

# Curriculum Vitae

## Richard M. Terek

### PERSONAL INFORMATION

Business Address: University Orthopedics, Inc.  
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### EDUCATION:

Undergraduate Rensselaer Polytechnic Institute, Troy, NY  
Biomedical Engineering, B.S., 1979, Magna Cum Laude,  
Medical School The University of Chicago, Chicago, IL  
Pritzker School of Medicine, M.D. 1985  
Other Advanced Degrees The University of Chicago, Chicago, IL  
Committee on Public Policy Studies, M.A. 1983

### POSTGRADUATE TRAINING:

Residency General Surgery Internship, Loyola University Medical Center, Maywood, IL 1985-86  
Orthopaedic Surgery Residency, Loyola University Medical Center, Maywood, IL 1986-90  
Fellowships Orthopaedic Surgical Oncology Fellowship,  
Memorial Sloan-Kettering Cancer Center, New York, NY 1991-92  
Research Fellow, Lab. of Mammalian Cell Transformation, Mentor: Anthony Albino, PhD  
Memorial Sloan-Kettering Cancer Center, New York, NY 1992-93  
Metabolic Bone Disease Fellowship  
The Hospital For Special Surgery, New York, NY 1991-92

### HONORS AND AWARDS:

1979 Tau Beta Pi Engineering Honorary Society  
1982-83 Public Policy Fellowship, University of Chicago, Chicago, IL  
1984-85 Calvin Fentress Research Fellowship Award, Pritzker School of Medicine, Chicago, IL  
1988 Schneider Memorial Award, Illinois Orthopaedic Society, Chicago, IL  
1989 Zimmer Annual Travel Award, American Orthopaedic Association, Chicago, IL  
1990 Sofield Traveling Fellowship, Loyola University, Maywood, IL  
1991-93 Clinical Oncology Fellowships #91-193, #92-193, American Cancer Society  
1997-2000 Orthopaedic Research and Education Foundation  
Career Development Award  
2000 Brown University A.M. (hon)  
2002 American Orthopaedic Association, Austrian-Swiss-German Traveling Fellow

### MILITARY SERVICE:

None

### PROFESSIONAL LICENSES AND BOARD CERTIFICATION:

1986 State of Illinois Physician and Surgeon #036 074557(inactive)  
1990 Commonwealth of Massachusetts Registered Physician #72951

1991 State of New York Physician #187558-1 (inactive)  
 1991 The Medical Board of California #G72443  
 1993 State of Rhode Island, Physician #8485  
 1994 Board Certified, American Board of Orthopaedic Surgery  
 2004, 2012 Re-certified, American Board of Orthopaedic Surgery

ACADEMIC APPOINTMENTS:

1990-91 Instructor, Department of Orthopaedic Surgery,  
 Tufts University School of Medicine, Boston, MA  
 1993-98 Assistant Professor, Department of Orthopaedic Surgery,  
 Brown University, Providence, RI  
 1998-2012 Adjunct Assistant Professor, Department of Orthopaedic Surgery,  
 Tufts University School of Medicine, Boston, MA  
 1999-2015 Associate Professor, Department of Orthopaedic Surgery,  
 Brown University, Providence, RI  
 2015- Professor, Research Scholar Track, Department of Orthopaedic Surgery,  
 Brown University, Providence, RI

HOSPITAL APPOINTMENTS:

1990-91 Assistant-in-Orthopaedics, New England Medical Center, Boston, Massachusetts  
 1991-93 Surgeon, Department of Orthopedic Surgery, The New York Hospital, New York, NY  
 1993-present Surgeon, Active Staff, Orthopaedic Oncologist, Department of Orthopaedics,  
 Rhode Island Hospital, Providence, RI  
 1993-2013 Surgeon, Active Staff, Orthopaedic Oncologist, Department of Surgery,  
 Roger Williams Medical Center, Providence, RI  
 1994-2001 Physician, Surgical Service, Providence Veterans Administration Medical Center,  
 Providence, RI  
 1998-2012 Full-time Staff, Orthopaedic Oncologist, Department of Orthopaedics,  
 New England Medical Center, Boston, MA  
 2000-2012 Consultant, New England Medical Center Cancer Center, Boston, MA  
 2001-present Chief, Orthopaedic Surgery Service, Providence Veterans Administration Medical Center,  
 Providence, RI

OTHER APPOINTMENTS:

1977-1980 Biomedical Engineer, Biomedical Eng. and Instrumentation Branch,  
 National Institutes of Health, Bethesda, MD  
 1982-83 Research Assistant, University of Chicago, Department of Cardiology, Chicago IL  
 1988 Research Fellow, Orthopaedic Research Unit  
 National Institute of Arthritis, Musculoskeletal and Skin Diseases,  
 The National Institutes of Health, Bethesda, MD  
 1988 Orthopaedic Overseas Volunteer, Malawi, Africa

EDITORIAL BOARD/REVIEWER:

1995, 1999-present Journal of Orthopaedic Research, Reviewer  
 1998-2005 Clinical Orthopaedics and Related Research, Reviewer  
 2005-2009 Clinical Orthopaedics and Related Research, Advisory Editor  
 2009-present Clinical Orthopaedics and Related Research, Associate Editor  
 1998 Orthopaedic Basic Science, ed 2, AAOS, Reviewer

2018 Orthopaedic Basic Science, 5th Ed. AAOS, Editorial Board  
 2002-present Journal of Bone and Joint Surgery (American), Reviewer  
 Ad Hoc International Journal of Cancer (2002), The Journal of Rheumatology (2002), Cancer (2005, 07), American Journal of Pathology (2005-07), Annals of the Rheumatic Diseases (2005), Lancet Oncology (2006), Sarcoma (2008), Osteoarthritis and Cartilage (2009-10), Molecular Cancer (2009), Journal of Surgical Oncology (2010), Nature Reviews Cancer (2010), New England Journal of Medicine (2012, 2017), Molecular Cancer Therapeutics (2013,14) Oncotarget (2014)

GRANT REVIEW COMMITTEES:

2003-2006 Lifespan Developmental Grants Program  
 2006-2011 Musculoskeletal Tumor Society Clinical Research Grant  
 2012-13 Juravinski Hospital and Cancer Centre Foundation Grant  
 2016 Skeletal Biology Development and Disease Study Section, NIH, Ad hoc member  
 2016 NIH, NCI Special Emphasis Panel/Scientific Review Group 2017/01 ZCA1 RTRB-U (J1) S  
 2017 NIH, NCI Special Emphasis Panel/Scientific Review Group 2017/10 ZCA1 RTRB-U (O1) R  
 2017 Musculoskeletal Tumor Society/Sarcoma Strong Grant

HOSPITAL COMMITTEES:

1993-98 Roger Williams Medical Center, Cancer Committee  
 1998-2003 Lifespan Physicians PSO Contracting Committee  
 2012 Providence VA Medical Center, Search Committee, Chief of Podiatry  
 2015-18 Providence VA Medical Center, Research and Development Committee

UNIVERSITY COMMITTEES:

1990-91 Student Promotions Committee, Tufts University School of Medicine  
 1993-present Brown University Orthopaedic Surgery Residency Selection Committee  
 1997, 2001 Brown University MD/PhD Admissions Committee  
 1997-present Department of Orthopaedics Research Committee  
 1999 Search Committee, Director Brown University Cancer Center  
 1999-2001 Strategic Planning Committee, Brown University School of Medicine  
 2000-2001, 2002-2003 Search Committee, Surgical Pathologist, Brown University  
 2000-2001 Search Committee, Ehrlich Chair of Orthopedic Research, Brown University  
 1999-present Brown University Department of Orthopaedics ACGME Committee, Chairman  
 2010-11 Brown University, Search Committee, Pathologist-in-Chief (RIH) and Vice Chair  
 2010-11 Brown University, Search Committee, Research Scientist, Department of Orthopaedics  
 2015-18 Brown University, Medical Faculty Executive Committee

NATIONAL/REGIONAL COMMITTEES:

1993-1997 New England Organ Bank, Orthopedic Medical Advisory Board, Boston, Massachusetts  
 Academic Orthopaedic Society,  
 1999-2003 Junior Faculty Development Committee, Member  
 1999-2003 Research Committee, Member  
 American Academy of Orthopaedic Surgeons,  
 1999-2004 Musculoskeletal Tumors and Diseases Evaluation Sub-Committee  
 2002-2008 Research Development Committee, Member  
 2008-2011, 2013-2015 Board of Specialty Societies, Member  
 2012-2014 Board of Councilors, Member  
 Musculoskeletal Tumor Society

2000-2008	Research Committee, Member
2008-2011	Research Committee, Chair
2011-2012	Treasurer
2012-2013	Secretary
2013-2014	President-elect
2014-2015	President
2015-2016	Immediate Past President
2016-2017	Past President
2003-2006; 2012-2013	Blue Cross and Blue Shield of Rhode Island, Orthopaedic Specialty Advisory Committee
2004-2006 2007-2008	American Orthopaedic Association, Austrian-Swiss-German Traveling Fellowship Committee, Member, Chairman
2006	Orthopaedic Research and Education Foundation New England Research Symposium, Judge
2006-present	New England Orthopedic Society Executive Committee, State Representative
2008-2010 2010-2012 2012-2014	Rhode Island Orthopaedic Society Executive Committee, Member at Large Vice President President
2010-2012	Rhode Island Medical Society Council
2012-2016	Association of Bone and Joint Surgeons, Awards Committee, Chair (2015)
2013-2016	Orthopaedic Research Society, Annual Meeting Topic Chair: Cancer

**ADVISORY COMMITTEES**

UCLA Research External Advisory Board

**UNIVERSITY ORTHOPEDICS, INC**

Pension Committee

Research and Education Committee

**BROWN UNIVERSITY ORTHOPAEDIC SURGERY RESIDENCY PROGRAM:**

Residency Site Directory, Providence VA Medical Center

Resident Research Committee

Resident Selection Committee

Clinical Competency Committee

**MEMBERSHIP IN SOCIETIES:**

Fellow, American Academy of Orthopaedic Surgeons; Fellow, American College of Surgeons; Musculoskeletal Tumor Society, American Orthopaedic Association, Orthopaedic Research Society, Academic Orthopaedic Society, Children's Oncology Group, New England Orthopedic Society, Rhode Island Clinical Oncology Group, Rhode Island Orthopaedic Society, Connective Tissue Oncology Society, Association of Bone and Joint Surgeons

**VISITING PROFESSORSHIPS:**

William Dobozi Visiting Professor, Loyola University, Department of Orthopaedic Surgery and Rehabilitation, Senior Thesis Day, May 25, 2012

