

Theodore A. Blaine MD, Professor and Interim Chair
Yale University Department of Orthopaedics & Rehabilitation, New Haven, Connecticut
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CURRICULUM VITAE

THEODORE ALTON BLAINE M.D.

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Old Greenwich, CT 06870
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CAREER SUMMARY

My professional career reflects a broad range of experience in academic, clinical, research and administrative roles at leading academic institutions including Yale University, Brown University, and Columbia University. As Interim Chair of the Department of Orthopaedics and Rehabilitation at Yale, I have worked to achieve a turnaround in the Department with notable gains in clinical excellence, academic reputation, education and research activities, financial health, operations and administration. While making forward strides in each of these areas, I have also maintained a tertiary referral clinical practice in shoulder and elbow surgery, where I currently perform the highest volume of shoulder replacement operations in the State of Connecticut. As Chief of Shoulder and Elbow Surgery, I have been responsible for establishing and growing the Shoulder and Elbow Service, including the recruitment and mentorship of junior members of our section and department.

<http://medicine.yale.edu/ortho/patient/shoulderelbow/index.aspx>.

My clinical work is mirrored by the pursuit of translational research activities, including the recent submission of a \$2M NIH R01 research grant on *Molecular Pathophysiology of Painful Periarticular Shoulder Inflammation*. This research is focused on the identification of new anti-inflammatory agents to treat periarticular inflammation (PROVISIONAL PATENT 61/444,011: Stromal derived factor 1 inhibition and CXCR4 blockade as a treatment for bursitis, musculoskeletal inflammation, tendonitis, and tendon injury). The growth and development of scientific basic and clinical research continues to be a primary focus of my academic and professional career. In 2016-2017, six separate investigators submitted NIH grant applications from our Department.

In addition to department activities, I have worked to align with each of the organizations that form our medical center (Yale School of Medicine (YSM), Yale Medical Group (YMG), Yale New Haven Hospital (YNHH)). Together we have developed programs and clinical satellites throughout New England, including new Center for Musculoskeletal Care (CMC) locations designed to improve multispecialty patient-centered care. Through partnerships and alignments with anchor MDs in key

strategic growth geographies, we have successfully established new practice sites in southern Connecticut (Stamford/Greenwich) as well as Westerly, Rhode Island. We have also aligned with Yale University and Yale Athletics in our Sports Medicine program development, establishing a new model of care that promotes elite level sports medicine care for all of our Yale athletes and 35 Varsity Athletic teams.

In all of these activities, I have operated on core principles of honesty and integrity, open communication, and transparency. In addition to the missions of research, education and clinical excellence, the most important component of our organization is its people. To promote camaraderie and a healthy workplace in our department, we have instituted staff lunches with the Chair on Fridays, an online staff suggestion box, and founded a new department publication, the *Yale Orthopaedics Quarterly*. <http://medicine.yale.edu/ortho/news/quarterlynews.aspx>. Operating on communication and trust, we have successfully recruited 12 new faculty members in the past year, and have promoted six faculty to leadership roles in our department. We have also enhanced resident education through a new core curriculum, and have developed junior faculty mentorship programs and support to advance the clinical and academic careers of our residents and faculty.

Summary of Key Achievements in Academic Year 2016-2017

- Organizational and operational restructuring of department
- Increase in revenue from \$24M (2016) to projected \$31M (2018)
- Twelve new faculty recruited
- New practice sites established with the Center for Musculoskeletal Care in Stamford/Greenwich and Westerly, RI
- Co-Editor in Chief and Founder of *Journal of Shoulder and Elbow Arthroplasty*
- Funded research growth from \$300K (2015-16) to > \$5,000,000 (2016-17)
- Six new translational research grant submissions from 6 clinician scientist investigators
- February 2017 Submission of NIH R01 Grant: *Molecular Pathophysiology of Painful Periarticular Shoulder Inflammation*. (\$2,093,750.00)

EDUCATION

Undergraduate: Princeton University
Princeton, NJ 08544
A.B. in English, 6/7/1988
Thesis: *T.S. Eliot's creative medium in "Four Quartets."*

Medical School University of Connecticut School Of Medicine
263 Farmington Ave., Farmington, CT 06032
Doctor of Medicine, May 27, 1993

Post-Doctoral Brown University
Masters of Science, June 2009

Yale University
Masters of Science, February 2017

Yale University
Yale School of Management
Emerging Leaders Program
Certificate in Business Administration
Sept. 2014- May 2015

Advanced Emerging Leaders Program
Certificate in Business Administration,
Sept. 2015- May 2016

POSTGRADUATE TRAINING

Residency The University Of Rochester
601 Elmwood Ave., Rochester, NY 14642
Intern in General Surgery
7/1/1993 to 6/30/1994.

The University Of Rochester
601 Elmwood Ave., Rochester, NY 14642
Resident in Orthopaedic Surgery
7/1/1995 to 6/30/1999.

Fellowships The University Of Rochester
601 Elmwood Ave., Rochester, NY 14642
Instructor/Fellow, Orthopaedic Research
7/1/1994-6/30/1995.

Columbia-Presbyterian Medical Center
622 West 168th Street, New York, NY 10032

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Fellow, Shoulder and Elbow Surgery/ Sports Medicine
7/1/1999 to 7/1/2000.

Mayo Clinic
200 First Street SW, Rochester, MN 55905
Visiting Fellow, Elbow Surgery
4/1/2000 to 6/30/2000

POSTGRADUATE HONORS AND AWARDS

1. Faculty Teaching Award, Yale University Department of Orthopaedics and Rehabilitation, June 2017.
2. American Orthopaedic Association (AOA) Austrian-Swiss-German (ASG) Traveling Fellow, Tour completed, April, 2012.
3. Neer Award Nomination, American Shoulder and Elbow Surgeons: Lee A. Kaback, Daniel L. Aaron, Andrew S. Neviasser, Mary K. Mulcahey, Evan L. Flatow, Bradford O. Parsons, Theodore A. Blaine, MD: *Functional and Radiographic Outcomes using a Trabecular Metal Prosthesis in the Treatment of Three and Four Part Proximal Humerus Fractures*, ASES Annual Meeting, San Francisco, CA, Feb. 7-11, 2012.
4. AOA American-British-Canadian (ABC) Traveling Fellowship, Finalist, Alternate, 2011.
5. Elected to *Best Doctors in America*, Best Doctors, Inc., Boston, MA, 2007-2008, 2009-2010, 2011-2012, 2013-2014.
6. Aircast Award, Best Paper: Edwards SL, Packer JD, Lee JA, Bell JE, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *Superior Results with Non-operative Management of Superior Labral Tears.*, AOSSM Annual Meeting, Calgary, CAN, July, 2007
7. American Shoulder and Elbow Society (ASES) Traveling Fellow, First Alternate, 2007.
8. Medical Student Certificate of Appreciation, Columbia University College of Physicians and Surgeons, 2002.
9. Zimmer Travel Award, American Orthopaedic Association (AOA), Boca Raton, FL, June 1997.
10. Surgical Scholars, The University of Connecticut School of Medicine, 1993.
11. Elected to Sigma Xi Scientific Research Society, 1991.

OTHER AWARDS

1. eNews Featured Alumnus, Avon Old Farms Preparatory School, Avon, CT March, 2009
2. Athletic Hall of Fame Inductee, Lacrosse, Avon Old Farms School, Avon, CT, May, 2009.

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

1. ABOS recertification, 12/31/2013 – 12/31/2022.
2. Subspecialty Certification in Sports Medicine, American Board of Orthopaedic Surgery, 11/09/2007.

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3. Board Certified, American Board of Orthopaedic Surgery
 - a. Part I passed, 99th percentile rank, July 14, 2000.
 - b. Part II passed, July 18, 2002.
4. Rhode Island State Medical License # 12523, October 10, 2007.
5. New York State Medical License # 196273, July 1, 1994.
6. Pennsylvania State Medical License # MD-063807-L, Sept. 24, 1997.
7. Connecticut State Medical License # 039067, October 16, 2000.
8. New Jersey State Medical License # MA-72376, May, 21, 2001.

INTELLECTUAL PROPERTY AND PATENTS

1. PROVISIONAL PATENT 61/444,011: Stromal derived factor 1 (SDF-1alpha) inhibition and CXCR4 blockade as a treatment for bursitis, musculoskeletal inflammation, tendonitis, and tendon injury.
2. PROVISIONAL PATENT 12/583,574: Visiblade™ – a transparent disposable surgical retractor based on “formed in situ” technology.

ACADEMIC APPOINTMENTS

1. Interim Chairman
Department of Orthopaedics and Rehabilitation
Yale School of Medicine
3/1/16 to present.
2. Professor of Orthopaedic Surgery
Yale School of Medicine
7/1/2015 to present.
3. Director of Fellowship Education
Yale Department of Orthopaedics and Rehabilitation
9/2014 to present.
4. Fellowship Director (Founder),
Yale University Shoulder and Elbow Fellowship
11/1/2011 to present.
5. Associate Professor of Orthopaedic Surgery
Yale School of Medicine
10/1/2011 7/1/2015
6. Fellowship Director (Founder),
Brown University Shoulder and Elbow Fellowship
9/17/2009 to 10/15/2011.
7. Associate Professor of Orthopaedic Surgery
Brown Alpert Medical School
9/15/2007 to present.
8. Director of Shoulder and Elbow Research Laboratories
Rhode Island Hospital Orthopaedic Foundation
Department of Orthopaedic Surgery
Brown Alpert Medical School
12/10/2008 to present.
9. Associate Professor of Orthopaedic Surgery
Columbia-Presbyterian Medical Center

- New York Presbyterian Hospital
7/01/2007 to 9/15/2007
10. Associate Director
Columbia University Center for Shoulder, Elbow, Sports Medicine
622 West 168th Street, PH 11th Floor
New York, New York, 10032
7/1/2000 to 9/15/2007
 11. Co-Director
Columbia University Center for Orthopaedic Research, New York, NY
8/01/2002 to 9/15/2007
 12. Assistant Professor of Orthopaedic Surgery
Columbia-Presbyterian Medical Center
New York Presbyterian Hospital
7/01/2000 to 6/30/2007
 13. Instructor/Fellow, Orthopaedic Research
The University Of Rochester School Of Medicine & Dentistry, Rochester, NY.
7/01/1994 –6/30/1995.
 14. Research Fellow
University of Connecticut Health Center
Dept. of Orthopaedics and Endocrinology,
5/15/1990-8/31/1990.
 15. Research Fellow
The National Institutes Of Health, Bethesda, MD.
Molecular Cellular Neuroendocrinology Branch,
5/15/1987-8/31/1987.

HOSPITAL APPOINTMENTS

1. Surgeon, Dept. of Orthopaedics, Active Staff, Yale New Haven Hospital, New Haven, CT, 10/17/2011 to present.
2. Surgeon, Dept. of Orthopaedics, Affiliate Staff, Greenwich Hospital, Greenwich, CT, 7/2012 to present.
3. Attending Physician, The Stamford Hospital, Stamford, CT, 12/2011 to present.
4. Surgeon, Dept of Orthopaedics, Active Staff, Rhode Island Hospital, Providence, RI, 10/19/2007.
5. Surgeon, Dept of Orthopaedics, Active Staff, The Miriam Hospital, Providence, RI, 10/15/2007.
6. Assistant Attending Physician, The New York Presbyterian Hospital, New York, NY, 7/01/2000 to 9/15/07.
7. Attending Physician, The Stamford Hospital, Stamford, CT, 5/18/2004 to 9/15/2008.
8. Attending Physician, Palisades General Hospital, Edgewater, NJ, 1/01/2001 to 11/01/2004.

OTHER APPOINTMENTS

Editorial and Review:

1. Founder and Co-Editor in Chief, Journal of Shoulder and Elbow Arthroplasty, SAGE Publications, launched Feb. 2017.
2. AAOS Now Editorial Board Member, 2015-present.
3. American Journal of Orthopedics, Editorial Board member, 2015.
4. AAOS Moderator, Shoulder and Elbow: Miscellaneous, Annual Meeting, Las Vegas, NV, March 2015.
5. ASES Research Committee, American Shoulder and Elbow Surgeons, 2010-present.
6. AAOS Moderator, Shoulder and Elbow: Miscellaneous, Annual Meeting, Chicago, IL, March 2013.
7. AAOS Moderator, Shoulder and Elbow: Miscellaneous, Annual Meeting, San Francisco, March 2012.
8. AOA Abstract Review Subcommittee, 2011-2013.
9. AAOS Moderator, Shoulder and Elbow III: Rotator Cuff, Annual Meeting, New Orleans, Feb 2011.
10. Guest Editor, Rhode Island Medical Journal, Arthroplasty Edition, 2011.
11. OREF Peer Review Committee, Orthopaedic Research and Education Foundation, New Investigator Grants, 2011.
12. OREF Peer Review Committee, Orthopaedic Research and Education Foundation, Resident Grants, 2010.
13. AAOS Moderator, Shoulder and Elbow III: Rotator Cuff, Annual Meeting, New Orleans, March 2010.
14. ASES Annual Meeting Program Subcommittee, American Shoulder and Elbow Surgeons, 2008-present.
15. AOSSM Council of Delegates, American Orthopaedic Society of Sports Medicine, elected March 2009, Term: 2009-2012.
16. OREF Peer Review Committee, Orthopaedic Research and Education Foundation, 2004 to 2009.
17. AAOS Guidelines Total Shoulder Arthroplasty Workgroup, Chicago, IL. Nov. 2008
18. Co-Chairman, Columbia Shoulder Society Biennial Meeting, Ojai, CA, June 2007.
19. Chairman, OREF Resident Conference, Orthopaedic Research and Education Foundation New York Metropolitan Area, Columbia University, New York, NY, May, 2007.
20. Editor, Minimally Invasive Shoulder and Elbow Surgery, Eds: Levine W, Blaine TA, and Ahmad CS, Informa Healthcare, New York, London, 2007.
21. AOA Kellogg Leadership Series, Module I completed, Nov. 2006.
22. Program Committee and Moderator, International Society for Technology in Arthroplasty 19th Annual Meeting, New York, NY, Oct. 2006.
23. Editor, Shoulder Arthroscopy, Ed.: Blaine, TA, American Academy of Orthopaedic Surgeons Monograph Series, AAOS, 2006.
24. Editor, Shoulder Section in Essentials of Musculoskeletal Imaging, Eds. Johnson TR and Steinbach LS, AAOS, 2004.

