

Stanford



Raffi S. Avedian, MD

Associate Professor of Orthopaedic Surgery

CLINICAL OFFICE (PRIMARY)

- **Orthopaedic Musculoskeletal Tumor Surgery**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

CLINICAL FOCUS

- Pediatric tumors
- Bone and soft tissue tumors
- Sarcomas
- Pelvic tumors
- Hip and knee reconstruction
- Orthopaedic Surgery

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Orthopaedic Surgery
- Member, Bio-X

PROFESSIONAL EDUCATION

- Residency: UCSF Dept of Orthopedic Surgery (2007) CA
- Internship: UCSF Dept of General Surgery (2003) CA
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2011)
- Fellowship: Univ of Chicago - Pritzker School of Medicine (2008) IL
- Medical Education: University of Chicago Pritzker (2002) IL

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- Incisional Negative Pressure Wound Therapy for Preoperatively Irradiated Lower Extremity Soft Tissue Sarcoma Wounds, Not Recruiting
- Phase 3 Study of Pexidartinib for Pigmented Villonodular Synovitis (PVNS) or Giant Cell Tumor of the Tendon Sheath (GCT-TS), Not Recruiting

Publications

PUBLICATIONS

- **Decoding the evolutionary landscape of soft tissue sarcomas: From multiregion origins to therapy-driven adaptation**
Soudi, S., Silvia, N., Subramanian, A., Nouth, S., Ryu, F., Kaneko, T., New, C., Kenney, D., Avedian, R., Steffner, R., Mohler, D., Kalbasi, A., Van De Rijn, et al
AMER ASSOC CANCER RESEARCH.2025: B18
- **Assessing 10-Year Risk of Revision Surgery and Postoperative Complications Following Thoracic or Lumbar Fusion Surgery in HIV-Positive Patients.** *Spine*
Kishan, A., Khela, H. S., Wang, J. Y., Cancian, T. P., Parel, P. M., Cottrill, E. J., Eward, W. C., Shaffrey, C. I., Tahmasebpour, P., Schoenfeld, A. J., Kleck, C. J., Tuffaha, S. H., Avedian, et al
2025
- **Is Malignancy Associated With Arthroplasty? A Meta-analysis.** *Clinical orthopaedics and related research*
Johnstone, T., Sayadi, J. J., Arora, J. S., Francis, S. D., Khattab, N. R., Ha, J. H., Avedian, R., Lee, G.
2025
- **Prevention in non-oncologic intent sarcoma surgery.** *Surgical oncology*
Wise, C. E., Le, C., Pham, N. S., New, C., Kenney, D. E., Avedian, R., Mohler, D., Steffner, R.
2025; 62: 102273
- **Survival of Proximal Tibial Endoprostheses Using Compressive Osseointegration: A Multi-Institution Retrospective Study.** *Journal of surgical oncology*
Day, Y., Thompson, A. R., Andaya, V. R., Smith, K., Doung, Y. C., Gundle, K. R., Hayden, J. B., Tran, T. H., Mohler, D. G., Avedian, R. S., New, C., Morse, L. J., Fang, et al
2025
- **Outcomes of Oncovascular Reconstruction in Patients With Extremity Sarcomas**
Zahiri, A., Fereydooni, A., Eshraghian, E., Ho, M., Avedian, R. S., Mohler, D. G., Lee, J. T., Harris, E., George, E. L.
MOSBY-ELSEVIER.2025
- **Association of Histologic Subtype With Radiation Response and Survival Outcomes in Synovial Sarcoma** *ADVANCES IN RADIATION ONCOLOGY*
Matsui, J. K., Jackson, S., Fang, J., Mohler, D. G., Steffner, R. J., Charville, G. W., van de Rijn, M., Million, L., Chin, A. L., Hiniker, S. M., Kalbasi, A., Moding, E. J.
2025; 10 (3)
- **Association of Histologic Subtype With Radiation Response and Survival Outcomes in Synovial Sarcoma.** *Advances in radiation oncology*
Matsui, J. K., Jackson, S., Fang, J., Mohler, D. G., Steffner, R. J., Avedian, R. S., Charville, G. W., Rijn, M. v., Million, L., Chin, A. L., Hiniker, S. M., Kalbasi, A., Moding, et al
2025; 10 (3): 101718
- **Evolutionary Pressures Shape Undifferentiated Pleomorphic Sarcoma Development and Radiotherapy Response.** *Cancer research*
Blomain, E., Soudi, S., Wang, Z., Somani, A., Subramanian, A., Nouth, S. C., Oladipo, E., New, C., Kenney, D. E., Nemat-Gorgani, N., Kindler, T., Avedian, R. S., Steffner, et al
2025
- **IluminOss photodynamic bone stabilization system improves pain and function in the treatment of humeral metastatic disease.** *The bone & joint journal*
Terek, R. M., McGough, R., Fabbri, N., Cheung, F., Brigman, B., Wittig, J., Emory, C., Aboulafia, A., Avedian, R., Mayerson, J., Henshaw, R., Reimer, N., Eward, et al

