arthrosc.* 2015 Apr; 23(4):1065-70.
 60. Swank K, **Dragoo JL**. Post arthroscopic Infection in the Knee following Medical or Dental Procedures. *Case Rep Orthop.* 2013, 2013: 974017.
 61. Kim HJ, Braun HJ, **Dragoo JL**. The effect of resveratrol on normal and osteoarthritic chondrocyte metabolism. *Bone Joint Res.* 2014, Mar 10; 3(3):51-9.
 62. Swank KR, Behn AW, **Dragoo JL**. The effect of donor age on structural and mechanical properties of allograft tendons. *Am J Sports Med.* 2015, Feb; 43(2):453-9.
 63. **Dragoo JL**. Three cheers for the pain pump? *Knee Surg Sports Traumatol Arthrosc.* 2015,

- Apr; 23(4): 935-6.
64. Smeriglio P, Dhulipala L, Goodman SB, **Dragoo JL**, Smith RL, Maloney WJ, Bhutani N. Collagen VI enhances cartilage tissue generation by stimulating chondrocyte proliferation. *Tissue Eng Part A*. 2015, Feb; 21(3-4):840-9.
 65. Wernecke C, Braun HJ, **Dragoo JL**. The Effect of Intra-articular Corticosteroids on Articular Cartilage. *Orthop J Sports Med*. 2015, Apr 27; 3(5):2325967115581163.
 66. Shultz R, Silder A, Malone M, Braun HJ, **Dragoo JL**. Unstable Surface Improves Quadriceps: Hamstring Co-contraction for Anterior Cruciate Ligament Injury Prevention Strategies. *Sports Health*. 2015, Apr; 7(2): 166-71.
 67. Taylor SE, Lee J, Smeriglio P, Razzaque A, Smith RL, **Dragoo JL**, Maloney WJ, Bhutani N. Identification of Human Juvenile Chondrocyte-Specific Factors that Stimulate Stem Cell Growth. *Tissue Eng Part A*. 2016, Apr; 22(7-8): 645-53.
 68. LaPrade RF, **Dragoo JL**, Koh JL, Murray IR, Geelin AG, Chu CR. AAOS Research Symposium Updates and Consensus: Biologic Treatment of Orthopaedic Injuries. *J Am Acad Orthop Surg*. 2016, Jul; 24(7): 62-78.
 69. Konopka JA, DeBaun MR, Chang W, **Dragoo JL**. The Intracellular Effect of Relaxin on Female Anterior Cruciate Ligament Cells. *Am J Sports Med*. 2016, Sept, 44(9):2384-92.
 70. Tran AA, Gatewood C, Harris AH, Thompson JA, **Dragoo JL**. The effect of foot landing position on biomechanical risk factors associated with anterior cruciate ligament injury. *J Exp Orthop*. 2016, Dec; 3(1):13.
 71. Stunt JJ, Kerkhoffs GM, van Ooij B, Sierevelt IN, Schafroth MU, van Dijk CN, **Dragoo JD**, Tuijthof GM. The Suitability of Global Rating Scales to Monitor Arthroscopic Training Progress. *Int J Sports Exerc Med*. 2016, Volume 2 | Issue 3, 2: 041.
 72. Miroshnychenko O, Chang WT, **Dragoo JL**. The Use of Platelet-Rich and Platelet-Poor Plasma to Enhance Differentiation of Skeletal Myoblasts: Implications for the Use of Autologous Blood Products for Muscle Regeneration. *Am J Sports Med*. 2017, Mar; 45(4):945-953.
 73. **Dragoo JL**, Arnoczky S. Comparison of the Acute Inflammatory Response of 2 Commercial PRP Systems: Response. *Am J Sports Med*. 2016, Dec; 44 (12): 70-71.
 74. Young SW, Valladares RD, Loi F, **Dragoo JL**. Mechanoreceptor Reinnervation of Autografts versus Allografts after Anterior Cruciate Ligament Reconstruction. *Orthop J Sports Med*. 2016, Oct 20; 4(10).
 75. Thompson JA, Tran AA, Gatewood CT, Shultz R, Silder A, Delp SL, **Dragoo JL**. Biomechanical Effects of an Injury Prevention Program in Preadolescent Female Soccer Athletes. *Am J Sports Med*. 2017, Feb; 45 (2): 294-301.
 76. Gatewood CT, Tran AA, **Dragoo JL**. The efficacy of post-operative devices following knee arthroscopic surgery: a systematic review. *Knee Surg Sports Traumatol Arthrosc*. 2016, 25(2), 501-516.
 77. Robins RJ, Daruwalla JH, Gamradt SC, McCarty EC, **Dragoo JL**, Hancock RE, Guy JA, Cotsonis GA, Xerogeanes JW; ASP Collaborative Group., Greis PE, Tuman JM, Tibone JE, Javernick MA, Yochem EM, Boden SA, Pilato A, Miley JH. Return to Play after Shoulder Instability Surgery in NCAA Division I Intercollegiate Football Athletes. *Am J Sports Med*. 2017, Aug; 45(10):2329-2335.

78. **Dragoo JL**, Nguyen M, Gatewood CT, Taunton JD Young S. Medial Patellofemoral Ligament Repair Versus Reconstruction for Recurrent Patellar Instability: Two-Year Results of an Algorithm-Based Approach. *Orthop J Sports Med.* 2017, Mar 16; 5(3): 2325967116689465.
79. Kim SK, Roos TR, Roos AK, Kleimeyer JP, Ahmed MA, Goodlin GT, Fredericson M, Ioannidis JP, Avins AL, **Dragoo JL**. Genome-wide screens for Achilles tendon and ACL tears and tendinopathy. *PLoS One.* 2017, Mar 30; 12(3): 0170422.
80. Roos AK, Avins AL, Ahmed MA, Kleimeyer JP, Roos TR, Fredericson M, Ioannidis JPA, **Dragoo JL**, Kim S. Two Genetic Loci associated with Medial Collateral Ligament Injury. *Int J Sports Med.* 2017, Jul; 38(7): 501-507.
81. Kim S, Kleimeyer JP, Ahmed MA, Avins AL, Fredericson M, **Dragoo JL**, Ioannidis JPA. A Genetic Marker Associated with Shoulder Dislocation. *Int J Sports Med.* 2017, Jul; 38(7): 508-514.
82. Abrams GD, Greenberg DR, **Dragoo JL**, Safran MR, Kamal RN. Quality Measures in Orthopaedic Sports Medicine: A Systematic Review. *Arthroscopy.* 2017, Oct; 33(10): 1896-1910.
83. **Dragoo JL**, Chang W. Arthroscopic Harvest of Adipose-Derived Mesenchymal Stem Cells from the Infrapatellar Fat Pad. *Am J Sports Med.* 2017, Nov; 45(13): 3119-3127.
84. Cravens MG, Behn AW, **Dragoo JL**. Comparison of mechanical compressive properties of commercial and autologous fibrin glues for tissue engineering applications. *Clin Biomech.* 2017, Nov; 49: 34-39.
85. Lee J, Smeriglio P, **Dragoo JL**, Maloney WJ, Bhutani N. CD24 enrichment protects while its loss increases susceptibility of juvenile chondrocytes towards inflammation. *Arthritis Res Ther.* 2016, Dec 12; 18(1): 292.
86. Titchenal MR, Williams AA, Chehab EF, Asay JL, **Dragoo JL**, Gold GE, McAdams TR, Andriacchi TP, Chu CR. Cartilage Subsurface Changes to MRI UTE-T2* 2 Years after Anterior Cruciate Ligament Reconstruction Correlate to Walking Mechanics Associated with Knee Osteoarthritis. *Am J Sports Med.* 2018, Mar; 46(3): 565-572.
87. Thompson-Kolesar JA, Gatewood CT, Tran AA, Silder A, Shultz R, Delp SL, **Dragoo JL**. Age Influences Biomechanical Changes Following Participation in an ACL Injury Prevention Program. *Am J Sports Med.* 2018, Mar; 46(3): 598-606.
88. Arvayo AL, Wong IJ, **Dragoo JL**, Levenston ME. Enhancing integration of articular cartilage grafts via photochemical bonding. *J Orthop Res.* 2018, Sep; 36(9): 2406-2415.
89. Kim SK, Ioannidis JPA, Ahmed MA, Avins AL, Kleimeyer JP, Fredericson M, **Dragoo JL**. Two Genetic Variants Associated with Plantar Fascial Disorders. *Int J Sports Med.* 2018, Apr; 39(4): 314-321.
90. Packer JD, Chang WT, **Dragoo JL**. The Use of Vibrational Energy to Isolate Adipose-Derived Stem Cells. *Plast Reconstr Surg Glob Open.* 2018, Jan 11; 6(1): 1620.
91. Roos TR, Roos AK, Avins AL, Ahmed MA, Kleimeyer JP, Fredericson M, Ioannidis JPA, **Dragoo JL**, Kim SK. Genome-wide association study identifies a locus associated with rotator cuff injury. *PLoS One.* 2017, Dec 11; 12(12).
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Non-Peer Reviewed Articles (1 Total)

1. *Motion Magazine* Article. (2004). "Developing the Next Generation of Joint Replacements. Tissue Engineered Joint Resurfacing using Stem Cells."