25. Editor, Elbow and Forearm Section in Essentials of Musculoskeletal Imaging, Eds. Johnson TR and Steinbach LS, AAOS, 2004.
26. Chairman, OREF Resident Conference, Orthopaedic Research and Education Foundation New York Metropolitan Area, Columbia University, New York, NY, May, 2003.
27. Editorial Board, *Essentials of Musculoskeletal Imaging*, Eds: Johnson, T. and Steinbach, L., American Academy of Orthopaedic Surgeons, 2004.
28. Consultant Reviewer
 - a. American Journal of Orthopedics, 2014-present.
 - b. *Stem Cell Research and Therapy*, 2014
 - c. Orthopaedic Knowledge Online Journal
 - d. Orthopaedic Basic Science
 - e. American Journal of Sports Medicine
 - f. Elsevier Yearbook
 - g. Journal of Arthroscopy
 - h. Journal of the American Academy of Orthopaedic Surgeons
 - i. Journal of Shoulder and Elbow Surgery
 - j. Journal of Bone and Joint Surgery
 - k. Clinical Orthopaedics and Related Research
29. New Investigator Research Award Committee, Orthopaedic Research Society, Anaheim, CA. 1999.
30. Adjunct Reviewer, Orthopaedic Research Society, 1999 Annual Meeting.
31. ORS Moderator, Wear Debris, Annual Meeting, New Orleans, March 1999.

Medical and Surgical Consulting:

1. Design Team, TM Shapes, Zimmer Inc, 2013 to present.
2. Surgical Consultant, Tornier Inc. 2013 to present.
3. Surgical Consultant, Zimmer Inc. 2006 to present.
4. Consultant Speaker, Sanofi-Aventis, 2004 to 2007.
5. Consultant Speaker, Pfizer Corporation, 2003 to 2007.
6. Surgical Consultant, Orthocon Corporation, 2002 to 2004.

Sports Medicine and Team Physician:

1. Team Physician, Yale University Athletics, 2014-present.
2. Team Physician Staff, Darien Football, 2012-present.
3. Council of Delegates, American Orthopaedic Society of Sports Medicine, elected March 2009, Term: 2009-2012.
4. Consultant Team Physician, Columbia University Athletics, 2001-2007.
5. Medical Staff, Tournament of Champions Squash Tournament, Grand Central Station, New York, NY, March 2004.
6. Assistant Team Physician, New York Yankees Professional Baseball Association 1999-2000
7. Assistant Team Physician, Rochester Americans Professional Hockey Team, 1997-99
8. Assistant Team Physician, Rochester Rhinos "A" League Professional Soccer Team, 1997-99

9. Assistant Team Physician, University of Rochester Varsity Football Team, NCAA Division III, 1997-99
10. Team Physician, Greece-Arcadia High School Football, Greece, NY, 1995-97

Other Committees and Appointments:

1. Princeton University Annual Giving Committee, 2013 to present. Led effort for Princeton Doctors of the Class of 1988 to 84% participation and record level (Highest total participation and 2nd highest total dollars) giving for the 25th Reunion, with Totals of \$9,001,988 and 77.5% Class participation.
2. Lacrosse Coach, East Bay Lacrosse League, Bristol, RI, 2009 to 2011.
3. Princeton University Alumni Schools Committee, 1989 to present.
4. National Walk Chair, The National Arthritis Foundation, Hudson Valley Chapter, June 2002
5. Lacrosse Coach, Greenwich Youth Lacrosse, Greenwich, CT, 2003-2007.
6. Soccer Coach, Old Greenwich Riverside Community Center, Old Greenwich, CT, 2001 to 2004.

HOSPITAL COMMITTEES

1. Yale Center for Musculoskeletal Care (CMC) Clinical Executive Committee, 2015-present.
2. Yale Quality and Safety Leadership Symposium, September, 2014.
3. Physician Lead, YNHHS Extremities and Small Joints Initiative, 2014-2016.
4. Yale Medical Group (YMG) Satellite Planning Committee, 2014-2016.
5. Yale Center for Musculoskeletal Care (CMC) Satellite Planning Group, 2014-present.
6. Steering Committee, Yale Musculoskeletal Institute, 2012-present.
7. Operations Committee, Yale Musculoskeletal Institute, 2013-present.
8. Search Committee Member for Director of Musculoskeletal Institute, Yale School of Medicine and YNHH, 2013.
9. Search Committee Member for Chairman of Neurosurgery, Yale School of Medicine and YNHH, 2013.
10. Co-Chairman, Joint Replacement Certification Committee, YNHH, 2013-present.
11. Northeast Purchasing Coalition (NPC) Member Subject Matter Expert, 2013.
12. Member of Hospital for Special Surgery Task force, August 24, 2012.
13. New Technology Assessment and Application Committee, Yale New Haven Hospital, 2012 – present.
14. Marketing Committee, Yale Department of Orthopaedics and Rehabilitation, 2012 – present.
15. Milford Office Planning Committee, Yale Department of Orthopaedics and Rehabilitation, 2012 – present.
16. Sports Medicine Subcommittee, Stamford Hospital, 2011 – present.
17. Quality Assurance Review Committee, Stamford Hospital, 2006 to 2007.

18. Doctors Private Office Committee, New York Orthopaedic Hospital, 2001-2007.
19. Executive and Finance Committee, Columbia Medical Associates, Eastside, 2001-2007.
20. Columbia Faculty Practice Organization, Space and Facilities Committee, 2001 to 2005.

UNIVERSITY COMMITTEES

1. Yale Medical Group Satellite Operations Committee, 2015.
2. Yale School of Medicine Graduate Medical Education Committee, 2012-2016.
3. Search Committee Member for Rheumatology, Yale School of Medicine, 2014.
4. Yale Musculoskeletal Institute Steering Committee, 2012-present.
5. Operations Committee, Yale Musculoskeletal Institute, 2013.
6. Search Committee Member for Director of Musculoskeletal Institute, Yale School of Medicine and YNHH, 2013.
7. Search Committee Member for Chairman of Neurosurgery, Yale School of Medicine and YNHH, 2013.
8. Search Committee, Arthroplasty Surgeon, Brown University Dept. of Orthopaedic Surgery, 2008 to 2011.
9. Search Committee, Director of Research, Rhode Island Hospital Orthopaedic Foundation, 2007-2009.

UNIVERSITY TEACHING ROLES

1. Shoulder and Elbow Fellowship Founder and Director, Yale University Shoulder and Elbow Fellowship, 2011 - present.
2. Thesis Evaluator, Yale Physician Assistant Program, 2012-present.
3. Brown Alpert Medical School Clinical Faculty, Doctoring Course, 1st and 2nd year medical students, 2009 to present.
4. Brown Alpert Medical School Clinical Faculty, Longitudinal clinical clerkship in orthopaedic surgery, 4th year medical student, 2009.
5. Shoulder and Elbow Fellowship Founder and Co- Director, Brown University Shoulder and Elbow Fellowship, 2009.
6. Faculty Advisor, Columbia University Medical School Clinical Selective, 2000-2007.
7. Faculty, Columbia University Center for Shoulder, Elbow and Sports Medicine Fellowship
 - a. Trained 14 fellows (two fellows per year), 2000-2007.
8. Faculty, Minimally Invasive Shoulder and Elbow Surgery – 2007 Update, Columbia University CME Course, May 12, 2007.
9. Chairman, Orthopaedic Research and Education Foundation New York Metropolitan Area Resident's Conference, Columbia University, New York, NY, May, 2007.

10. Faculty, Shoulder and Elbow Update: Arthroscopy to Arthroplasty. Columbia Orthopaedics CME Course, May 7, 2005.
11. Faculty, Columbia University School for Physical Therapy, September, 2004.
12. Faculty, Current Concepts in the Management of the Shoulder and Elbow in Athletes, Columbia University CME Course, May 2004.
13. Chairman, Orthopaedic Research and Education Foundation New York Metropolitan Area Resident's Conference, Columbia University, New York, NY, May 9, 2003.
14. Faculty, Current Concepts in the Management of the Lower Extremity, Columbia University, June 7, 2003
15. Faculty: Orthopaedics for the Primary Care Physician, Columbia University, June, 2002

OTHER TEACHING ROLES

1. 2017: AAOS Instructional Course Lectures: *Complex Shoulder Arthroplasty*, San Diego, CA, March 2017.
2. 2017: AAOS Instructional Course Lectures: *Elbow Arthroplasty: Lessons Learned from the Past and Directions for the Future*, San Diego, CA, March 2017.
3. 2017: *Shoulder Arthroplasty*, New England Shoulder and Elbow Society, Jay Peak, VT., Feb 10, 2017.
4. 2017: *Biologic Treatments for Glenohumeral Arthritis: Do They Work?*, New England Shoulder and Elbow Society, Jay Peak, VT., Feb 10, 2017.
5. 2016: AAOS Course: *Anatomic and Reverse Total Shoulder Arthroplasty: State of the Art*, Chicago, IL. November 4-6, 2016
6. 2016: *Reverse Shoulder Arthroplasty* Webinar, AAOS, October 26, 2016.
7. 2016: *Shoulder Arthroplasty*, New England Shoulder and Elbow Society, Jay Peak, VT., Feb, 2016.
8. 2016: AAOS Now Forum: How Good an Orthopaedist Are You? Risk Stratification and Quality of Care Reporting, Orlando, FL March 7, 2016.
9. 2016: AAOS Instructional Course Lectures: *Complex Shoulder Arthroplasty*, Las Vegas, NV, March 2016.
10. 2016: AAOS Instructional Course Lectures: *Elbow Arthroplasty: Lessons Learned from the Past and Directions for the Future*, Las Vegas, NV, March 2016.
11. 2016: *Total Elbow Arthroplasty*, UMASS Grand Rounds, May 11, 2016.
12. 2015: *Hot Topics Debates in Shoulder Arthroplasty: From Principles of Management to New Technologies*, AAOS Annual Meeting, Las Vegas, NV, March 25, 2015.
13. *Hot Topics Debates in Shoulder Arthroplasty: From Principles of Management to New Technologies*, AAOS Annual Meeting, Las Vegas, NV, March 25, 2015.

14. *Current Results and the Future of Patient Specific Instrumentation in Shoulder Replacement Surgery*, AAOS Annual Meeting, Las Vegas, NV, March 25, 2015.
15. *Controversies and Emerging Technologies for Fellows in Shoulder and Elbow Arthroplasty*, Las Vegas, NV, Oct. 2, 2014.
16. *Reverse Shoulder Arthroplasty for Fracture*, New England Shoulder and Elbow Society, Jay Peak, VT., Feb 6, 2014.
17. *Masters Symposium in Shoulder Arthroplasty*, Chicago, IL, Sept. 27-28, 2013.
18. Chairman, Yale Shoulder and Elbow Residents' and Fellows' Course: *New Technologies in Shoulder and Elbow Surgery 2013: Arthroscopy to Arthroplasty*, New Haven, CT, August 15-16, 2013.
19. *Non-arthroplasty Management of Elbow Arthritis*, American Society of the Surgery of the Hand (ASSH) Advanced Techniques in Elbow Reconstruction, Chicago, IL, August 8-9, 2013.
20. *Surgical Management of Cubital Tunnel Syndrome*, Columbia Shoulder Society, West Palm Beach, FL, June 29, 2013.
21. Faculty and Moderator, Latin American Shoulder and Elbow Arthroplasty Training: (Zimmer BF, TM Glenoid , TM Reverse, and CM Elbow)
 - a. Feb 23-24, 2015
 - b. July 24-25, 2014
 - c. May 27-28, 2014
 - d. October 16-17, 2013
 - e. July 23-24, 2013
 - f. May 1-2, 2013
22. *The Shoulder: Anatomy and Physical Exam*, Yale Musculoskeletal Course for Primary Care Physicians, May 3, 2013.
23. AAOS Symposium: *Elbow Trauma Gone Bad*, Chicago, IL, March 19, 2013.
24. AAOS Moderator: *Shoulder and Elbow Miscellaneous*, Chicago, IL, March 22, 2013.
25. *Reverse Shoulder Arthroplasty Debate*, New England Shoulder and Elbow Society, Jay Peak, VT., Feb 9, 2013.
26. *Current Concepts in Shoulder Instability*, Mt. Sinai Medical Center Grand Rounds, New York, NY, Feb. 5, 2013.
27. Yale Orthopaedics Grand Rounds: *Shoulder Instability in 2012, An International Perspective*, Nov. 16, 2013.
28. Co- Chairman and Moderator, Reverse Shoulder Arthroplasty Medical Education, Dallas, TX, November 17, 2012.
29. Course Faculty, The Elbow, AAOS Orthopaedic Learning Center, October 25, 2012.
30. AAOS Symposium: *Elbow Trauma Gone Bad*, Chicago, IL, March, 2013.
31. Co- Chairman and Moderator, Reverse Shoulder Arthroplasty Medical Education, Dallas, TX, November 17, 2012.
32. Course Faculty, The Elbow, AAOS Orthopaedic Learning Center, October 25, 2012.

