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Education

1988 – University of California, Irvine, B.S., Biological Sciences
1995 – UCLA School of Medicine, M.D.

Postgraduate Training

1995-1996 - Intern, Department of Surgery, Case Western Reserve University
1996-1997 - Allen Fellow, Department of Orthopaedics, Case Western Reserve University
1997- 2001 - Resident, Department of Orthopaedics, Case Western Reserve University
2001- 2003 - Fellow (Orthopaedic Oncology), Department of Surgery, Memorial Sloan-Kettering Cancer Center

Research and Professional Experience

1992-1994 - Howard Hughes Medical Institute - NIH Research Scholar (laboratory of Frank Luyten) Bone Research Branch, National Institutes of Health, Bethesda, MD
1996-1997 - Allen Fellow (under R. Tracy Ballock), Dept of Orthopaedics, Case Western Reserve University, Cleveland, OH
2002-2003 - Fellow (under John H. Healey and Richard Gorlick), Dept of Surgery and Pediatric Sarcoma Laboratory, Memorial Sloan-Kettering Cancer Center, New York, NY
2003 - Assistant Professor (tenure-track), Dept of Orthopaedic Surgery, University of California, Irvine
2003 - Member, Chao Family Comprehensive Cancer Center, University of California, Irvine
2005 - Member, Growth Factor Signaling Program, Chao Family Comprehensive Cancer Center
2006 - Chief, Musculoskeletal Oncology Research Laboratory, University of California, Irvine
2007 - Director, UC Irvine Healthcare Multidisciplinary Sarcoma Center
2009 - Associate Professor (tenured), Dept of Orthopaedic Surgery, University of California, Irvine

Honor and Award

1988 - Cum laude, University of California, Irvine
1992 - Howard Hughes Medical Institute- National Institutes of Health Research Scholar
1994 - Howard Hughes Medical Institute Continuing Medical Education Award
1996 - Cleveland Orthopaedic Society Resident Research Competition - Second Prize
2003 - Chairman Research Award, Dept of Surgery, Memorial Sloan-Kettering Cancer Center
2004 - New Investigator Recognition Award, Orthopaedic Research Society, Association of Bone and Joint Surgeons
2004 - AFLAC Young Investigator Award, Children's Oncology Group
2006 - Basic Science Faculty Teaching Award, Dept of Orthopaedic Surgery, UC Irvine
2006 - Clinical Scientist Career Development Award, National Cancer Institute
2007 - Dean's Junior Physician-Scientist Award, UC Irvine School of Medicine
2007 - North American Traveling Fellow, American Orthopaedic Association
2008 - Basic Science Faculty Teaching Award, Dept of Orthopaedic Surgery, UC Irvine
2008 - Allen Fellow Distinguished Visiting Professor, Case Western Reserve University
2009 - Inductee, American Orthopaedic Association
2011 - Kevin Armstrong Clinical Faculty Teaching Award, Dept of Orthopaedic Surgery, UC Irvine
2011 - Career Development Award, Orthopaedic Research and Education Foundation
2011 - Kappa Delta Ann Doner Vaughn Award, Orthopaedic Research Society and American Academy of Orthopaedic Surgeons

Certification and Licensure

1997 - Diplomat, National Board of Medical Examiners
2003 - Medical license, State of California
2006 - Diplomat, American Board of Orthopaedic Surgery (board certified)
2007 - Fellow, American Academy of Orthopaedic Surgeons

Membership

American Orthopaedic Association
American Academy of Orthopaedic Surgeons
American Association for Cancer Research
Orthopaedic Research Society
Musculoskeletal Tumor Society
Connective Tissue Oncology Society
Southwest Oncology Group
Children's Oncology Group
California Orthopaedic Association
Western Orthopaedic Association

Professional Activity and Committee

2007 - *Guest Editor*, Clinical Orthopaedics and Related Research (Symposium on Molecular Genetics in Sarcoma).
2007 - *Grant reviewer*
 Orthopedic Research and Education Foundation, Basic Science Committee
 Liddy Shriver Sarcoma Initiative.
 Musculoskeletal Transplant Foundation/OREF
2008 - Basic Science Evaluation Subcommittee, American Academy of Orthopaedic Surgeons.

2009 - Technology Overview Task Force: Bone Void Fillers, American Academy of Orthopaedic Surgeons.

2009 - Member, Editorial Board, UC Irvine Healthcare Publication.

2009 - Reviewer, Orthopaedic Knowledge Update 10, American Academy of Orthopaedic Surgeons.

2010 - Member, Cancer Campaign Steering Committee, Chao Family Comprehensive Cancer Center

2011 - Member, Donor Stewardship Committee, Cancer Campaign, Chao Family Comprehensive Cancer Center.

2011 - Member, Ablation Oncology Center Executive Committee, University of California, Irvine.

2010 - 2011 - Reviewer, Orthopaedic Research Society Annual Meeting Abstracts.

2012 - Member, Research Committee, Musculoskeletal Tumor Society.

Reviewer, *BMC Musculoskeletal Disorder*

Reviewer, *Cancer Research*

Reviewer, *Cancer Letters*

Reviewer, *Clinical Cancer Research*

Reviewer, *Current Cancer Drug Targets*

Reviewer, *Gene Therapy*

Reviewer, *Histology and Histopathology*

Reviewer, *Journal of Orthopaedic Research*

Reviewer, *Journal of Bone and Joint Surgery*

Reviewer, *Oncogene*

Patent

1. U.S. Patent 6,884,871: Method of modulating tissue growth using Frzb protein. (Luyten FP, Moos M, **Hoang B**, Wang S).

2. U.S. Patent 6,924,367: Isolation and method of using tissue growth-inducing Frzb protein. (Luyten FP, Moos M, **Hoang B**, Wang S).

Manuscripts

1. Chang, SC, **Hoang, B**, Thomas, JT., Vukicevic, S, Luyten, FP, Ryba, NJ, Kozak, CA, Reddi, AH, Moos, M Jr. Cartilage-derived morphogenetic proteins. New members of the transforming growth factor-beta superfamily predominantly expressed in long bones during human embryonic development. *J. Biol. Chem.* 262, 28227-34 (1994).

2. **Hoang, B**, Moos, M Jr., Vukicevic, S, Luyten, FP. Primary Structure and Tissue Distribution of FRZB, a Novel Protein Related to Drosophila Frizzled Suggest a Role in Skeletal Morphogenesis. *J. Biol. Chem.* 271: 26131-37 (1996).

3. **Hoang, BH**, Thomas, JT, Abdul-Karim, FW, Correia, KM, Conlon, RA, Luyten, F.P, Ballock, RT. Expression Pattern of Two *Frizzled*-Related Genes, *Frzb-1* and *Sfrp-1*, During Mouse Embryogenesis Suggests a Role for Modulating Action of Wnt Family Members. *Dev. Dyn.* 212: 364-372 (1998).