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4. **Dragoo, JL,** Wasterlain A. Systemic Effects of Platelet Rich Plasma. N. Maffulli (ed.), Platelet Rich Plasma in Musculoskeletal Practice, DOI 10.1007/978-1-4471-7271-0_9, © Springer-Verlag London 2016. Pg. 199-222.
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Abstracts (151 Total)

1. **Bone Production by Human Adipose-Derived Stem Cells versus Bone Marrow Stem Cells Using Bone Morphogenetic Protein-2 Gene Therapy,** American College of Surgeons, 2001 Spring Scientific Meeting, San Diego, CA 3/01, oral presentation.
2. **Bone Production by Human Adipose-Derived Stem Cells versus Bone Marrow Stem Cells Using Bone Morphogenetic Protein-2 Gene Therapy,** California Society of Plastic Surgery, 2001 Annual Meeting, Monterey, California 5/01, oral presentation.
3. **In-Vitro Osteogenesis of BMP-2 Transfected Human Stem Cells,** Plastic Surgery Research Council, Milwaukee, Wisconsin 6/01, oral presentation.
4. **In-Vitro Osteogenesis of BMP-2 Transfected Human Stem Cells,** 2001 Annual American Orthopaedic Association Meeting, West Palm Beach, FL 6/01, poster presentation.
5. **Osteogenic Induction by Genetically Manipulated Stem Cells Derived from Human Fat,** 2001 Annual Meeting American Society for Bone and Mineral Research, Phoenix, AZ 10/01, poster presentation.
6. **Bone Production by BMP-2 Transduced Stem Cells Derived from Human Fat,** 4th International Meeting of the Tissue Engineering Society International and the 1st Biennial Meeting of the European Tissue Engineering Society, Freiburg, Germany 11/01, oral presentation.

7. **Cartilage Tissue Engineering using Stem Cells Derived from Human Fat**, American College of Surgeons, Southern California Chapter 2002 Scientific Meeting, Santa Barbara, CA 1/02, oral presentation.
8. **Optimal Cartilage Induction Media using Stem Cells Derived from Human Fat**, American College of Surgeons, Southern California Chapter 2002 Scientific Meeting, Santa Barbara, CA 1/02, oral presentation.
9. **Bone Induction by BMP-2 Transduced Stem Cells Derived from Human Fat**, Orthopaedic Research Society, Dallas, TX 2/02, oral presentation. Relaxin Receptors in the Human Female ACL, Orthopaedic Research Society, Dallas, TX 2/02, poster presentation.
10. **Bone Production by Genetically Manipulated Stem Cells Derived from Human Fat**, 69th Annual Meeting American Academy of Orthopaedic Surgeons, Dallas, TX 2/02, oral presentation.
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14. **Long-term Results of Arthroscopic Distal Clavicle Resection with Concomitant Subacromial Decompression**, 2001 Arthroscopy Association of North America Annual Meeting, Washington, DC 4/02, oral presentation.
15. **Cartilage and Bone Production using Stem Cells from Arthroscopically Harvested Infrapatellar Fat Pads**, American Orthopaedic Society for Sports Medicine 28th Annual Meeting, Orlando, FL 6/02, poster presentation.
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17. **Cartilage and Bone Production using Stem Cells from Arthroscopically Harvested Infrapatellar Fat Pads**, 70th Annual Meeting American Academy of Orthopaedic Surgeons, New Orleans, LA 2/03, poster presentation.
18. **Comparison of Multi-lineage Cells from Human Adipose and Bone Marrow**, Orthopaedic Research Society, New Orleans, LA 2/03, poster presentation.
19. **Cartilage Induction using Fat-Derived Stem Cells**, Orthopaedic Research Society, New Orleans, LA 2/03, oral presentation.
20. **Articular Surface Repair using Stem Cells Derived from Human Fat**, Orthopaedic Research Society, San Francisco, CA 3/04, poster presentation.

21. **Articular Surface Repair using Stem Cells Derived from Human Fat**, 71st Annual Meeting American Academy of Orthopaedic Surgeons, San Francisco, CA 3/04, poster presentation.
22. **Anterior Interval of the Knee**, American Arthroscopy Association North America, Ft. Lauderdale, FL, Eposter, 5/06.
23. **Biomechanics and Treatment of Anterior Interval Lesions of the Knee**, American Orthopaedic Society for Sports Medicine, Hershey, PA, oral presentation 6/06.
24. **Basic Science of Articular Cartilage**, 74th Annual Meeting American Academy of Orthopaedic Surgeons, San Diego, CA 2/07, symposium-Treatment of Cartilage Defects of the Ankle.
25. **The Effect of Local Anesthetics Administered via Pain Pump on Chondrocyte Viability**, International Cartilage Research Society, Warsaw, Poland, 9/07.
26. **The Effect of Relaxin on ACL Integrity**, 6th Combined Meeting of the Orthopaedic Research Societies, Honolulu, HI, 10/2007.
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28. **Effect of Local Anesthetics Delivered via Peri-operative Pain Pumps on Chondrocyte Viability**, 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 3/2008.
29. **Biomechanical Evaluation of a one-stage ACL Revision Technique using a Structural Bone Void Filler**, 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA , 3/2008.
30. **Relationship between Knee Flexion Moment and Early Cartilage Changes in the ACL Reconstructed Knee.** American Society of Biomechanics Annual Meeting Stanford, CA, 3/2007.
31. **Sagittal ACL Graft Orientation Influences Passive and Dynamic Anterior Tibial Translation.** American Society of Biomechanics Annual Meeting, Stanford, CA, 3/2007.
32. **Accuracy of building a three-dimensional model of a complex articular cartilage defect from 1.5T MRI.** 16th Annual Meeting of the International Society for Magnetic Resonance in Medicine, Toronto, Canada, 5/2008.
33. **Effect of Local Anesthetics Delivered via Peri-operative Pain Pumps on Chondrocyte Viability**, American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL, 7/2008.
34. **The Effect of Relaxin on ACL Integrity**, American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL, 7/2008.
35. **Age-Related Change in Growth Factor Levels in Platelet Rich Plasma**, Orthopaedic Research Society, Las Vegas, NV 2/2009.

36. **Chondrotoxicity of Low pH, Epinephrine and Preservative found in Local Anesthetics Containing Epinephrine**, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV 2/2009.
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38. **Efficacy of Arthroscopic Acromioplasty; A critical review of the literature**, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, 3/2010.
39. **Restoration of Knee Volume Using Selected Arthroscopic Releases**, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, 3/2010.
40. **Biomechanical Evaluation of a one-stage ACL Revision Technique using a Structural Bone Void Filler**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
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42. **Fabrication of Custom-Shaped Grafts for Cartilage Regeneration**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
43. **Excursion of the Proximal Biceps Tendon with Positioning of the Upper Extremity: A Cadaveric Study**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
44. **Restoration of Knee Volume Using Selected Arthroscopic Releases**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
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46. **Chondrotoxicity of Single Dose Corticosteroid Injections**, American Orthopaedic Society for Sports Medicine Annual Meeting, Providence, RI, 7/2010.
47. **Intra-articular Visualization of the Proximal Biceps Tendon is Maximized by Shoulder Abduction, Shoulder Flexion, and Elbow Flexion**, 124th AOA Annual Meeting in Boston, MA.
48. **Chondrotoxicity of Single Dose Corticosteroid Injections**, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA 2/2011.
49. **The Basic Science of Chondrotoxicity**, Symposium, 30th Annual Meeting, Arthroscopy Association of North America, San Francisco, CA 4/2011.