33. Featured Guest Speaker, Zimmer National Sales Training Meeting, Orlando, FL. January 21, 2012
34. Zimmer Medical Education Event, San Diego CA, Feb, 2011.
35. Co- Chairman and Moderator, Proximal Humerus Fractures Solutions - Extraumities Medical Education, Dallas, TX, June 7, 2010
36. Surgeon Faculty and Facilitator, Shoulder Arthroplasty Training: (Tornier Ascend, Ascend Flex, and Aequalis)
 - a. Minneapolis. MN, September 20, 2013
37. Surgeon Faculty and Facilitator, Shoulder and Elbow Arthroplasty Training: (Zimmer BF, TM Glenoid, TM Reverse, CM and Nexel Elbow)
 - 1) Providence, RI, August 16, 2014
 - 2) Miami, FL, July 24-25, 2014
 - 3) Miami, FL, May 27-28, 2014
 - 4) Bethlehem, PA, April 25, 2014
 - 5) Detroit, MI, March 6, 2014
 - 6) Miami, FL, December 12, 2013
 - 7) Miami, FL, October 16-17, 2013
 - 8) Pittsburgh, PA, October 3, 2013
 - 9) Parsippany, NJ, September 25, 2013
 - 10) Las Vegas, NV, Aug 2, 2013
 - 11) Miami, FL, July 22, 2013
 - 12) Tampa, FL, June 22-23, 2013
 - 13) Miami, FL, May 1-2, 2013
 - 14) Dallas, TX, Nov. 17, 2012
 - 15) Iowa City, IA, Oct 6, 2012
 - 16) Miami, FL, Oct 3-4, 2012
 - 17) Iowa City, IA, Oct 6, 2012
 - 18) Miami, FL, Oct 3-4, 2012
 - 19) Providence, RI, August 18, 2012
 - 20) Miami, FL, July 18-19, 2012
 - 21) State College, PA, July 13, 2012
 - 22) San Antonio, TX, June 28, 2012
 - 23) Albany, NY, June 14, 2012
 - 24) Parsippany, NJ, May 18, 2012
 - 25) Celebration, FL, December 7, 2011
 - 26) Chicago, IL, August 5, 2011
 - 27) Parsippany, NJ, July 16, 2011
 - 28) Miami, FL April 15-16, 2011
 - 29) Warsaw, IN Dec 10, 2010
 - 30) Parsippany, NJ, Oct 22, 2010
 - 31) Minneapolis, MN, Oct 23, 2010
 - 32) Parsippany, NJ, August 14, 2010
 - 33) Parsippany, NJ, May 15, 2010
 - 34) Niagara-on-the-Lake, CAN, March 7, 2010
 - 35) Vancouver, CAN, April 9, 2010
 - 36) Edmonton, CAN, Mar. 26, 2010
 - 37) Parsippany, NJ Jan. 2010

- 38) Celebration, FL, Dec. 2009
- 39) Denver, CO, Nov. 14, 2009
- 40) Toronto, CANADA, Oct. 30, 2009
- 41) Tübingen, GERMANY, Sept. 28-30, 2009
- 42) Tuscon, AZ, September, 2009
- 43) Warsaw, IN, August, 2009
- 44) Seattle, WA, July 11, 2009
- 45) Orlando, FL March 28, 2009.
- 46) Warsaw, IN, Feb. 7, 2009
- 47) Warsaw, IN, Dec. 16, 2008
- 48) Phoenix, AZ, Oct. 11, 2008
- 49) Baltimore, MD, Sept. 27, 2008
- 50) Denver, CO, Sept. 12, 2008
- 51) Warsaw, IN, Aug. 23, 2008
- 52) Warsaw, IN, June 21, 2008
- 53) Denver, CO, June 7, 2008
- 54) Baltimore, MD, May 15, 2008
- 55) Baltimore, MD, Sept. 7, 2007
- 56) Toronto, CANADA, Sept. 15, 2007
- 57) Orlando, FL, May 20, 2007
- 58) Warsaw, IN, May 2, 2007
- 59) Warsaw, IN, Nov. 14, 2006.
38. Chairman and Moderator, Reverse Shoulder Arthroplasty Medical Education, Orlando, FL, March 27, 2009
39. Co- Chairman and Moderator, Proximal Humerus Fractures Solutions - Extraarticular Medical Education, Philadelphia, PA, June 6, 2009
40. Medical Education Training, Zimmer Extremities Group, Las Vegas, NV January 22, 2009
 - a. Shoulder Arthroplasty (Hemiarthroplasty and Total Shoulder) Proximal Humerus Fracture Management
41. Medical Education Content Development, Zimmer Extremities Group, Warsaw, IN, November 7, 2008
 - a. Shoulder Arthroplasty (Hemiarthroplasty and Total Shoulder)
 - b. Proximal Humerus Fracture Management
 - c. Reverse Shoulder Arthroplasty
42. Faculty and Lab Instructor, Elbow Advanced Surgical Skills Course, Mayo Clinic
 - a. May 14-16, 2010
 - b. May 15-16, 2008
 - c. May 20-21, 2006
 - d. May 20-21, 2005
 - e. May 14-16, 2004
 - f. May 17-19, 2003
 - g. May 16-19, 2002
 - h. May 18-19, 2001
43. Faculty and Lab Instructor, Reverse Shoulder Arthroplasty, Depuy Instructional Course, Philadelphia, PA, July 22, 2005.

44. Orthopaedic Learning Center, Chicago IL
 - a. Faculty and Instructor, Advanced Elbow Reconstruction, November 2014.
 - b. Faculty and Instructor, Advanced Elbow Reconstruction, August 9-10, 2013.
 - c. Instructor, Shoulder and Elbow Course, September, 2005.
 - d. Instructor, Shoulder and Elbow Cadaver Skills Course, December 12, 2005
 - e. Instructor, January 29, 2005.
 - f. Instructor, Shoulder and Elbow Course, January 2004.
 - g. Shoulder and Elbow Course, October 2003
 - h. Elbow Arthroscopy, Fractures, Instability, and Stiffness, Chicago, IL, December 6-7, 2002.
 - i. Cadaver Event for Elbow and Shoulder, Chicago, IL. October 7, 2002
45. AAOS Summer Institute, The Elbow, San Diego, CA, Sept. 2001.

MENTORSHIP

1. Yale University Visiting Shoulder/Elbow Fellows
 - a. Alexandre Campos, Rio Di Janeiro, Brazil, May 5-11, 2014.
2. Yale University Shoulder and Elbow Fellows:
 - a. Steve Wiseman DO, Ohio Health, 2016-2017.
 - b. Ana Mata Fink MD, Dartmouth Hitchcock Medical Center, 2015-2016.
 - c. Stacy Gallacher MD, Brown University, 2014-2015.
 - d. Jennie Garver MD, Dartmouth Hitchcock Medical Center, 2013-2014.
3. Yale University International Shoulder and Elbow Fellows:
 - a. Lee Yaari MD, Rabin Med Ctr., Tel Aviv, ISRAEL, 2016-2017.
 - b. Shachar Shapira MD, Tel Hashomer Med Ctr., Tel Aviv, ISRAEL, 2012-2013.
4. Brown University Shoulder and Elbow Fellows:
 - a. Daniel Debottis MD, SUNY Upstate – Syracuse, 2012-2013.
 - b. Douglas Scott, MD, St. Lukes Roosevelt, 2011-2012.
 - c. Lee Kaback, MD, University of Rochester, 2010-2011.
5. Columbia University Shoulder, Elbow and Sports Medicine Fellows (academic appointments):
 - a. Duong Nguyen MD
 - b. Matthew Kippe MD
 - c. Ilya Voloshin MD (University of Rochester, Rochester NY.)
 - d. Kevin Setter MD (Syracuse University, Syracuse NY.)
 - e. Sara Edwards MD (Northwestern University, Chicago, IL)
 - f. John Bell MD (Dartmouth Medical Center, Dartmouth NH.)
 - g. Walter Stanwood MD
 - h. Rolando Izquierdo MD
 - i. Sean Bak MD
 - j. Steve Goldberg MD
 - k. Raymond Carroll MD (Georgetown University, Washington DC.)

- l. Greg Lervick MD
- m. Anand Murthi MD (University of Maryland, Baltimore, MD.)
- n. Greg Bauer MD
6. Orthopaedic Residents:
 - a. Wayne Chan, MD, Yale University Orthopaedic Resident, 2015-present, Shoulder/Elbow Fellow at Rothman Institute, Thomas Jefferson University, 2017-2018.
 - b. Havalee Henry, Yale University Orthopaedic Resident, 2015-present, Shoulder/Elbow Fellow at Brown University, 2017-2018.
 - c. Daniel Aaron, MD, Brown University Orthopaedic Resident, Shoulder/Elbow Fellow at Mount Sinai Medical Center, 2011-2012.
 - d. Benjamin Bruce, MD, Brown University Orthopaedic Resident, Shoulder/Elbow Fellow at Rush Presbyterian, 2012-2013.
 - e. Mary Mulcahey, MD, Brown University Orthopaedic Resident, Sports Medicine Fellow, UCSD, 2013-2014.
 - f. BJ Lee, MD, Brown University Orthopaedic Resident, Sports Medicine Fellow Candidate, 2013-2014.
 - g. Matthew Zimmerman, MD, Brown University Orthopaedic Resident, Fellow Candidate, 2013-2014.
7. Surgery residents:
 - a. Al Proto, MD.
8. Medical Students:
 - a. Frances Xavier, Yale School of Medicine, 2013-present.
 - b. Jared Gelbs, UCONN School of Medicine, 2014- present.
 - c. David Zhu, Yale School of Medicine Medical Student, 2012-present.
 - d. Dennis Kwon, Brown University Medical Student, 2010-2011; Doris Duke Clinical Research Fellowship recipient (2012).
 - e. Michelle Gosselin, Brown University Medical Student, 2009-present.
 - f. Matthew Deren, Brown University Medical Student, 2009 to present.
 - g. Jessica Lee MD, University of Pittsburgh Medical student, 2004-2007; Doris Duke Clinical Research Fellowship recipient (2008).
 - h. Jonathan Packer MD, Orthopaedic Surgery, Yale University Orthopaedic Resident.
 - i. Farnaz Yassaee MD, Orthopaedic Surgery, Lenox Hill.
 - j. Albert Pendleton MD, Orthopaedic Surgery, Emory University.
9. Undergraduate Students
 - a. Jason Young, Yale University Student, 2013.

MEMBERSHIP IN SOCIETIES

1. Association of Bone and Joint Surgeons, elected 2012.
2. American Shoulder and Elbow Society (ASES), Active member, elected 2009.
3. American Orthopaedic Association (AOA), Member since June 13, 2007.
4. American Shoulder and Elbow Society (ASES), Associate member, elected 2005.
5. American Orthopaedic Association (AOA), Emerging Leaders Program, 2004-2007.

6. American Orthopaedic Society for Sports Medicine (AOSSM), member since July 2003.
7. Arthroscopy Association of North America (AANA), member since May 2007.
8. American Academy of Orthopaedic Surgeons (AAOS), member since 2004.
9. Columbia Shoulder Society, member since 2000.
10. Mayo Elbow Club, member since 1999.
11. Orthopaedic Research Society (ORS), member since 1997.
12. American Society of Bone and Mineral Research (ASBMR), member since 1997.
13. Sigma Xi Scientific Research Society, member since 1991.

ORIGINAL PUBLICATIONS/ PEER-REVIEWED JOURNALS

1. Mata-Fink, Ana, Garver, JM, Gallacher S, Javier F, D Zhu, J Young, and Blaine TA: *Revision Strategies for Reverse Shoulder Arthroplasty*, J SHOULDER AND ELBOW ARTHROPLASTY, in press, 2017.
2. Wiseman, S, Nelson SJ, Tyagi V, Kovacevic D, and Blaine TA: *Current Trends in Orthobiologics and Shoulder Surgery*, in press, CURRENT ORTHOPAEDIC PRACTICE, 2017.
3. Gardner L, Sutton K, Chan, W, and Blaine TA: *Shoulder and Labral Injuries in Men's Lacrosse*, AMERICAN JOURNAL SPORTS MED. 2016, Oct;44(10):2675-2681. PMID:27159306
4. Kennedy G, Gowda A, Garver J, and Blaine TA: *Three Step Arthroscopic ECRB release*, ORTHOPEDIC REVIEWS, 8(6081): 117-119, 2016.
5. Churchill RS, Chuinard C, Wiater JM, Friedman R, Freehill M, Jacobson S, Spencer E Jr, Holloway GB, Wittstein J, Lassiter T, Smith M, Blaine TA, Nicholson GP. *Clinical and Radiographic Outcomes of the Simpliciti Canal-Sparing Shoulder Arthroplasty System: A Prospective Two-Year Multicenter Study*. J BONE JOINT SURG AM. 2016 Apr 6;98(7):552-60. doi: 10.2106/JBJS.15.00181. PMID: 27053583
6. Hsiao MS; Cameron KL; Tucker C; Benigni M; Blaine TA; and Owens B: *Incidence and Epidemiology of Shoulder Impingement in the United States Military*, J. SHOULDER ELBOW SURG, 2015 Apr 10. pii: S1058-2746(15)00112-3. doi: 10.1016/j.jse.2015.02.021.
7. Mulcahey M, Cote M, Gallacher S, Kaback L, and Blaine TA: *Factors- Expressed in the Glenoid Labrum in an Animal Model of Glenohumeral Instability*, ORTHOP J SPORTS MED. 2015 Aug 20;3(8):2325967115599733. doi: 10.1177/2325967115599733.PMID:26535392

8. Young J, Gelbs J, Zhu D, Gallacher S, Sutton KS, and Blaine TA: *Upper Extremity Injuries in Equestrian Sports*, THE ORTHOPAEDIC JOURNAL OF SPORTS MEDICINE, 3(9), 2325967115603924 DOI: 10.1177/2325967115603924, 2015.
9. Blaine, TA: *Basic Training in Shoulder Surgery: Investigating Molecular Mechanisms of Rotator Cuff Disease. Commentary and Perspective on an article by Alexander Choo et. al: Muscle Gene Expression Patterns in Human Rotator Cuff Pathology*, JOURNAL BONE JOINT SURG., September, 2014.
10. Deren ME, Behrens SB, Vopat BG, Blaine TA. *Posterior sternoclavicular dislocations: a brief review and technique for closed management of a rare but serious injury*. ORTHOP REv (Pavia). 2014 Mar 12;6(1):5245. doi: 10.4081/or.2014.5245. eCollection 2014 Jan 20. PubMed PMID: 24744842; PubMed Central PMCID: PMC3980158.
11. Kaback, L., Gowda, A., Paller, D., Green, A., Blaine, TA: *Long Head Biceps Tenodesis with a Knotless Suture Anchor: A Biomechanical Analysis*, ARTHROSCOPY JOURNAL, 2014.
12. Varthi A, Piposar J, Chan W and Blaine TA: *Biologic Treatments for Shoulder Pain*, CURRENT ORTHOPAEDIC PRACTICE, July/August 2013; 24(4): 360-4, doi: 10.1097/BCO.0b013e31829a8d5b
13. Zhu D, Gaver JM, J Young, and Blaine TA: *Rotator Cuff Repair Healing And Repair: Recent Advances In Tissue Engineering And Biologic Augmentation*, CURR ORTH PRACTICE, May/June , 25(3), 2014.
14. Vopat BG, Murali J, Gowda AL, Kaback L, Blaine TA. *The global percutaneous shuttling technique tip for arthroscopic rotator cuff repair*. Orthop Rev (Pavia). 13;6(2):5279. doi: 10.4081/or.2014.5279. eCollection 2014 Apr 22. PMID: 25002932; PubMed Central PMCID: PMC4083305.
15. Packer JD, Blaine TA. *Shoulder and elbow arthroplasty in younger patients*. Phys Sportsmed. 2013 Feb;41(1):40-8. doi: 10.3810/psm.2013.02.1998. Review. PubMed PMID: 23445859
16. Got C, Shuck J, Biercevicz A, Paller D, Zimmermann M, Mulcahey M, Blaine TA, Green A: *Biomechanical comparison of parallel vs. 90 - 90 plating of bicolumn distal humerus fractures with intra-articular comminution*, J. HAND SURGERY, 37(12): 2512-18, 2012.
17. Behrens S; Deren M; and Blaine TA: *Tennis elbow treatment: an internal comparison of platelet rich plasma versus contralateral arthroscopic ECRB release in a patient with bilateral lateral epicondylitis*. ORTHOPEDICS, 34(4): 314, 2011.