4. Kennedy, JG, Donahue, JP, **Hoang, BH**, Boland, PJ. Vesicant characteristics of oxapliatin following antecubital extravasation. *Clin Oncol.* 15:237-239 (2003).

5. Kennedy, JG, Donahue, JR, **Hoang, BH**, Aydin, H, Huvos, A, Morris, C. Metastatic breast carcinoma to bone disguised by osteopoikiliosis. *Skel. Radiol.* 32:240-243 (2003).

6. Kennedy JG, Frelinghuysen P, **Hoang BH**. Ewing sarcoma: current concepts in diagnosis and treatment. *Curr Opin Pediatr*. 15:53-7 (2003).
7. **Hoang, BH**, Kubo, T, Healey, JH, Sowers, R, Mazza, B, Yang, R, Huvos, AG, Meyers, PA, Gorlick, R. Expression of *LDL Receptor-Related Protein 5 (LRP5)* as a Novel Marker for Disease Progression in High-Grade Osteosarcoma. *Int J Cancer*. 109:106-11 (2004).
8. **Hoang, BH**, Kubo, T, Healey, JH, Yang, R, Nathan, SS, Mazza, B, Meyers, PA, Gorlick, R. Dkk-3 Inhibits Invasion and Motility of Saos-2 Osteosarcoma Cells by Modulating the Wnt-Beta-Catenin Pathway. *Cancer Res*. 64:2734-9 (2004).
9. **Hoang, BH**, Dyke, JP, Koutcher, JA, Mizobuchi, H, Huvos, AG, Mazza, B, Meyers, PA, Gorlick, R, Healey, JH. VEGF Expression in Osteosarcoma Correlates with Vascular Permeability by Dynamic MRI. *Clin Orthop Relat Res*. 426:32-8 (2004).
10. Laverdiere, C, **Hoang, BH**, Yang, R, Sowers, R, Qin J, Meyers, PA, Huvos, AG, Healey, JH, Gorlick, R. Messenger RNA Expression Levels of CXCR4 Correlates with Metastatic Behavior and Outcome in Patients with Osteosarcoma. *Clin Cancer Res*. 11:2561-7 (2005).
11. Nathan, SS, DiResta, GR, Casas-Ganem, EJ, **Hoang, BH**, Sowers, R, Yang, R, Huvos, AG, Gorlick, R, Healey, JH. Elevated Physiological Tumor Pressure Promotes Proliferation and Chemosensitivity in Human Osteosarcoma. *Clin Cancer Res*. 11:2389-97 (2005).
12. Nathan SS, Healey JH, Mellano D, **Hoang B**, Lewis I, Morris CD, Athanasian EA, Boland PJ. Survival in Patients Operated on for Pathologic Fracture: Implications for End-of-Life Orthopedic Care. *J Clin Oncol*. 23:6072-82 (2005).
13. Zi, X, Guo, Y, Simoneau, AR, Hope, C, Holcombe, RF, **Hoang, BH**. Expression of a secreted Wnt antagonist, Frzb/sFRP-3, in human androgen-independent prostate cancer PC-3 cells suppresses tumor growth and cellular invasiveness. *Cancer Res*. 65:9762-70 (2005).
14. Hammond, G, Gu, M, Tehranzadeh, J, **Hoang, BH**. Periprosthetic soft tissue recurrence of chondroblastoma after attempted en-bloc excision from the proximal humerus. *Skel Radiol*. 35:53-7 (2006).
15. Kuphal, S, Lodermeier, S, Bataille, F, Schuierer, M, **Hoang, BH**, Bosserhoff, AK. Expression of Dickkopf genes is strongly reduced in malignant melanoma. *Oncogene*. 25:5027-36 (2006).
16. Shibuya TY, Wadhwa A, Nguyen K, Panossian A, Kim S, Wong H, Feinberg S, Damisah EC, Camilon RP, **Hoang B**. Linking of bone morphogenetic protein-2 to resorbable fracture plates for enhancing bone healing. *The Laryngoscope*. 115:2232-7 (2006).
17. Haydon JB, **Hoang, BH**. Osteosarcoma: Basic Science and Clinical Implications. *Orthop Clin North Am*. 37:1-7 (2006).
18. Yang R, Kolb EA, Qin J, Chou A, Sowers R, **Hoang B**, Healey JH, Huvos AG, Meyers PA, Gorlick R. The folate receptor alpha is frequently overexpressed in osteosarcoma samples and plays a role in the uptake of the physiologic substrate 5-methyltetrahydrofolate. *Clin Cancer Res*. 13:2557-67 (2007).

19. Keyak JH, Kaneko TS, Skinner HB, **Hoang BH**. The Effect of Simulated Metastatic Lesions on Proximal Femoral Strength. *Clin Orthop Relat Res.* 459:139-45 (2007).
20. Guo Y, Zi X, Koontz Z, Kim A, Xie J, Gorlick R, Holcombe RF, **Hoang BH**. Blocking Wnt/LRP5 signaling by a soluble receptor modulates the epithelial to mesenchymal transition and suppresses Met and metalloproteinases in osteosarcoma Saos-2 cells. *J Orthop Res.* 25:964-71(2007).
21. Yang R, **Hoang BH**, Kubo T, Kawano H, Chou A, Sowers R, Huvos AG, Meyers PA, Healey JH, Gorlick R. Overexpression of parathyroid hormone type-1 receptor confers an aggressive phenotype in osteosarcoma. *Int J Cancer.* 121:943-54 (2007).
22. Guo Y, Xie J, Rubin E, Tang YX, Lin F, Zi X, **Hoang BH**. Frzb, a secreted Wnt antagonist, decreases growth and invasiveness of fibrosarcoma cells associated with inhibition of Met signaling. *Cancer Res.* 68:3350-60 (2008).
23. Yang R, Li WW, **Hoang BH**, Kim H, Banerjee D, Kheradpour A, Healey JH, Meyers PA, Bertino JR, Gorlick R. Quantitative correlation between promoter methylation and messenger RNA levels of the reduced folate carrier. *BMC Cancer.* 8:124 (2008).
24. Yang R, Qin J, **Hoang BH**, Healey JH, Gorlick R. Polymorphisms and Methylation of the Reduced Folate Carrier in Osteosarcoma. *Clin Orthop Relat Res.* 466:2046-2051 (2008).
25. Guo Y, Rubin E, Xie J, Zi X, **Hoang BH**. Dominant Negative LRP5 Decreases Tumorigenicity and Metastasis of Osteosarcoma. *Clin Orthop Relat Res.* 466:2039-2045 (2008).
26. Wolf JM, Athwal GS, **Hoang B**, Mehta S, Owens BD. Report from the 2007 AOA North American Traveling Fellowship. *J Bone Joint Surg Am.* 90:1160-4 (2008).
27. Healey JH, **Hoang, BH**. Cancer Biology - Lessons Learned From Sarcoma. *Clin Orthop Relat Res.* 466:2029-30 (2008).
28. Tang Y, Simoneau AR, Liao WX, Yi G, Hope C, Liu F, Li S, Xie J, Holcombe RF, Jurnak FA, Mercola D, **Hoang BH**, Zi X. WIF1, a Wnt pathway inhibitor, regulates SKP2 and c-myc expression leading to G1 arrest and growth inhibition of human invasive urinary bladder cancer cells. *Mol Cancer Ther.* 8:458-68 (2009).
29. Wolf JM, Athwal G, **Hoang BH**, Mehta S, Williams A, Owens BD. Knowledge of Levels of Evidence Criteria in Orthopaedic Residents. *Orthopaedics* 32:494 (2009).
30. Abdeen A, **Hoang BH**, Athanasian EA, Morris CD, Boland PJ, Healey JH. Allograft-Prosthesis Reconstruction of the Proximal Part of the Humerus. *J Bone Joint Surg Am* 91:2406-15 (2009).
31. Lee J, **Hoang BH**, Ziogas A, Zell J. Analysis of Prognostic Factors in Ewing Sarcoma Using a Population-Based Cancer Registry. *Cancer* 116:1964-73 (2010).
32. Rubin EM, Guo Y, Tu K, Xie J, Zi X, **Hoang BH**. Wnt Inhibitory Factor 1 (WIF-1) decreases tumorigenesis and metastasis in osteosarcoma. *Mol Cancer Ther.* 9:731-41 (2010).
33. Yee SD, Tang Y, Li X, Liu Z, Guo Y, Ghaffar S, McQueen P, Atreya D, Xie J, Simoneau AR, **Hoang BH**, and Zi X. The Wnt inhibitory factor 1 restoration in prostate cancer cells was associated