H. Relton McCarroll Lecturer, Washington University, October 24, 2018

**OTHER RELEVANT TRAINING:**

American Association for Cancer Research "Molecular Biology in Clinical Oncology: A Workshop", 1999

Communication Skills Workshop, The American Academy of Orthopaedic Surgeons and The Institute For Health Care Communication, Colorado Springs, CO, 2009

Leadership Development for Physicians in Academic Health Centers, Harvard School of Public Health, Boston, MA, Oct 30-Nov 11, 2011

Effective Orthopaedic Educator, American Orthopaedic Association, Boston, MA 2011

MEETINGS and SYMPOSIA ORGANIZED/FACULTY

AAOS/ORS Molecular Biology and Therapeutics in Musculoskeletal Oncology, Co-Chair, Sept. 25-27, 2008, Salt Lake City, UT

OREF/ORS/AAOS Clinician Scientist Development Program, Faculty, 2006, 2008-2016

Boston Orthopaedic Pathology Course, Faculty, 2001-present

Osteosarcoma: Future Directions in the Targeting of Micrometastases, Orthopaedic Research Society, 2014 Annual Meeting, New Orleans, LA

Clinical Trials Update, Musculoskeletal Tumor Society, Specialty Day, 2014 Annual Meeting, American Academy of Orthopaedic Surgeons, New Orleans, LA

The Osteoclast and Bone Disease – a collaboration of the ORS and MSTs, Orthopaedic Research Society, 2015 Annual Meeting, Las Vegas, NV

MSTS/ISOLS Annual Meeting, Co-Chair, October 6-10, 2015, Orlando, FL

The 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> Joint MSK/HSS/IOF Course on Musculoskeletal Tumor Pathology, faculty, 2015-17, NY, NY

THESIS COMMITTEES:

External Appraiser, Sean Tjandra, The Role of Type 1 Interferon Signaling in Aggressive Fibromatosis, Master of Science, University of Toronto, November 22, 2006

Reader, Caryn Cobb, Development of an In Vitro Co-Culture Model for the Detection and Quantification of biofilm on Orthopaedic Explants, B.S. Honors Thesis, Brown University, May 1, 2015

ORIGINAL PUBLICATIONS IN PEER-REVIEWED PUBLICATIONS

1. Terek RM and January CT: Excitability and oscillatory afterpotentials in isolated sheep Purkinje fibers. *AM. J. Physiol.* 252 (Heart Circ.Physiol. 21): H645-652, 1987.
2. Macey LR, Kana SM, Jingushi S, Terek RM, Boretos J, Bolander ME: Defects of early fracture healing in experimental diabetes. *J. Bone and Joint Surg.*, 71-A(5):722-733, 1989.
3. Joyce ME, Terek RM, Jingushi S, Bolander ME: Role of transforming growth factor-beta in fracture repair. Transforming growth factor-beta chemistry, biology, and therapeutics, *Annals New York Acad. Sciences* 591: 107-123, 1990.
4. Terek RM, Wehner J, Lubicky JP: The crankshaft phenomenon in congenital scoliosis. *J. Pediatr. Orthop.* 11:527-532, 1991.
5. Brien EW, Terek RM, Healey JH, Lane JM: Allograft reconstruction after proximal tibial resection for bone tumors: An analysis of function and outcome comparing allograft and prosthetic reconstructions, *Clin.Orthop. Rel. Res.* 303:116-127, 1994.
6. Terek RM, Jiranek WA, Goldberg MJ, Wolfe HJ, Alman BA: The expression of platelet-derived growth factor gene in Dupuytren disease. *J. Bone and Joint Surg*, 77-A:1, 1-9, 1995.
7. Alman BA, Naber SP, Terek RM, Jiranek WA, Goldberg MJ, Wolfe HJ: Platelet-derived growth factor in fibrous musculoskeletal disorders: A study of pathologic tissue sections and *in vitro* primary cell cultures. *J. Orthopaedic Research* 13(1):67-77, 1995.
8. Brien EW, Terek RM, Healey JH, Brennan ME: Soft tissue sarcomas of the hand. *J. Bone and Joint Surg*, 77-A,4:564-571, 1995.
9. Terek RM, Brien EW, Marcove RC, Meyers PA, Lane JM, Healey JH: Treatment of Femoral Ewing's Sarcoma. *Cancer*, 78:70-77, 1996.

10. DaSilva MF, Terek RM, Weiss APC: Malignant eccrine poroma of the hand. J Hand Surg, 22A:511-514, 1997.
11. Terek RM, Healey JH, Garin-Chesa P, Mak S, Huvos A, Albino AP: p53 mutations in chondrosarcoma. Diagnostic and Molecular Pathology, 7(1):51-56, 1998.
12. Terek RM, Schwartz GK, Devaney K, Glantz L, Healey JH, Mak S, Albino P: Multidrug Resistance Gene Expression in Chondrosarcoma, J Ortho Res, 16:585-590, 1998.
13. Lambiase RE, Levine SM, Terek RM, Wyman JJ: Long bone surface osteomas: Imaging features that may help avoid unnecessary biopsies. American Journal of Radiology, 171:775-778, 1998.
14. Wyman JJ, Hornstein AM, Meitner P, Mak S, Verdier P, Block JA, Pan J, Terek RM: The multi-drug resistance-1 gene in chondrosarcoma cell lines: Expression correlates with decreased intracellular doxorubicin levels and *in vitro* chemosensitivity resistance. J Orthop Res, 17:935-940, 1999.
15. Hulsizer DL, Hornstein AM, Levine SM, Terek RM: Collision tumor involving an enchondroma, Orthopaedics, 23(12):1281-1284, 2000.
16. McGough R, Wang LJ, Gnepp D, Terek RM: Metastatic mixed tumor arising in bone. A case report and review of the literature. J Bone Joint Surg Am. 2001 Sep;83-A(9):1396-402.
17. Terek RM, Nielsen, GP: Case Records of the Massachusetts General Hospital, N Engl J Med 2001, 345(12):903-908.
18. Greisberg JK, Wolfe JM, Wyman J, Zou L, Terek RM: Gadolinium inhibits thymidine incorporation and induces apoptosis in chondrocytes. J Orthop Res. 2001 Sep;19(5):797-801.
19. McGough R, Fadale P, Terek R: Soft tissue sarcoma masquerading as a compartment syndrome, Orthopaedics, Nov;26(11):1151-2, 2003.
20. Lin C, Mak S, Meitner PA, Wolf JM, Blumen EM, Block JA, and Terek RM: Cancer/testis antigen CSAGE is concurrently expressed with MAGE in chondrosarcoma. Gene 285 (2002) 269–278.
21. McGough R, Aswad B, and Terek R: Pathologic neovascularization in cartilage tumors. Clin Orthop. 2002 Apr;(397):76-82.
22. McGough RL, Lin C, Meitner P, Aswad BI, Terek RM: Angiogenic Cytokines in Cartilage Tumors. Clin Orthop. 2002 Apr;(397):62-9.
23. Lin C, Meitner PA, Terek RM: PTEN Mutation Is Rare in Chondrosarcoma. Diagn Mol Pathol. 2002 Mar;11(1):22-6.
24. Greisberg JK, Bliss M, Terek RM: The prevalence of nitrous oxide in apoptotic chondrocytes of osteoarthritis. Osteoarthritis and Cartilage. 2002 Mar;10(3):207-11.
25. Alford JW, Tashjian R, Terek RM: Pigmented villonodular synovitis of the knee presenting as sciatica. J of Knee Surgery. 2003, July 16(3):182-84.
26. Lin C, McGough R, Aswad B, Block JA, Terek RM: Hypoxia induces HIF-1alpha and VEGF expression in chondrosarcoma cells and chondrocytes. J Orthop Res. 2004 Nov;22(6):1175-81.
27. Terek RM, Hulstyn MJ: Osteoarticular allograft reconstruction for tumors of the distal femur and proximal tibia. Operative Techniques in Orthopaedic Surgery, 14:236-242, 2005.
28. Nickisch F, Tashjian RZ, Ritter M, Terek R, and DiGiovanni C: Primary malignant non-Hodgkin's lymphoma of the talus: a case report. Foot & Ankle International, 2005 Jul;26(7):568-71.
29. Wei L, Sun X, Terek R, Chen Q. Down-Regulation of A Chemokine Receptor CXCR4 by Small Interfering RNA Inhibits MMP13 Release and Enhances TIMP 1 Expression in Articular Chondrocytes. Osteoarthritis and Cartilage 2005; 13: Supplement A S29.