18. Bruce B; Green A; Blaine TA; and Wesner L: *Brachial plexus blocks in upper extremity orthopedic surgery*, in press, JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS, 20: 38-47, 2012.
19. Blaine TA. *Introduction: arthritis and joint replacement--the upper extremities*. Med Health R I. 2012 Apr;95(4):101. PubMed PMID: 22712186.
20. Kaback L, Green A, and Blaine TA: *Elbow Arthritis and Total Elbow Replacement* in MED HEALTH RI, 95(4): 110-2, 2012.
21. Kaback L, Green A, and Blaine TA: *Glenohumeral Arthritis and Total Shoulder Replacement* in MED HEALTH RI, 95(4): 120-4, 2012.
22. Blaine TA; Cote M; Proto A; Mulcahey M; Lee FY; and Bigliani LU: *IL1- beta induces Expression of Stromal Derived Factor-1 in Subacromial Bursal Cells*, J. ORTHOPAEDIC RESEARCH, 29: n/a. doi: 10.1002/jor.21416, 20:11, 1695-99, 2011.
23. Minematsu H, Shin MJ, Celil Aydemir AB, Seo SW, Kim DW, Blaine TA, Macián F, Yang J, Lee FY. *Orthopedic implant particle-induced tumor necrosis factor-alpha production in macrophage-monocyte lineage cells is mediated by nuclear factor of activated T cells*. Ann N Y Acad Sci. 2007 Nov;1117:143-50. Erratum in: Ann N Y Acad Sci. 2011 Jun;1228:179. Young-In Lee, Francis [corrected to Lee, Francis Young]. PubMed PMID: 18056040.
24. Edwards SL, Packer JD, Lee JA, Bell JE, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *Superior Results with Non-operative Management of Superior Labral Tears*. AMERICAN JOURNAL OF SPORTS MEDICINE, 38:1456-61, 2010.
25. Gosselin M, Mulcahey M, and Blaine TA: *Treatment of Chronic Shoulder Pain*, JOURNAL OF MUSKULOSKELETAL MEDICINE, October 2010.
26. Gosselin M, Mulcahey M, and Blaine TA: *Diagnosis and Management of Chronic Shoulder Pain*, JOURNAL OF MUSKULOSKELETAL MEDICINE, August 2010.
27. Blaine TA, Moskowitz R, Udell J, Skyhar M, Levin R, Friedlander J, and Altman R, on behalf of the HUPS Clinical Study Group: *Treatment of persistent shoulder pain due to osteoarthritis, rotator cuff tear, and/or adhesive capsulitis with HYALGAN: A randomized, controlled trial*. JOURNAL BONE AND JOINT SURG.90A: 970-979, May 2008.
28. Barwood S, Blaine TA, Setter KJ, Lee, J., Levine, WN, Wiater JM, and Bigliani LU: *The Low Prevalence of Early Radiolucencies About A Pegged Glenoid Component Using Cement Pressurization*, J SHOULDER ELBOW SURG., 17: 703-708, 2008.

29. Levine WN, Kashyap, CP, Bak, SF, Ahmad, CS, Blaine, TA, and Bigliani, LU: *Non-operative management of idiopathic adhesive capsulitis*, J SHOULDER ELBOW SURG., 16 (5): 569-73, 2007. Epub 2007 May 24.
30. Ugwonali, O and Blaine TA: *Acromioclavicular Joint Reconstruction*, TECHNIQUES IN SHOULDER AND ELBOW SURGERY. 7(1):27-35, March 2006.
31. Fujisawa M, Blaine TA, Ankem HK, Moon YL, Kim YS, Bigliani LU and Masatoshi N: *Repetitive subacromial impingement induces inflammatory molecules. An in vitro study with human subacromial bursal cells*: JAPANESE JOURNAL OF ORTHOPAEDIC SPORTS MEDICINE 26(1): 85, 2006.
32. Kim YS, Bigliani LU, Fujisawa M, Murakami K, Chang SS, Lee HJ, Lee FY, Blaine TA.: *Stromal Cell-Derived Factor 1 (Sdf-1; Cxcl12) Is Increased In Subacromial Bursitis And Downregulated By Steroid and Non-steroidal Anti-inflammatory Agents*. J. ORTHOP. RES, 24(8): 1756-1764, 2006.
33. Levine, WN, Soong M, Ahmad C, Blaine TA, and Bigliani LU: *Arthroscopic distal clavicle resection: A comparison of bursal and direct approaches*. ARTHROSCOPY, 22(5): 516-520, 2006.
34. Voloshin I, Gelinas J, Maloney M, O'Keefe RJ, Bigliani LU, and Blaine TA: *Pro-inflammatory cytokines and metalloproteases are expressed in the subacromial bursa in patients with rotator cuff disease*. ARTHROSCOPY, 21(9): 1076, 2005.
35. Lee, FY, Kim DW, Karmin JA, Hong, D, Chang SS, Fujisawa M, Takayanagi H, Bigliani LU, Blaine TA, and Lee HJ: *micro-Calpain regulates receptor activator of NF-kappaB ligand (RANKL)-supported osteoclastogenesis via NF-kappaB activation in RAW 264.7 cells*, J BIOL CHEM. 2005 Aug 19;280(33):29929-36. Epub 2005 Jun 13.
36. Blaine TA, Kim YS, Voloshin I, Chen D, Murakami K, Chang SS, Winchester R, Lee FY, O'Keefe RJ, and Bigliani LU: *The molecular pathophysiology of subacromial bursitis in rotator cuff disease*, J. SHOULDER AND ELBOW SURGERY, 14 (1S): 84S-89S, Feb., 2005.
37. Blaine, TA, Adams, RA, and Morrey, BF: *Conversion of Interposition Arthroplasty to Semi-constrained Total Elbow Arthroplasty in Elbow Arthritis*, JOURNAL OF BONE & JOINT SURGERY, 87-A (2); 286-92, Feb., 2005.
38. Liao, T., Yurgelan, M., Chang, SS., Zhang, HZ., Murakami, K., Blaine, TA, Parisien, M., Kim, W., Winchester, RJ., and Lee, FY.: *Recruitment of osteoclast precursors by stromal cell derived factor-1 (SDF-1) in giant cell tumor of bone*. J. ORTHOP. RES., 23(1): 203-9, Jan. 2005.

39. Moskowitz R and Blaine TA: *An Overview of Treatment Options for Persistent Shoulder Pain*, AMERICAN JOURNAL OF ORTHOPAEDICS, Am J Orthop. 2005 Dec;34(12 Suppl):10-5.
40. Ankem H and Blaine TA: *Revision Shoulder Arthroplasty*, TECHNIQUES IN SHOULDER AND ELBOW SURGERY. 6(4):189-198, December 2005.
41. Carroll RM, Izquierdo R, Vazquez M, Blaine TA, Levine WN, Bigliani LU: *Conversion of failed hemiarthroplasty to total shoulder arthroplasty for glenoid arthrosis*. JOURNAL OF SHOULDER AND ELBOW SURGERY. 13(6): 599-603, 2004.
42. Chang, SS., Suratwala, S., Jung, KM., Doppelt, J., Zhang, HZ., Blaine, TA., Kim, TW., Winchester, RJ., and Lee, FY.: *Bisphosphonates may reduce recurrence in giant cell tumor of bone by inducing apoptosis*. CLIN. ORTHO. REL RES., 426: 103-9, 2004.
43. Sanchez-Sotelo J, Barwood S, and Blaine TA: *Current Concepts in Elbow Fracture Care*, CURR. OPIN. ORTHOP., 15 (4): 300-310, August, 2004.
44. Park MC, Murthi AM, Roth NS, Blaine TA, Levine WN, Bigliani LU. *Two-part and three-part fractures of the proximal humerus treated with suture fixation*. JOURNAL OF ORTHOPAEDIC TRAUMA 17(5): 319-25, 2003.
45. Ahmad, CS, Freehill MQ, Blaine TA, Levine WN, Bigliani LU: *Anteromedial Capsular Redundancy and Labral Deficiency in Shoulder Instability*. AMERICAN JOURNAL OF SPORTS MEDICINE 31: 247-252, 2003.
46. Carroll, R., Osgood, G., and Blaine, TA: *Radial Head Fractures: Repair, excise, or replace?*, CURR. OPIN. ORTHOP., 13(4):315-322, August, 2002
47. Park, M., Blaine, TA, and Levine, WN: *Shoulder Dislocation in Young Athletes: Current Concepts in Management*, THE PHYSICIAN AND SPORTS MEDICINE, 30: 41-48, 2002.
48. Blaine, TA and Sanchez-Sotelo, J: *Radial Head Arthroplasty*, SEMINARS IN ARTHROPLASTY, 12(2): 72-80, 2001.
49. Blaine, TA and Bigliani, LU: *Surgical Treatment of Shoulder Problems in Throwing Sports: Anterior Inferior Instability - Open Treatment*, SPORTS MEDICINE AND ARTHROSCOPY REVIEW, 8(3): 305-314, 2000.
50. Blaine, TA., Pollice, PF., Rosier, RN., Reynolds, PR., Puzas, JE., and O'Keefe, RJ. *Modulation of cytokine production in titanium stimulated human monocytes by pharmacologic agents: the role of cAMP signaling mechanisms*. The Journal of

Bone & Joint Surgery, 79-A, 10:1519-28, October, 1997. MOSBY YEARBOOK OF ORTHOPAEDICS, 1998.

51. Blaine, TA., Rosier, RN., Puzas, JE., Looney, RJ., Reynolds, PR., Reynolds, SD., and O'Keefe, RJ. *Increased levels of tumor necrosis factor-alpha and interleukin-6 protein and messenger RNA in human peripheral blood monocytes due to titanium particles.* THE JOURNAL OF BONE & JOINT SURGERY, 78-A, 8:1181-92, August, 1996.
52. Peterson, DN., Blaine, TA., Lichtler, A., Rowe, DW., and Kream, BE. *Glucocorticoid regulation of α -1 collagen promoter constructs in stably transfected osteoblastic Py-1a cells.* JOURNAL OF BONE & MINERAL RESEARCH, 6: S204, 1991.
53. Taylor, T., Wondisfort, FE., Blaine, T., and Weintraub, BD. *The paraventricular nucleus of the hypothalamus has a major role in thyroid hormone feedback regulation of thyrotropin synthesis and secretion.* ENDOCRINOLOGY, 126:317-324, 1990.

TEXTBOOKS/BOOK CHAPTERS

1. Fink AM, Kovacevic DK, and Blaine TA: *Analgesic Options for Total Shoulder Replacement Surgery* in Postsurgical Pain Management in Orthopedic Surgery, Halaszinski T, Sinatra R, and Barrington J. PCI Books, West Islip, NY. 2016.
2. Fink AM, Kovacevic DK, and Blaine TA: *Role of Total Elbow Arthroplasty in the Management of Elbow Instability* in THE UNSTABLE ELBOW: AN EVIDENCE BASED APPROACH TO EVALUATION AND MANAGEMENT, Eds. R. Tashjian, 2016.
3. Lamikanra O, Tomaszewski P, Varthi A, Yacob, A, and Blaine TA: *Medial Elbow Pain* in ESSENTIALS IN ELBOW SURGERY: A COMPREHENSIVE APPROACH TO COMMON ELBOW DISORDERS, Eds: Antuna S and Barco R, 2014.
4. Garver J, Blaine, TA, Green A: *Bankart repair and inferior capsular shift*, in OPERATIVE TECHNIQUES IN ORTHOPAEDIC SURGERY: SHOULDER AND ELBOW, Eds.: Wiesel S, (sections eds. Ramsey M and Williams G,) Lippincott Williams Wilkins, 2013.
5. Kaback L, Green A, and Blaine TA: *Proximal Humerus Fractures*, in HAND AND UPPER EXTREMITY SURGERY, 2013.
6. Blaine, TA, Green A, and Bigliani LU: *Bankart repair and inferior capsular shift*, in OPERATIVE TECHNIQUES IN ORTHOPAEDIC SURGERY:

- SHOULDER AND ELBOW, Eds.: Wiesel S, (sections eds. Ramsey M and Williams G,) Lippincott Williams Wilkins, 2010.
7. Edwards, S, Blaine TA, Bell, JE, Marion CJ, and Bigliani LU: *Minimally invasive approach for shoulder arthroplasty* in MINIMALLY INVASIVE SURGERY IN ORTHOPAEDICS, Eds: Scuderi G., Tria A., and Berger R., pps. Springer 2010.
 8. Packer, JD., Nguyen, D., Kippe, MA., and Blaine, TA: *Lateral epicondylitis*, in THE ATHLETE'S ELBOW, AAOS Monograph Series 39, pps. 17-25, 2008.
 9. Blaine, TA and Edwards,S: *Non-arthroplastic treatment of glenohumeral arthritis*, in ORTHOPEDIC KNOWLEDGE UPDATE, SHOULDER AND ELBOW 3 Ed. Leesa Galatz, pps. 353-9, 2008.
 10. Editor, MINIMALLY INVASIVE SHOULDER AND ELBOW SURGERY, Eds.: Levine W, Blaine TA, and Ahmad CS. Informa Healthcare USA, New York, NY, 2007.
 11. Edwards S. and Blaine TA: *Single-Row Arthroscopic Rotator Cuff Repair*, in MINIMALLY INVASIVE SHOULDER AND ELBOW SURGERY, Eds.: Levine W, Blaine TA, and Ahmad CS. Informa Healthcare USA, New York, NY, pps. 231-46, 2007.
 12. Brown G, Ankem HK, Bell JE, and Blaine TA: *Elbow Arthroscopy: Loose Body Removal and Synovial Plica Debridement*, in MINIMALLY INVASIVE SHOULDER AND ELBOW SURGERY, Eds.: Levine W, Blaine TA, and Ahmad CS. Informa Healthcare USA, New York, NY, pps. 331-40, 2007.
 13. Blaine TA, O'Driscoll SW, Umansky SC and Kibler, WB: *Management of Distal Humerus Malunions* in ADVANCED RECONSTRUCTION: ELBOW, Eds. Yamaguchi K, King GJW, McKee MD and O'Driscoll SW., 363-374, AAOS, 2007.
 14. Bell J, Edwards S, and Blaine TA: *Surgical Approaches to the Shoulder* in ADULT RECONSTRUCTIVE SURGERY, Eds Daniel Berry and Scott Steinman, Lippincott Williams and Wilkins, pps. 213-219, 2007.
 15. Blaine, TA: *Mini-incision shoulder arthroplasty*, ORTHOPEDICS TODAY. 2006, 26:18.
 16. SHOULDER ARTHROSCOPY, Ed.: Blaine, TA, American Academy of Orthopaedic Surgeons Monograph Series, 2006.