with reduced tumor growth, decreased capacity of cell migration and invasion and a reversal of epithelial to mesenchymal transition. *Mol Cancer* 9:162 (2010).

34. Kirkpatrick JS, Cornell CN, **Hoang BH**, Hsu W, Watson JT, Watters WC 3rd, Turkelson CM, Wies JL, Anderson S. Bone void fillers. *J Am Acad Orthop Surg*. 18:576-9 (2010).

35. McQueen P, Ghaffar S, Guo Y, Rubin EM, Zi X, **Hoang BH**. The Wnt signaling pathway: Implications for therapy in osteosarcoma. *Expert Rev Anticancer Ther* 11: 1223-32 (2011).

36. **Hoang BH**. Wnt, osteosarcoma, and future therapy. *J Am Acad Orthop Surg*. 20:58-9 (2012).

37. Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry. Lee J, Bhatia N, **Hoang BH**, Ziogas A, Zell J. *J Bone Joint Surg Am* 4:356-63. (2012).

38. Flavokawain B, a Kava Chalcone, Induces Apoptosis in Synovial Sarcoma Cell Lines. Sakai T, Eskander RN, Guo Y, Kim KP, Mefford J, Hopkins J, Bhatia NN, Zi X, **Hoang BH**. *J Orthop Res*. In press.

39. Flavokawain B, A Novel Naturally Occuring Chalcone, Exhibits Robust Apoptotic Effects and Induces G2/M Arrest of a Uterine Leiomyosarcoma Cell Line. Eskander R, Randall L, Sakai T, Guo Y, **Hoang B**, Zi X. *J Obs Gyn Res*. In press.

Book chapter

1. Randall, RL and **Hoang, BH**. Musculoskeletal Oncology, in Skinner, HB (ed): Current Diagnosis and Treatment in Orthopaedics, 4th edition. New York, NY, McGraw-Hill (2006).

2. **Hoang, BH**. Investigational Therapies for Soft Tissue Sarcomas, Orthopaedic Knowledge Update, Musculoskeletal Tumors, American Academy of Orthopaedic Surgeons (2007).

3. Morris, CD, Cunningham ME, **Hoang BH**, Kirkpatrick JS, Lee FY, McKellop HA, Parvizi J, Rothrock CP, Sherman PJ. Orthopaedic Basic Science Self-Assessment Examination 2010. American Academy of Orthopaedic Surgeons (2010).

Abstracts

1. **Hoang, B. H.**, Chang, S. C., Moos, M. Jr., Luyten, F. P. Clone 22, A novel Gene cloned from bovine articular cartilage. 1993 Annual Meeting of the Howard Hughes Medical Institute Research Scholars Program, Bethesda, MD.

2. **Hoang, B. H.**, Moos, M. Jr., Vukicevich, S., Luyten, F. P. FRZB, a novel Frizzled-Related Gene involved in skeletal morphogenesis. 1994 Annual Meeting of the Howard Hughes Medical Institute Research Scholars Program, Bethesda, MD.

3. **Hoang, B. H.** Expression of FRZB, a Novel Gene in the Developing Rodent Limb. 1996 Cleveland Orthopaedic Society Annual Resident Research Competition, Cleveland, OH.

4. **Hoang, B. H.**, Thomas, J. T., Abdul-Karim, F. W., Correia, K. M., Conlon, R. A., Luyten, F. P., Ballock, R. T. Expression Pattern of Frzb-1 During Mouse Embryogenesis Suggests a Role for Modulating Action of Wnt Family Members. *Trans Ortho Res Soc*. 23:7 (1998).