30. Wei L, Sun X, Kanbe K, Wang Z, Sun C, Terek R, and Chen Q: Chondrocyte Death Induced by Pathological Concentration of Chemokine Stromal Cell-Derived Factor-1. *The Journal of Rheumatology* 2006; 33:9.
31. Bluman EM, Sun X, Lin C, Coulie PG, Meitner PA., Terek RM: Lysis of human chondrosarcoma cells by cytotoxic T Lymphocytes recognizing a MAGE-A3 antigen presented by HLA-A1 molecules. *J Orthop Res.* 2007 May;25(5):678-84
32. Tashjian RZ, Lin C, Aswad B, Terek, RM:  $11\beta$ -Hydroxysteroid Dehydrogenase Type 1 Expression in Periprosthetic Osteolysis. *Orthopedics*, 2008; 31:545.
33. Sun X, Wei L, Chen Q, Terek RM. HDAC4 represses vascular endothelial growth factor expression in chondrosarcoma by modulating RUNX2 activity. *J Biol Chem.* 2009 Aug 14;284(33):21881-90.
34. Sun X, Wei L, Chen Q, Terek RM. CXCR4/SDF1 mediate hypoxia induced chondrosarcoma cell invasion through ERK signaling and increased MMP1 expression. *Mol Cancer.* 2010 Jan 26;9:17.
35. Wei L, Kanbe K, Lee M, Wei X, Pei M, Sun X, Terek R, Chen Q. Stimulation of chondrocyte hypertrophy by chemokine stromal cell-derived factor 1 in the chondro-osseous junction during endochondral bone formation. *Dev Biol.* 2010 May 1;341(1):236-45.
36. Schraeder TL, Terek RM, Smith CC. Clinical evaluation of the knee. *N Engl J Med.* 2010 Jul 22;363(4):e5.
37. Guan Y, Chen Q, Yang X, Haines P, Pei M, Terek R, Wei X, Zhao T, and Wei L: Subcellular Relocation of Histone Deacetylase 4 Regulates Growth Plate Chondrocyte Differentiation through  $Ca^{2+}$ /Calmodulin-Dependent Kinase IV. *American J Physiology - Cell Physiology*, 2012 Jul;303(1):C33-40.
38. Wei F, Zhou J, Wei X, Zhang J, Fleming BC, Terek R, Pei M, Chen Q, Liu T, Wei L: Activation of Indian Hedgehog Promotes Chondrocyte Hypertrophy and Upregulation of MMP-13 in Human Osteoarthritic Cartilage. *Osteoarthritis and Cartilage*, 2012 Jul;20(7):755-63.
39. Jayasuriya CT, Goldring MB, Terek R, Chen Q. Matrilin-3 induction of IL-1 receptor antagonist is required for up-regulating collagen II and aggrecan as well as down-regulating ADAMTS-5 gene expression. *Arthritis Res Ther.* 2012 Sep 11;14(5):R197. PubMed PMID: 22967398; PubMed Central PMCID: PMC3580507.
40. Tompkins M, Paller DJ, Moore DC, Crisco JJ, Terek RM: Locking Buttons Increase Fatigue Life of Locking Plates in a Segmental Bone Defect Model. *Clin Orthop Relat Res.* 2013 Mar;471(3):1039-44 PubMed PMID: 23104045; PubMed Central PMCID: PMC3563789.
41. Xiaojuan Sun, Cherie Charbonneau, Wei Lei, Wentian Yang, Qian Chen, and Richard Terek: CXCR4-targeted Therapy Inhibits VEGF Expression and Chondrosarcoma Angiogenesis and Metastasis. *Mol Cancer Ther.* 2013 Jul;12(7):1163-70. PubMed PMID: 23686836; PubMed Central PMCID: PMC3707941.
42. Yang W, Wang J, Moore DC, Liang H, Dooner M, Wu Q, Terek R, Chen Q, Ehrlich MG, Quesenberry PJ, Neel BG. Ptpn11 deletion in a novel progenitor causes metachondromatosis by inducing hedgehog signaling. *Nature.* 2013 Jul 25;499(7459):491-5. PubMed PMID: 23863940.
43. Zhou J, Chen Q, Lanske B, Fleming BC, Terek R, Wei X, Zhang G, Wang S, Li K, Wei L. Disrupting the Indian hedgehog signaling pathway in vivo attenuates surgically induced osteoarthritis progression in Col2a1-CreERT2; Ihhfl/fl mice. *Arthritis Res Ther.* 2014 Jan 15;16(1):R11.
44. Wang S, Wei X, Zhou J, Zhang J, Li K, Chen Q, Terek R, Fleming BC, Goldring MB, Ehrlich MG, Zhang G, Wei L. Identification of Alpha 2 Macroglobulin (A2M) as a master inhibitor of cartilage degrading factors that attenuates post-traumatic osteoarthritis progression. *Arthritis Rheumatol.* 2014 Feb 27.
45. Sun X, Wei L, Chen Q, Terek R. MicroRNA Regulates VEGF Expression in Chondrosarcoma Cells. *Clin Orthop Relat Res.* 2015 Mar;473(3):907-13.

46. Nazarian A, Entezari V, Zurakowski D, Calderon N, Hipp J, Villa-Camacho J, Lin PP, Cheung F, Aboulafia A, Turcotte R, Anderson M, Gebhardt MC, Cheng EY, Terek RM, Yaszemski MJ, Damron T, Snyder B. Treatment Planning and Fracture Prediction in Patients with Skeletal Metastasis with CT2 based Rigidity Analysis. *Clin Cancer Res*. 2015 Jun 1;21(11):2514-9.
47. Nazarian A, Entezari V, Villa-Camacho JC, Zurakowski D, Katz JN, Hochman M, Baldini EH, Vartanians V, Rosen MP, Gebhardt MC, Terek RM, Damron TA, Yaszemski MJ, Snyder BD. Does CT-based Rigidity Analysis Influence Clinical Decision-making in Simulations of Metastatic Bone Disease? *Clin Orthop Relat Res*. 2015 May 29.
48. Sun X, Charbonneau C, Wei L, Chen Q, Terek RM. miR-181a Targets RGS16 to Promote Chondrosarcoma Growth, Angiogenesis, and Metastasis. *Mol Cancer Res*. 2015 May 26. pii: molcanres.0697.2014. [Epub ahead of print] PubMed PMID: 26013170
49. Damron TA, Nazarian A, Entezari V, Brown C, Grant W, Calderon N, Zurakowski D, Terek RM, Anderson ME, Cheng EY, Aboulafia AJ, Gebhardt MC, Snyder BD. CT-based Structural Rigidity Analysis Is More Accurate Than Mirels Scoring for Fracture Prediction in Metastatic Femoral Lesions. *Clin Orthop Relat Res*. 2015 Jul 14. [Epub ahead of print] PubMed PMID: 26169800.
50. Johnston BR, Biercevicz AM, Koruprolu SC, Terek RM, Born CT: A Biomechanical Comparison of a Novel Expandable Photodynamic Intramedullary System to a Metal Plate and Screw System in Humerus and Femur Osteotomy Models. *Orthop Res Traumatol Open J*. 2016; 1(1):5-13. doi: 10.17140/ORTOJ-1-102
51. Jayasuriya CT, Hu N, Li J, Lemme N, Terek R, Ehrlich MG, Chen Q: Molecular characterization of mesenchymal stem cells in human osteoarthritis cartilage reveals contribution to the OA phenotype. *Sci Rep*. 2018 May 4;8(1):7044. doi: 10.1038/s41598-018-25395-8. PubMed PMID: 29728632; PubMed Central PMCID: PMC5935742.
52. Jayasuriya CT, Twomey-Kozak J, Newberry J, Desai S, Feltman P, Franco JR, Li N, Terek R, Ehrlich MG, Owens BD. Human Cartilage-Derived Progenitors Resist Terminal Differentiation and Require CXCR4 Activation to Successfully Bridge Meniscus Tissue Tears. *Stem Cells*. 2019 Jan;37(1):102-114. doi: 10.1002/stem.2923. Epub 2018 Nov 2. PubMed PMID: 30358021; PubMed Central PMCID: PMC6312732.
53. Sun X, Chen Y, Yu H, Machan JT, Alladin A, Ramirez J, Taliano R, Hart J, Chen Q, Terek RM. Anti-miRNA Oligonucleotide Therapy for Chondrosarcoma. *Mol Cancer Ther*. 2019 Jul 24. pii: molcanther.1020.2018. doi: 10.1158/1535-7163.MCT-18-1020. [Epub ahead of print] PubMed PMID: 31341031.

#### OTHER PEER-REVIEWED PUBLICATIONS

- Rosenthal H, Terek R, Lane J: Management of extremity soft-tissue sarcomas. *Clin. Ortho. Rel. Res*. 289:66-72, 1993.
- Terek RM, Brien EW, Marcove RC, Meyers PA, Lane JM, Healey JH: Long-term survival and function after surgery for Ewing's tumor of the femur. *Limb Salvage, Current Trends, Proceedings Seventh International Symposium*, 413-417, 1993.
- Terek RM: Tumors of the elbow and forearm. *Hand Clinics of North America*, 10:3, 343-351, 1994.
- Terek RM, Brien EW: Soft tissue sarcomas of the hand and wrist. *Hand Clinics of North America*, 11:2, 1995
- Terek RM: Sarcoma of Bone. *Medicine and Health/Rhode Island*, 80:(1) 19-24, 1997.
- Chang HA, Chung M, Terek RM: Biology of Sarcomas. *Medicine and Health/Rhode Island*, 80(1) 8-14, 1997.
- Kurkchubasche AG, Halvorson EG, Forman EN, Terek RM, Ferguson WS: The Role of preoperative chemotherapy in the treatment of infantile fibrosarcoma. *J Pediatr Surg* 35:880-883, 2000.
- Terek RM: Angiogenesis in Chondrosarcoma, *Current Opinions in Orthopaedics*, 13(6):449-53, 2002.
- Terek, RM: Recent advances in the basic science of chondrosarcoma. *Orthopaedic Clinics*, 37(1), January, 2006.
- Terek RM, Sun X, Allen S: Molecular Mechanisms of Angiogenesis in Chondrosarcoma. *US Musculoskeletal Review* 2008; 3(1):48.
- Guisse TA, O'Keefe R, Randall RL, Terek RM: Molecular Biology and Therapeutics in Musculoskeletal Oncology, *J Bone and Joint Surgery (Am)* 2009;91-A(3):724-732.



- 12 Thakur NA, Daniels AH, Schiller J, Valdes MA, Czerwein JK, Schiller A, EsmendeS, Terek RM. Benign tumors of the spine. *J Am Acad Orthop Surg*. 2012 Nov;20(11):715-24 Review. PubMed PMID: 23118137.
13. Sawyer G, Heard W, Terek RM: Fresh Osteochondral Allograft Transplantation for Treatment of Chondroblastoma of the Femoral Head: A Case Report, *JBJS Case Connector*, 2013 Feb 13;3(1):e13 1-5.

14. Terek RM. CORR Insights(®): Complications of Cemented Long-stem Hip Arthroplasties in Metastatic Bone Disease Revisited. *Clin Orthop Relat Res*. 2013 Oct;471(10):3308-9. PubMed PMID: 23846609; PubMed Central PMCID: PMC3773129.