17. Blaine TA, Voloshin I, and Bigliani LU: *Minimally invasive approach for shoulder arthroplasty* in MIS TECHNIQUES IN ORTHOPAEDICS, Eds: Scuderi G., Tria A., and Berger R., Springer 2006.
18. Blaine TA and Miller S.: *Subacromial Decompression/Rotator Cuff Repair*, in: SHOULDER ARTHROSCOPY, Ed.: Blaine, TA, American Academy of Orthopaedic Surgeons Monograph Series, 2006.
19. Blaine, TA and Bigliani, LU: *Rotator Cuff Disorders* in TENDON INJURIES: BASIC SCIENCE AND CLINICAL MEDICINE, Eds. Maffulli N, Renstrom P and Leadbetter WB, Springer-Verlag, London, 2005.
20. Setter KS, Voloshin I, and Blaine TA, *Pre-Operative Evaluation and Surgical Approaches* in SHOULDER ARTHROPLASTY, Eds. Bigliani LU and Flatow EL, Springer-Verlag, New York, 2005.
21. Editor, Shoulder Section in ESSENTIALS OF MUSKULOSKELETAL IMAGING, Eds. Johnson TR and Steinbach LS, AAOS, 2004.
22. Editor, Elbow and Forearm Section in ESSENTIALS OF MUSKULOSKELETAL IMAGING, Eds. Johnson TR and Steinbach LS, AAOS, 2004.
23. Blaine TA, Levine WN, Bigliani LU: *Fractures of the Proximal Humerus* in THE SHOULDER, 3rd Edition, Editors: Charles A. Rockwood, Jr. and Frederick A. Matsen, III, MD, W.B. Saunders., 2004.
24. Bauer, G., Blaine, TA, and Bigliani, LU: *Arthroscopic Debridement and Capsular Release* in MASTER TECHNIQUES IN ORTHOPAEDIC SURGERY: SHOULDER ARTHROSCOPY, Eds. Tibone, Savoie, and Shaffer, B., 2003.
25. Bauer, G and Blaine, TA: *Surgical Approaches to the Humerus* in FRACTURES OF THE SHOULDER GIRDLE, Eds. Levine WN, Marra G, and Bigliani, LU , 2003.
26. Murthi, A., Blaine, TA, and Bigliani, LU: *Recurrent Multidirectional Instability after Inferior Capsular Shift* in CONTEMPORARY MANAGEMENT OF COMPLEX UPPER EXTREMITY DISORDERS, Eds. Brems, J., 2001.
27. Blaine, TA and Bigliani, LU: *Arthroscopy for the Arthritic Shoulder*, ORTHOPAEDIC KNOWLEDGE UPDATE, Shoulder and Elbow, AAOS 2001.

28. Blaine, TA, Freehill, MQ, and Bigliani, LU.: *Technique of Open Rotator Cuff Repair*, in INSTRUCTIONAL COURSE LECTURES 50: 43-52, AAOS 2001.

SCHOLARLY WORK IN OTHER PUBLISHED MEDIA

1. Blaine TA: *Elbow Arthritis*, Shoulder & Elbow Maintenance of Certification Exam, Arthroscopy Association of North American and American Shoulder and Elbow Surgeons, 2015.
2. *Adhesive Capsulitis and Frozen Shoulder Webinar*, Question and Answer Facilitator, Journal of Bone and Joint Surgery and Journal of Orthopaedic and Sports Physical Therapy, Dec. 4, 2013.
3. Blaine TA and Sawyer G: *The Elbow: Anatomy and Surgical Approaches*, Elbow Curriculum Guide, American Shoulder and Elbow Surgeons Online Publication, 2013, http://www.ases-assn.org/media/elbow_curriculum2.pdf
4. Editor, *Shoulder Arthroplasty 2nd Edition*, DVD, American Academy of Orthopaedic Surgeons, 2010
5. Blaine, TA., Bell, JE, and Edwards, S.: *Minimally Invasive Total Shoulder Arthroplasty*: Surgical technique video. AAOS 2007 Annual Meeting, San Diego, CA, 2007. <http://www4.aaos.org/product/productpage.cfm?code=17114>
6. Edwards S, Bell, JE, and Blaine TA: *Inflammation and shoulder pain – A perspective on rotator cuff disease, adhesive capsulitis, and osteoarthritis*. Touch Briefings, 2006. <http://www.touchbriefings.com/musculoskeletal.htm>
7. *Emerging Options in Osteoarthritis Pain*, CME Teleconference, Haymarket Medical Series, Sept – Dec, 2006.
8. *Surgical Management of Osteoarthritis*, Episode 412, PBS Documentary, ITV, June 2005.
9. *Recent advances in the treatment of chronic shoulder pain*, Research Report with Frank Fields, Telecare, May 24, 2005.
10. Setter, K., Blaine, TA. and Rosenwasser, M. : *Management of the Stiff Elbow*, Orthopaedic Knowledge Online, 2005. http://www5.aaos.org/oko/shoulder_elbow/stiff_elbow/pathophysiology/pathophysiology.cfm

PUBLICATIONS IN PREPARATION

1. Blaine, T A; Cote, M A; Ortega, S.; Lee, F Y; Bigliani, L U; Chen, Q *CXCR4 blockade (AMD 3100 and T140 analog) inhibits SDF-1 α expression and cell migration in human subacromial bursa cells*, in review, J. ORTHOPAEDIC RESEARCH, in preparation.
2. Sang Hoohn Lhee; Boselli K; Marion C; Blaine TA; and Bigliani LU: *Conversion of failed total shoulder arthroplasty to hemiarthroplasty: clinical and radiographic evaluation*. Under revision, JOURNAL BONE AND JOINT SURG.
3. Bell JE, Packer JD, Lee JA, Edwards SL, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *The Operative Management of Rotator Cuff Disease Results in Superior Pain Relief and Functional Improvement Compared to Nonoperative Treatment*. ORTHOPAEDIC JOURNAL OF SPORTS MEDICINE, in preparation.
4. Levine WN; Bunting H; Macaulay A; Goroochum P; Freehill M; Wiater M; Shillingford J; Bigliani L; Ahmad C; and Blaine TA: *Evaluation of Total Shoulder Arthroplasty for Primary Glenohumeral Osteoarthritis: A Prospective Multicenter Study*, in preparation.
5. Fujisawa M, Blaine TA, Minematsu H, Lee FY, Levine WN, and Bigliani LU: *Repetitive Mechanical stress simulated subacromial impingement induces activation of inflammatory molecules in human subacromial bursa cells*, JOURNAL OF ORTHOPAEDIC RESEARCH, in preparation.
6. Zimmerman M, Morgan B, Bauer G, Lee FY, O'Keefe RJ, Bigliani LU, and Blaine TA: *Cartilage Differentiation in the Coracoacromial Ligament in Patients with Impingement Syndrome*, JOURNAL SHOULDER ELBOW SURG., In preparation.
7. Packer J, Bell J, Edwards S, Ankem HK, Ahmad CS, and Blaine, TA: *A Radiographic and Anatomic Comparison of Injection Techniques in the Treatment of Lateral Epicondylitis*. in revision, ARTHROSCOPY JOURNAL.
8. Kim P, Ugwonalu O, Heyworth B, Hyuk-Choi C, Levine WN, Bigliani LU, and Blaine TA: *Radiographic Assessment of glenohumeral relationships in Total Shoulder Arthroplasty*. In preparation.
9. Fujisawa M; Kim Y-S; Murakami K; Chang S-S; Lee H-J; Lee FY; Bigliani LU; Blaine TA: *Gene expression profile of extracellular matrix and adhesion molecules in the subacromial bursa of patients with impingement syndrome*. In preparation.

10. Blaine TA, and O'Driscoll SW: *Recontouring osteotomy for the treatment of extension malunions of the distal humerus*. In preparation.
11. Ankem, HK, Silver GC, and Blaine TA: *Postero Lateral Radio Capitellar Impingement Due To Synovial Plica – A Diagnostic Pitfall*. In preparation.

SCIENTIFIC PRESENTATIONS (NATIONAL/INTERNATIONAL)

1. Packer J, Varthi A, Zhu D, Javier F, Garver J, Tommasini S, and Blaine TA: *Ibuprofen impairs capsulolabral healing in a Rat Model of Anterior Glenohumeral Instability*, AAOS Annual Meeting, ASES Specialty Day, Orlando, FL, March 2016.
2. Packer J, Varthi A, Zhu D, Javier F, Garver J, Tommasini S, and Blaine TA: *Ibuprofen impairs capsulolabral healing in a Rat Model of Anterior Glenohumeral Instability*, ORS Annual Meeting, Las Vegas, NV, 2015.
3. Packer J, Varthi A, Zhu D, Javier F, Garver J, Tommasini S, and Blaine TA: *Ibuprofen impairs capsulolabral healing in a Rat Model of Anterior Glenohumeral Instability*, AOA Annual Meeting, 2015.
4. Lee BJ, Cote M, Bruce B, Blaine TA: *Platelet Rich Plasma Derived Growth Factor (PDGF and TGF-beta) Stimulation of Inflammation in Human Subacromial Bursal Cells*, Podium presentation at Association of Bone and Joint Surgeons Annual Meeting, New York, NY, May 14, 2014
5. Blaine, TA: *Biomechanical Analysis of a New Technique for Long Head Biceps Tenodesis*, Wurzburg, GERMANY, April 5, 2012
6. Blaine, TA: *Glenohumeral instability: Factors Important in Labral Healing*, Magdeburg, GERMANY, April 11, 2012.
7. Blaine, TA: *Glenohumeral instability: Factors Important in Labral Healing*, Halle, GERMANY, April 12, 2012.
8. Blaine, TA: *Trabecular Metal Uses in Shoulder Arthroplasty*, Salzburg, AUSTRIA, April 16, 2012
9. Blaine, TA: *Glenohumeral instability: Factors Important in Labral Healing*, Zurich, SWITZERLAND, April 20, 2012.
10. Blaine, TA: *Bipolar Radial Head Arthroplasty for Complex Elbow Fracture Dislocations*, Saar, GERMANY, April 22, 2012.

11. Blaine, TA: *Biomechanical Analysis of a New Technique for Long Head Biceps Tenodesis*, Dusseldorf, GERMANY, April 23, 2012
12. Blaine, TA: *Glenohumeral instability: Factors Important in Labral Healing*, Bonn, GERMANY, April 25, 2012.
13. Blaine, TA: *Bipolar Radial Head Arthroplasty for Complex Elbow Fracture Dislocations*, Essen, GERMANY, April 26, 2012.
14. Blaine, TA: *Glenohumeral instability: Factors Important in Labral Healing*, Halle, Baden, Baden, GERMANY, April 29, 2012.
15. Andrew Green, Benjamin Bruce, Byung Lee, Steve Behrens, Theodore Blaine: *Early Complications of Anatomic Total Shoulder Arthroplasty*, AAOS Annual Meeting, San Francisco, CA, Feb. 7-11, 2012.
16. Mary Mulcahey, Mindy Cote, Stacey Gallacher, Lee Kaback, Theodore Blaine: *Factors- Expressed in the Glenoid Labrum in an Animal Model of Glenohumeral Instability*, AAOS Annual Meeting, San Francisco, CA, Feb. 7-11, 2012.
17. Daniel Aaron, Benjamin Bruce, Mindy Cote, David Paller, Lee Kaback, Francis Lee, Louis Bigliani, Theodore Blaine: *Novel Anti-inflammatory Agent AMD3100 Does Not Impede Rotator Cuff Tendon Healing in an Animal Model*, AAOS Annual Meeting, San Francisco, CA, Feb. 7-11, 2012.
18. Lee A. Kaback, Daniel L. Aaron, Andrew S. Neviasser, Mary K. Mulcahey, Evan L. Flatow, Bradford O. Parsons, Theodore A. Blaine, MD: *Functional and Radiographic Outcomes using a Trabecular Metal Prosthesis in the Treatment of Three and Four Part Proximal Humerus Fractures*, ASES Annual Meeting, San Francisco, CA, Feb. 7-11, 2012. Neer Award Nomination.
19. Daniel Aaron(1); Benjamin Bruce(1); Mindy Cote(1); David Paller(1); Lee Kaback(1); Douglas Scott(1); Francis Lee(2); Louis Bigliani(2); Theodore Blaine(1): *CXCR4 Inhibitor (AMD 3100) Does Not Impede Rotator Cuff Tendon Healing in an Animal Model*, Rhode Island Shoulder and Elbow Service, Brown Alpert Medical School, Providence, RI, United States. 2. Center for Orthopaedic Research, Columbia University, New York, NY, United States, ORS Annual Meeting, San Francisco, CA, Feb. 4-7, 2012.
20. Byung Lee(1); Benjamin Bruce(1); Mindy Cote(1); Theodore Blaine(1): *Platelet Rich Plasma Stimulation in Human Subacromial Bursal Cells*, ORS Annual Meeting, San Francisco, CA, Feb. 4-7, 2012.
21. Mary Mulcahey(1); Mindy Cote(1); Stacey Jaumot(1); Lee Kaback(1); Theodore Blaine(1): *Factors Expressed in the Glenoid Labrum in an Animal Model of Glenohumeral Instability*, ORS Annual Meeting, San Francisco, CA, Feb. 4-7,

2012.