5. **Hoang, B. H.**, Luyten, F. P., Ballock, R. T. Expression of FRZB, a *Frizzled*-Related Gene, in the Developing Rodent. *J Bone Min Res.* 12 (supp 1):312 (1997).
6. **Hoang, B. H.**, Carter, J. R., Ballock, R. T., Haber, L., Getty, P. J., Makley, J. T. Periosteal Chondroma Revisited. *Musculoskeletal Tumor Society Abstracts* (2000).
7. Patel, M., **Hoang, B. H.**, Getty, P. J. Treatment of Symptomatic Fibrous Dysplasia with Oral Alendronate. 2002 Annual Meeting of the Musculoskeletal Tumor Society, Toronto, Canada.
8. Mellano, D., **Hoang, B.H.**, Lewis, I., Agati, G., Boland, P.J., Healey, J.H. Factors affecting survival of surgically treated patients with bony metastases from carcinomas. *12th International Symposium on Limb Salvage*, Rio de Janeiro, Brazil, (2003).
9. **Hoang, B. H.**, Kennedy, J.G., Athanasian, E., Boland, P.J., Morris, C., Healey, J.H. Allograft-prosthetic composites for reconstruction of the proximal humerus. *12th International Symposium on Limb Salvage*, Rio de Janeiro, Brazil, (2003).
10. **Hoang, B. H.**, Kubo, T., Healey, J. H., Sowers, R., Mazza, B., Yang, R., Huvos, A. G., Meyers, P. A., Gorlick, R. Expression and potential role of low-density lipoprotein receptor-related protein 5 (LRP5) and Wnt signaling components in osteosarcoma. *Proc Amer Assoc for Cancer Res.* 44:921 (2003).
11. **Hoang, B. H.**, Kennedy, J. G., Athanasian, E. Boland, P. J., Morris, C., Healey, J. H. Allograft-prosthetic composites for reconstruction of the proximal humerus. *Annual Meeting of the Association of Bone and Joint Surgeons*, Paris, France (2003).
12. **Hoang, B. H.**, Dyke, J. P., Koutcher, J., Huvos, A. G., Mazza, B., Meyers, P. A., Gorlick, R., Healey, J. H. VEGF Expression in Osteosarcoma Correlates with Vascular Permeability by Dynamic MRI. *Musculoskeletal Tumor Society Abstracts* (2003).
13. **Hoang, B. H.**, Sowers, R., Mazza, B., Huvos, A. G., Yang, R., Meyers, P. A., Gorlick, R., Healey, J. H. Expression of *LRP5* as a novel marker for disease progression in high-grade osteosarcoma. *Musculoskeletal Tumor Society Abstracts* (2003).
14. **Hoang, B. H.**, Kubo, T., Healey, J. H., Sowers, R., Mazza, B., Yang, R., Huvos, A. G., Meyers, P. A., Gorlick, R. Wnt signaling in human osteosarcoma: Novel therapeutic targets? *2003 Annual Doris Duke Symposium*, Memorial Sloan-Kettering Cancer Center, New York, NY.
15. **Hoang, B. H.**, Kubo, T., Sowers, R., Yang, R., Nathan, S. S., Kolb, E. A., Mazza, B., Huvos, A. G., Meyers, P. A., Gorlick, R., Healey, J. H. Wnt Signaling in Osteosarcoma: Potential Novel Targets for Prevention of Tumor Metastasis. *Trans Ortho Res Soc.* 29 (2004).
16. Nathan, S. S., Diresta, G., Gorlick, R., **Hoang, B. H.**, Yang, R., Sowers, R., Mazza, B., Healey, J. H. Elevated fluid pressure in osteosarcoma enhances proliferation and chemosensitivity. *Proc Amer Assoc for Cancer Res.* 45: (2004).
17. Yang, R., Sowers, R., Laverdiere, C., **Hoang, B.**, Healey, J., Huvos, A., Meyers, P., Gorlick, R. Over-expression of Parathyroid Hormone/ Related Peptide Receptor I Correlates with Relapse/Metastases in Osteosarcoma Samples. *Proc Amer Assoc for Cancer Res.* 45: (2004).

18. Laverdiere C, **Hoang BH**, Yang R, Sowers R, Qin J, Meyers PA, Huvos AG, Healey JH, Gorlick R. CXCR4 expression in osteosarcoma correlates with metastatic behavior and outcome in patients. *Proc Amer Assoc for Cancer Res.* 45:407 (2004).
19. Nathan SS, Diresta GR, Casas-Ganem J, **Hoang B**, Mazza B, Sowers R, Yang R, Gorlick R, Healey JH. Elevated fluid pressure in osteosarcoma enhances proliferation and chemosensitivity. *Proc Amer Assoc for Cancer Res.*45:1140 (2004).
20. **Hoang, B. H.**, Kubo, T., Healey, J. H., Yang, R., Nathan, S. S., Kolb, E. A., Mazza, B., Meyers, P. A., Gorlick, R. Inhibition of Wnt signaling blocks cellular invasion and motility of Saos-2 osteosarcoma cells. *Proc Amer Assoc for Cancer Res.* 45: (2004).
21. Dyke, J. P., **Hoang, B. H.**, Koutcher, J. A., Huvos, A. G., Mizobuchi, H., Mazza, B., Meyer, P. A., Gorlick, R., Healey, J. H. VEGF Expression in Osteosarcoma Correlates with Vascular Permeability by Dynamic MRI. *Int Soc Magn Res Med Abstract* (2004).
22. Altaf, F. M., **Hoang, B.**, Yoo, J. U., Johnstone, B. Dkk1 in chondrogenic differentiation. *Trans Ortho Res Soc.* 30: 1112 (2005).
23. Zi, X., Guo, Y., Simoneau, A., **Hoang, B. H.** Frzb decreases invasiveness of bone metastatic prostate cancer PC-3 cells by up-regulation of E-cadherin and down-regulation of MMP-9 via degradation of beta-catenin. *Trans Ortho Res Soc.* 30: 1986 (2005).
24. Nathan S. S., DiResta, G. R., **Hoang, B.**, Casas-Ganem, J., Manoso, M. W., Mazza, B. A., Sowers, R., Yang, R., Gorlick, R., Healey, J. H. Simulated osteosarcoma fluid pressures replicate chemotherapy-induced necrosis – Novel insights into systems biology. *Trans Ortho Res Soc.* 30: 433 (2005).
25. Guo Y., Zi X., Koontz Z., Kim, A., Holcombe, R. F., Gorlick, R., **Hoang, B. H.** Mechanisms of LRP5-mediated invasion in Saos-2 osteosarcoma cells. *Proc Amer Assoc for Cancer Res.* 46: 378 (2005).
26. Zi, X., Simoneau, A., Guo, Y., **Hoang, B. H.** WIF-1 up-regulates expression of E-cadherin and down-regulates activities and expression of MMP-2 and 9, leading to inhibition of *in vitro* invasiveness and tumor growth of androgen-independent PC-3 cells. *Proc Amer Assoc for Cancer Res.* 46: 93 (2005).
27. Guo, Y., Zi, X., Koontz, Z., Kim, A., Xie, J., Tap, W., Eilber, F.C., **Hoang, B. H.** Targeting soft tissue sarcomas by a soluble LRP5 dominant-negative receptor. *Connective Tissue Oncology Society Abstracts* (2005).
28. Guo, Y., Zi, X., Xie, J., Sworder, B., **Hoang, B. H.** Soluble Wnt antagonists decreases proliferation, invasion, and tumorigenesis in soft tissue sarcoma. *Trans Ortho Res Soc.* 31 (2006).
29. Yang, R., **Hoang, B.**, Sowers, R., Healey, J., Huvos, A., Meyers, P., Gorlick, R. Over-expression of parathyroid hormone type 1 receptor correlated with relapse and metastases in osteosarcoma. *Proc Amer Assoc for Cancer Res.* 47: 301 (2006).
30. Tang, Y., Simoneau, A. R., Guo, Y., Xie, J., **Hoang, B. H.**, Zi, X. Overexpression of WIF-1 in human urinary bladder cancer cells induces G1 arrest and chemosensitivity, via inhibition of AKT

activation and SKP-2 expression, and a resultant increase in p27/KIP1 expression. *Proc Amer Assoc for Cancer Res.* 47: 183 (2006).