#### MULTIMEDIA

1. Musculoskeletal Oncology Review: Clinical, Radiographic and Pathologic Overview and Treatment Principles, Online Virtual Course Module 4: Soft Tissue Sarcoma. AAOS/MSTS 2017

#### BOOK CHAPTERS:

1. Healey JH, Terek RM: Management of bone and soft tissue tumors around the knee. In: *The Knee*, edited by W.N. Scott. Mosby, St. Louis, 1993.
2. Hough TJ, Tung GA, Terek RM: Staging. In: *Imaging of Soft Tissue Tumors*, edited by DeSchepper AM, Parizel PM, Ramon F, DeBeuckeleer L, Vandevellenne JE. Springer-Verlag, Berlin, 1996.
3. Terek RM: Cartilage Neoplasia as a Model of Chondrogenesis. In: *Skeletal Growth and Development*, edited by JA Buckwalter, MG Ehrlich, LJ Sandell, SB Trippel American Academy of Orthopaedic Surgeons, Rosemont, IL 1998.
4. O’Keefe R, Terek RM: Musculoskeletal Oncology. In: *Orthopaedic Knowledge Update 6*, edited by Beatty JH. American Academy of Orthopaedic Surgeons, Rosemont, IL 1999.
5. Levine S, Hough TJ, Tung GA, Terek RM: Staging. In: *Imaging of Soft Tissue Tumors*, 2<sup>nd</sup> edition, edited by DeSchepper AM, Parizel PM, Ramon F, DeBeuckeleer L, Vanhoenacker F. Springer-Verlag, Berlin, 2001.
6. Terek, RM: Physiology of Tumors. In: *Orthopaedic Knowledge Update: Musculoskeletal Tumors*, edited by Lawrence R. Menedez. American Academy of Orthopaedic Surgeons, Rosemont, IL, 2002.
7. Terek, RM: Radiation-Induced Sarcomas. In: *Orthopaedic Knowledge Update: Musculoskeletal Tumors*, edited by Lawrence R. Menendez. American Academy of Orthopaedic Surgeons, Rosemont, IL, 2002.
8. Scarborough, M.T., Aboulafia, A.J., Cheng, E.Y., McGrath, B.E., Moreau, G., Neel, M.D., O’Connor, M.I., Peabody, T.D., Raymond, A.K., Reith, J., Terek, R.M., Wiener, S.D., *Musculoskeletal Tumors and Diseases, Self-Assessment Examination*. American Academy of Orthopaedic Surgeons, Rosemont, 2002.
9. Terek RM: Molecular Tumor Markers. In: *Molecular Biology in Orthopaedics* edited by Rosier RN, Evans CH. American Academy of Orthopaedic Surgeons, Rosemont, IL 2003.
10. Terek RM: Soft Tissue Tumors: In: *Hand Surgery*. Edited by Berger R and Weiss APC. Lippincott Williams and Wilkins, Philadelphia, 2003.
11. Langer P, Terek RM: Core Knowledge in Orthopaedics: Foot and Ankle. Edited by DiGiovanni C and Greisberg J. Elsevier Science Publishers, 2007.
12. Levine S, Terek RM, Hough TJ, Tung GA: Staging. In: *Imaging of Soft Tissue Tumors*, 3<sup>rd</sup> edition, edited by De Schepper, A.M.; Vanhoenacker, F.; Parizel, P.M.; Gielen, J. Springer-Verlag, Berlin, 2006.
13. Hinds RM, Terek RM. Rhabdomyosarcoma. In: Domnio F, Baldor R, Golding J, Grimes JA, Taylor JS, eds. *The 5-Minute Clinical Consult*, 2013 Edition. Philadelphia: Lippincott Williams & Wilkins, 2012: pp. 1142-1143.
14. Raymond Hsu, Matthew Deren, and Richard Terek. Chapter 1: Basic Science, in *COMPREHENSIVE BOARD REVIEW IN ORTHOPEDIC SURGERY*, Eds. ROBIN KAMAL AND ARNOLD-PETER C. WEISS, Thieme Publishers, NY NY, 2016

15. Amanda Fantry, Alan Schiller, Robin Kamal, and Richard Terek, Chapter 2: Musculoskeletal Oncology and Pathology, in COMPREHENSIVE BOARD REVIEW IN ORTHOPEDIC SURGERY, Eds. ROBIN KAMAL AND ARNOLD-PETER C. WEISS, Thieme Publishers, NY NY, 2016

#### NONPEER REVIEWED PUBLICATIONS

1. Terek RM, Nixon RT, Farless BL, Dobozi WR: Reaming and nailing of femur fractures is not a cause of increased thigh compartment pressures in patients with femoral shaft fractures. Loyola University Chicago, Orthopedic Journal IX: 32-36,2000.
2. Terek RM: Pediatric Bone and Soft Tissue Sarcomas, Hasbro Children's Hospital, Pediatric Notes, Spring 2013

#### PUBLICATIONS SUBMITTED OR IN PREPARATION

1. Janus Base Derived Nanopieces for Delivery of Anti-miRNA Oligonucleotides in Chondrosarcoma,, . Molecular Cancer Therapeutics in revision
2. Results of the IlluminOss Lightfix Trial Show Efficacy for the Treatment of Humeral Metastatic Disease, CORR

#### INVITED PRESENTATIONS

##### INTERNATIONAL:

1. Terek R: Angiogenesis in Chondrosarcoma. Southern German Orthopaedic Congress, Baden-Baden, Germany, 2002
2. Terek R: Pelvic Chondrosarcoma: New Surgical and Translational Approaches, 3<sup>rd</sup> Chinese Conference on Retroperitoneal Tumors, Peking University International Hospital, 2017

##### NATIONAL:

1. Terek RM: Molecular biology techniques in soft tissue lesions and fracture healing. Musculoskeletal Tumor Society Annual Meeting, Washington, D.C., 1992.
2. Terek RM, Brien EW, Mirra JM, Ashworth CR: Instructional Course Symposia, Management of soft tissue sarcomas of the hand. American Society for Surgery of the Hand, 49th Annual Meeting, Cincinnati, Ohio, 1994.
3. Terek RM: Cartilage Neoplasia as a Model of Chondrogenesis. NIH/AAOS Workshop on Skeletal Growth and Morphogenesis, Howey-in-the-Hills, Florida, 1997.
4. Terek RM: CPC, Massachusetts General Hospital, November 18, 1999.
5. Terek R: Molecular Tumor Markers. NIH/AAOS Molecular Biology in Orthopaedics 2001 Workshop, Scottsdale, AZ, 2001
6. Terek R: Negotiating with the Chairman, AAOS, OREF, ORS Clinician scientist development program, San Antonio, Texas 2006
7. Terek, R: Bone and soft tissue tumors. The Podiatry Institute and RI Podiatric Medical Association, Current trends and technologies in medicine, orthopedics, and podiatric surgery, Newport, RI, 2006
8. Terek, R: Development and Sarcomas. American Academy of Orthopaedic Surgeons 2006 Research Symposium "Developmental Biology in Orthopaedics" Toronto, Oct 26-28, 2006.
9. Terek R: Instructional Course Lecture #371: Fracture Healing and Arthroplasty in Patients with Metabolic Bone Disease, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, 2008
10. Terek R: Getting a Job, an applicant's perspective, AAOS, OREF, ORS Clinician scientist development program, Quebec City, QC, Canada. 2008
11. Terek R: Getting a Job, an applicant's perspective, AAOS, OREF, ORS Clinician scientist development program, Chicago, IL 2009
12. Terek R: Resources of the VA and Specialty Societies, AAOS, OREF, ORS Clinician Scientist Development Program, Chicago, IL 2010

13. Terek R: Resources of the VA and Specialty Societies, AAOS, OREF, ORS Clinician Scientist Development Program, Chicago, IL 2011
14. Terek R: Resources of the VA and Specialty Societies, AAOS, OREF, ORS Clinician Scientist Development Program, Chicago, IL 2012
15. Terek, R: Evaluation and Treatment of Cartilage Tumors, The William R . Dobozi, MD Visiting Professor, Senior Thesis Day, Loyola University Medical Center, May 25, 2012
16. Terek, R: Allograft Reconstruction in Orthopaedic Oncology, The William R . Dobozi, MD Visiting Professor, Senior Thesis Day, Loyola University Medical Center, May 25, 2012
17. Terek R: Chondrosarcoma, University of Utah, Orthopaedic Grand Rounds, February 5-6, 2013
18. Terek R: Basic Science Update - What's New in my Lab? Specialty Day Meeting, Musculoskeletal Tumor Society, March 23, 2013.
19. Terek R: Osteosarcoma: Future Directions in the Targeting of Micrometastases, Overview of Osteosarcoma Etiology, Treatment, and Clinical Results, Orthopaedic Research Society, 2014 Annual Meeting, New Orleans, LA
20. Terek R: Clinical Trials Update, Sarcoma Alliance for Research through Collaboration, Musculoskeletal Tumor Society, Specialty Day, 2014 Annual Meeting, American Academy of Orthopaedic Surgeons, New Orleans, LA
21. Terek R: Resources of the VA and Specialty Societies, AAOS, OREF, ORS Clinician Scholar Development Program, Chicago, IL 2013
22. Terek R: Resources of the VA and Specialty Societies, AAOS, OREF, ORS Clinician Scientist Development Program, Chicago, IL 2014
23. Terek R: Resources of the VA and Specialty Societies, AAOS, OREF, ORS Clinician Scientist Development Program, Chicago, IL 2015
24. Terek R: Resources of the VA and Specialty Societies, AAOS, OREF, ORS Clinician Scientist Development Program, Chicago, IL 2016
25. Terek R: Tumor: Limb Salvage Techniques (Rotationplasty vs. Endoprosthetics for LE Bone Sarcoma Limb Salvage in Children less than 10 years). Annual Meeting, Association of Bone and Joint Surgeons, Newport, RI 2019

LOCAL:

1. Terek RM: TGF-beta and fracture healing. Illinois Orthopaedic Society, Chicago, Illinois, May, 1988.
2. Terek RM: Treatment of Osteogenic Sarcoma. Rhode Island Hospital, Brown University, Department of Orthopaedics Grand Rounds, Providence, Rhode Island, November, 1992.
3. Terek RM, Marcove RC, Healey JH: The Tikhoff-Linberg resection and shoulder reconstruction. Memorial Sloan-Kettering Cancer Center, Department of Surgery Grand Rounds, New York, New York, March, 1992.
4. Terek RM: Bone neoplasms: Etiology, histology, staging, treatment, and research applications. Memorial Sloan-Kettering Cancer Center, Cancer Data Base In-Service Training, New York, New York, October, 1992.
5. Terek RM: Multidisciplinary Treatment of Bone and Soft Tissue Tumors. Surgical Grand Rounds, Beverly Hospital, Beverly, MA, December, 1993.
6. Terek RM: Multidisciplinary Treatment of Bone and Soft Tissue Tumors. Oncology Grand Rounds, Lawrence and Memorial Hospital, New London, CT, December, 1993.
7. Terek RM: Multidisciplinary Treatment of Bone and Soft Tissue Tumors. Medical Grand Rounds, St. Joseph Hospital, North Providence, RI, December, 1993.