2024; 106-B (12): 1485-1492

- **IlluminOss photodynamic bone stabilization system improves pain and function in the treatment of humeral metastatic disease THE ILLUMINO S S LIGHTFIX TRIAL** *BONE & JOINT JOURNAL*
Terek, R. M., IlluminOss Study Grp
2024; 106B (12): 1485-1492
- **Sarcoma microenvironment cell states and ecosystems are associated with prognosis and predict response to immunotherapy.** *Nature cancer*
Subramanian, A., Nemat-Gorgani, N., Ellis-Caleo, T. J., van IJzendoorn, D. G., Sears, T. J., Somani, A., Luca, B. A., Zhou, M. Y., Bradic, M., Torres, I. A., Oladipo, E., New, C., Kenney, et al
2024
- **Patterns of local recurrence and risk of skin recurrence in soft tissue sarcomas after surgical resection.** *Practical radiation oncology*
Ewongwo, A., Oladipo, E. D., Hui, C., Avedian, R. S., Steffner, R. J., Mohler, D. G., Kalbasi, A., Chin, A. L., Million, L., Hiniker, S. M., Moding, E. J.
2023
- **Osteosarcoma PDX-Derived Cell Line Models for Preclinical Drug Evaluation Demonstrate Metastasis Inhibition by Dinaciclib through a Genome-Targeted Approach.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Schott, C. R., Koehne, A. L., Sayles, L. C., Young, E. P., Luck, C., Yu, K., Lee, A. G., Breese, M. R., Leung, S. G., Xu, H., Shah, A. T., Liu, H. Y., Spillinger, et al
2023: OF1-OF16
- **FUNCTIONAL AND TOXICITY OUTCOMES OF RADIATION THERAPY FOR DUPUYTREN'S CONTRACTURE**
Oh, J., Wang, Y., Hiniker, S.
ELSEVIER IRELAND LTD.2023: S98
- **OUTCOMES OF PEDIATRIC AND ADOLESCENT PATIENTS WITH METASTATIC SARCOMA TREATED WITH SURGICAL RESECTION OR STEREOTACTIC ABLATIVE RADIATION THERAPY**
Oh, J., Gutkin, P., Wang, Y., Donaldson, S., Steffner, R., Bruzoni, M., Avedian, R., Spunt, S., Pribnow, A., Hiniker, S.
ELSEVIER IRELAND LTD.2023: S98
- **MR-guided focused ultrasound therapy of extra-abdominal desmoid tumors: a multicenter retrospective study of 105 patients.** *European radiology*
Düx, D. M., Baal, J. D., Bitton, R., Chen, J., Brunsing, R. L., Sheth, V. R., Rosenberg, J., Kim, K., Ozhinsky, E., Avedian, R., Ganjoo, K., Bucknor, M., Dobrotwir, et al
2023
- **Combining Shelf Osteotomy With Proximal Femoral Reconstruction After Oncologic Resection** *TECHNIQUES IN ORTHOPAEDICS*
Zhou, J. Y., Lai, C., Pun, S. Y., Richey, A., Leshikar, H. B., Avedian, R., Steffner, R.
2023; 38 (2): 85-89
- **Survival and failure modes of the Compress spindle and expandable distal femur endoprosthesis among pediatric patients: A multi-institutional study.** *Journal of surgical oncology*
Tanaka, K. S., Andaya, V. R., Thorpe, S. W., Gundle, K. R., Hayden, J. B., Duong, Y., Avedian, R. S., Mohler, D. G., Morse, L. J., Zimel, M. N., O'Donnell, R. J., Fang, A., Randall, et al
2022
- **Outcomes of Pediatric and Adolescent Patients with Metastatic Sarcoma Treated with Surgical Resection or Stereotactic Ablative Radiation Therapy (SABR)**
Oh, J., Gutkin, P., Donaldson, S., Steffner, R., Bruzoni, M., Avedian, R., Spunt, S., Pribnow, A., Hiniker, S.
LIPPINCOTT WILLIAMS & WILKINS.2022: S42
- **Interactions in CSF1-driven Tenosynovial Giant Cell Tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
van IJzendoorn, D. G., Matusiak, M., Charville, G. W., Spierenburg, G., Varma, S., Colburg, D. R., van de Sande, M. A., van Langevelde, K., Mohler, D. G., Ganjoo, K. N., Bui, N. Q., Avedian, R. S., Bovee, et al
2022
- **Management of Patients with Newly Diagnosed Desmoid Tumors in a First-Line Setting.** *Cancers*
Testa, S., Bui, N. Q., Charville, G. W., Avedian, R. S., Steffner, R., Ghanouni, P., Mohler, D. G., Ganjoo, K. N.
2022; 14 (16)