31. Guo, Y., Zi, X., Xie, J., Sworder, B., **Hoang, B. H.** The role of secreted Wnt inhibitors in soft tissue sarcomas. *Proc Amer Assoc for Cancer Res.* 47: 183 (2006).

32. Keyak J. H., Kaneko T. S., Skinner H. B., **Hoang B. H.** The effect of simulated metastatic lytic lesions on proximal femoral strength. *Musculoskeletal Tumor Society Abstracts* (2006).

33. Guo, Y., Zi, X., Sworder, B., Xie, J., Tap, W., Eilber, F.C., **Hoang, B. H.** Overexpression of Frzb, a secreted Wnt antagonist, decreases invasion, motility, and tumorigenesis of soft tissue sarcomas. *Connective Tissue Oncology Society Abstracts* (2006).

34. Guo Y, Zi X, Sworder B, Hockert P, Xie J, Kirov I, Hoang, BH. A Soluble Wnt Receptor Shows Anti-tumor Activity in Osteosarcoma. *Connective Tissue Oncology Society Abstracts* (2006).

35. Kaneko T.S., Skinner H.B., **Hoang B.H.**, Keyak J.H: The Effect of Simulated Metastatic Lytic Lesions on Proximal Femoral Strength. Chao Family Comprehensive Cancer Center Conference (2006).

36. Marcus P., Sehgal V., Al-Ghazi M., **Hoang B.**, Bhatia N., Skinner H., Ramsinghani N., Mandelkern M., Keyak J. Novel kyphoplasty/brachytherapy technique for the treatment of vertebral metastases: A mathematical modeling feasibility study. Chao Family Comprehensive Cancer Center Conference (2006).

37. Guo, Y., Zi, X., Sworder, B., Che, F., George, S., Xie, J., **Hoang, B. H.** A Soluble Wnt Inhibitor Exerts Anti-Tumor Effects in Soft Tissue Sarcomas by Modulating the Met Pathway. *Trans Ortho Res Soc.* 31 (2007).

38. Kaneko TS, **Hoang BH**, Skinner HB, Keyak JH: Finite element model evaluation of simulated metastatic lesions at the level of the lesser trochanter. *Trans Orthop Res Soc* 32:1767 (2007).

39. Guo, Y., Zi, X., Sworder, B., Xie, J., Hoang, **B.H.** Overexpression of secreted Wnt antagonists decreases invasion and tumorigenesis of soft tissue sarcomas. *Proc Amer Assoc for Cancer Res.* 48: 2041 (2007).

40. Lee, J.A., Hoang, **B.H.**, Chou, A.J., Meyers, P.A., Healey, J.H., Gorlick, R.G. Expression of vascular endothelial growth factor correlates with chemotherapy response in osteosarcoma patients. *Proc Amer Assoc for Cancer Res.* 48: 3489 (2007).

41. Tang, Y., Simoneau, A.R., Guo, Y., Liao, W., Hope, C., Xie, J., Holcombe, R.F., Jurnak, F.A., **Hoang, B.H.**, Zi, X. Recombinant WIF-1 domain protein up-regulates p27/KIP1 and p21/WAF-1 and inhibits cell proliferation of bladder cancer cells via G1 arrest. *Proc Amer Assoc for Cancer Res.* 48: 4377 (2007).

42. Marcus P, Sehgal V, Al-Ghazi M, Ramsinghani N, **Hoang B**, Bhatia N, Skinner H, Keyak J. (2007). Novel kyphoplasty/brachytherapy technique for the treatment of vertebral metastases: A Monte Carlo feasibility study. *Med Physics* 34:2475-2475 (2007).

43. Rubin, E., Guo, Y., Xie, J., Zi, X., **Hoang, B.H.** Wnt inhibitory factor-1 (WIF-1) decreases tumorigenesis and metastasis in osteosarcoma. *Musculoskeletal Tumor Society Abstract* (2007).

44. Keyak JH, Marcus PG, Al-Ghazi MS, Bhatia NN, **Hoang BH**, Skinner HB, Ramsinghani NS, Mandelkern MA, and Sehgal V: Feasibility of a Combined Kyphoplasty and Brachytherapy Procedure for Vertebrae with Metastases. *Musculoskeletal Tumor Society Abstract* (2007).
45. Tang Y, Simoneau AR, Guo Y, Liao W, Hope C, Xie J, Holcombe RF, Jurnak FA, **Hoang BH**, Zi X. Recombinant WIF-1 domain protein up-regulates p27/KIP1 and p21/WAF-1 and inhibits cell proliferation of bladder cancer cells via G1 arrest *Proc Am Assoc Cancer Res.* 48, (2007).
46. FRZB Inhibits Invasion and Tumorigenesis of Soft Tissue Sarcomas. Guo Y, Zi X, Rubin E, Xie J, **Hoang BH**. *Wnt Meeting Abstract.* La Jolla, CA (2007).
47. Tang Y, Simoneau AR, Guo Y, Liao WX, Hope C, Liu F, Li S, Xie J, Holcombe RF, Mercola D, Jurnak FA, **Hoang BH**, and Zi X. WIF-1 inhibits the in vitro and in vivo growth of human invasive urinary bladder cancer cells associated with induction of G1 arrest. *Wnt Meeting Abstract.* La Jolla, CA (2007).
48. Keyak J, Kaneko T, Sehgal V, Skinner H, Al-Ghazi M, **Hoang B**, Ramsinghani N. Feasibility of Using Radioactive Bone Cement to Treat Vertebral Metastases. *Society for Minimally Invasive Spine Surgery Abstract.* Henderson, NV (2008).
49. Lee J, Zell J, **Hoang BH**. Analysis of Prognostic Factors in Ewing Sarcoma Using a Population-Based Cancer Registry. *Musculoskeletal Tumor Society Abstract* (2008).
50. Guo Y, Zi X, **Hoang BH**. Blocking the Metastasis-Associated Gene S100A4 Reduces Metastatic Potential of Osteosarcoma. *Musculoskeletal Tumor Society Abstract* (2008).
51. Keyak J, Kaneko T, Sehgal V, Skinner H, Al-Ghazi M, **Hoang B**, Ramsinghani N. Feasibility of Using Radioactive Bone Cement to Treat Vertebral Metastases. *Trans Ortho Res Soc.* Las Vegas, NV (2009).
52. Tang Y, Simoneau AR, Yi G, Xie J, **Hoang BH**, Zi X: Ectopic expression of Wnt inhibitory factor-1 (WIF1) in prostate cancer PC-3 cell line decreases cellular invasiveness and tumor growth associated with both in vitro and in vivo increased expression of E-cadherin and decreased expression of Vimentin. *Am Urol Assoc Abstract.* Chicago, IL (2009).
53. Wolf JM, Athwal G, **Hoang B**, Mehta S, Williams A, Owens BD. Knowledge of Levels of Evidence Criteria in Orthopaedic Residents. *Am Acad Orthop Surg Abstract.* Las Vegas, NV (2009).
54. Guo Y, Che F, Xie J, Zi X, **Hoang BH**. Blocking the Metastasis-Associated Gene S100A4 Reduces Metastatic Potential of Osteosarcoma. *Trans Orthop Res Soc.* Las Vegas, NV (2009).
55. Guo Y, Xie J, Zi X, **Hoang BH**. Wnt signaling regulates S100A4 to mediate metastasis of osteosarcoma. *Proc Am Assoc Cancer Res.* 50, (2009).
56. Wolf JM, Athwal G, **Hoang B**, Mehta S, Williams A, Owens BD. Knowledge of Levels of Evidence Criteria in Orthopaedic Residents. *American Orthopaedic Association Abstract.* Bonita Springs, FL (2009).