8. Terek RM: Limb Salvage Surgery for Bone Tumors in Children. Pediatric Hematology/Oncology Conference, Rhode Island Hospital, January, 1994.
9. Terek RM: Treatment of Ewing's Sarcoma. Orthopaedic Surgery Grand Rounds, Rhode Island Hospital, January, 1994.
10. Terek RM: Musculoskeletal Pain in Children-Do Growth Pains Exist?. Pediatric Grand Rounds, Rhode Island Hospital, January, 1994.
11. Terek RM: Bone Tumors. Rheumatology Grand Rounds, Roger Williams Medical Center, January, 1994.
12. Terek RM: Multidisciplinary Treatment of Bone and Soft Tissue Tumors. Orthopaedic Grand Rounds, University of Massachusetts, Worcester, MA February, 1994.
13. Terek RM: Update on Therapy for Metastatic Bone Disease. Medical Grand Rounds, Roger Williams Medical Center, February, 1994.
14. Terek RM: Orthopedics: Bone Tumors, Tumor Markers: What Are They and What Do They Mean? and Bone and Soft Tissue, Measurable Outcome Improvements for Cancer Therapy. Rhode Island Chapter of the American College of Surgeons/Providence Surgical Society and the American College of Surgeons, 1994 Jesse P. Eddy Symposium: A Multidisciplinary View of Cancer Management, Providence, Rhode Island, March, 1994.
15. Terek RM: Bone and Soft Tissue Tumors. Surgery Grand Rounds, Saint Luke's Hospital, New Bedford, MA March, 1994.
16. Terek RM: Limb Salvage Surgery for Treatment of Bone and Soft Tissue Sarcoma of the Extremity. Medical Grand Rounds, Charlton Memorial Hospital, Fall River, MA April, 1994.
17. Terek RM: Multidisciplinary Treatment of Bone and Soft Tissue Tumors. Medical Grand Rounds, Faulkner Hospital, Boston, MA, May, 1994.
18. Terek RM: Pediatric Bone Tumors. Pediatric Grand Rounds, Rhode Island Hospital, Providence RI, June, 1994.
19. Terek RM: Controversies in the treatment of extremity soft-tissue sarcoma. Cancer Grand Rounds, Rhode Island Hospital, Providence, Rhode Island, April, 1995.
20. Terek RM: Staging and treatment of bone tumors. Tumor Registrars Association of New England Annual Meeting, Providence, Rhode Island, November, 1995.
21. Terek RM: Ewing's Sarcoma: Osseous and Extraosseous. Brown University Department of Surgery Grand Rounds, Providence, Rhode Island, October, 1996.
22. Terek RM: Orthopaedic Oncology in Rhode Island. Rhode Island Orthopaedic Society, Providence, Rhode Island, December, 1996.
23. Terek RM: The patient with bone cancer, NAON:RI Chapter, RI Hospital Orthopedic Nurses, Rhode Island Hospital, Providence, RI, April 1998.
24. Limb Salvage and Physical Therapy in Orthopaedic Oncology. The University of Rhode Island, Physical Therapy Department, Kingston, RI October 20, 1998
25. Imaging of Chondroid Tumors. Richmond Orthopaedic Society, Richmond, VA December 16, 1999.
26. Treatment of Soft Tissue Sarcoma. Orthopaedic Grand Rounds, Medical College of Virginia, Richmond, VA December 17, 1999.
27. Imaging of Chondroid Tumors. Orthopaedic Grand Rounds, University of Massachusetts, Worcester, MA April 18, 2001.
28. Imaging of Chondroid Tumors. Orthopaedic Grand Rounds, Brown University, Providence, RI September 19, 2001

29. Terek R: Musculoskeletal neoplasms. Rheumatology Grand Rounds, Roger Willimas Medical Center, Providence, RI 2002
30. Terek R: Surgical Management of Sarcoma-Is there a role for chemotherapy? General Surgery Teaching Rounds, Roger Willimas Medical Center, Providence, RI 2002
31. Terek R: Evaluation of soft tissue masses. Medical Grand Rounds, Memorial Hospital of RI, Pawtucket, RI 2002
32. Terek R: Imaging of cartilage tumors. Orthopaedic Grand Rounds, Memorial Hospital of RI, Pawtucket, RI 2004
33. Terek R: Update on evaluation and treatment of bone tumors. Rheumatology Grand Rounds, Roger Williams Medical Center, Providence, RI 2006
34. Terek R: “Mechanisms of Angiogenesis in Chondrosarcoma”, Orthopaedic Research Seminar, MGH, Boston, MA January 12, 2010
35. Terek R: Orthopaedic Oncology Imaging, Rhode Island Hospital School of Diagnostic Imaging, 5<sup>th</sup> Annual Imaging Symposium – Oncology, Sept. 24, 2011.
36. Terek R: Bone Sarcoma Staging and Treatment, Brown University Hematology/Oncology Fellowship Curriculum, May 5, 2014
37. Terek R: microRNA regulation of angiogenesis and metastasis in chondrosarcoma, Molecular and Cell Biology Graduate Program Seminar, Brown University, October 15, 2014
38. Terek R: Lumps and Bumps for the Upper Extremity, Fundamentals of Outpatient Orthopedics, Upper Extremity: Where to Start, When to Refer, Providence, RI Dec. 13, 2014
39. Terek R: Treatment of Humerus Metastatic Disease, New England Orthopaedic Society, Annual Spring Meeting, Chatam, MA 2018

ABSTRACTS:

INTERNATIONAL MEETINGS:

1. Terek RM, Brien EW, Marcove RC, Meyers PA, Lane JM, Healey JH: Long-term results after surgery for Ewing's tumor of the femur. Seventh International Symposium on Limb Salvage, Singapore, 1993.
2. Terek RM, Brien EW, Lane JM, Healey JH: Osteoarticular allografts around the knee. Eight International Symposium on Limb Salvage, Florence, Italy, 1995.
3. Brien E, Terek R, Brennan M, Healey J: Management of Soft Tissue Sarcomas of the Hand. Third Joint Meeting of the American and European Musculoskeletal Tumor Societies, Florence, Italy, 1995.
4. Terek RM, Mak S, Block JA, Bliss M: Cloning of a novel chondrosarcoma associated gene. Fourth Combined Meeting of the American and European Musculoskeletal Tumor Societies, Washington, D.C., 1998.
5. Terek RM, Wyman J, Hornstein A, Meitner P, Mak S, Verdier P, Block JA, Pan J: The multi-drug resistance gene in chondrosarcoma cell lines. Transactions of the 4th Combined Meeting of the American and European Musculoskeletal Tumor Societies, 1998.
6. Wyman J, Greisberg J, Wolf J, Zou L, Terek R: The effects of gadodiamide on proteoglycan production, cell proliferation, and apoptosis in chondrocytes. Third Symposium of the International Cartilage Repair Society, Goteberg, Sweden, 2000.
7. Tashjian RZ, Lin C, Terek RM. IL1-b and TNFa upregulate 11b-hydroxysteroid dehydrogenase type 1 (11b-HSD1) in cultured fibroblast cells: Implications for periprosthetic osteolysis. Poster exhibit at the 2004 Canadian Orthopedic Research Society Annual Meeting, Calgary, Alberta, Canada, June 18 - 20, 2004.
8. Snyder BD; Nazarian A; Entezari V; Hipp JA; Calderon N; Terek R; Cheng E; Aboulaflia A; Anderson ME; Gebhardt M; Damron T: CT-BASED STRUCTURAL RIGIDITY ANALYSIS ALTERS SELECTED TREATMENT IN PATIENTS WITH

FEMORAL METASTASES: A MULTIINSTITUTIONAL MSTs SPONSORED PROSPECTIVE STUDY. Sixteenth Annual Meeting Connective Tissue Oncology Society, Paris, France, 2010

9. Mangray S, Shillingford N, Yakirevich E, Terek R: Post radiation periosteal osteogenic sarcoma radiologically simulating conventional osteogenic sarcoma. 26th European Congress of Pathology. London, UK, 2014

NATIONAL:

1. Boretos JW, Terek RM, Girton ME, Doppman JL: Cohesive and frictional reduction of intra-arterial microcatheters. Thirty-third Annual Conference on Engineering, Medicine, and Biology, Washington, D.C., 1981.

2. Boretos JW, Dingler WL, Terek RM, Edwards KJ, Wilkins JF, Girton ME, Doppman JL: Integral balloon catheter for interventional radiology. Thirty-third Annual Conference on Engineering, Medicine, and Biology, Washington, D.C., 1981.

3. Terek RM and January CT: Strength-interval curves in normal and acetylthiocholine toxic sheep Purkinje fibers. Federation of the American Society of Experimental Biologists, Chicago, Illinois, 1983.

4. Nemeth GG, Heydemann A, Jingushi S, Terek R, Bolander ME: Temporal activation and abnormal regulation of cartilage and bone genes in fracture healing. Second International Conference on Molecular Biology and Pathology of Matrix, Philadelphia, Pennsylvania, 1988.

5. Terek RM, Nemeth GG, Heydemann A, Joyce ME, Macey LR, Bolander ME: Transforming growth factor-beta suppresses cartilage specific gene expression during endochondral bone repair. The American Society for Clinical Investigation, Washington, D.C., 1989.

6. Terek RM, Nemeth GG, Heydemann A, Bolander ME: Transforming growth factor-beta suppresses type II collagen gene expression in fracture healing. Transactions, Orthopaedic Research Society, Las Vegas, Nevada, 1989.

7. Terek RM, Wehner J, Lubicky JP: The crankshaft phenomenon in congenital scoliosis. The Scoliosis Research Society, Honolulu, Hawaii, 1990.

8. Joyce ME, Terek RM, Jingushi S, Heydemann A, Romero A, Bolander ME: Fracture callus organ culture: an in vivo model for fracture healing. Transactions of the Orthopaedic Research Society, 15:409, 1990.

9. Nixon R, Terek R, Farless B, Dobozi W: Sequential measurement of compartment pressures after intramedullary fixation of femur fractures. Proceedings, 58th Annual Meeting, American Academy of Orthopaedic Surgeons, 1991.

10. Terek RM, Jiranek WA, Alman BA, Alessandro DA, Machado ML, Membrino WM, Ruby LK, Goldberg MJ, Naber SP, Wolfe HJ: *C-sis* expression in Dupuytren's disease. The Orthopaedic Research Society, Washington, D.C., 1992.

11. Alman BA, Terek RM, Jiranek WA, Naber SP, Goldberg MJ, Wolfe HJ: The control of growth of fibrous lesions of the musculo-skeletal system, the role of the *c-sis* gene and PDGF. The Orthopaedic Research Society, Washington, D.C., 1992.

12. Alman BA, Jiranek WA, Naber SP, Terek RM, Goldberg MJ, Wolfe HJ: Inappropriate *c-sis* proto-oncogene expression in fibrous dysplasia: an *in situ* and PCR study. United States and Canadian Academy of Pathology Annual Meeting, Atlanta, Georgia, 1992.

13. Brien EW, Terek RM, Geer RJ, Caldwell C, Brennan MF, Healey JH: Soft-Tissue Sarcoma of the Hand: A Therapeutic Dilemma, Eastern Orthopaedic Association, Orlando, Florida, 1993.