50. **Chondrotoxicity of Single Dose Corticosteroid Injections**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
51. **Double-Blind Randomized Controlled Trial of Platelet-Rich-Plasma versus Dry Needling for Treatment of Patellar Tendinosis**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
52. **Single-Stage Revision Anterior Cruciate Ligament Reconstruction Technique Using a Structural Bone Void Filler**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
53. **Correlation of Serum Relaxin Levels and ACL Tears in Elite College Female Athletes**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
54. **Comparison of Growth Factor and Platelet Concentration from Commercial Platelet-Rich Plasma Separation Systems**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
55. **Stem Cell Therapy in Orthopaedics 2011**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
56. **Intra-articular visualization of the proximal biceps tendon is maximized by shoulder abduction, shoulder flexion, and elbow flexion**, 124th Annual Meeting of the American Orthopaedic Association 2011, Boston, USA
57. **Chondrotoxicity of Single Dose Local Anesthetic Injections**, American Orthopaedic Society for Sports Medicine Annual Meeting, San Diego, CA 7/2011.
58. **Possible ACL Risk Reduction Mechanism: Unstable Surfaces Decrease Quadricep: Hamstring Ratio**. Sport Injury Prevention Research Symposium. Canadian Academy of Sport and Exercise Medicine. Kelowna, British Columbia, CA, June, 2012.
59. **The Chondrotoxicity of Single-Dose Local Anesthetic Injections**, 79th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA 2/2012.
60. **Platelet-Rich Plasma as a Treatment for Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, Orthopaedic Research Society, San Francisco, 2/2012.
61. **Effect of Platelet-Rich Plasma Injection on Systemic Concentrations of Performance-Enhancing Growth Factors**, Orthopaedic Research Society, San Francisco, 2/2012.
62. **Local Anesthetics Activate Fibroblast-like Synoviocytes and Induce Matrix Metalloproteinase Production**, Orthopaedic Research Society, San Francisco, 2/2012.
63. **Local Anesthetics and Corticosteroids: A Chondrotoxic Combination**, Orthopaedic Research Society, San Francisco, 2/2012.
64. **The Chondrotoxicity of Single-Dose Local Anesthetics**, Orthopaedic Research Society, San Francisco, 2/2012.

65. **The Inflammatory Effect of Leukocyte-poor Versus Leukocyte-rich Platelet-Rich Plasma**, Orthopaedic Research Society, San Francisco, 2/2012.
66. **The Metabolic Effect of Resveratrol on Juvenile and Osteoarthritic Chondrocytes**, Orthopaedic Research Society, San Francisco, 2/2012.
67. **Prospective Correlation between Serum Relaxin Concentration and ACL Tears in Elite Female Athletes**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
68. **The Inflammatory Effect of Leukocyte-Rich Versus Leukocyte-Poor Platelet-Rich Plasma**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
69. **The Effect of Playing Surface on the Incidence of Anterior Cruciate Ligament Injuries in National Collegiate Athletic Association American Football Players**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
70. **Systemic Performance-Enhancing Effects of Platelet-Rich Plasma (PRP) Injection**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
71. **The Chondrotoxic and Inflammatory Effect of Local Anesthetics on Synoviocytes: An indirect pathway of chondrolysis**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
72. **The Effect of Local Anesthetic and Corticosteroid Combinations on Chondrocyte Viability**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
73. **Platelet-Rich Plasma as a Treatment For Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
74. **The Incidence of Acromioclavicular Joint Injury in National Collegiate Athletic Association American Football Players**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
75. **The Chondrotoxic Effect of Single-Dose Local Anesthetics**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
76. **The Molecular Effect of Resveratrol on Osteoarthritic and Juvenile Chondrocytes**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
77. **The Chondrotoxicity of Local Anesthetic and Corticosteroid Combinations**, International Cartilage Research Society, Montreal, Canada 5/2012
78. **Systemic Performance-Enhancing Effects of Platelet-Rich Plasma (PRP) Injection**, International Cartilage Research Society, Montreal, Canada 5/2012

79. **Platelet-Rich Plasma as a Treatment For Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012.
80. **The Effect of Local Anesthetics on Synoviocytes: An indirect contributor to Chondrolysis**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012.
81. **Effect of Platelet-Rich Plasma Injection on Systemic Concentrations of Performance-Enhancing Growth Factors**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
82. **The Chondrotoxicity of Local Anesthetic and Corticosteroid Combinations**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
83. **The Chondrotoxicity of Single-Dose Local Anesthetics**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
84. **The Inflammatory Effect of Leukocyte-Rich Versus Leukocyte-Poor Platelet-Rich Plasma**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
85. **The Effect of Resveratrol on Juvenile and Osteoarthritic Chondrocytes**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
86. **T2 Relaxation Times in Medial Compartment Osteoarthritis using 3D Quantitative DESS (qDESS)**, International Society for Magnetic Resonance in Medicine, Melbourne, Australia 5/2012
87. **Platelet-Rich Plasma as a Treatment For Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, American Orthopaedic Society for Sports Medicine Annual Meeting, Baltimore, Maryland, 7/2012.
88. **The Use of Stem Cells in Clinical Orthopaedics**, American Orthopaedic Society for Sports Medicine Annual Meeting, Baltimore, Maryland, 7/2012.
89. **Platelet-Rich Plasma as a Treatment For Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL 3/2013.
90. **The Effect of Local Anesthetics on Synoviocytes: An Indirect Contributor to Chondrolysis**, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL 3/2013.
91. **Effect of Playing Surface on the Incidence of ACL Injuries in NCAA Football**, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL 3/2013.
92. **Effect of Platelet-Rich Plasma Injection on Systemic Concentrations of Performance-Enhancing Growth Factors**. Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2013.

93. **Tibial Tunnel Anteriorization Procedure for Single-State Revision ACL Reconstruction.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
95. **Chondrogenesis Using Adipose-Derived Stem Cells and FDA-Approved Biomatrices.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
96. **The Impact of Hemarthrosis on the Inflammatory and Oxidative Environment of ACL-Injured Knees.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
97. **Lower Extremity Biomechanics in Division I Female Athletes.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
98. **T2 Mapping and Functional Outcome of Patients with Medial Knee Osteoarthritis after the use of Unloader Bracing.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
99. **Inflammatory Mediators in Joint Fluid of Meniscectomy Patients with Visible Synovitis.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
100. **The Systemic Effects of Platelet-Rich Plasma Injection.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
101. **The Impact of Hemarthrosis on the Inflammatory and Oxidative Environment of ACL-Injured Knees.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
102. **Chondrogenesis Using Adipose-Derived Stem Cells and FDA-Approved Biomatrices.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
103. **Landing on an Unstable Surface Decreases ACL Biomechanical Risk Factors.** Annual Meeting of the American Orthopaedic Society for Sports Medicine, Chicago, IL, July 2013.
104. **Chondrogenesis Using Adipose-Derived Stem Cells and FDA-Approved Biomatrices,** Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, March 2014.
105. **The Effect of Platelet Rich Plasma Formulations on Human Synoviocytes,** Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March, 2014.
106. **MPFL Repair versus Reconstruction for Recurrent Patellar Instability: Two-year Results of an Algorithm Based Approach.** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.
107. **Relaxin signaling in female verses male human anterior cruciate ligament cells.** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.
108. **The Effect of Platelet Rich Plasma Formulations and Blood Products on Human Synoviocytes.** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.
109. **Symposium: What can you Safely Inject into Joints in 2014?** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.
110. **Diagnostic performance of a 3D FSE T2 and T1rho sequence for Quantitative**

mapping of articular cartilage composition for the detection of Morphological internal knee derangements. International Society for Magnetic Resonance in Medicine, Milan, IT, May 2014.

111. **Symposium: ESSKA guidelines for PRP use.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
112. **Biomechanical risk factors for ACL rupture in female lacrosse and field hockey athletes.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
113. **Repair versus reconstruction for recurrent lateral patellar instability.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
114. **Chondrogenesis using FDA-approved biomatrices.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands May 2014
115. **The Effect of Platelet Rich Plasma Formulations and Blood Products on Human Synoviocytes.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
116. **Mechanoreceptor Re-innervation Following Allograft versus Autograft Anterior Cruciate Ligament Reconstruction.** American Orthopaedic Society for Sports Medicine Annual Meeting, Seattle, WA 7/2014
117. **Symposium: Cell-Based Therapies in Orthopaedics: Common Sense Approach for the Practicing Orthopaedic Surgeon.** AAOS Annual Meeting, Las Vegas, NV 3/2015
118. **The effect of donor age on structural and mechanical properties of allograft tendons.** AAOS Annual Meeting, Las Vegas, NV 3/2015
119. **Return to play of elite football players after multi-ligament reconstructions of the knee.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
120. **Relaxin Signaling In Female Verses Male Human Anterior Cruciate Ligament Tenocytes.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
121. **The Effect of Donor Age on the Structural and Mechanical Properties of Allograft Tendons.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
122. **Mechanoreceptor Re-Innervation Following Allograft versus Autograft Anterior Cruciate Ligament Reconstruction.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
123. **Quantitation Of Progenitor Cells After Bone Marrow Aspirate Concentration.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
124. **Arthroscopic Harvest of Stem Cells from the Infrapatellar Fat Pad.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.