57. Nguyen T, Kuo JV, **Hoang BH**, Keyak JH. New Treatment Strategy for Vertebral Metastases: Combined Coblation, Vertebroplasty, and Intensity Modulated Radiation Therapy (IMRT). *World Conference on Interventional Oncology Abstract*. Beijing, China (2009).
58. Nguyen, ML, Lee J, Ziogas A, Zell J, **Hoang BH**. Analysis of Prognostic Factors in Epitheloid Sarcoma Using a Population-Based Cancer Registry. *Combined ISLOS/Musculoskeletal Tumor Society Meeting Abstract*. Boston, MA (2009).
59. Guo Y, Rubin E, Xie J, Zi X, **Hoang BH**. Dkk-3, a Secreted Wnt Antagonist, Suppresses Tumorigenic Potential and Lung Metastasis of Osteosarcoma. *Combined ISLOS/Musculoskeletal Tumor Society Meeting Abstract*. Boston, MA (2009).
60. Lee J, **Hoang BH**, Ziogas A, Zell JA. Analysis of Prognostic Factors in Ewing Sarcoma Using a Population-Based Cancer Registry. *Am Acad Orthop Surg Abstract*. New Orleans, LA (2010).
61. Lee J, Bhatia N, **Hoang BH**, Ziogas A, Zell JA. Analysis of prognostic factors in chordoma using the California Cancer Registry. *American College of Spine Surgery Annual Meeting*. Newport Beach, CA (2010).
62. Guo Y, Christ A, Czerwinski A, Ni R, Xie J, Zi X, **Hoang BH**. Frzb/sFRP3 inhibits lung metastasis of osteosarcoma. *Proc Am Assoc Cancer Res*. 51, (2010).
63. Ghaffar S, Guo Y, McQueen P, Christ A, Tu K, Xie J, Zi X, **Hoang BH**. Wnt-Signaling regulates angiogenesis by regulating Neuropilin-1 expression in osteosarcoma. *Proc Am Assoc Cancer Res*. 51, (2010).
64. Lee J, Bhatia N, **Hoang BH**, Ziogas A, Zell JA. Analysis of prognostic factors in chordoma using the California Cancer Registry. *North American Spine Society 25th Annual Meeting*. Orlando, FL (2010).
65. McQueen P, Guo Y, Ghaffar S, Rooney K, Christ A, Xie J, Zi X, **Hoang BH**. Opportunities to target osteosarcoma angiogenesis via Wnt, Neuropilin-2, and Notch. *Musculoskeletal Tumor Society Abstract* (2010).
66. Ghaffar S, Guo Y, McQueen P, Christ A, Rooney K, Xie J, Zi X, **Hoang BH**. Targeting the VEGF co-receptor Neuropilin-1 as a novel strategy against osteosarcoma: The role of Wnt signaling in promoting angiogenesis. *Musculoskeletal Tumor Society Abstract* (2010).
67. Lee J, **Hoang BH**, Bhatia N, Ziogas A, Zell J. Analysis of prognostic factors in chordoma using the California Cancer Registry. *Musculoskeletal Tumor Society Abstract* (2010).
68. Nguyen TH, **Hoang BH**, Kuo JV. Integrated Interventional Oncology and Implanted Fiducial Marker Image Guided Intensity Modulated Radiation Therapy for Spinal Metastases. *Cancer Imaging and Radiation Therapy Symposium Abstract* (2011).
69. Guo Y, Rubin E, Pourmorady J, Christ A, Rooney K, Ramez E, Sakai T, Zi X, **Hoang BH**. DKK-3, a secreted Wnt antagonist, suppresses tumorigenic potential and lung metastasis of osteosarcoma. *Proc Am Assoc Cancer Res*. 52, (2011).

70. Sakai T, Guo Y, Eskander R, Mefford J, Hopkins J, Bhatia N, Zi X, **Hoang BH**. Flavokawain B, a kava chalcone, induces apoptosis in synovial sarcoma cell lines. *Proc Am Assoc Cancer Res*. 52, (2011).
71. Eskander R, Sakai T, Zi X, **Hoang BH**, Randall L. Flavokawain B induces apoptosis in a uterine leiomyosarcoma cell line via down regulation of survivin and up-regulation of death-receptor 5. *Am Soc Clin Oncol Abstract* (2011).
72. Jandial DD, Blair C, Monk BJ, Bristow RE, **Hoang BH**, Zi X. Inhibition of the Wnt Pathway Leads to Decreased Anticancer Activity in Ovarian Cancer Cell lines. *Western Assoc Gyn Oncol Abstract* (2011).
73. Nguyen, ML, Lee J, Ziogas A, Zell J, **Hoang BH**. Analysis of Prognostic Factors in Epitheloid Sarcoma Using a Population-Based Cancer Registry. *Western Orthop Assoc Abstract*. Honolulu, HI (2011).
74. Eskander RN, Randall LM, Sakai T, Guo Y, **Hoang BH**, Zi X. Flavokawain B, a Novel Naturally Occurring Chalcone, Exhibits Robust Apoptotic Effects and Induces G2/M Arrest of a Uterine Leiomyosarcoma Cell Line. *Combined CTOS/Musculoskeletal Tumor Society Meeting Abstract*. Chicago, IL (2011).
75. Kim KJ, Guo Y, Sakai T, Eskander RN, McQueen P, Ghaffar S, Rooney K, Christ A, Zi X, **Hoang BH**. Targeting Neuropilin, a VEGF Receptor, to Control Angiogenesis and Tumor Growth in Osteosarcoma. *Combined CTOS/Musculoskeletal Tumor Society Meeting Abstract*. Chicago, IL (2011).
76. Sakai T, Kim KJ, Guo Y, Eskander RN, Hopkins J, Mefford J, Pourmorady J, Zi X, **Hoang BH**. A Novel Chemopreventive Strategy for Synovial Sarcoma Using Flavokawain B, a Natural Compound from Kava Extract. *Combined CTOS/Musculoskeletal Tumor Society Meeting Abstract*. Chicago, IL (2011).
77. Guo Y, Ghaffar S, Christ A, Rooney K, Eskander E, Sakai T, Zi X, **Hoang BH**. Targeting Angiogenesis in Osteosarcoma by Wnt Antagonist-Mediated Regulation of Neuropilin-1 (NRP-1). *Wnt Meeting Abstract*. Los Angeles, CA (2011).
78. Liu S, Jia Z, Sun Z, Li X, Yi G, Lilly M, Mercola D, **Hoang BH**, Zi X. Wnt signaling regulates neuropilin-2 (NRP2) expression and contributes to cancer cell invasiveness in castration-resistant prostate cancer (CRPC). *Wnt Meeting Abstract*. Los Angeles, CA (2011).
79. Nguyen, TH, Kuo, JV, **Hoang, BH**, Keyak, JH. Cavity Creation, Vertebroplasty, and IGRT-IMRT: A Combined Treatment Strategy for Vertebral Metastases. *American Society of Neuroradiology Abstract* (2012).