14. Terek RM, Marcove RC, Meyers PA, Lane JM, Healey JH: Long-term results after resection of femoral Ewing's sarcoma. Society of Surgical Oncology, Los Angeles, California, 1993.

15. Terek RM, Brien EW, Lane JM, Marcove RC, Healey JH: Long-term results after resection of Ewing's tumor of the femur. 46<sup>th</sup> Cancer Symposium, Society of Surgical Oncology, Los Angeles, CA, 1993.

16. Terek RM, Brien EW, Lane JM, Marcove RC, Healey JH: Long-term results after resection of Ewing's tumor of the femur. Western Orthopaedic Association, Long Beach, CA, 1994

17. Terek RM, Brien EW, Lane JM, Marcove RC, Healey JH: Long-term results after resection of Ewing's tumor of the femur. American Academy of Orthopaedic Surgeons 61st Annual Meeting, New Orleans, Louisiana, 1994
18. Terek RM: Chemotherapy and multi-drug resistance gene expression in chondrosarcoma. Musculoskeletal Tumor Society, Rochester, Minnesota, 1994.
19. Brien EW, Terek RM, Lane JM, Healey JH: Reconstruction after proximal tibial resection for bone tumors. The American Orthopaedic Association 107th Annual Meeting, Sun Valley, Idaho, 1994;
20. Brien EW, Terek RM, Lane JM, Healey JH: Reconstruction after proximal tibial resection for bone tumors. Western Orthopaedic Association, Long Beach, CA, 1994.
21. Brien EW, Terek RM, Healey JH, Brennan MF: Management of soft tissue sarcomas of the hand. The American Society for Surgery of the Hand 49th Annual Meeting, Cincinnati, Ohio, 1994.
22. Brien EW, Terek RM, Healey JH, Brennan MF: Management of soft tissue sarcomas of the hand. Western Orthopaedic Association, Long Beach, CA, 1994.
23. Ladanyi M, Jhanwar S, Terek R, Cordon-Cardo C, Latres E, Healey J: Prevalence and implications of MDM2 gene amplification in human bone sarcomas. Fortieth Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, 1994.
24. Terek RM, Schwartz GK, Healey JH, Pobre T, Marcove RC, Lane JM, Albino A: Chemotherapy and multidrug resistance gene expression in chondrosarcoma. Transactions, Fortieth Annual Meeting of the Orthopaedic Research Society, 1994.
25. Terek RM, Mak S: Differential Gene Expression in Chondrosarcoma. Transactions of the 42nd Annual Meeting of the Orthopaedic Research Society, 1996.
26. Wyman JJ, Hornstein AM, Meitner P, Mak S, Verdier P, Block JA, Pan J, Terek RM: The multi-drug resistance gene in chondrosarcoma cell lines: Expression correlates with decreased intracellular doxorubicin levels and in vitro chemosensitivity resistance. Transactions of the 44th Annual Meeting of the Orthopaedic Research Society, 1998.
27. Terek RM, Mak S, Block JA, Bliss M: Cloning of a novel chondrosarcoma associated gene. 44th Annual Meeting of the Orthopaedic Research Society, 1998.
28. Terek RM, Mak S, Block JA, Bliss M: Cloning of a novel chondrosarcoma associated gene. Transactions of the 51st Annual Meeting of the Society of Surgical Oncology Cancer Symposium, 1998.
29. Terek RM, Mak S, Block JA, Grunstein I: Complete cloning of the IK gene and its expression in cartilage and chondrosarcoma. Transactions of the 44th Annual Meeting of the Orthopaedic Research Society, 1998.
30. McGough R, Aswad B, and Terek R: Microvasculature of cartilage tumors. Annual Meeting of the Musculoskeletal Tumor Society, Gainesville, Florida, 2000
31. McGough R, Aswad B, and Terek R: Microvasculature of cartilage tumors. Society of Surgical Oncology, 54<sup>th</sup> Annual Cancer Symposium, Washington, D.C., 2001
32. McGough R, Aswad B, and Terek R: Tumor angiogenesis in chondrosarcoma. Annual Meeting of the Orthopaedic Research Society, San Francisco, California, 2001
33. Greisberg J, Wyman J, Wolf J, Zou L, Terek R: Gadodiamide increases proteoglycan production and induces apoptosis in cultured chondrocytes. Annual Meeting of the Orthopaedic Research Society, San Francisco, California, 2001
34. Terek R, Lin C, Meitner P: PTEN mutation is present in an extraskeletal myxoid chondrosarcoma. Annual Meeting of the Orthopaedic Research Society, San Francisco, California, 2001
35. McGough R, Aswad B, and Terek R: Angiogenic cytokines in chondrosarcoma. Annual Meeting of the Musculoskeletal Tumor Society, Baltimore, MD 2001

36. Terek R, Lin C, Block J, Meitner P: Cancer/testis antigen CSAGE is concurrently expressed with MAGE in chondrosarcoma. Annual Meeting of the Orthopaedic Research Society, Dallas, Texas, 2002
37. McGough R, Lin C, Meitner T, Aswad B, Terek R: Angiogenic cytokines in cartilage tumors. Annual Meeting of the Orthopaedic Research Society, Dallas, Texas, 2002
38. Terek R, Aswad B, Lin C: HIF-1Alpha is expressed in chondrosarcoma. Annual Meeting of the Orthopaedic Research Society, Dallas, Texas, 2002
39. Wolf JM, Meitner PA, Terek RM: Hydrogen peroxide as a potential local adjuvant in the treatment of chondrosarcoma: An in vitro analysis. Musculoskeletal Tumor Society Annual Meeting, Toronto, Canada, 2002
40. Bluman EM, Lin C; Coulie PG, Meitner PA, Terek RM: Adoptive cellular immunotherapy against chondrosarcoma cells expressing MAGE-3 tumor associated antigen. Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, 2003
41. Terek RM, Lin C, Meitner PA: Effect of human chondrosarcoma cells on endothelial cell proliferation. Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, 2003
42. Wolf J, Meitner P, Terek R: Cytotoxicity of hydrogen peroxide on chondrosarcoma cell lines. Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, 2003
43. Allen, S D; Lin, C; McGough, R; Block, J A; Terek, R M: HYPOXIA ENHANCES ANGIOGENIC ACTIVITY OF CHONDROSARCOMA CELLS AND CHONDROCYTES. Annual Meeting of the Orthopaedic Research Society, San Francisco, California, 2004
44. Sun, X; Wei, L; Lee, J; Liu, J; Terek, R; and Qian Chen: CHEMOKINE STROMAL CELL-DERIVED FACTOR-1 INDUCES MATRIX DEGRADATION, CHONDROCYTE MIGRATION, AND FISSURE FORMATION IN ARTICULAR CARTILAGE, *51st Annual Meeting of the Orthopaedic Research Society, 2005*
45. \*Tashjian RZ, \*Lin C, \*Terek RM: 11 -HYDROXYSTEROID DEHYDROGENASE TYPE 1 (11 -HSD1) IN PERIPROSTHETIC OSTEOLYTIC MEMBRANES AND IN IL-1 AND TNF- STIMULATED FIBROBLASTS: IMPLICATIONS FOR PERIPROSTHETIC OSTEOLYSIS, *51st Annual Meeting of the Orthopaedic Research Society, 2005*
46. Wei, Lei; Sun, Xiaojuan; Wang, Zhenk; Terek, Richard; Chen, Qian INHIBITING CHEMOKINE STROMAL CELL DERIVED FACTOR-1 INDUCED CARTILAGE DEGRADATION BY SMALL INTERFERING RNA AND BY MONOCLONAL ANTIBODY THERAPY *Annual Meeting of the Orthopaedic Research Society, Chicago, IL, 2006*
47. Sun, Xiaojuan; Wei, Lei; Block, Joel; Terek, Richard - OVEREXPRESSION OF HDAC4 DOWN-REGULATES VASCULAR ENDOTHELIAL GROWTH FACTOR EXPRESSION IN CHONDROSARCOMA CELLS BY MODULATING RUNX2 EXPRESSION. *Annual Meeting of the Orthopaedic Research Society, Chicago, IL, 2006*
48. Arcand N, Spenciner DB, Rainbow MJ, Madon I, Machan J, Moore DC, Crisco JJ, Terek RM: Comparison of Bone Density Around In Vivo Spine Metastases and an InVitro Spine Tumor Model. *Annual Meeting of the Orthopaedic Research Society, San Diego, CA, 2007*
49. Lei Wei, Xiaojuan Sun, Zhenk Wang, Xu YangRichard Terek, Kanbe K, and Qian Chen CHEMOKINE SDF-1 STIMULATION OF CHONDROCYTE HYPERTROPHY INVOLVES THE TRANSCRIPTION FACTOR RUNX2 *Annual Meeting of the Orthopaedic Research Society, San Diego, CA, 2007*
50. Sun, X; Wei, L; Block, JA; Chen, Q; Terek RM: OVEREXPRESSION OF HDAC4 DOWN-REGULATES VASCULAR ENDOTHELIAL GROWTH FACTOR EXPRESSION IN CHONDROSARCOMA CELLS BY MODULATING RUNX2 EXPRESSION *Annual Meeting of the Orthopaedic Research Society, San Diego, CA, 2007*
51. Sun, X; Wei, L; Block, JA; Chen, Q; Terek RM: OVEREXPRESSION OF HDAC4 DOWN-REGULATES VASCULAR ENDOTHELIAL GROWTH FACTOR EXPRESSION IN CHONDROSARCOMA CELLS BY MODULATING RUNX2 EXPRESSION *Annual Meeting of the Musculoskeletal Tumor Society, St Louis, MO 2007*