125. **The Use of Stem cells and PRP for Cartilage Regeneration.** American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL. July 2015.
126. **Symposium: The Use of Biologics for Intra-articular Disease.** American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL. July 2015.
127. **Cell Therapies for the Treatment of Musculoskeletal Disease.** AAOS Annual Meeting, Orlando, FL 3/2016
128. **Bilateral Assessment of Cartilage with UTE T2* Quantitative MRI and Relationships with Walking Mechanics Two Years after Anterior Cruciate Ligament Reconstruction.** AAOS Annual Meeting, Orlando, FL 3/2016
129. **Biologic Treatment of Orthopaedic Injuries.** AAOS Annual Meeting, Orlando, FL 3/2016
130. **The Use of Biologics for Rotator Cuff Repair.** AANA Specialty Day. AAOS Annual Meeting, Orlando, FL 3/2016
131. **Cell Therapies for the Treatment of Musculoskeletal Disease.** AAOS Annual Meeting, Orlando, FL 3/2016
132. **The Use of Platelet-Rich and Platelet-Poor Plasma to Enhance Differentiation of Skeletal Myoblasts: Implications for the Use of Autologous Blood Products for Muscle Regeneration.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
133. **Biomechanical Effects of an ACL Injury Prevention Program on Youth Female Soccer Athletes.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
134. **Mechanoreceptor re-innervation following Allograft versus Autograft Anterior Cruciate Ligament Reconstruction.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
135. **The Effect of Foot Position on Biomechanical Risk Factors for Anterior Cruciate Ligament Injury.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
136. **Arthroscopic harvest of adipose derived stem cells from the infrapatellar fat pad.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
137. **The use of PRP and PPP for Muscle Regeneration.** AOSSM Annual Meeting, Colorado Springs, CO, 7/2016.
138. **Return to Play after Shoulder Instability Surgery in NCAA Division I Intercollegiate Football Athletes.** AOSSM Annual Meeting, Colorado Springs, CO, 7/2016.
139. **The Use of Platelet-Rich and Platelet-Poor Plasma to Enhance Differentiation of Skeletal Myoblasts.** AAOS Annual Meeting, San Diego, CA 3/2017
140. **The Chondrotoxicity of Injectable Anti-inflammatory and Narcotic Medications.** AAOS Annual Meeting, San Diego, CA 3/2017
141. **Biomechanical Effects of an ACL Injury Prevention Program on Youth Female Soccer Athletes.** 11th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Shanghai, China 5/2017

142. **The Use Of Platelet-Rich And Platelet-Poor Plasma To Enhance Differentiation Of Skeletal Myoblasts: Implications For The Use Of Autologous Blood Products For Muscle Regeneration.** 11th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Shanghai, China 5/2017
143. **Characterization of Stem Cell Yield after the Use of Commercial Bone Marrow Aspirate Concentration Devices.** 11th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Shanghai, China 5/2017
144. **Quantification of Stem Cells in Bone marrow aspirate concentration.** AOSSM Annual Meeting, Toronto, CAN, 7/2017.
145. **Chondrotoxicity injectable NSAIDs and Narcotics.** AOSSM Annual Meeting, Toronto, CAN, 7/2017.
146. **PRP for Patellar Tendinopathy: a Multi-Center Double-Blind RCT.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
147. **The Effect of Oral Contraceptives on ACL Strength.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
148. **Outcomes of Arthroscopic All-Inside Repair vs Observation in Older patients with Meniscal Root Tears.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
149. **Outcomes of Arthroscopic All-Inside Repair vs Observation in Older patients with Meniscal Root Tears.** 12th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine. Cancun, Mexico 5/2019.
150. **The Effect of Oral Contraceptive Hormones on Anterior Cruciate Ligament Strength.** 12th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine. Cancun, Mexico 5/2019.
151. **Outcomes of Arthroscopic All-Inside Repair vs Observation in Older patients with Meniscal Root Tears.** AOSSM Annual Meeting, Boston, MA 7/2019.

Invited Presentations (277 total)

1. **Slipped Capital Femoral Epiphysis**, Grand Rounds, Orthopaedic Hospital, Los Angeles, CA 8/99, oral presentation.
2. **Cartilage Tissue Engineering**, Grand Rounds, Shriners Hospital for Children, Los Angeles, CA 2/00, oral presentation.
3. **Wrist Injuries in Athletes**, UCLA Department of Orthopaedics, Hand Trauma Lecture Series 3/00, oral presentation.
4. **Bone Production by Human Adipose-Derived Stem Cells versus Bone Marrow Stem Cells Using Bone Morphogenetic Protein-2 Gene Therapy**, American College of Surgeons, 2001 Spring Scientific Meeting, San Diego, CA 3/01, oral presentation.
5. **Common Pitfalls in Orthopaedic Patient Management**, UCLA Department of Medicine Surgical Lecture Series 3/01, oral presentation.

6. **In-Vitro Osteogenesis of BMP-2 Transfected Human Stem Cells**, American Orthopaedic Association-34th Annual Residents Conference, Hershey, PA 3/01, oral presentation.
7. **Examination of the Knee**, UCLA Department of Medicine Surgical Lecture Series 5/01, oral presentation.
8. **Bone Production by Human Adipose-Derived Stem Cells versus Bone Marrow Stem Cells Using Bone Morphogenetic Protein-2 Gene Therapy**, California Society of Plastic Surgery, 2001 Annual Meeting, Monterey, California 5/01, oral presentation.
9. **In-Vitro Osteogenesis of BMP-2 Transfected Human Stem Cells**, Plastic Surgery Research Council, Milwaukee, Wisconsin 6/01, oral presentation.
10. **In-Vitro Osteogenesis of BMP-2 Transfected Human Stem Cells**, 2001 Annual American Orthopaedic Association Meeting, West Palm Beach, FL 6/01, poster presentation.
11. **Bone and Cartilage Tissue Engineering using Fat Derived Stem Cells**, 2001 Annual Plastic Surgery Research Forum, UCLA Department of Plastic Surgery 6/01, oral presentation.
12. **Long-term Results of Arthroscopic Distal Clavicle Resection**, 2001 Western Orthopaedic Association Meeting, San Francisco, CA 9/01, poster presentation.
13. **Bone Induction by BMP-2 Transduced Stem Cells Derived from Human Fat, 2001** Western Orthopaedic Association Meeting, San Francisco, CA 9/01, oral presentation.
14. **Relaxin Receptors in the Human Female ACL**, 2001 Western Orthopaedic Association Meeting, San Francisco, CA 9/01, oral presentation.
15. **Osteogenic Induction by Genetically Manipulated Stem Cells Derived from Human Fat**, 2001 Annual Meeting American Society for Bone and Mineral Research, Phoenix, AZ 10/01, poster presentation.
16. **Bone Production by BMP-2 Transduced Stem Cells Derived from Human Fat**, 4th International Meeting of the Tissue Engineering Society International and the 1st Biennial Meeting of the European Tissue Engineering Society, Freiburg, Germany 11/01, oral presentation.
17. **Cartilage Tissue Engineering using Stem Cells Derived from Human Fat**, American College of Surgeons, Southern California Chapter 2002 Scientific Meeting, Santa Barbara, CA 1/02, oral presentation.
18. **Optimal Cartilage Induction Media using Stem Cells Derived from Human Fat**, American College of Surgeons, Southern California Chapter 2002 Scientific Meeting, Santa Barbara, CA 1/02, oral presentation.

19. **Bone Induction by BMP-2 Transduced Stem Cells Derived from Human Fat**, Orthopaedic Research Society, Dallas, TX 2/02, oral presentation.
20. **Relaxin Receptors in the Human Female ACL**, Orthopaedic Research Society, Dallas, TX 2/02, poster presentation.
21. **Bone Production by Genetically Manipulated Stem Cells Derived from Human Fat**, 69th Annual Meeting American Academy of Orthopaedic Surgeons, Dallas, TX 2/02, oral presentation.
22. **Cartilage Tissue Engineering using Stem Cells Derived from Human Fat**, 47th Annual Plastic Surgery Research Council, Boston, Massachusetts 4/02, oral presentation.
23. **In-vivo Bone Production by Genetically Manipulated Stem Cells Derived from Human Fat**, 47th Annual PLASTIC Surgery Research Council, Boston, Massachusetts 4/02, oral presentation.
24. **Optimal Cartilage Induction Media using Stem Cells Derived from Human Fat**, 47th Annual Plastic Surgery Research Council, Boston, Massachusetts 4/02, oral presentation.
25. **Bone Production by Genetically Manipulated Stem Cells Derived from Human Fat**, California Orthopaedic Association, 2002 Annual Meeting, Palm Springs, CA 4/02, oral presentation.
26. **Relaxin Receptors in the Human Female ACL**, American Orthopaedic Association-35th Annual Residents Conference, Memphis, TN 4/02, oral presentation.
27. **Long-term Results of Arthroscopic Distal Clavicle Resection with Concomitant Subacromial Decompression**, 2001 Arthroscopy Association of North America Annual Meeting, Washington, DC 4/02, oral presentation.
28. **Examination of the Shoulder**, UCLA Department of Medicine Surgical Lecture Series 5/01, oral presentation.
29. **Examination of the Knee**, UCLA Department of Medicine Surgical Lecture Series 5/01, oral presentation.
30. **Cartilage and Bone Production using Stem Cells from Arthroscopically Harvested Infrapatellar Fat Pads**, American Orthopaedic Society for Sports Medicine 28th Annual Meeting, Orlando, FL 6/02, poster presentation.
31. **Cartilage and Bone Production using Stem Cells from Arthroscopically Harvested Infrapatellar Fat Pads**, 2002 Annual American Orthopaedic Association Meeting, Victoria, BC 6/02, poster presentation.
32. **Cartilage and Bone Production using Stem Cells from Arthroscopically Harvested Infrapatellar Fat Pads**, 2002 Western Orthopaedic Association Meeting, Maui, HI 9/02, oral presentation.