Invited Speaker (Regional)

1. Speaker, Western Orthopaedic Association – January 2004, Orange, CA. Title: The Management of Bone and Soft Tissue Sarcomas.
2. Speaker, Graduate Research Forum, UC Irvine Department of Orthopaedic Surgery – June 2005, Orange, CA. Title: Osteosarcoma, a paradigm to study tumor metastasis.

3. Speaker, American Orthopedic Association - North American Traveling Fellow Symposium, UC Irvine – October 2005, Orange, CA. Title: Mechanisms of metastasis in osteosarcoma: A model for mesenchymal cancers.
4. Grand round speaker, Children’s Hospital of Orange County – September 2006, Orange, CA. Title: Bone and soft tissue sarcomas: Is bench to bedside a reality?
5. Speaker, UC Irvine Symposium on Basic Cancer Research – May 2006, Irvine, CA. Title: When a Frisbee (Frzb) hits a Wingless fly: Wnt antagonists in cancer.
6. Speaker, Chao Family Comprehensive Cancer Center Conference – November 2007, Rancho Mirage, CA.
7. Grand round speaker, University of California, Irvine – August 2009, Orange, CA. Title: Sarcoma and Limb Salvage.

Invited Speaker and Professorship (National and International)

1. Grand Rounds Speaker, Department of Surgery, Memorial Sloan-Kettering Cancer Center – May 2003, New York, NY. Title: Wnt Signaling in Osteosarcoma Biology.
2. Speaker, Children’s Oncology Group Fall Meeting – November 2004, Atlanta, GA. Title: Wnt Signaling in the Biology of Osteosarcoma.
3. Speaker, Connective Tissue Oncology Society Annual Meeting – November 2005, Boca Raton, FL. Title: Targeting Soft Tissue Sarcomas by a Soluble LRP5 Dominant-Negative Receptor.
4. Speaker, National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH – June 2006, Bethesda, MD. Title: Emerging Targets for Controlling Bone and Soft Tissue Sarcomas.
5. Speaker, Children’s Oncology Group Fall Meeting - October 2006, Los Angeles, CA. Title: AFLAC Young Investigator Award – AYA Oncology in Osteosarcoma.
6. Speaker, Connective Tissue Oncology Society Annual Meeting – November 2006, Venice, Italy. Title: A Soluble Wnt Receptor Shows Anti-Tumor Activity in Osteosarcoma.
7. Speaker, Orthopaedic Research Society Annual Meeting – February 2007, San Diego, CA. Title: A Soluble Wnt Inhibitor Exerts Anti-Tumor Effects in Soft Tissue Sarcomas by Modulating the Met Pathway.
8. Speaker, Musculoskeletal Tumor Society Annual Meeting – May 2007, St. Louis, MO. Title: Wnt inhibitory factor-1 (WIF-1) decreases tumorigenesis and metastasis of osteosarcoma.
9. Visiting Professor, Carolinas Medical Center – October 2007, Charlotte, NC. Title: Emerging Targets in Bone and Soft Tissue Sarcomas (AOA North American Traveling Fellowship).
10. Visiting Professor, Johns Hopkins School of Medicine – October 2007, Baltimore, MD. Title: The Wnt Signaling Pathway: Contribution to Sarcoma Biology. (AOA North American Traveling Fellowship).
11. Visiting Professor, University of Maryland School of Medicine - October 2007, Baltimore, MD. Title: Emerging Targets in Bone and Soft Tissue Sarcomas. (AOA North American Traveling Fellowship).

12. Visiting Professor, Rothman Institute, Thomas Jefferson University – October 2007, Philadelphia, PA. Title: Emerging Targets in Bone and Soft Tissue Sarcomas. (AOA North American Traveling Fellowship).
13. Visiting Professor, Dalhousie University – October 2007, Halifax, Canada. Title: Emerging Targets in Bone and Soft Tissue Sarcomas. (AOA North American Traveling Fellowship).
14. Visiting Professor, McGill University – October 2007, Montreal, Canada. Title: Is Bench to Bedside a Reality in Sarcoma Therapy? (AOA North American Traveling Fellowship).
15. Visiting Professor, University of Montreal, Maisonneuve-Rosemont Hospital – October 2007, Montreal, Canada. Title: Emerging Targets in Bone and Soft Tissue Sarcomas. (AOA North American Traveling Fellowship).
16. Visiting Professor, University of Montreal, Sacre Coeur Hospital – October 2007, Montreal, Canada. Title: Osteosarcoma: A Paradigm for Studying Tumor Metastasis. (AOA North American Traveling Fellowship).
17. Visiting Professor, University of Montreal, Sacre-Coeur Hospital – October 2007, Montreal, Canada. Title: The Wnt Signaling Pathway: Contribution to Sarcoma Biology. (AOA North American Traveling Fellowship).
18. Visiting Professor, University of Rochester – October 2007, Rochester, NY. Title: Is Bench to Bedside a Reality in Sarcoma Therapy? (AOA North American Traveling Fellowship).
19. Visiting Professor, Dartmouth Medical School – October 2007, Lebanon, NH. Title: Emerging Targets in Bone and Soft Tissue Sarcomas. (AOA North American Traveling Fellowship).
20. Visiting Professor, Massachusetts General Hospital, Harvard Medical School – October 2007, Boston, MA (AOA North American Traveling Fellowship).
21. Visiting Professor, University of Florida, Jacksonville – October 2007, Jacksonville, FL. Title: Is Bench to Bedside a Reality in Sarcoma Therapy? (AOA North American Traveling Fellowship).
22. Visiting Professor, Emory University – November 2007, Atlanta, GA. Title: Emerging Targets in Bone and Soft Tissue Sarcomas. (AOA North American Traveling Fellowship).
23. Faculty, Molecular Biology and Therapeutics in Musculoskeletal Oncology (MBTMO) Research Symposium, AAOS/ORS – September 2008, Salt Lake City, UT. Title: Epithelial to Mesenchymal Transition in Osteosarcoma.
24. Allen Fellow Distinguished Visiting Professor, Department of Orthopaedics, Case Western Reserve University – October 2008, Cleveland, OH. Titles: Growth Factor Signaling in Cancer Progression & Bone and Soft Tissue Sarcomas: The Impact of Research.
25. Speaker, Musculoskeletal Tumor Society Annual Meeting – November 2008, Phoenix, AZ. Title: Blocking the Metastasis-Associated Gene S100A4 Reduces Metastatic Potential of Osteosarcoma.
26. Speaker, Musculoskeletal Tumor Society Annual Meeting – November 2008, Phoenix, AZ. Title: Analysis of Prognostic Factors in Ewing Sarcoma Using a Population-Based Cancer Registry.
27. Speaker, Orthopaedic Research Society Annual Meeting – February 2009, Las Vegas, NV. Title: Blocking the Metastasis-Associated Gene S100A4 Reduces Metastatic Potential of Osteosarcoma.
28. Visiting Professor, University of Cincinnati, Department of Orthopaedic Surgery – April 2009, Cincinnati, OH. Title: Sarcomas: The need to Collaborate.