- **PET/MR of pediatric bone tumors: what the radiologist needs to know.** *Skeletal radiology*
Padwal, J., Baratto, L., Chakraborty, A., Hawk, K., Spunt, S., Avedian, R., Daldrup-Link, H. E.
2022
- **Local control outcomes using stereotactic body radiotherapy or surgical resection for metastatic sarcoma.** *International journal of radiation oncology, biology, physics*
Gutkin, P. M., von Eyben, R., Chin, A., Donaldson, S. S., Oh, J., Jiang, A., Ganjoo, K. N., Avedian, R. S., Bruzoni, M., Steffner, R. J., Moding, E. J., Hiniker, S. M.
2022
- **Metastatic Pattern of Truncal and Extremity Leiomyosarcoma: Retrospective Analysis of Predictors, Outcomes, and Detection.** *Journal of personalized medicine*
Tigchelaar, S. S., Frey, C., Sivaraj, D., Segovia, N. A., Mohler, D. G., Steffner, R. J., Avedian, R. S.
2022; 12 (3)
- **The US Medical Licensing Examination Step 1 Scoring Change: A Survey of Orthopaedic Surgery Residency Applicants From the 2019 to 2020 Match Cycle.** *The Journal of the American Academy of Orthopaedic Surgeons*
Arguello, A. M., Edwards, D. N., Cohn, M. R., Johnson, M. D., Ames, S. E., Avedian, R. S., Ponce, B. A., Kogan, M.
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- **Postinterview Communication in Orthopaedic Surgery Residency Interviews: A Survey of Match Applicants.** *JB & JS open access*
Arguello, A. M., Love, B., Ponce, B. A., McGwin, G., Patt, J. C., Johnson, M. D., Ames, S. E., Avedian, R., Kogan, M.
2022; 7 (1)
- **Education research - Understanding the factors involved in inpatient communication for orthopedic trainees.** *Annals of medicine and surgery (2012)*
Daniel, D., Avedian, R., Johnson, T., Michaud, J. B., Weimer-Elder, B., Kline, M., Nassar, A. K.
2021; 72: 103079
- **Distal femoral fine wire traction assisted retrograde nailing of the femur.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Chen, M. J., Avedian, R. S., Gardner, M. J., Bishop, J. A.
2021
- **Ferumoxylol magnetic resonance imaging detects joint and pleural infiltration of bone sarcomas in pediatric and young adult patients.** *Pediatric radiology*
Theruvath, A. J., Rashidi, A., Nyalakonda, R. R., Avedian, R. S., Steffner, R. J., Spunt, S. L., Daldrup-Link, H. E.
2021
- **Simulation-Based Mastery Learning to Teach Distal Radius Fracture Reduction.** *Simulation in healthcare : journal of the Society for Simulation in Healthcare*
Toal, G. G., Gisondi, M. A., Miller, N. M., Sebok-Syer, S. S., Avedian, R. S., Dixon, W. W.
2020; Publish Ahead of Print
- **An anatomic classification for heterotopic ossification about the hip.** *Journal of orthopaedics*
DeBaun, M. R., Ziino, C. n., LaPrade, C. n., Pun, S. n., Avedian, R. S., Bellino, M. J.
2020; 21: 228–31
- **Comparison of ferumoxylol- and gadolinium chelate-enhanced MRI for assessment of sarcomas in children and adolescents.** *European radiology*
Siedek, F., Muehe, A. M., Theruvath, A. J., Avedian, R., Pribnow, A., Spunt, S. L., Liang, T., Farrell, C., Daldrup-Link, H. E.
2019
- **Anti-rotation pins for the compress implant do not increase risk of mechanical failure or impair osseointegration** *ANNALS OF JOINT*
Campbell, S. T., Steffner, R. J., Finlay, A., Mohler, D. G., Avedian, R. S.
2019; 4 (8)
- **A technique for anchor plug salvage in the setting of a cold welded taper adapter following compress implant failure** *ANNALS OF JOINT*
Campbell, S. T., Roe, A. K., Avedian, R. S.
2019; 4 (8)