22. Mary Mulcahey(1); Mindy Cote(1); Stacey Jaumot(1); Lee Kaback(1); Douglas Scott(1); Theodore Blaine(1): *Biomechanical Testing of Glenohumeral Stability in an Animal Model of Acute Anterior Shoulder Instability*, ORS Annual Meeting, San Francisco, CA, Feb. 4-7, 2012.
23. Lee Kaback(1); David Paller(1); Andrew Green(1); Theodore Blaine(1): *A Biomechanical Analysis of Long Head Biceps Tenodesis Techniques in the Bicipital Groove*, ORS Annual Meeting, San Francisco, CA, Feb. 4-7, 2012.
24. Levine WN; Bunting H; Macaulay A; Goroochum P; Freehill M; Wiater M; Shillingford J; Bigliani L; Ahmad C; and Blaine TA: *Evaluation of Total Shoulder Arthroplasty for Primary Glenohumeral Osteoarthritis: A Prospective Multicenter Study*, Podium presentation, Closed Meeting of the American Shoulder and Elbow Surgeons, White Sulphur Springs, West Virginia, Oct. 13, 2011. (¹Brown University and ²Columbia University Medical Center.)
25. Kaback LA¹; Aaron DL¹; Neviasser AS²; Mulcahey MK¹; Flatow EL²; Parsons BO²; Blaine TA¹: *Functional and Radiographic Outcomes using a Tantalum Porous Implant in the Treatment of Three and Four Part Proximal Humerus Fractures*, Podium presentation, Closed Meeting of the American Shoulder and Elbow Surgeons, White Sulphur Springs, West Virginia, Oct. 14, 2011. (¹Brown University and ²Mount Sinai Medical Center.)
26. Lee BJ; Cote MA; Bruce BG; Blaine TA: *Platelet Rich Plasma Derived Growth Factor (PDGF and TGF- β) Stimulation of Inflammation in Human Subacromial Bursal Cells*, Closed Meeting of the American Shoulder and Elbow Surgeons, White Sulphur Springs, West Virginia, e-poster, Oct. 13, 2011.
27. Kaback LA; Mulcahey MK; Zimmermann M; Green A; Blaine TA: *Radiographic and Clinical Outcomes of Bipolar Radial Head Replacement for Fracture*, Podium presentation, Closed Meeting of the American Shoulder and Elbow Surgeons, White Sulphur Springs, West Virginia, Oct. 14, 2011.
28. Bruce,B, Lee BJ, Behrens S, Blaine TB, Green AG: *Early Complications in Anatomic Total Shoulder Arthroplasty*, Podium presentation, Closed Meeting of the American Shoulder and Elbow Surgeons, White Sulphur Springs, West Virginia, Oct. 2011.
29. Kamal R, Gosselin M, Packer J, Mulcahey M, Kaback L, Green A, and Blaine TA,: *A prospective randomized study comparing intraarticular versus extraarticular corticosteroid injection for the treatment of lateral epicondylitis*. Podium presentation, AOSSM Annual Mtg, San Diego, CA, 2011.

30. Bruce B, Cote M, Kaback L, and Blaine TA: *p38 and ERK signal transduction pathways in IL-1 mediated activation of human subacromial bursa cells*, poster presentation, ORS Annual Mtg, San Diego, CA 2011.
31. Blaine TA, Kamal R, Gosselin M, Packer J, Mulcahey M, Kaback L, and Green A: *A prospective randomized study comparing intraarticular versus extraarticular corticosteroid injection for the treatment of lateral epicondylitis*. Short talk poster presentation, AOA Annual Mtg, Boston MA, 2011.
32. Blaine TA, Ortega S, Proto A, Cote M, and Chen Q: *Pro-inflammatory cytokines stimulate SDF-1 α production in cultured synoviocytes from human subacromial bursa*. Combined Meeting of the Orthopaedic Associations, Glasgow, SCOTLAND, Sept 2010.
33. Blaine, TA: *Chemokine expression and inhibition in subacromial bursitis and rotator cuff disease*. AOA ABC Traveling Fellows Presentation, Brown University Department of Orthopaedic Surgery, Providence, RI, May 19, 2010.
34. Blaine, T A; Cote, M A; Ortega, S.; Lee, F Y; Bigliani, L U; Chen, Q *CXCR4 blockade (AMD 3100 and T140 analog) inhibits SDF-1 α expression and cell migration in human subacromial bursa cells*, AOSSM Annual Meeting, Providence, RI, July. 2010.
35. Blaine, T A; Cote, M A; Ortega, S.; Lee, F Y; Bigliani, L U; Chen, Q *CXCR4 blockade (AMD 3100 and T140 analog) inhibits SDF-1 α expression and cell migration in human subacromial bursa cells*, ORS Annual Meeting, New Orleans, LA, Mar. 2010.
36. Blaine, T A; Cote, M A; Proto, A; Lee, F Y; Bigliani, L U: *Pro-Inflammatory Cytokines Stimulate Stromal Derived Factor-1 (SDF-1 α) Expression in Cultured Synoviocytes from Human Subacromial Bursa*, ORS Annual Meeting, New Orleans, LA, Mar. 2010.
37. Cote MA, Blaine TA: *(SDF-1 α) Interleukin-1 β stimulates Stromal Derived Factor-1 alpha expression in cultured human subacromial bursal synoviocytes*, Poster presentation, ORS Annual Meeting, Las Vegas, NV, Feb. 2009.
38. Proto A, Bigliani LU, Lee FY and Blaine TA: *IL1- beta induces Expression of Stromal Derived Factor-1 in Subacromial Bursal Cells*, Orthopaedic Research Society Combined Annual Meeting, HI, Nov. 2007.
39. Edwards SL, Packer JD, Lee JA, Bell JE, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *Superior Results with Non-operative Management of Superior Labral Tears*. Podium, AOSSM Annual Meeting, Calgary, CAN, July, 2007.
40. Bell JE, Packer JD, Lee JA, Edwards SL, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *The Operative Management of Rotator Cuff Disease Results in*

Superior Pain Relief and Functional Improvement Compared to Nonoperative Treatment. Podium, AANA Annual Meeting, San Francisco, CA, April 27, 2007.

41. Edwards SL, Packer JD, Lee JA, Bell JE, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *Superior Results with Non-operative Management of Superior Labral Tears.* Podium, AANA Annual Meeting, San Francisco, CA, April 27, 2007.
42. Wiater JM, Buss D, Freehill MQ, Hattrup S, Weinstein D, Levine, WN, Flatow EF, Bigliani, LU and Blaine TA: *A Prospective Multicenter Study of Total Shoulder Replacement for Glenohumeral Osteoarthritis.* Podium, ASES Open Meeting, San Diego, CA, Feb. 16, 2007.
43. Bell JE, Packer JD, Lee JA, Edwards SL, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *The Operative Management of Rotator Cuff Disease Results in Superior Pain Relief and Functional Improvement Compared to Nonoperative Treatment.* Podium, AOSSM Open Meeting, San Diego, CA, Feb. 16, 2007.
44. Bell JE, Packer JD, Lee JA, Edwards SL, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *The Operative Management of Rotator Cuff Disease Results in Superior Pain Relief and Functional Improvement Compared to Nonoperative Treatment.* Podium, ASES Open Meeting, San Diego, CA, Feb. 16, 2007.
45. Bell JE, Packer JD, Lee JA, Edwards SL, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *The Operative Management of Rotator Cuff Disease Results in Superior Pain Relief and Functional Improvement Compared to Nonoperative Treatment.* Podium, AAOS Annual Meeting, San Diego, CA, Feb. 15, 2007.
46. Wiater JM, Buss D, Freehill MQ, Hattrup S, Weinstein D, Levine, WN, Flatow EF, Bigliani, LU and Blaine TA: *A Prospective Multicenter Study of Total Shoulder Replacement for Glenohumeral Osteoarthritis.* Podium, ASES Closed Annual Meeting, Chicago, IL, 2006.
47. Packer J, Bell J, Edwards S, Ankem HK, Ahmad CS, and Blaine, TA: *A Radiographic and Anatomic Comparison of Injection Techniques in the Treatment of Lateral Epicondylitis,* Poster, SECEC 20th Annual Meeting, Athens, Greece, Sept. 20, 2006.
48. Bell JE, Packer JD, Lee JA, Edwards SL, Ahmad CS, Levine WN, Bigliani LU, Blaine TA: *Non-Operative Treatment of Subacromial Impingement Syndrome: A Follow-up Study in 182 Patients Using Validated Patient-Derived Outcome Scales,* Poster, SECEC 20th Annual Meeting, Athens, Greece, Sept. 20, 2006.
49. Wiater JM, Buss D, Freehill MQ, Hattrup S, Weinstein D, Levine, WN, Flatow EF, Bigliani, LU and Blaine TA: *A Prospective Multicenter Study of Total Shoulder Replacement for Glenohumeral Osteoarthritis.* Poster, SECEC 20th Annual Meeting, Athens, Greece, Sept. 20, 2006.

50. Packer J, Bell J, Edwards S, Ankem HK, Ahmad CS, and Blaine, TA: *A Radiographic and Anatomic Comparison of Injection Techniques in the Treatment of Lateral Epicondylitis*, Poster, AOA Annual Meeting, San Antonio, Texas, June, 2006.
51. Blaine TA, Hohl JB, Lee J, Wiater JM, Buss D, Freehill MQ, Hattrup S, Flatow EF, and Bigliani, LU: *A Prospective Multicenter Study of Total Shoulder Replacement for Glenohumeral Osteoarthritis*. Short talk poster presentation, AOA Annual Meeting, San Antonio, Texas, June, 2006.
52. Packer J, Bell J, Edwards S, Ankem HK, Ahmad CS, and Blaine, TA: *A Radiographic and Anatomic Comparison of Injection Techniques in the Treatment of Lateral Epicondylitis*, Podium presentation, AANA Annual Meeting, Hollywood, FL, May 18-21, 2006.
53. Fujisawa M, Ankem HK, Moon YL, Minematsu H, Chang SS, Lee HJ, Lee FY, Bigliani LU and Blaine TA: *Mechanical Strain Induces Activation Of Inflammatory Cytokines In Subacromial Bursal Cells: An In Vitro Model For Subacromial Impingement*, Podium presentation, ORS Annual Meeting, Chicago, IL, March 22, 2006.
54. Fujisawa M, Ankem HK, Moon YL, Minematsu H, Chang SS, Lee HJ, Lee FY, Bigliani LU and Blaine TA: *Mechanical Strain Induced Activation Of Il-6, Cox-2 And Sdf-1 In Subacromial Bursal Cells Involves Erk (Mapk), P38, Jnk And Nf-Kb Signaling Pathways*, Podium presentation, ORS Annual Meeting, Chicago, IL, March 22, 2006.
55. Wiater JM, Buss D, Freehill MQ, Hattrup S, Weinstein D, Flatow EF, Bigliani, LU and Blaine TA: *A Prospective Multicenter Study of Total Shoulder Replacement for Glenohumeral Osteoarthritis*. Poster, AAOS Annual Meeting, Mar. 22-26, 2006
56. Blaine TA, Skyhar M, Collins P, Gastman I, Ralph L, Altman R, Moskowitz R and Daley M, on behalf of the HUPS Clinical Study Group *Double-Blind, Randomized Trial of IA Sodium Hyaluronate (HYALGAN) for Chronic Shoulder Pain*. Podium, AAOS Annual Meeting, Mar. 22-26, 2006.
57. Bak S, Goldberg S, Blaine TA, Levine WN, and Bigliani LU: *Removal Of Humeral Stem Prostheses Using An Extended Humeral Osteotomy*. Poster, AAOS Annual Meeting, Mar. 22-26, 2006.
58. Levine, WN, Bak S, Kashyap C, Ahmad C, Blaine TA, and Bigliani LU: *Natural History of Non-operative Management of Adhesive Capsulitis*, ASES Closed Mtg, October 30, 2005.
59. Kim YS, Fujisawa M, Murakami K, Lee H-J, Chang SS, Lee FY, Bigliani LU and Blaine TA: *The Over-Expression of the Pro-Inflammatory Chemokine, Stromal*

Cell Derived Factor 1 (SDF-1), in Subacromial Bursitis is Inhibited by NSAIDs (COX-2) and Dexamethasone, Poster, AOA Annual Meeting, Huntington Beach, CA, June 22-25, 2005.