52. Sun, X; Wei, L; Block, JA; Chen, Q; Terek RM: Hypoxia and CXCR4 increase chondrosarcoma cell invasion. *Annual Meeting of the Orthopaedic Research Society.* , San Francisco, CA, 2008
53. Terek RM, Tompkins M, Moore D, Crisco J: Biomechanical Analysis of Locked versus Nonlocked Plating of Large Bulk Allografts. Association of Bone and Joint Surgeons, Jackson Hole, WY, 2008
54. Terek RM, Wei L, Chen Q, Sun X: MMP-1 Expression is Regulated by CXCR4/SDF-1 in Chondrosarcoma Cells. *Annual Meeting of the Orthopaedic Research Society.* , Las Vegas, NV 2009
55. Valdes M, Yang W, Wei L, Terek R, Appleyard D, Sun C, Sun X, Ehrlich M: Dose-dependent Naloxone Exposure Stimulates Osteoblastic Differentiation in Negatively Immunodepleted Mesenchymal Stem Cells. *Annual Meeting of the Orthopaedic Research Society.* , Las Vegas, NV 2009
56. Sun C, Wang Z, Valdes M, Wu Q, Chen D, Terek RM, Moore DC, Quesenberry P, Chen Q, Ehrlich MG, Yang W: IGF1-evoked Chondrocyte Differentiation Requires Protein Tyrosine Phosphatase Shp2. *Annual Meeting of the Orthopaedic Research Society.* , Las Vegas, NV 2009
57. Valdes M, Yang W, Wei L, Terek RM, Sun C, Sun X, Ehrlich MG: Naloxone exposure of bone marrow mesenchymal stem cells promotes their osteoblastic differentiation. Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV 2009
58. Terek RM, Snyder BD, Nazarian A, Entezari V, Hipp JA, Calderon N, Damron TA, Cheng EY, Aboulaflia AJ, Anderson ME, Gebhardt MC: CT-based structural rigidity analysis alters the course of treatment in patients with skeletal metastases: A prospective diagnostic study. Clinical and Translational Research and Education: ACRT/SCTS Joint Annual Meeting, April 5-7, Washington, DC 2010.
59. Sun, X; Terek, R: CXCR4/SDF-1 Promote Angiogenesis in Chondrosarcoma. *Annual Meeting of the Orthopaedic Research Society.* , New Orleans, LA, 2010.
60. Wei, L; Kanbe, K; Wei, X; Sun, X; Terek, R; Chen, Q: Stimulation of Chondrocyte Hypertrophy by Chemokine Stromal Cell-Derived Factor 1 in the Chondro-osseous Junction through a Positive Feedback Loop Mediated by Runx2. *Annual Meeting of the Orthopaedic Research Society.* , New Orleans, LA, 2010.
61. Snyder BD; Nazarian A; Entezari V; Hipp JA; Calderon N; Terek R; Cheng E; Aboulaflia A; Anderson ME; Gebhardt M; Damron T: CT-BASED STRUCTURAL RIGIDITY ANALYSIS ALTERS SELECTED TREATMENT IN PATIENTS WITH FEMORAL METASTASES: A MULTI-INSTITUTIONAL MSTs SPONSORED PROSPECTIVE STUDY. Annual Meeting Musculoskeletal Tumor Society, Philadelphia, PA, 2010
62. Terek R; Sun, X: Mir-126 Inhibits VEGF Expression and Proliferation in Chondrosarcoma Cells. Annual Meeting of the Orthopaedic Research Society. , Long Beach, CA, 2011.
63. Tompkins M; Paller D; Moore D; Crisco J; Terek R: Locking Buttons Optimize Fatigue Life of Locking Plates in Allograft Nonunion Model. Annual Meeting of the Orthopaedic Research Society. , Long Beach, CA, 2011.
64. Snyder BD; Nazarian A; Entezari V; Hipp JA; Calderon N; Terek R; Cheng E; Aboulaflia A; Anderson ME; Gebhardt M; Damron T: CT-BASED STRUCTURAL RIGIDITY ANALYSIS ALTERS SELECTED TREATMENT IN PATIENTS WITH FEMORAL METASTASES: A MULTI-INSTITUTIONAL MSTs SPONSORED PROSPECTIVE STUDY. Annual Meeting American Academy of orthopaedic Surgeons, San Diego, CA, 2011
65. Terek R, Sun, Wei L; Chen Q: CXCR4 TARGETED THERAPY FOR CHONDROSARCOMA, Combined Meeting of the Connective Tissue Oncology Society and Musculoskeletal Oncology Society, Chicago, IL, 2011
66. Terek R, Paller D, Moore D; Crisco J, Tompkins M: LOCKING BUTTONS OPTIMIZE FATIGUE LIFE OF LOCKING PLATES IN ALLOGRAFT NONUNION MODEL, Combined Meeting of the Connective Tissue Oncology Society and Musculoskeletal Oncology Society, Chicago, IL, 2011
67. Terek R, Sun X, Wei L; Chen Q: CXCR4 TARGETED THERAPY FOR CHONDROSARCOMA, 4th Northeast IDeA Meeting, Newport, RI 2011

68. Snyder BD; Nazarian A; Entezari V; Hipp JA; Calderon N; Terek R; Cheng E; Aboulafia A; Anderson ME; Gebhardt M; Damron T: CT-based Rigidity Analysis Affects Treatment Plan for Appendicular Skeletal Metastasis, International Bone & Mineral Society's (IBMS) Cancer Induced Bone Disease, Chicago, IL 2011
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72. Wei L; Wei X; Wei Y; Wang X; Fleming B; Terek R; Chen Q: A-2-Macroglobulin Inhibits Inflammatory Cytokines and MMPs in Osteoarthritis. Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, 2012
73. Jayasuriya CT, Goldring MB, Terek RM, Chen Q: Regulation of Cartilage Homeostasis Genes by Matrilin-3: Dependency on Interleukin-1 Receptor Antagonist. Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, 2012. New Investigator Award
74. Terek R, Sun X ,Wei L; Chen Q: CXCR4 TARGETED THERAPY FOR CHONDROSARCOMA TREATMENT, Association of Bone and Joint Surgeons, Charleston, SC 2012
75. Damron TA, Brown C, Nazarian A, Entezari V, Cheng E, Anderson ME, Terek RM, Aboulafia A, Cheung F, Randall L, Turcotte RE, Lin PP, Gebhardt M, Snyder B: CT-BASED STRUCTURAL RIGIDITY ANALYSIS IMPROVES SPECIFICITY AND POSITIVE PREDICTIVE VALUE OVER MIRELS CLASSIC RECOMMENDATIONS FOR FEMORAL METASTATIC LESIONS: A MULTI-INSTITUTIONAL MSTS SPONSORED STUDY. Musculoskeletal Tumor Society, Tampa, FL 2012
76. Carlos Enrique Brown, Vahid Entezari, Ara Nazarian, Brian D. Snyder, John A. Hipp, Richard M. Terek, Albert J. Aboulafia, Megan E. Anderson, Mark C. Gebhardt, Timothy A. Damron: CT-based structural rigidity analysis yields high specificity and sensitivity for femoral fracture prediction, Journal of the American College of Surgeons - September 2012 (Vol. 215, Issue 3, Supplement, Page S62, DOI: 10.1016/j.jamcollsurg.2012.06.173)
77. Jingming Zhou; Yuzhi Wei; Xiaochun Wei; Shaowei Wang; Ge Zhang; Qian Chen; Richard Terek; Lei Wei: Disrupting Ihh signaling pathway in vivo attenuates OA progression in Col2a1-CreERT2; Ihhfl/fl mouse induced by surgery. Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, 2013. New Investigator Award Finalist
78. Changqi Sun; Yuzhi Wei; Xiaochun Wei; Caroline Huang; Ge Zhang; Richard Terek; Lei Wei: Decrease of HDAC4 is associated with OA cartilage degeneration by up-regulating OA related genes. Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, 2013.
79. W. Yang, D. Moore, M. Dooner, Q. Chen, Q. Wu, R. Terek, B. G. Neel, P. J. Quesenberry, M. G. Ehrlich, A. Mohan: Cartilage-Specific Tumor Suppression by Ptpn11 As Revealed by Tissue Specific Shp2 deficient Mice. Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, 2013.
80. A. Nazarian, V. Entezari, J. Hipp, N. Calderon, D. Zurakowski, P. Lin, A. Aboulafia, R. Turcotte, M. Anderson, M. Gebhardt, F. Cheung, E. Cheng, R. Terek, T. Damron, B. Snyder: CT-based Structural Rigidity Analysis Accurately Predicts Fracture Risk and Influences Treatment of Patients with Skeletal Metastases: A Prospective, Multi-Center Study. Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, 2013.
81. Terek R, Sun X: MicroRNA and Chondrosarcoma Metastasis, Annual Meeting of the Musculoskeletal Tumor Society, San Francisco, CA, October 2013.
82. Terek R, Sun X: MicroRNA and Chondrosarcoma Metastasis, Annual Meeting of the Connective Tumor Oncology Society, NY, NY, November 2013.

83. Shaowei Wang, Pengcui Li, Xiaochun Wei, Yuzhi Wei, Jingming Zhou, Jing Zhang, Kai Li., Qian Chen, PHD, Richard Terek, Braden C. Fleming, Mary B. Goldring, PhD, Michael G. Ehrlich, Ge Zhang, Lei Wei: Identification Of Alpha 2 Macroglobulin (a2m) As A Master Inhibitor To Attenuate Post-traumatic Osteoarthritis Cartilage Degeneration. Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, 2014.
84. Raghavendra Kamalesh, Yinnan Yu, Douglas Moore, M.S., Richard Terek, M.D., Qian Wu, M.D., Di Chen, M.D., Ph.D., Peter J. Quesenberry, M.D., Michael G. Ehrlich, M.D., Wentian Yang, M.D., Ph.D.: PTPN11 Gene Is Required For Chondrogenesis and Cartilage Homeostasis. Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, 2014.
85. Sun X, Wei L, Charbonneau C, Chen Q, Terek R: MicroRNA-181a Regulates Chondrosarcoma Metastasis By Enhancing Chemokine Receptor Signaling. Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, 2014.
86. Sun X, Wei L, Charbonneau C, Terek R: MicroRNA-181a Regulates Chondrosarcoma Metastasis. Annual Meeting of the Associate of Bone and Joint Surgeons, New York, NY, 2014.
87. Terek RM, Charbonneau C, Sun X: ANTAGOMIR THERAPY FOR CHONDROSARCOMA. Annual Meeting, Association of Bone and Joint Surgeons, NY, NY 2014
88. Terek R: IlluminOss Lightfix Trial: A Prospective, Multi-Center Study of the IlluminOss System for the Treatment of Impending and Actual Pathological Fractures in the Humerus from Metastatic Bone Disease, Annual Meeting of the Musculoskeletal Tumor Society, Detroit, MI 2016.
89. Jayasuriya CT, Lemme N, Terek R, Chen Q: Establishment and Characterization of Chondroprogenitor and Osteochondral-Progenitor Cell Lines from Human Adult Osteoarthritic Articular Cartilage. Annual Meeting of the Orthopaedic Research Society, Orlando, FL 2016
90. Jayasuriya CT, Rokicki A, Li J, Terek RM, Ehrlich MG, Chen Q: Osteoarthritis Stem Cells From Human Cartilage Exhibit High Hypertrophic Differentiation Capacity, Which Can Be Attenuated By Simultaneous Knockdown Of Runx2 And Notch1. Annual Meeting of the Orthopaedic Research Society, San Diego, CA 2017
91. Terek RM, Healey JH, Fabbri N: ILLUMINOSS LIGHTFIX TRIAL: A PROSPECTIVE, MULTI-CENTER STUDY OF THE ILLUMINOSS SYSTEM FOR THE TREATMENT OF IMPENDING AND ACTUAL PATHOLOGICAL FRACTURES IN THE HUMERUS FROM METASTATIC BONE DISEASE. Annual Meeting, Association of Bone and Joint Surgeons, Austin, TX, 2017
92. Terek, R: Nanopiece Delivery Of Nucleotide Therapeutics Inhibits Chondrosarcoma Progression, Annual Meeting of the Musculoskeletal Tumor Society, NY, NY 2018
93. Terek, R: One Year Results of The Illuminoss Lightfix Trial Indicate Durable Improvements In Pain and Function After Treatment Of Humeral Metastatic Disease, Annual Meeting of the Musculoskeletal Tumor Society, NY, NY 2018
94. Jayasuriya CT; Owens B; Feltman P; Franco J; Twomey-Kozak J; Newberry J; Hansen H; Li N; Terek R; Chen Q; Ehrlich MG: Cartilage Progenitor Cells Successfully Bridge Meniscal Tear and Resist Cellular Hypertrophy. Annual Meeting of the Orthopaedic Research Society, New Orleans, LA 2018
95. Huang J; Wang L; Moore D; Yang H; Wei J; Dooner M, Terek R; Yang W: CTSK+ Groove of Ranvier Stem Cells Populate the Periosteum, Articular Cartilage and Growth Plate Under Control of the Protein Tyrosine Phosphatase SHP2. Annual Meeting of the Orthopaedic Research Society, Austin, TX 2019
96. Terek RM; Sun X; Chen Y; Yu H; Machan J; Hart J; Chen: Janus Base Derived Nanopieces for Delivery of Anti-miRNA Oligonucleotides in Chondrosarcoma. Annual Meeting of the Orthopaedic Research Society, Austin, TX 2019