- **The Outcome of Patients With Localized Undifferentiated Pleomorphic Sarcoma of the Lower Extremity Treated at Stanford University** *AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS*
Kamat, N. V., Million, L., Yao, D., Donaldson, S. S., Mohler, D. G., van de Rijn, M., Avedian, R. S., Kapp, D. S., Ganjoo, K. N.
2019; 42 (2): 166–71
- **Ferumoxytol Does Not Impact Standardized Uptake Values on PET/MR Scans.** *Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging*
Muehe, A. M., Yermeni, K. n., Theruvath, A. J., Thakor, A. S., Pribnow, A. n., Avedian, R. n., Steffner, R. n., Rosenberg, J. n., Hawk, K. E., Daldrup-Link, H. E.
2019
- **Patient Preferences for Shared Decision Making: Not All Decisions Should Be Shared.** *The Journal of the American Academy of Orthopaedic Surgeons*
E Lindsay, S. n., Alokozai, A. n., Eppler, S. L., Fox, P. n., Curtin, C. n., Gardner, M. n., Avedian, R. n., Palanca, A. n., Abrams, G. D., Cheng, I. n., Kamal, R. N.
2019
- **Tissue-engineered 3D Models for Elucidating Primary and Metastatic Bone Cancer Progression.** *Acta biomaterialia*
González Díaz, E. C., Sinha, S. n., Avedian, R. S., Yang, F. n.
2019
- **Outcomes for pediatric patients with osteosarcoma treated with palliative radiotherapy.** *Pediatric blood & cancer*
Chen, E. L., Yoo, C. H., Gutkin, P. M., Merriott, D. J., Avedian, R. S., Steffner, R. J., Spunt, S. L., Pribnow, A. K., Million, L. n., Donaldson, S. S., Hiniker, S. M.
2019: e27967
- **Genome-Informed Targeted Therapy for Osteosarcoma** *CANCER DISCOVERY*
Sayles, L. C., Breese, M. R., Koehne, A. L., Leung, S. G., Lee, A. G., Liu, H., Spillinger, A., Shah, A. T., Tanasa, B., Straessler, K., Hazard, F. K., Spunt, S. L., Marina, et al
2019; 9 (1): 46–63
- **The Outcome of Patients With Localized Undifferentiated Pleomorphic Sarcoma of the Lower Extremity Treated at Stanford University.** *American journal of clinical oncology*
Kamat, N. V., Million, L., Yao, D., Donaldson, S. S., Mohler, D. G., van de Rijn, M., Avedian, R. S., Kapp, D. S., Ganjoo, K. N.
2018
- **Genome-Informed Targeted Therapy for Osteosarcoma.** *Cancer discovery*
Sayles, L. C., Breese, M. R., Koehne, A. L., Leung, S. G., Lee, A. G., Liu, H., Spillinger, A., Shah, A. T., Tanasa, B., Straessler, K., Hazard, F. K., Spunt, S. L., Marina, et al
2018
- **Treatment of Low-Flow Vascular Malformations of the Extremities Using MR-Guided High Intensity Focused Ultrasound: Preliminary Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Ghanouni, P., Kishore, S., Lungren, M. P., Bitton, R., Chan, L., Avedian, R., Bazzocchi, A., Pauly, K., Napoli, A., Hovsepian, D. M.
2017; 28 (12): 1739–44
- **Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study** *EUROPEAN RADIOLOGY*
Ghanouni, P., Dobrotwir, A., Bazzocchi, A., Bucknor, M., Bitton, R., Rosenberg, J., Telischak, K., Busacca, M., Ferrari, S., Albinini, U., Walters, S., Gold, G., Ganjoo, et al
2017; 27 (2): 732-740
- **Concurrent Imatinib and Radiation Therapy for Unresectable and Symptomatic Desmoid Tumors.** *Sarcoma*
Moding, E. J., Million, L., Avedian, R., Ghanouni, P., Kunder, C., Ganjoo, K. N.
2017; 2017: 2316839
- **Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study.** *European radiology*
Ghanouni, P., Dobrotwir, A., Bazzocchi, A., Bucknor, M., Bitton, R., Rosenberg, J., Telischak, K., Busacca, M., Ferrari, S., Albinini, U., Walters, S., Gold, G., Ganjoo, et al
2016: -?