60. Fujisawa M; Kim Y-S; Murakami K; Chang S-S; Lee H-J; Lee FY; Bigliani LU; Blaine TA: *Gene expression profile of extracellular matrix and adhesion molecules in the subacromial bursa of patients with impingement syndrome*, Poster, ORS Annual Meeting, Washington DC, 2005.
61. Kim YS, Fujisawa M, Murakami K, Lee H-J, Chang SS, Lee FY, Bigliani LU and Blaine TA: *Stromal cell-derived factor 1 (sdf-1) is increased in subacromial bursitis and downregulated by cox-2 inhibitors and dexamethasone*. Poster, Orthopaedic Research Society Annual Meeting, Washington D.C., Feb. 2005.
62. Karmin J, Chang SS, Shrivastava N, Lin S, Wang D, Blaine TA, Bigliani LU, Lee FY, and Lee HJ: *Small interfering RNA (siRNA) targeting receptor for advanced glycation end products (RAGE) down regulates SDF-1 in rheumatoid arthritis cells*. Poster, Orthopaedic Research Society Annual Meeting, Washington D.C., Feb. 2005.
63. Fujisawa M, Kim YS, Murakami K, Abdelmessiah P, Lee H-J, Chang SS, Blaine TA, and Lee FY: *Function of HECT Domain Ubiquitin Ligase in Osteoblast Differentiation*. Poster, Orthopaedic Research Society Annual Meeting, Washington D.C., Feb. 2005.
64. Birk DM, Tolchin BD, Chang SS, Shrivastava N, Lee HJ, Blaine TA, and Lee FY: *The effect of mechanical strain on osteoclastogenesis in RAW 264.7 cells in vitro* Poster, Orthopaedic Research Society Annual Meeting, Washington D.C., Feb. 2005
65. Kim YS, Fujisawa M, Murakami K, Lee H-J, Chang SS, Lee FY, Bigliani LU and Blaine TA: *Stromal cell-derived factor 1 (sdf-1) is increased in subacromial bursitis and downregulated by cox-2 inhibitors and dexamethasone*. Poster, Combined Meeting of the Orthopaedic Research Society, Banff, CAN, October 10-11, 2004.
66. Kim YS, Fujisawa M, Murakami K, Lee H-J, Chang SS, Lee FY, Bigliani LU and Blaine TA: *Gene expression profile in the subacromial bursa of patients with rotator cuff disease*. Poster, Combined Meeting of the Orthopaedic Research Society, Banff, CAN, October 10-11, 2004.
67. Kim YS, Murakami K, Chang SS, Lee FY, Levine WN, Bigliani LU, and Blaine TA: *Gene expression profile analysis by cDNA array in the subacromial bursa of patients with rotator cuff disease*, Podium, AANA Annual Mtg, Orlando FL, April, 2004.

68. Izquierdo R, Stanwood W, Kuremsky M, Ahmad CS, Blaine TA, Levine WN, Bigliani LU: *Results of anterior inferior capsular shift in females less than 40 years old*. Podium, 9th ICSS. Washington DC, April 2004
69. Izquierdo R, Stanwood W, Kuremsky M, Ahmad CS, Blaine TA, Levine WN, Bigliani LU: *Long term follow-up of total shoulder arthroplasty*, Podium, 9th ICSS. Washington DC, April 2004.
70. Stanwood W, Setter K, Masson P, Blaine TA, Levine WN, Bigliani LU: *Arthroscopic rotator cuff repair vs mini-open repair: an intra-institutional comparison*. Poster, AANA Annual Meeting. Orlando, FL – April 22, 2004.
71. Blaine TA, Schwartzberg RS, Quitkin HM, Diao E, Defazio P, Goldin M, Rosenwasser MP, and Bigliani LU: *Current Techniques of Rotator Cuff Repair in 2003: A Survey of 273 Orthopaedic Surgeons and Sports Medicine Orthopaedists*, Poster, AANA Annual Meeting. Orlando, FL – April 22, 2004.
72. Reiger K, Voloshin I, Blaine TA, Levine WN, Bigliani LU: *Humeral head replacement and rotator cuff repair for cuff tear arthropathy: long-term follow up*. Poster, AANA Annual Meeting. Orlando, FL – April 22, 2004.
73. Izquierdo R, Stanwood W, Kuremsky M, Ahmad CS, Blaine TA, Levine WN, Bigliani LU: *Long term follow-up of total shoulder arthroplasty*, ASES Annual Meeting, San Francisco, CA, Feb. 2004
74. Kim YS, Murakami K, Abdelmessiah P, Chang SS, Bigliani LU, and Blaine TA: *Gene expression in the subacromial bursa of patients with rotator cuff disease*, Poster, ORS Annual Mtg, San Francisco, CA, Feb. 2004.
75. Kim P, Ugwonalu O, Heyworth B, Hyuk-Choi C, Levine WN, Bigliani LU, and Blaine TA: *Radiographic Assessment of glenohumeral relationships in Total Shoulder Arthroplasty*, Podium, ASES Focus Mtg, Las Vegas NV, Nov 2003.
76. Blaine TA, Yassae F, Chen, FY, Bigliani LU: *Increased COMP levels in the synovial fluid in patients with glenohumeral arthritis and rotator cuff disease*, Poster, ASES Focus Mtg, Las Vegas NV, Nov 2003.
77. Blaine, TA: *Molecular mechanisms of inflammation in rotator cuff tendonitis*. Podium, ASES Basic Science Closed Meeting, Dana Point CA, Oct. 2003.
78. Voloshin I, O’Keefe, RJ, Maloney, M., Bigliani, LU, and Blaine TA: *Rotator cuff tendonitis is associated with inflammatory mediators in the subacromial bursa*. Poster, AOSSM Annual Meeting, San Diego, CA, July 2003.
79. Lervick GN, Suratwala S, Stanwood W, Blaine TA, Levine WN, Bigliani LU: *Correlation of preoperative MRI findings to outcome following primary repair of*

- large and massive rotator cuff tears*. AOSSM Annual Meeting. San Diego, CA – July 23, 2003.
80. Voloshin I, O’Keefe, RJ, Maloney, M., Bigliani, LU and Blaine TA: *Cytokines, matrix metalloproteases and cyclooxygenases are increased in the subacromial bursa in patients with rotator cuff disease*, Poster, AANA Annual Meeting, Phoenix, AZ, 2003.
 81. Blaine TA, and O’Driscoll SW: *Recontouring ostectomy for the treatment of extension malunions of the distal humerus*. Podium Presentation, AAOS Annual Meeting, New Orleans, LA, Feb. 2003.
 82. Blaine TA, and O’Driscoll SW: *Recontouring ostectomy for the treatment of extension malunions of the distal humerus*. Podium Presentation, ASES Annual Meeting, New Orleans, LA, Feb. 2003.
 83. Carroll RM, Vasquez, Izquiereo R, Blaine TA, Levine WN, Bigliani LU: *Glenoid arthrosis after hemiarthroplasty: Results of conversion to total shoulder arthroplasty*. Podium, AAOS Annual Meeting, New Orleans, LA, 2003.
 84. Lervick G, Herrerra M, Klepps S, Flatow E, Blaine TA, Levine WN, Bigliani LU: *Humeral Head Replacement for acute proximal humerus fractures in patients less than 60 years old*. Poster, AAOS Annual Meeting, New Orleans, LA, 2003, ASES Annual Meeting, New Orleans, LA, 2003
 85. Blaine, TA, Bauer, G., Morgan, B., Yassae, F., and Bigliani, LU: *Enchondral ossification of the coracoacromial ligament in subacromial impingement syndrome*. Poster, AOSSM Annual Meeting, Orlando, FL, June 2002.
 86. Blaine TA, Schwartzberg RS, Quitkin HM, Diao E, DeFazio P, Goldin M, Rosenwasser MP, and Bigliani LU: *Current Techniques of Rotator Cuff Repair in 2003: A Survey of 273 Orthopaedic Surgeons and Sports Medicine Orthopaedists*. Poster, AANA Annual Meeting, Washington D.C., April 2002
 87. Murthi, A., Yassae, F., Lervick, G., Levine, WN, Bigliani, LU, and Blaine, TA: *A histopathological analysis of the subacromial bursa in rotator cuff disease: a prospective study in 104 consecutive patients*. Poster, AANA Annual Meeting, Washington D.C., April 2002
 88. Morgan, B., Bauer, G., Yassae, F., O’Keefe, RJ, Rosier, R, Bigliani, L, and Blaine, TA: *Immunohistochemical markers of enchondral ossification of the coracoacromial ligament in impingement syndrome*. Poster, AANA Annual Meeting, Washington D.C., April 2002
 89. Park, MC, Murthi, A., Bauer, G., Roth, NS, Blaine, TA, Levine, WN, and Bigliani, LU: *Two-part and Three-part fractures of the Proximal Humerus Treated with Suture Fixation*. Podium, Dallas, TX. ASES Closed Mtg, 2002.

90. Bauer, G., Levine, WN, Carroll, RC, Hazrati, Y., Flatow, E., Blaine, TA, and Bigliani, LU: *Hemiarthroplasty for Glenohumeral Arthritis: Long-term Results*. Dallas, TX. AAOS Annual Meeting, 2002.
91. Bauer, G., Freehill, MQ, Masters, C., Levine, WN, Lervick, G., Blaine, TA, and Bigliani, LU: *Glenohumeral Arthroplasty for Arthritis after Instability Surgery*. Dallas, TX. AAOS Annual Meeting, 2002.
92. Blaine, TA, Choi, Chang Hyuk, Freehill, MQ, Murthi, Bauer, G., A., Levine, WN, and Bigliani, LU: *Optimizing glenohumeral geometry in total shoulder arthroplasty*, Poster, AOA Annual Meeting, Palm Beach, FL June, 2001.
93. Ahmad, C., Freehill, MQ, Blaine, TA, Bauer, G, Murthi, M, Levine, WN, and Bigliani, LU: *Anteromedial Capsular Redundancy and Labral Deficiency in Shoulder Instability: The Barrel Stitch*, Poster, AOA Annual Meeting, Palm Beach, FL June, 2001.
94. Murthi A, Roth NS, Blaine TA, Levine WN, and Bigliani LU: *Complications and Revision Surgery after Suture Anchor Rotator Cuff Repair*, Poster, ASES 2001.
95. Blaine, TA, Talmo, C., Bauer, G., Freehill, MQ, Levine, MQ, Levine, WN, and Bigliani, LU: *Removal of the deltoid origin in complex revision shoulder surgery*, Podium, International Congress of Shoulder Surgeons, Capetown, South Africa, April, 2001.
96. Blaine, TA, Choi, Chang Hyuk, Ugwonal, O., Freehill, MQ, Murthi, A., Levine, WN, and Bigliani, LU: *Optimizing glenohumeral geometry in total shoulder arthroplasty*, Poster, International Congress of Shoulder Surgeons, Capetown, South Africa, April, 2001.
97. Choi, CH, Freehill, MQ, Blaine, TA, Bauer, G, Levine, WN, and Bigliani, LU: *Prosthetic replacement in complex proximal humerus malunions*. Podium Presentation, International Congress of Shoulder Surgeons, Capetown, South Africa, April, 2001.
98. Blaine, TA, Adams, RA, and Morrey, BF: *Conversion of Interposition Arthroplasty to Semi-constrained Total Elbow Arthroplasty in Elbow Arthritis*, American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, March, 2001.
99. Blaine, TA, Marra, G., Park, JY, Levine, WN, Pollock, RG, and Bigliani, LU: *Shoulder arthroplasty for avascular necrosis*. Podium, AAOS Annual Meeting, Orlando, FL, 2000.
100. Blaine, TA, Bykov, S, Rubery, PT, O'Keefe, RJ, Schwartz, E, Whitbeck, MG: *The role of inflammatory cytokines in fracture non-union*.

Presented at the American Fracture Association Annual Meeting, Tuscon, AZ,
May 1999.

101. Blaine, T.A., Rubery, P.T., O'Keefe, R.J., Hicks, D.G., and Whitbeck, M.G., *Cytokines in fracture non-union*. Abstract, The Orthopaedic Trauma Association Annual Meeting, Louisville, KY, October, 1997.
102. Blaine, TA., Reynolds, PR., Reynolds, SD., Pollice, P., Puzas, JE., Rosier, RN., and O'Keefe, RJ. *Pharmacologic modification of TNF-alpha and IL-6 production in titanium-stimulated monocytes*. Podium at the 42nd meeting of the ORS, Atlanta, February, 1996.
103. O'Keefe, Puzas, JE., Blaine, TA., and Rosier, RN. *Metal particles induce production of bone resorptive cytokines in human monocytes*. Presented at 1995 American Orthopaedic Association Annual Meeting. *Orthopaedic Transactions*, 19:3, 743, 1996.

REGIONAL SCIENTIFIC AND SCHOLARLY PRESENTATIONS

1. *The New Haven Project: Precision Orthopaedic and Personalized Musculoskeletal Medicine at Yale*, Yale Orthopaedics Grand Rounds Presentation, New Haven, CT, November 18, 2016.
2. *Total Elbow Arthroplasty*, University of Massachusetts Department of Orthopaedics Grand Rounds, Amherst, MA, May 11, 2016.
3. *Strategies to Improve Rotator Cuff Healing and Repair: New Therapeutics and Surgical Techniques*, Sports Medicine Rounds, Harvard Combined Residency/Massachusetts General Hospital, Boston, MA, October 24, 2013.
4. *The Shoulder: Anatomy and Physical Exam*, Yale Musculoskeletal Course for Primary Care Physicians, May 3, 2013.
5. *Shoulder Instability: State of the Art*, Mt. Sinai Orthopaedics Grand Rounds Presentation, New York, NY, Feb 6, 2013.
6. *Lessons Learned Overseas: Shoulder Instability in 2012*, Yale Orthopaedics Grand Rounds Presentation, New Haven, CT, November 16, 2012.
7. *Shoulder and Elbow Replacement*, presentation to Yale nurses, physical and occupational therapists, May 30, 2012.
8. *Shoulder Replacement*, presentation to YNH inpatient nursing, August 8, 2012.