33. **Cartilage and Bone Production using Stem Cells from Arthroscopically Harvested Infrapatellar Fat Pads**, 2002 Smith and Nephew National Resident Research Awards, Memphis, TN 9/02, oral presentation.
34. **Cartilage and Bone Production using Stem Cells from Arthroscopically Harvested Infrapatellar Fat Pads**, 70th Annual Meeting American Academy of Orthopaedic Surgeons, New Orleans, LA 2/03, poster presentation.
35. **Comparison of Multi-lineage Cells from Human Adipose and Bone Marrow**, Orthopaedic Research Society, New Orleans, LA 2/03, poster presentation.
36. **Cartilage Induction using Fat-Derived Stem Cells**, Orthopaedic Research Society, New Orleans, LA 2/03, oral presentation.
37. **Shoulder Injuries in the Young Athlete**, Grand Rounds, Orthopaedic Hospital, Los Angeles, CA 2/03, oral presentation.
38. **The Future of Arthritis Surgery: The use of stem cells**, Grand Rounds, Orthopaedic Hospital, Los Angeles, CA 2/03, oral presentation.
39. **Articular Surface Repair using Stem Cells Derived from Human Fat**, Orthopaedic Research Society, San Francisco, CA 3/04, poster presentation.
40. **The Future of Arthritis Surgery: The use of stem cells**, Wilson-Bost Traveling Fellowship Presentation, Los Angeles, CA 2/03, oral presentation.
41. **Articular Surface Repair using Stem Cells Derived from Human Fat**, 71st Annual Meeting American Academy of Orthopaedic Surgeons, San Francisco, CA 3/04, poster presentation.
42. **Anterior Interval of the Knee**, American Arthroscopy Association North America, Ft. Lauderdale, FL, Eposter, 5/06.
43. **Biomechanics and Treatment of Anterior Interval Lesions of the Knee**, American Orthopaedic Society for Sports Medicine, Hershey, PA, oral presentation 6/06.
44. **Articular Surface Repair using Stem Cells Derived from Human Fat**, 2006 Smith and Nephew Research Awards, San Diego, CA 1/06, oral presentation.
45. **New Frontiers in Sports Medicine: Hip Arthroscopy**, Grand Rounds, Stanford University, 1/06.
46. **Modern Techniques of Cartilage Regeneration**, Western Orthopaedic Association, Napa, CA 11/06.
47. **Basic Science of Articular Cartilage**, 74th Annual Meeting American Academy of Orthopaedic Surgeons, San Diego, CA 2/07, symposium-Treatment of Cartilage Defects of the Ankle.
48. **The Effect of Local Anesthetics Administered via Pain Pump on Chondrocyte Viability**, International Cartilage Research Society, Warsaw, Poland, 9/07.
49. **The Effect of Relaxin on ACL Integrity**, 6th Combined Meeting of the Orthopaedic Research Societies, Honolulu, HI, 10/2007.
50. **The Effect of Local Anesthetics Administered via Pain Pump on Chondrocyte Viability**, 6th Combined Meeting of the Orthopaedic Research Societies, Honolulu, HI, 10/2007.

51. **Effect of Local Anesthetics Delivered via Peri-operative Pain Pumps on Chondrocyte Viability**, 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 3/2008.
52. **Biomechanical Evaluation of a one-stage ACL Revision Technique using a Structural Bone Void Filler**, 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 3/2008.
53. **Relationship between Knee Flexion Moment and Early Cartilage Changes in the ACL Reconstructed Knee**. American Society of Biomechanics Annual Meeting Stanford, CA, 3/2007.
54. **Sagittal ACL Graft Orientation Influences Passive and Dynamic Anterior Tibial Translation**. American Society of Biomechanics Annual Meeting, Stanford, CA, 3/2007.
55. **Accuracy of building a three-dimensional model of a complex articular cartilage defect from 1.5T MRI**. 16th Annual Meeting of the International Society for Magnetic Resonance in Medicine, Toronto, Canada, 5/2008.
56. **Effect of Local Anesthetics Delivered via Peri-operative Pain Pumps on Chondrocyte Viability**, American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL, 7/2008.
57. **The Effect of Relaxin on ACL Integrity**, American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL, 7/2008.
58. **Age-Related Change in Growth Factor Levels in Platelet Rich Plasma**, Orthopaedic Research Society, Las Vegas, NV 2/2009.
59. **Chondrotoxicity of Low pH, Epinephrine and Preservative found in Local Anesthetics Containing Epinephrine**, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV 2/2009.
60. **Chondrotoxicity of Low pH, Epinephrine and Preservative found in Local Anesthetics Containing Epinephrine**, American Orthopaedic Society for Sports Medicine Annual Meeting, Keystone, CO, 7/2009.
61. **Efficacy of Arthroscopic Acromioplasty; A critical review of the literature**, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, 3/2010.
62. **Restoration of Knee Volume Using Selected Arthroscopic Releases**, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, 3/2010.
63. **Restoration of Knee Volume Using Selected Arthroscopic Releases**, Northern California Division of California Orthopaedic Society Annual Meeting, Half Moon Bay, CA 3/2010.
64. **Biomechanical Evaluation of a one-stage ACL Revision Technique using a Structural Bone Void Filler**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
65. **The Effect of Relaxin on ACL Integrity**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
66. **Fabrication of Custom-Shaped Grafts for Cartilage Regeneration**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.

67. **Excursion of the Proximal Biceps Tendon with Positioning of the Upper Extremity: A Cadaveric Study**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
68. **Restoration of Knee Volume Using Selected Arthroscopic Releases**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
69. **Chondrotoxicity of Low pH, Epinephrine and Preservative found in Local Anesthetics Containing Epinephrine**, 14th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Oslo, Norway 6, 2010.
70. **Chondrotoxicity of Single Dose Corticosteroid Injections**, American Orthopaedic Society for Sports Medicine Annual Meeting, Providence, RI, 7/2010.
71. **Restoration of Knee Volume Using Selected Arthroscopic Releases**, Magellan International Society Bi-Annual Meeting, Newport, RI, 7/2010.
72. **Update on the Chondrotoxicity of Local Anesthetics and Corticosteroids**, Magellan International Society Bi-Annual Meeting, Newport, RI, 7/2010.
73. **Intra-articular Visualization of the Proximal Biceps Tendon is Maximized by Shoulder Abduction, Shoulder Flexion, and Elbow Flexion**, 124th AOA Annual Meeting in Boston, MA.
74. **Chondrotoxicity of Single Dose Corticosteroid Injections**, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA 2/2011.
75. **The Real Truth About PRP**, Annual Society for Tennis Medicine and Science Conference, San Jose, CA.
76. **The Effect of NSAIDS on Tissue Healing**, 2011 Metcalf, Winter AANA meeting, Salt Lake City, UT.
77. **The Real Truth About PRP**, 2011 Metcalf, Winter AANA meeting, Salt Lake City, UT.
78. **The Real Truth About PRP**, Northern California Division of California Orthopaedic Society Annual Meeting, Carmel, CA 4/2011.
79. **The Effect of NSAIDS on Tissue Healing**, Northern California Division of California Orthopaedic Society Annual Meeting, Carmel, CA 4/2011.
80. **The Basic Science of Chondrotoxicity**, Symposium, 30th Annual Meeting, Arthroscopy Association of North America, San Francisco, CA 4/2011.
81. **Chondrotoxicity of Single Dose Corticosteroid Injections**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
82. **Double-Blind Randomized Controlled Trial of Platelet-Rich-Plasma versus Dry Needling for Treatment of Patellar Tendinosis**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
83. **Single-Stage Revision Anterior Cruciate Ligament Reconstruction Technique Using a Structural Bone Void Filler**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.