- **The Effect of Applicant Publication Volume on the Orthopaedic Residency Match.** *Journal of surgical education*
Campbell, S. T., Gupta, R., Avedian, R. S.
2016; 73 (3): 490-495
- **Effect of Patellar Resurfacing on Distal Femoral Replacements: Commentary on an article by Mauricio Etchebehere, MD, PhD, et al.: "Patellar Resurfacing. Does It Affect Outcomes of Distal Femoral Replacement After Distal Femoral Resection?".** *Journal of bone and joint surgery. American volume*
Avedian, R. S.
2016; 98 (7)
- **Is MR-guided High-intensity Focused Ultrasound a Feasible Treatment Modality for Desmoid Tumors?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Avedian, R. S., Bitton, R., Gold, G., Butts-Pauly, K., Ghanouni, P.
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- **Sarcoma Resection With and Without Vascular Reconstruction: A Matched Case-control Study** *ANNALS OF SURGERY*
Poultides, G. A., Tran, T. B., Zambrano, E., Janson, L., Mohler, D. G., Mell, M. W., Avedian, R. S., Visser, B. C., Lee, J. T., Ganjoo, K., Harris, E. J., Norton, J. A.
2015; 262 (4): 632-640
- **Sarcoma Resection With and Without Vascular Reconstruction: A Matched Case-control Study.** *Annals of surgery*
Poultides, G. A., Tran, T. B., Zambrano, E., Janson, L., Mohler, D. G., Mell, M. W., Avedian, R. S., Visser, B. C., Lee, J. T., Ganjoo, K., Harris, E. J., Norton, J. A.
2015; 262 (4): 632-40
- **Prophylactic antibiotic regimens in tumour surgery (PARITY) A PILOT MULTICENTRE RANDOMISED CONTROLLED TRIAL** *BONE & JOINT RESEARCH*
Chert, M., Bhandari, M., Deheshi, B., Guyatt, G., Holt, G., O'Shea, T., Randall, R. L., Thabane, L., Wunder, J., Evaniew, N., McKay, P., Schneider, P., Turcotte, et al
2015; 4 (9): 154-162
- **What Is the Use of Imaging Before Referral to an Orthopaedic Oncologist? A Prospective, Multicenter Investigation** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Miller, B. J., Avedian, R. S., Rajani, R., Leddy, L., White, J. R., Cummings, J., Balach, T., Macdonald, K.
2015; 473 (3): 868-874
- **Antirotation Pins Improve Stability of the Compress Limb Salvage Implant: A Biomechanical Study** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Avedian, R. S., Chen, T., Lindsey, D., Palanca, A., Mohler, D.
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- **Antirotation pins improve stability of the compress limb salvage implant: a biomechanical study.** *Clinical orthopaedics and related research*
Avedian, R. S., Chen, T., Lindsey, D., Palanca, A., Mohler, D.
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- **Principles of musculoskeletal biopsy.** *Cancer treatment and research*
Avedian, R. S.
2014; 162: 1-7
- **Successful Limb Salvage of a "Too-Short Segment" of the Proximal Part of the Femur with Use of a Compression Osseointegration Implant: A Case Report.** *JBJS case connector*
Avedian, R. S., Giori, N. J., Mohler, D. n.
2014; 4 (3): e63–e6
- **Changes in health status among aging survivors of pediatric upper and lower extremity sarcoma: a report from the childhood cancer survivor study.** *Archives of physical medicine and rehabilitation*
Marina, N., Hudson, M. M., Jones, K. E., Mulrooney, D. A., Avedian, R., Donaldson, S. S., Popat, R., West, D. W., Fisher, P., Leisenring, W., Stovall, M., Robison, L. L., Ness, et al
2013; 94 (6): 1062-1073
- **Successful Surgical and Medical Treatment of Rhizopus Osteomyelitis Following Hematopoietic Cell Transplantation** *ORTHOPEDICS*