9. *Shoulder Replacement*, presentation to YNHH operating room nursing, June 20, 2012.
10. Elbow Symposium: *Taking Down the Triceps in Elbow Arthroplasty: How to Avoid Complications*, ASES Annual Meeting, San Francisco, CA, Feb. 7-11, 2012.
11. Mayo Clinic Dept. of Orthopaedic Surgery Grand Rounds: *New Therapeutics in rotator cuff disease*, Rochester, MN, Nov. 21, 2011.
12. Basic Science Mini Symposium: *Platelet Rich Plasma and Rotator Cuff Repair: How I Use it in My Practice*, Closed Meeting of the American Shoulder and Elbow Society, White Sulphur Springs, WV, Oct. 13, 2011.
13. Massachusetts Orthopaedic Society Annual Meeting: *Reverse Shoulder Replacement*, Waltham, MA, May 3, 2011.
14. Northwestern University Orthopaedic Surgery Grand Rounds: *Surgical Treatment of Glenohumeral Instability: State of the Art*, Chicago, IL. March 4, 2011.
15. University of Rochester Dept of Orthopaedic Surgery Grand Rounds, *Surgical Treatment of Glenohumeral Instability: State of the Art*, Rochester, NY, March 2-3, 2011.
16. COBRE Research Meeting: Rhode Island Hospital Orthopaedic Foundation, *Shoulder and Elbow Research Update: Focus on Glenohumeral Instability*, Providence, RI, December 1, 2010.
17. Brown University Internal Medicine Grand Rounds: *Tendonitis and Bursitis in the Shoulder: Diagnosis, Treatment, and New Therapeutics*, Nov. 16, 2010.
18. New England Orthopaedic Society Distinguished Professor, NEOS Annual Meeting: *A) Current Concepts in the pathophysiology and treatment of rotator cuff disease. B) Shoulder instability: anatomic versus non-anatomic reconstruction c) Trabecular Metal in Shoulder Arthroplasty*. Boston, MA, Nov 19-21, 2010
19. AAOS Instructional Course Lectures, Faculty, Classical and Non-classical Impingement, New Orleans, LA, 2010.
20. *Elbow Arthritis*, Brown University Rheumatology Grand Rounds, December 2009.
21. Cote MA, Blaine TA: (SDF-1 α) *Interleukin-1beta stimulates Stromal Derived Factor-1 alpha expression in cultured human subacromial bursal synoviocytes*, Poster presentation, Rhode Island Hospital Annual Research Celebration, Nov 2009.

22. Columbia Shoulder Society Biennial Meeting, Bermuda, June 2009
 - a. *Alternatives to Reverse Shoulder Arthroplasty: Hemiarthroplasty, Resurfacing, and Convertible Reverse Stem Hemiarthroplasty*
 - b. *Pardon the Interruption: Single versus Double Row Rotator Cuff Repair.*
23. New England Shoulder and Elbow Society Annual Meeting, Jay Peak, Vermont, Feb. 2008.
 - a. *Debate: Total Shoulder Arthroplasty versus Hemiarthroplasty*
24. Instructional Course Lecture, AAOS Annual Meeting, San Francisco, CA., 2008.
 - a. *Post-traumatic elbow arthritis: interposition arthroplasty.*
25. New York State Orthopaedic Society Annual Meeting, New York, NY, Nov., 2007.
 - a. *Debate: The role of NSAIDs in rotator cuff repair.*
26. Instructional Course Lecture, AANA Annual Meeting, San Francisco, CA, April 27, 2007.
 - a. *Lecturer: New Concepts in Non-operative Treatment of Glenohumeral Arthritis*
27. Minimally Invasive Shoulder and Elbow Surgery – 2007 Update, Columbia University CME Course, May 12, 2007.
 - a. *Lectures:*
 - i. *Anatomy and Physical Examination of the Shoulder and Elbow*
 - ii. *Arthroscopic Rotator Cuff Repair*
 - iii. *Reverse Shoulder Replacement – When and Why*
 - iv. *Lateral Epicondylitis – Arthroscopic v. Open*
28. *Lateral Epicondylitis*, New York Orthopaedic Society Annual Meeting, Mount Sinai Medical Center, New York, NY. Nov., 2006.
29. *Injection Techniques in Lateral Epicondylitis*, Mayo Elbow Club, Mayo Clinic, May 20-21, 2006.
30. Baylor University Grand Rounds Presentation: “*Current Concepts in the Pathophysiology of Subacromial Bursitis and Rotator Cuff Disease.*” Baylor University Dept. of Orthopaedic Surgery, Houston, TX., Oct. 27, 2006.
31. ASES Open Meeting: *Biologics in Shoulder Surgery*: Chicago, IL. Sept. 16, 2006.
 - a. *Lecturer: Role of Hyaluronans for the Treatment of Early Glenohumeral Arthritis,*

32. International Society for Technology in Arthroplasty (ISTA) Annual Meeting, New York, NY, Oct 6-9, 2006.
 - a. Organizing Committee
 - b. Moderator, Session on Revision Arthroplasty
 - c. Lecturer: *Mini-Incision Shoulder Arthroplasty*.
33. Duke University Grand Rounds Presentation: “*Current Concepts in the Pathophysiology of Subacromial Bursitis and Rotator Cuff Disease.*” Duke University Dept. of Orthopaedic Surgery, Durham, N.C., Dec. 14, 2005.
34. Eastern Orthopaedic Association (EOA) Annual Meeting, Symposium on Rotator Cuff Repair, Cambridge, MD, October 7, 2005.
 - a. Lecturer: *Evidence Based Indications for Arthroscopic Rotator Cuff Repair*
35. Shoulder and Elbow Update: Arthroscopy to Arthroplasty. Columbia Orthopaedics CME Course, May 7, 2005.
 - b. Lectures
 - i. *Total Elbow Arthroplasty*
 - ii. *Adhesive Capsulitis: When Rehabilitation Fails*
36. *Tendonopathies of the Shoulder and Elbow: Evaluation and Treatment*, Stamford Hospital Grand Rounds, Feb., 2005.
37. Columbia University School for Physical Therapy, *Common Orthopaedic Procedures of the Elbow, Wrist, and Hand*, September, 2004
38. *Total Shoulder Arthroplasty*, University of Rochester Grand Rounds, May 11, 2004.
39. 2004: Stamford Hospital and Human Motion Institute; Tennis Anyone: Common shoulder and elbow injuries in tennis, Stamford, CT July 21, 2004.
40. Current Concepts in the Management of the Shoulder and Elbow in Athletes, Columbia University CME Course, May 2004.
41. Current Concepts in the Management of the Lower Extremity, Columbia University, June 7, 2003
 - a. Lecture: *Approach to the Middle Aged Athlete with Osteoarthritis, Autologous Chondrocyte Implantation*
42. American Academy of Orthopaedic Surgeons, Proximal Humerus Fracture Course, Washington DC, November 5, 2005.
 - a. Lecturer:
 - i. *Suture Management of Two and Three Part Proximal Humerus Fractures*

43. Reverse Shoulder Arthroplasty, Instructional Course, Philadelphia, PA, July 22, 2005.
 - a. Lab Instructor
 - b. Lecturer: *Hemiarthroplasty for Glenohumeral Arthritis.*
44. CME Symposium: Minimally Invasive Modalities for Osteoarthritis Treatment, AAOS Annual Meeting, Washington DC, March, 2005.
 - a. Lecturer: *First Breaking Results of the HUPS (Hyalgan Use in Painful Shoulder) Multicenter Study.*
45. Emerging Trends: Whistler 2004 Orthopaedic Symposium, February 27, 2004
 - a. Lecturer: *Elbow Instability*
46. 18th Annual Vail Orthopaedic Symposium, January 19-21, 2004.
 - a. Lecturer:
 - i. *Total Shoulder Replacement: Complications and Revisions*
 - ii. *Lateral Epicondylitis: Old problem, what's new?*
 - iii. *The stiff elbow: open or arthroscopic release?*
 - b. Moderator: *Fireside Chat: Total shoulder arthroplasty, interesting cases*
47. New York Trauma Update, NYC, Dec 5, 2003
 - a. Lecturer: *Humeral Head replacement for Proximal Humerus Fractures*
48. Talkin Baseball Mtg, NYC, Nov 6, 2003
 - a. Lecturer: *Open Treatment of Anterior Glenohumeral Instability*
49. New York Trauma Update, Rochester NY, Sept 13, 2003
 - a. Lecturer: *Prosthetic Replacement for Proximal Humerus Fractures*
50. International Course in Articular Reconstruction of the Shoulder and Elbow, Madrid, Spain, April 24-26, 2003.
 - a. Lecturer:
 - i. *Radial Head Replacement*
 - ii. *The Glenoid in Shoulder Arthroplasty*
 - iii. *Peri-prosthetic fractures of the shoulder*
51. Current Concepts in Joint Arthroplasty, Pinehurst, NC, Sept., 2001.
 - a. Lecturer: *Rotator Interval Lesions*
52. Orthopaedics for the Primary Care Physician, Columbia University, June, 2002
53. *Results of Re-contouring osteoectomy for extension mal-unions of the distal humerus*, Mayo Elbow Club Annual Meeting, Rochester, MN, 2001
54. *Total Shoulder Arthroplasty*, Lenox Hill Grand Rounds, New York, NY 2001.

55. *Non-arthroplasty management of elbow arthritis*, Columbia University Grand Rounds, 2001.
56. Blaine, TA, *The role of cytokines in fracture healing*. the Ninth Annual Plato Schwartz Lectureship, University of Rochester Department of Orthopaedics, June 1999.
57. Blaine, TA. *Metal particle activation of macrophages*. Presented at the Sixth Annual Plato Schwartz Lectureship, University of Rochester Department of Orthopaedics, June 1995.
58. Blaine, TA., Kream, BE. *Dexamethasone inhibits collagen synthesis and a-1 procollagen mRNA levels in the osteoblastic cell line Py-1a*. Connecticut Medicine, 56:1, 14, Jan. 1992. Presented at Medical Student Research Day, The University of Connecticut Health Center, Farmington, CT., May 1991.
59. Taylor, T., Castren, M., and Blaine, TA. *Increased TSH β subunit mRNA levels in hypothyroid rats are predominately mediated by factors in the hypothalamic paraventricular nuclei*. Abstract, The Endocrine Society, 1988. Presented at the National Institutes of Health, Bethesda, MD., 1987.

PEER-REVIEWED GRANTS

1. (Pending) NIH R01 Grant Submission: *Molecular Pathophysiology of Painful Periarticular Shoulder Inflammation* in response to NIH initiative, PA #: PA-16-160, Research Project Grant (Parent R01), Feb 2, 2017. Funding request: \$2,093,750.00
2. (Active) US Lacrosse Sports Science and Safety Research Grant: *A Biomechanical Analysis of the Protective Effect of Shoulder Pads in Preventing Major Shoulder Injury in Mens Lacrosse*. Principal Investigator. Funding Period 2016-2017, \$32,987.
3. Mentor, OREF Resident Educational Grant: *Effect of Platelet Rich Plasma and Constituent Growth Factors on Subacromial Bursa*, PI: BJ Lee MD, Mentor: Theodore Blaine MD, Funding Period 2012-2013. \$4,500.
4. NIH National Institutes of Health Center of Biomedical Research Excellence (COBRE) for Skeletal Health and Repair – Phase II Project: *Inhibition of Interleukin-1 β /Stromal Derived Factor-1 α Signaling in Subacromial Bursitis and Rotator Cuff Disease*, (\$150,000), Principal Investigator, Funding Period July. 1, 2012- July 31, 2013.
5. ASES Research Grant Award, *Chemokine expression and inhibition in subacromial bursitis and rotator cuff disease*, (\$20,000) Principal Investigator, January 2011-2012.

6. Mentor, OREF Resident Educational Grant: *Factors important in healing of the glenoid labrum after shoulder dislocation*. PI: Mary Mulcahey MD, Mentor: Theodore Blaine MD, Funding Period 2010-2011. \$3,000.
7. Mentor, OREF Resident Educational Grant: *Cytokine and Metalloprotease Intercellular Signaling Pathways in Human Subacromial Bursal Cells*. PI: Benjamin Bruce MD, Mentor: Theodore Blaine MD, Funding Period, 2010-2011. \$5,000.
8. NIH National Institutes of Health Center of Biomedical Research Excellence (COBRE) for Skeletal Health and Repair - Pilot Project Grant Program: *Chemokine expression and regulation in human subacromial bursa*, (\$50,000), Principal Investigator, Funding Period Nov. 1, 2008- Nov. 2010.
9. Orthopaedic Research and Education Foundation (OREF) Research Grant: *Developing New Therapeutics to Replace NSAIDs and Steroids in the Treatment of Subacromial Impingement: Chemokine Expression And Regulation In Subacromial Bursitis And Rotator Cuff Disease*, (\$100,000), Principal Investigator, Funding Period Jan. 2006- Jan. 2008.
10. InSCOPE Orthopaedic Fellowship Award, *The Pathophysiology Of Glenohumeral Joint Arthritis And Rotator Cuff Disease*, (\$50,000) Principal Investigator, Jan. 2006- Jan. 2007.
11. InSCOPE Orthopaedic Fellowship Award, *The molecular pathophysiology of rotator cuff disease*. (\$25,000) Principal Investigator, January 2005-2006.
12. ASES Research Grant, *Cytokine expression in subacromial bursitis and rotator cuff disease*, (\$10,000) Principal Investigator, January 2005-2006.
13. OREF Resident Research Grant (Sponsor) *PTH (Forteo) Effects on Fracture Healing in Patients with Osteoporotic Fractures of the Proximal Humerus*, Mentor and Advisor, (\$15,000) Jan. 2004-2006.
14. NIH Medical Student Summer Research Grant, *PTH (Forteo) Effects on Fracture Healing in Patients with Osteoporotic Fractures of the Proximal Humerus*, (\$4,000) Mentor and Advisor, May 2003 – October 2003.
15. Irving Center Clinical Research Grant, *PTH (Forteo) Effects on Fracture Healing in Patients with Osteoporotic Fractures of the Proximal Humerus*, (\$10,000) Principal Investigator, period May 2003 – October 2003.
16. Arthroscopy Association of North America (AANA) Grant, March 2001, *Inflammatory mediators in subacromial bursitis and impingement syndrome*. (\$15,000) Senior Investigator, April 2001 to April 2002.

17. American Orthopaedic Association (AOA) Zimmer Travel Award, *Modulation of cytokine production in titanium stimulated human monocytes by pharmacologic agents: the role of cAMP signaling mechanisms*. Boca Raton, FL., June 1997.
18. The American Fracture Association (AFA) Resident Research Grant, May 1997
The biochemical basis for fracture healing: the role of inflammatory cytokines in fracture union and non-union. (\$3,000) Principal Investigator, June 1997-99.
19. OREF Resident Research Grant, Orthopaedic Research & Education Foundation, 1994, (\$15,000) *Heterotopic Ossification*. 1994-95.

OTHER GRANTS

1. (Active) Principal Investigator, Tornier Pyrocarbon Multicenter IDE Study, Funding Period 2016-present.
2. (Active) Principal Investigator, Tornier Simpliciti Multicenter IDE Study, Funding Period 2011-present.
3. Zimmer Clinical Study Grant, *A Multicenter Study of the Bigliani/Flatow Complete Shoulder Solution*, (\$700,000) Principal Investigator, February 2001 to 2007.