84. **Correlation of Serum Relaxin Levels and ACL Tears in Elite College Female Athletes**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
85. **Comparison of Growth Factor and Platelet Concentration from Commercial Platelet-Rich Plasma Separation Systems**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
86. **Stem Cell Therapy in Orthopaedics 2011**, 2011 International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, Brazil 5/2011.
87. **Intra-articular visualization of the proximal biceps tendon is maximized by shoulder abduction, shoulder flexion, and elbow flexion**, 124th Annual Meeting of the American Orthopaedic Association 2011, Boston, USA
88. **Chondrotoxicity of Single Dose Local Anesthetic Injections**, American Orthopaedic Society for Sports Medicine Annual Meeting, San Diego, CA 7/2011.
89. **The Chondrotoxicity of Single-Dose Local Anesthetic Injections**, 79th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA 2/2012.
90. **Platelet-Rich Plasma as a Treatment for Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, Orthopaedic Research Society, San Francisco, 2/2012.
91. **Effect of Platelet-Rich Plasma Injection on Systemic Concentrations of Performance-Enhancing Growth Factors**, Orthopaedic Research Society, San Francisco, 2/2012.
92. **Local Anesthetics Activate Fibroblast-like Synoviocytes and Induce Matrix Metalloproteinase Production**, Orthopaedic Research Society, San Francisco, 2/2012.
93. **Local Anesthetics and Corticosteroids: A Chondrotoxic Combination**, Orthopaedic Research Society, San Francisco, 2/2012.
94. **The Chondrotoxicity of Single-Dose Local Anesthetics**, Orthopaedic Research Society, San Francisco, 2/2012.
95. **The Inflammatory Effect of Leukocyte-poor Versus Leukocyte-rich Platelet-Rich Plasma**, Orthopaedic Research Society, San Francisco, 2/2012.
96. **The Metabolic Effect of Resveratrol on Juvenile and Osteoarthritic Chondrocytes**, Orthopaedic Research Society, San Francisco, 2/2012.
97. **Arthroscopy for Osteoarthritis**. American Academy of Orthopaedic Surgery, Masters Athlete Symposium. Phoenix, AZ 4/2012.
98. **The real Truth about Platelet Rich Plasma**. American Academy of Orthopaedic Surgery, Masters Athlete Symposium. Phoenix, AZ 4/2012.
99. **The use of Stem Cells in Clinical Practice**. American Academy of Orthopaedic Surgery, Masters Athlete Symposium. Phoenix, AZ 4/2012.
100. **Prospective Correlation between Serum Relaxin Concentration and ACL Tears in Elite Female Athletes**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012

101. **The Inflammatory Effect of Leukocyte-Rich Versus Leukocyte-Poor Platelet-Rich Plasma**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
102. **The Effect of Playing Surface on the Incidence of Anterior Cruciate Ligament Injuries in National Collegiate Athletic Association American Football Players**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
103. **Systemic Performance-Enhancing Effects of Platelet-Rich Plasma (PRP) Injection**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
104. **The Chondrotoxic and Inflammatory Effect of Local Anesthetics on Synoviocytes: An indirect pathway of chondrolysis**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
105. **The Effect of Local Anesthetic and Corticosteroid Combinations on Chondrocyte Viability**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
106. **Platelet-Rich Plasma as a Treatment for Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
107. **The Incidence of Acromioclavicular Joint Injury in National Collegiate Athletic Association American Football Players**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
108. **The Chondrotoxic Effect of Single-Dose Local Anesthetics**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
109. **The Molecular Effect of Resveratrol on Osteoarthritic and Juvenile Chondrocytes**, 15th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Geneva, Switzerland 5/ 2012
110. **The Chondrotoxicity of Local Anesthetic and Corticosteroid Combinations**, International Cartilage Research Society, Montreal, Canada 5/2012
111. **Systemic Performance-Enhancing Effects of Platelet-Rich Plasma (PRP) Injection**, International Cartilage Research Society, Montreal, Canada 5/2012
112. **Platelet-Rich Plasma as a Treatment For Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012.
113. **The Effect of Local Anesthetics on Synoviocytes: An indirect contributor to chondrolysis**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012.

114. **Effect of Platelet-Rich Plasma Injection on Systemic Concentrations of Performance-Enhancing Growth Factors**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
115. **The Chondrotoxicity of Local Anesthetic and Corticosteroid Combinations**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
116. **The Chondrotoxicity of Single-Dose Local Anesthetics**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
117. **The Inflammatory Effect of Leukocyte-Rich Versus Leukocyte-Poor Platelet-Rich Plasma**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
118. **The Effect of Resveratrol on Juvenile and Osteoarthritic Chondrocytes**, Arthroscopy Association of North America Annual Meeting, Orlando, Florida, 5/2012
119. **T2 Relaxation Times in Medial Compartment Osteoarthritis using 3D Quantitative DESS (qDESS)**, International Society for Magnetic Resonance in Medicine, Melbourne, Australia 5/2012
120. **Update on the use of Platelet Rich Plasma**. Hawkins Society Annual Meeting. Hilton Head, SC 5/2012.
121. **The Use of Stem Cells in Clinical Orthopaedics**. Hawkins Society Annual Meeting. Hilton Head, SC 5/2012.
122. **Possible ACL Risk Reduction Mechanism: Unstable Surfaces Decrease Quadriceps: Hamstring Ratio**. Sport Injury Prevention Research Symposium. Canadian Academy of Sport and Exercise Medicine. Kelowna, British Columbia, CA, June, 2012.
123. **Modern ACL Reconstruction**. Northern California Orthopaedic Association Annual Meeting, Carmel, CA 6/2012.
124. **Identification and Treatment of Infrapatellar Pain**. Stanford University Continuing Education, Sport Medicine Conference, Stanford, CA 6/2012.
125. **Platelet-Rich Plasma as a Treatment For Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial**, American Orthopaedic Society for Sports Medicine Annual Meeting, Baltimore, Maryland, 7/2012.
126. **The Use of Stem Cells in Clinical Orthopaedics**, American Orthopaedic Society for Sports Medicine Annual Meeting, Baltimore, Maryland, 7/2012.
127. **3D-DESS T2 Mapping Improves Resolution and Decreases Scan Time Versus 2D-T2 Mapping of Articular Cartilage**. Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, January 2013.
128. **The Role of Hemarthrosis on the Inflammatory and Oxidative Environment of ACL-Injured Knees**. Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, January 2013.
129. **T2 Mapping and Functional Outcome of Patients with Medial Knee Osteoarthritis after the use of Unloader Bracing**. Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, January 2013.

130. **Difference in Lower Extremity Biomechanics in Division I Field Hockey and Lacrosse Female Athletes.** Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, January 2013.
131. **The Effect of Unstable Surfaces on Biomechanical Risk Factor Profile of Elite Female Athletes.** Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, January 2013.
132. **The Effect of Arthroscopic Synovectomy on Inflammatory Mediator Profile in Knee Synovial Fluid.** Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, January 2013.
133. **The Effect of Local Anesthetics and Corticosteroids on Cartilage.** Metcalf Memorial Meeting, Sun Valley, ID February 2013.
134. **Use of Stem Cells and PRP in Clinical Practice.** Metcalf Memorial Meeting, Sun Valley, ID February 2013.
135. **Biologic Augmentation of Meniscal Repair.** Metcalf Memorial Meeting, Sun Valley, ID February 2013.
136. **The Effect of Playing Surface on the Incidence of ACL Injuries in NCAA Football.** Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2013.
137. **Platelet-Rich Plasma as a Treatment For Patellar Tendinopathy: A Double-Blind Randomized Controlled Trial.** Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2013.
138. **The Effect of Local Anesthetics on Synoviocytes: An Indirect Contributor to Chondrolysis.** Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2013.
139. **Effect of Platelet-Rich Plasma Injection on Systemic Concentrations of Performance-Enhancing Growth Factors.** Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2013.
140. **Tibial Tunnel Anteriorization Procedure for Single-State Revision ACL Reconstruction.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
141. **Chondrogenesis Using Adipose-Derived Stem Cells and FDA-Approved Biomaterials.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
142. **The Impact of Hemarthrosis on the Inflammatory and Oxidative Environment of ACL-Injured Knees.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
143. **Lower Extremity Biomechanics in Division I Female Athletes.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
144. **T2 Mapping and Functional Outcome of Patients with Medial Knee Osteoarthritis after the use of Unloader Bracing.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.