LOCAL:

1. Grunstein I, Mak S, Terek R: Cloning and expression of IK-related gene in cartilage and chondrosarcoma cell lines. Biomedical Research Day Poster Session, Brown University, Providence, Rhode Island, April, 1997.
2. Terek RM, Mak S, Block JA, Bliss M: Cloning of a novel chondrosarcoma associated gene. Lifespan 6th Annual Research Celebration, 1998.

3. Wyman JJ, Hornstein AM, Meitner P, Mak S, Verdier P, Block JA, Pan J, Terek RM: The multi-drug resistance gene in chondrosarcoma cell lines: Expression correlates with decreased intracellular doxorubicin levels and in vitro chemosensitivity resistance. Lifespan 6th Annual Research Celebration, 1998.
4. Greisberg J, Wyman J, Wolf J, Zou L, Terek R: Gadodiamide increases proteoglycan production and induces apoptosis in cultured chondrocytes. 9<sup>th</sup> Annual Research Celebration, Lifespan, Providence, RI 2001
5. Terek R, Lin C, Meitner P: PTEN mutation is present in an extraskeletal myxoid chondrosarcoma. 9<sup>th</sup> Annual Research Celebration, Lifespan, Providence, RI 2001
6. McGough R, Aswad B, Terek, R: Pathologic Neovascularization in cartilage tumors. 9<sup>th</sup> Annual Research Celebration, Lifespan, Providence, RI 2001
7. Terek R: RIH COBRE for Skeletal health and Repair, “Anti-Angiogenesis Strategies for Chondrosarcoma”, Second Annual RI Research Alliance, Providence, RI, Oct 2, 2009.
8. Terek R: Treatment of Metastatic Disease of the Humerus, Annual Meeting of the New England Orthopaedic Society, Chatam, MA, 2018.

**GRANTS:**

1990-91	New England Medical Center PI, BRSG \$21,000
1994-2000	NIH # 2 U10 CA29293-17 New England Pediatric Oncology Consortium Associate Investigator No salary support.
1995-97	Orthopaedic Research and Education Foundation PI, Research Grant “Molecular Genetic Abnormalities in Chondrosarcoma” \$100,000
1997-2000	Orthopaedic Research and Education Foundation PI, Career Development Award “Characterization of Novel Chondrosarcoma Associated Genes” \$225,000
2007-2012	COBRE for Skeletal Health and Repair Chen (PI) 1P20RR024484-01 – NIH – 9/1/2007-8/31/2012 The goal of the Center of Biomedical Research Excellence (COBRE) is to establish a multi-disciplinary translational research center focusing on cartilage and joint health and disease mechanisms and developing repair strategy. Role: Investigator, Project 3: Mechanisms of Angiogenesis in Chondrosarcoma
2013-2018	Targeting CXCR4 and microRNA as Therapy for Chondrosarcoma Terek (PI) 1R01CA166089-01A1 NCI, NIH 9/20/2013-7/31/2018 \$1,400,000
2014-2015	Novel SiRNA Delivery Technology via Biomimetic Nanomaterial for Treatment of Joint Arthritis Chen (PI), Terek (Co-PI) Rhode Island Research Alliance Collaborative Grant Award \$75,000 The goal of this project is to develop therapy to treat joint arthritis.

**CLINICAL RESEARCH**

2008-	Biomechanics of Metastatic Defects in Bone Snyder (PI)Terek (Site Director), Supported by MSTs, OREF
2015-2016	Illuminoss Lightfix Trial (for metastatic disease to the humerus) Terek (Investigator)

## PATENTS

Terek; Richard M. (Providence, RI) Assignee: Rhode Island Hospital  
Chondrosarcoma Associated Genes  
Appl. No.: 09/042,225 Filed: March 13, 1998  
US patent 7,211,646, May 1, 2007

Terek; Richard M. (Providence, RI) Assignee: Rhode Island Hospital  
Targeting MicroRNA for Cancer Treatment  
Appl. No.: 62304048 FILING DATE: 03/04/2016  
Issue date: pending

## UNIVERSITY TEACHING ROLES:

1994-1997 Lecturer, Pathophysiology, Biomed 282  
1998-1999 Co-Director, Orthopaedic Pathophysiology, Biomed 282  
1999-2002 Director, Orthopaedic Pathophysiology, Biomed 282  
2000-2002 Section Leader, Supporting Structures, Biomed 282  
2003-2016 Lecturer, Pathophysiology, Biomed 282  
2017 Sem I, Fall 17-18, BIOL 1950, Jennifer Elacio '19

## HOSPITAL TEACHING ROLES:

1993-present Director, Orthopaedic Oncology Lectures, Orthopaedic Surgery Residency Program  
1993-present Supervise and educate 10 residents/year at RIH and 12 residents /year at VAMC  
1996-2003 Lecturer, Third Year Surgery Clerkship  
1996 Medicine in Action Program  
1997 Day in the Life Program

## RESEARCH RESIDENTS/STUDENTS SUPERVISED

Jennifer Elacio, 2017 Brown University, Research Elective: Serum microRNA as a biomarker for chondrosarcoma.

Salomi Desai, 2016 Vellore Institute of Technology, Master's Degree Thesis: Combination microRNA therapy utilizing nanoparticles for chondrosarcoma treatment.

Ashna Alladin, 2015 Vellore Institute of Technology, Undergraduate Thesis: Analysis of alternative miR-181a targets. EMBL, Heidelberg, Germany, PhD program

Katelyn Kondra, 2012 Brown undergraduate, effect of microRNA on doxorubicin sensitivity in chondrosarcoma cells. Hofstra North Shore – LIJ School of Medicine

Jason Bariteau, M.D. 2012 Expression of CXCR4/SDF1 in Achilles Tendon Healing. Foot and Ankle Surgery Fellowship, private practice

Benjamin Bruce, M.D. 2011-2012 Mentor, OREF Resident Research Award. CXCR4/SDF1 signaling in subacromial bursitis. Sports Medicine Fellowship, Orthopaedic Surgeon, private practice.

Mauricia Valdez, M.D. 2008-2009 Effect of naloxone on osteoblast differentiation  
Spine Surgery Fellowship, Assistant Professor, University of Arizona

Mark Tomkins, M.D. 2007-2010 Biomechanical analysis of internal fixation of allograft reconstruction with locking and non-locked plates.  
Sports Medicine Fellowship, University of Virginia; Assistant Professor, University of Minnesota

Carmelle Romain MD'09 Summer 2006 Effect of hypoxia on HDAC4, Runx2, VEGF in chondrosarcoma  
General Surgery Residency, Vanderbilt University

Nicole Arcand MD 2006 Quantitative evaluation of bone loss in metastatic disease of the spine, New Investigator Award Finalist, Rhode Island Research Day, 2006.  
Foot and Ankle Fellowship, private practice

Robert Tashjian, M.D. 2002-2005 Mechanisms of osteolysis in failed total joint arthroplasty  
Shoulder Fellowship, Washington University; Associate Professor, University of Utah

Eric Bluman, M.D., Ph.D. 2001-2004 Immunotherapy for chondrosarcoma  
Foot and Ankle Surgery Fellowship, Assistant Professor, Beth Israel/ Harvard Medical School

Scott Allen, M.D. 2001-2004 Angiogenesis in chondrosarcoma.  
Hand Surgery Fellowship, private practice

Richard McGough, MD, 1999-2002, Vascularity in chondrosarcoma. Haffenreffer research award 2001. Young Investigator Award, Lifespan, October 2001.  
Fellowship, Orthopaedic Oncology, M.D. Anderson Cancer Center, Houston Texas.  
Associate Professor, University of Pittsburgh

Jennifer Wolfe, MD, 1999-2002, Effect of vincristine and doxorubicin on CSAG1a gene expression in FS and SKOV cells.  
Effect of hydrogen peroxide on chondrosarcoma and chondrocyte viability.  
Hand Fellow, Mayo Clinic  
Associate Professor, University of Connecticut

Justin Greisberg, MD, 1999-2001, Apoptosis and nitrous oxide in osteoarthritic cartilage; Effect of gadolinium on proteoglycan synthesis, proliferation, and apoptosis in cultured chondrocytes.  
Foot and Ankle Surgery Fellowship , Associate Professor, Columbia University, NY, NY

James Wyman MD, 1996-1997, MDR-1 gene expression and doxorubicin levels in chondrosarcoma cell lines. Haffenreffer research award 1998.  
Orthopaedic Surgeon, private practice.

Itamar Grunstein 1996, Independent study Biomed 0195. Research Fellow 1997-98, Cloning of IK gene from chondrosarcoma cell line. Medical student, Stanford University, Emergency Medicine Physician.

Hans Olsen 1994-95. Cloning of Collagen type II promotor/BMP-2 construct.  
Orthopaedic Surgeon, private practice.