Vashi, N., Avedian, R., Brown, J., Arai, S.
2012; 35 (10): E1556-E1561

- **Surgical Technique: Methods for Removing a Compress (R) Compliant Prestress Implant** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Abrams, G. D., Gajendran, V. K., Mohler, D. G., Avedian, R. S.
2012; 470 (4): 1204-1212
- **Surgical Intervention of Nonvertebral Osseous Metastasis** *CANCER CONTROL*
Attar, S., Steffner, R. J., Avedian, R., Hussain, W. M.
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- **COMPARISON OF HEALTH STATUS BETWEEN UPPER AND LOWER EXTREMITY SARCOMA SURVIVORS: A REPORT FROM THE CHILDHOOD CANCER SURVIVOR STUDY**
Marina, N., Hudson, M., Mulrooney, D. A., Avedian, R., Donaldson, S., Fisher, P., Leisenring, W., Stovall, M., Robison, L. L., Ness, K.
WILEY PERIODICALS, INC.2011: 714
- **Magnetic resonance guided high-intensity focused ultrasound ablation of musculoskeletal tumors.** *Current orthopaedic practice*
Avedian, R. S., Gold, G., Ghanouni, P., Pauly, K. B.
2011; 22 (4): 303-308
- **Magnetic resonance guided high-intensity focused ultrasound ablation of musculoskeletal tumors** *CURRENT ORTHOPAEDIC PRACTICE*
Avedian, R. S., Gold, G., Ghanouni, P., Pauly, K.
2011; 22 (4): 303-8
- **Curettage and Cryosurgery for Low-grade Cartilage Tumors Is Associated with Low Recurrence and High Function** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Mohler, D. G., Chiu, R., McCall, D. A., Avedian, R. S.
2010; 468 (10): 2765-2773
- **Multiplanar Osteotomy with Limited Wide Margins: A Tissue Preserving Surgical Technique for High-grade Bone Sarcomas** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Avedian, R. S., Haydon, R. C., Peabody, T. D.
2010; 468 (10): 2754-2764