145. **Inflammatory Mediators in Joint Fluid of Meniscectomy Patients with Visible Synovitis.** Annual Meeting of the Arthroscopy Association of North America, San Antonio, TX, April 2013.
146. **The Systemic Effects of Platelet-Rich Plasma Injection.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
147. **The Impact of Hemarthrosis on the Inflammatory and Oxidative Environment of ACL-Injured Knees.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
148. **Chondrogenesis Using Adipose-Derived Stem Cells and FDA-Approved Biomatrices.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
149. **Symposium: Arthroscopic Techniques for the treatment of Osteoarthritis.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
150. **Symposium: The Use of Stem Cells in Clinical Sports Medicine.** Ninth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Toronto, Canada, May 2013.
151. **ACL Revision with Tibial Tunnel Anteriorization.** Magellan Society, Toronto, Canada, May 2013.
152. **The Systemic Effects of Platelet-Rich Plasma Injection.** The OrthoBiologic Institute Annual Meeting, Los Angeles, CA, June 2013.
153. **Landing on an Unstable Surface Decreases ACL Biomechanical Risk Factors.** Annual Meeting of the American Orthopaedic Society for Sports Medicine, Chicago, IL, July 2013.
154. **The Clinical use of Stem Cells and Biologics in Sports Medicine.** Advancements in Shoulder and Hip Arthroscopy, Napa, CA, September, 2013.
155. **Modern Microfracture Technique.** 1st Annual Cartilage Regeneration Symposium. San Francisco, CA, November, 2013.
156. **The Use of Stem Cells in Sports Medicine.** 1st Annual Cartilage Regeneration Symposium. San Francisco, CA, November, 2013.
157. **Chondrogenesis Using Adipose-Derived Stem Cells and FDA-Approved Biomatrices,** Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, March 2014.
158. **The Effect of Platelet Rich Plasma Formulations on Human Synoviocytes,** Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March, 2014.
159. **MPFL Repair versus Reconstruction for Recurrent Patellar Instability: Two-year Results of an Algorithm Based Approach.** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.
160. **Relaxin signaling in female versus male human anterior cruciate ligament cells.** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.
161. **The Effect of Platelet Rich Plasma Formulations and Blood Products on Human Synoviocytes.** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.

162. **Symposium: What can you Safely Inject into Joints in 2014?** Annual Meeting of the Arthroscopy Association of North America, Hollywood, FL, May 2014.
163. **Diagnostic performance of a 3D FSE T2 and T1rho sequence for Quantitative mapping of articular cartilage composition for the detection of Morphological internal knee derangements.** International Society for Magnetic Resonance in Medicine, Milan, IT, May 2014.
164. **Symposium: ESSKA guidelines for PRP use.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
165. **Biomechanical risk factors for ACL rupture in female lacrosse and field hockey athletes.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
166. **Repair versus reconstruction for recurrent lateral patellar instability.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
167. **Chondrogenesis using FDA-approved biomatrices.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
168. **The Effect of Platelet Rich Plasma Formulations and Blood Products on Human Synoviocytes.** 16th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Amsterdam, Netherlands 5/2014
169. **The Future of PRP.** 5th Annual PRP & Regenerative Medicine Symposium, Las Vegas, NV 6/2014.
170. **The Use of Stem Cells in the Aging Athlete, American Academy of Orthopaedic Surgeons Aging Athlete Course.** San Diego, CA 6/2014.
171. **Platelet Rich Plasma Therapy.** American Academy of Orthopaedic Surgeons Aging Athlete Course, San Diego, CA 6/2014.
172. **Maximizing the Results of Arthroscopy when treating Pain from Osteoarthritis.** American Academy of Orthopaedic Surgeons Aging Athlete Course, San Diego, CA 6/2014.
173. **Mechanoreceptor Re-innervation Following Allograft versus Autograft Anterior Cruciate Ligament Reconstruction.** American Orthopaedic Society for Sports Medicine Annual Meeting, Seattle, WA 7/2014
174. **The Quest to prevent female ACL tears.** VuMedi, The Event. San Francisco, CA 11/2014.
175. **The Future of PRP.** VuMedi, The Event. San Francisco, CA 11/2014.
176. **The use of stem cells in orthopedic practice.** 2nd Annual Cartilage Symposium. San Francisco, CA 11/2014.
177. **The future of PRP.** 2nd Annual Cartilage Symposium. San Francisco, CA 11/2014.
178. **Update on modern microfracture technique and theory.** Orthopaedics Today Annual Conference. Kauai, HI, 1/2015
179. **Staying out of trouble with the use of local anesthetics.** Orthopaedics Today Annual Conference. Kauai, HI, 1/2015
180. **The use of Stem Cells and PRP in modern practice.** Orthopaedics Today Annual Conference. Kauai, HI, 1/2015

181. **Optimizing results of arthroscopy for treatment of OA.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2015
182. **Update on modern microfracture technique and theory.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2015
183. **The future of PRP therapy.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2015
184. **How to use stem cell therapy in your practice NOW.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2015
185. **MPFL repair versus Reconstruction.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2015
186. **Symposium: Cell-Based Therapies in Orthopaedics: Common Sense Approach for the Practicing Orthopaedic Surgeon.** AAOS Annual Meeting, Las Vegas, NV 3/2015
187. **The effect of donor age on structural and mechanical properties of allograft tendons.** AAOS Annual Meeting, Las Vegas, NV 3/2015
188. **Cell based treatment of cartilage lesions.** International Cartilage Symposium. Reykjavic, Iceland 5/2015.
189. **Webinar: Cell based treatment of Cartilage lesions.** Orthopaedic Research Society 2/2015.
190. **Webinar: The use of Stem Cells and PRP for Cartilage Restoration.** AAOS cartilage symposium 4/2015
191. **Return to play of elite football players after multi-ligament reconstructions of the knee.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
192. **Relaxin Signaling In Female Verses Male Human Anterior Cruciate Ligament Tenocytes.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
193. **The Effect of Donor Age on the Structural and Mechanical Properties of Allograft Tendons.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
194. **Mechanoreceptor Re-Innervation Following Allograft versus Autograft Anterior Cruciate Ligament Reconstruction.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
195. **Quantitation Of Progenitor Cells After Bone Marrow Aspirate Concentration.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
196. **Arthroscopic Harvest of Stem Cells from the Infrapatellar Fat Pad.** Tenth Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, Lyon, France, May 2015.
197. **Quantitation Of Progenitor Cells After Bone Marrow Aspirate Concentration.** OrthoBiologic Institute Annual Conference. Las Vegas, NV. June 2015.
198. **The Use of Stem cells and PRP for Cartilage Regeneration.** American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL. July 2015.
199. **Symposium: The Use of Biologics for Intra-articular Disease.** American Orthopaedic Society for Sports Medicine Annual Meeting, Orlando, FL. July 2015.
200. **The future of platelet rich plasma.** AAOS Biologics Symposium, Rosemont, IL. 11/2015
201. **ACL Reconstruction in High Performance Athletes.** JOJ Kaiser Permanente Annual

- Conference. Berkeley, CA 11/15
202. **Autograft ACL reconstruction in young athletes.** VuMedi the Event Conference, San Francisco, CA 11/15
 203. **Where to place the femoral tunnel in ACL reconstruction.** VuMedi the Event Conference, San Francisco, CA 11/15
 204. **Cartilage Regeneration Techniques.** Orthopaedics Today Annual Conference. Kona, HI, 1/2016
 205. **Meniscal Repair Techniques.** Orthopaedics Today Annual Conference. Kona, HI, 1/2016
 206. **Modern meniscal repair.** 17th Annual AAOS/AOSSM Sports Medicine Course, Steamboat Springs, CO 1/16
 207. **Arthroscopic DeNovo cartilage restoration.** 17th Annual AAOS/AOSSM Sports Medicine Course, Steamboat Springs, CO 1/16
 208. **Optimizing stem cell harvest.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2016
 209. **Treatment of the subchondral bone-Subchondroplasty.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2016
 210. **Single-stage revision ACL reconstruction.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2016
 211. **Choosing the right PRP product for your patient.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2016
 212. **MPFL repair techniques.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 3/2016
 213. **Cell Therapies for the Treatment of Musculoskeletal Disease.** AAOS Annual Meeting, Orlando, FL 3/2016
 214. **Bilateral Assessment of Cartilage with UTE T2* Quantitative MRI and Relationships with Walking Mechanics Two Years after Anterior Cruciate Ligament Reconstruction.** AAOS Annual Meeting, Orlando, FL 3/2016
 215. **Biologic Treatment of Orthopaedic Injuries.** AAOS Annual Meeting, Orlando, FL 3/2016
 216. **The Use of Biologics for Rotator Cuff Repair.** AANA Specialty Day. AAOS Annual Meeting, Orlando, FL 3/2016
 217. **The Use of Platelet-Rich and Platelet-Poor Plasma to Enhance Differentiation of Skeletal Myoblasts: Implications for the Use of Autologous Blood Products for Muscle Regeneration.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
 218. **Biomechanical Effects of an ACL Injury Prevention Program on Youth Female Soccer Athletes.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
 219. **Mechanoreceptor re-innervation following Allograft versus Autograft Anterior Cruciate Ligament Reconstruction.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
 220. **The Effect of Foot Position on Biomechanical Risk Factors for Anterior Cruciate Ligament Injury.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016

221. **Arthroscopic harvest of adipose derived stem cells from the infrapatellar fat pad.** 17th European Society of Sports Traumatology Knee Surgery and Arthroscopy Congress, Barcelona, Spain 5/2016
222. **The Modern Use of PRP in Orthopaedic Surgery.** American Academy of Orthopaedic Surgery Webinar. 5/2016
223. **The Use of PRP and Stem Cells in Orthopaedic Medicine.** California Orthopaedic Association Annual Meeting, 5/2016.
224. **Formulation Specific PRP.** OrthoBiologic Institute Annual Conference. Las Vegas, NV. 6/2016.
225. **The use of PRP and PPP for Muscle Regeneration.** AOSSM Annual Meeting, Colorado Springs, CO, 7/2016.
226. **Return to Play after Shoulder Instability Surgery in NCAA Division I Intercollegiate Football Athletes.** AOSSM Annual Meeting, Colorado Springs, CO, 7/2016.
227. **Characterization Of Mesenchymal Stem/Stromal Cells In Bone Marrow Aspirate Concentrates.** Western Orthopaedic Association. 9/2016.
228. **The Utility of Lateral Releases.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 2/2017.
229. **Meniscal Root Repair in the Middle Aged Patient.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 2/2017.
230. **How to Treat a Stiff Knee.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 2/2017.
231. **Cell Based Treatments for Cartilage Defects.** Winter Metcalf/AANA meeting, Salt Lake City, UT, 2/2017.
232. **The Use of Platelet-Rich and Platelet-Poor Plasma to Enhance Differentiation of Skeletal Myoblasts.** AAOS Annual Meeting, San Diego, CA 3/2017
233. **The Chondrotoxicity of Injectable Anti-inflammatory and Narcotic Medications.** AAOS Annual Meeting, San Diego, CA 3/2017
234. **Biomechanical Effects of an ACL Injury Prevention Program on Youth Female Soccer Athletes.** 11th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Shanghai, China 5/2017
235. **The Use Of Platelet-Rich And Platelet-Poor Plasma To Enhance Differentiation Of Skeletal Myoblasts: Implications For The Use Of Autologous Blood Products For Muscle Regeneration.** 11th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Shanghai, China 5/2017
236. **Characterization of Stem Cell Yield after the Use of Commercial Bone Marrow Aspirate Concentration Devices.** 11th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Shanghai, China 5/2017
237. **Use of PRP in Sports Medicine.** AOSSM Annual Meeting, Toronto, CAN, 7/2017.
238. **Quantification of Stem Cells in Bone marrow aspirate concentration.** AOSSM Annual Meeting, Toronto, CAN, 7/2017.

239. **Chondrotoxicity injectable NSAIDs and Narcotics.** AOSSM Annual Meeting, Toronto, CAN, 7/2017.
240. **Cellular Therapy for Cartilage Regeneration.** Napa Pain Conference. Napa, CA 8/2017.
241. **Cellular Therapy for Cartilage Regeneration.** Combined AAOS/AOSSM/AANA Winter conference. Park City, UT 1/2018
242. **What not to miss on pre-participation physical exams.** Combined AAOS/AOSSM/AANA Winter conference. Park City, UT 1/2018
243. **Biologics for Sports Injuries.** Winter SKS Meeting, Salt Lake City, UT 2/2018
244. **Biologic Augmentation for Rotator Cuff Repairs.** Winter SKS Meeting, Salt Lake City, UT 2/2018
245. **Cellular Therapy for Cartilage Regeneration.** Winter SKS Meeting, Salt Lake City, UT 2/2018
246. **The Modern Use of Viscosupplementation and Corticosteroids.** Winter SKS Meeting, Salt Lake City, UT 2/2018
247. **Symposium: Stem Cell Biology.** AAOS Annual Meeting, New Orleans, LA 3/2018
248. **The Future of Rotator Cuff Repair.** AAOS Annual Meeting, New Orleans, LA 3/2018
249. **Biologic Augmentation of Rotator Cuff Repairs.** AOSSM/AANA Specialty Day, New Orleans, LA 3/2018
250. **Biologic Augmentation of Rotator Cuff Repairs.** Arthroscopy Association of North America Annual Meeting. Chicago, IL 4/2018
251. **The Future of Biologic in Orthopaedic Surgery.** Arthroscopy Association of North America Annual Meeting. Chicago, IL 4/2018
252. **Biologics and OA: What is the Evidence?** AOSSM Annual Meeting, San Diego, CA 7/2018.
253. **The Use of Biologics for Chondral Defects and Meniscal Tears.** AOSSM Annual Meeting, San Diego, CA 7/2018.
254. **Current Update on Biologic Augmentation Approaches for Soft Tissue Healing: A Case-Based Approach.** AOSSM Annual Meeting, San Diego, CA 7/2018.
255. **The Future of PRP.** Vail Regenerative Medicine Symposium, Vail, CO 8/2018.
256. **The use of Biologics in Rotator Cuff Repair.** Orthopedics Today Annual Meeting, Waikoloa, HI, 1/2019.
257. **Decision Making in Cartilage Regeneration.** Orthopedics Today Annual Meeting, Waikoloa, HI, 1/2019.
258. **The use of OrthoBiologics in Sports Medicine.** Dale Daniels Kaiser Symposium, Newport Beach, CA 2/2019.
259. **Biologics for Sports Injuries.** Winter SKS Meeting, Salt Lake City, UT 2/2019.

260. **The Modern Use of Viscosupplementation and Corticosteroids.** Winter SKS Meeting, Salt Lake City, UT 2/2019.
261. **Cellular Therapy for Cartilage Regeneration.** Winter SKS Meeting, Salt Lake City, UT 2/2018.
262. **The Future of Rotator Cuff Repair.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
263. **Stem Cells: Hype or Reality.** Knee Society Specialty Day, AAOS Annual Meeting, Las Vegas, NV 3/2019.
264. **PRP for Patellar Tendinopathy: a Multi-Center Double-Blind RCT.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
265. **The Effect of Oral Contraceptives on ACL Strength.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
266. **Outcomes of Arthroscopic All-Inside Repair vs Observation in Older patients with Meniscal Root Tears.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
267. **Biologic Treatment of Patellar Tendinopathy.** ORS Symposium, AAOS Annual Meeting, Las Vegas, NV 3/2019.
268. **The Regulatory Environment of Biologics.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
269. **Biologic Joint Preservation of the Knee.** AAOS Annual Meeting, Las Vegas, NV 3/2019.
270. **Biologics and OA: What is the Evidence?** AAOS Annual Meeting, Las Vegas, NV 3/2019.
271. **Solutions for Rotator Cuff Repair: Now and the Future.** Arthroscopy Association of North America Annual Meeting. Orlando, FL 4/2019.
272. **Masters Update: Biologics.** Arthroscopy Association of North America Annual Meeting. Orlando, FL 4/2019.
273. **The use of Biologics for Osteoarthritis.** Arthroscopy Association of North America Annual Meeting. Orlando, FL 4/2019.
274. **Outcomes of Arthroscopic All-Inside Repair vs Observation in Older patients with Meniscal Root Tears.** 12th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine. Cancun, Mexico 5/2017.
275. **The Effect of Oral Contraceptive Hormones on Anterior Cruciate Ligament Strength.** 12th Biennial Congress of the International Society for Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine. Cancun, Mexico 5/2017.
276. **The Cutting Edge: Biologics Symposium.** California Orthopaedic Association Annual Meeting, Laguna Niguel, CA 5, 2019.
277. **Outcomes of Arthroscopic All-Inside Repair vs Observation in Older patients with Meniscal Root Tears.** AOSSM Annual Meeting, Boston, MA 7/2019.

1. UC Davis, Department of Orthopaedic Surgery, Sacramento, CA 4/14
2. West Point Army Academy, West Point, NY 9/14
3. Steadman Clinic, Vail Colorado 2/16
4. Ohio State University, Department of Orthopaedic Surgery, Columbus, OH 4/16
5. Malcolm B. Coutts Visiting Professorship of the San Diego Orthopaedic Society, Scripps Institute, San Diego, 1/17
6. Harvard University, Department Orthopedic Surgery, Boston, MA, 4/17
7. Oregon Association of Orthopedic Surgeons, Portland, OR, 11/19

Patents (1 of 1)

1. US Patent: **U.S. Serial No. 10/651,564 corresponds to PCT application No. PCT/US00/06232, Chondrogenic Induction of Adipose Derived Stem Cells**