29. Speaker, American Society of Clinical Oncology Annual Meeting – May 2009, Orlando, FL. Title: Can the Challenge be Met in Sarcoma?
30. Speaker, International Society of Limb Salvage/Musculoskeletal Tumor Society Combined Meeting – September 2009, Boston, MA. Title: Analysis of Prognostic Factors in Epitheloid Sarcoma Using a Population-Based Cancer Registry.
31. Speaker, International Society of Limb Salvage/Musculoskeletal Tumor Society Combined Meeting – September 2009, Boston, MA. Title: Dkk-3, a secreted Wnt antagonist, suppresses tumorigenic potential and lung metastasis of osteosarcoma.
32. Grand Rounds Speaker, City of Hope National Medical Center – March 2009, Duarte, CA. Title: Sarcoma, the Need to Diversify.
33. Speaker, Osteosarcoma Symposium, 3rd Jishuitan Orthopaedic Forum – April 2010, Beijing, China. Title: Osteosarcoma Surgical Management: The Need to Diversify.
34. Visiting Professor, Jishuitan Orthopaedic Hospital, Peking University – April 2010, Beijing, China.
35. Speaker, Western Orthopaedic Association Annual Meeting – August 2010, Monterey, CA. Title: Advancement in the Treatment of Sarcoma.
36. Speaker, Musculoskeletal Tumor Society Meeting – September 2010, Philadelphia, PA. Title: Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry.
37. Keynote Speaker, Chinese Orthopedic Association Annual Meeting – November 2010, Chengdu, China. Title: Advances in Sarcoma: The Impact of a Multidisciplinary Approach.
38. Kappa Delta Award Lecture, Orthopaedic Research Society Annual Meeting – January 2011, Long Beach, CA. Title: Toward Novel Therapeutic Intervention for Osteosarcoma: Clinical Implications of the Wnt Pathway.
39. Speaker, Combined CTOS/Musculoskeletal Tumor Society Annual Meeting – October 2011, Chicago, IL. Title: Targeting Neuropilin, a VEGF Receptor, to Control Angiogenesis and Tumor Growth in Osteosarcoma.
40. Grand rounds speaker, Montefiore Medical Center – October 2011, New York, NY.
41. Speaker, Albert Einstein College of Medicine Cancer Center - January 2012, New York, NY. Title: Secreted Wnt antagonist and chalcone-mediated mechanisms targeting metastatic and recurrence cancer.
42. Keynote Speaker, 24th Forum of the Surgical Society for Musculoskeletal Sarcoma, Japanese Foundation for Cancer Research – April 2012, Tokyo, Japan. Title: Management of Bone and Soft Tissue Sarcoma: Where are the New Frontiers?

Symposium

1. Chair, UC Irvine Sarcoma Symposium – April 2005, Costa Mesa, CA.
2. Co-Chair, Graduate Research Forum, Dept of Orthopaedic Surgery, UC Irvine – June 2006.
3. Co-Chair, UC Irvine Orthopaedic Trauma Symposium – June 2007, Costa Mesa, CA.

4. Co-Chair, UC Irvine Symposium on Ethics: The Role of Industry and Academia – June 2008, Irvine, CA.
5. Speaker, UC Irvine Shoulder Symposium – May 2009, Newport Beach, CA.
6. Co-Chair, UC Irvine Musculoskeletal Oncology Symposium – June 2010, Huntington Beach, CA.
7. Moderator, American Academy of Orthopaedic Surgeons Annual Meeting – March 2010, New Orleans, LA. Session: Tumor/Metabolic Diseases: Sarcoma.
8. Moderator, Tumor and Pathology Symposium, Western Orthopaedic Association Annual Meeting – August 2010, Monterey, CA.
9. Moderator, Tumors and Diseases Symposium, Orthopaedic Research Society Annual Meeting – February 2012, San Francisco, CA.

Research Funding

1. Title: Targeting Neuropilin-2 for Osteosarcoma Growth and Metastasis

Type: Orthopaedic Research and Education Foundation Career Development Award

PI: Bang H. Hoang

Period: 7/1/2011 – 6/30/2014

This award supports career development of the PI and studies on the role of angiogenic receptor neuropilin in osteosarcoma biology.

2. Title: National Institutes of Health K08 Clinical Scientist Development Award

Type: NIH/NCI K08CA11603

PI: Bang H. Hoang

Period: 7/1/06 – 6/30/11

This grant provides support for career development of the PI as a clinician-scientist in basic musculoskeletal oncology research related to osteosarcoma.

3. Title: Ann Doner Vaughn Kappa Delta Award

Type: Orthopaedic Research Society/American Academy of Orthopaedic Surgeons

PI: Bang H. Hoang

Period: 2/15/2011

This award supports studies on the role of cellular signaling pathways and new agents in sarcoma metastasis.

4. Title: Secreted Wnt antagonists in the biology of osteosarcoma

Type: Orthopaedic Research and Education Foundation

PI: Bang H. Hoang

Period: 7/1/06 – 6/30/08

This grant supports pilot studies on soluble Wnt antagonist role in pediatric osteosarcoma.

5. Title: Photon migration spectroscopy and DCMRI in sarcomas

Type: NIH/NCI P30CA62203 (PI-FL Meyskens, Jr.)

PI: Bang H. Hoang

Period: 1/07-1/08

This seed grant is to test the hypothesis that Photon Migration Spectroscopy and DCMRI can be used to quantify response of soft tissue sarcomas (STS) to antiangiogenic therapy and sestamibi-SPET can be employed to correlate drug resistance in STS.

6. Title: Soluble Wnt antagonists in soft tissue sarcomas

Type: American Cancer Society - IRG, UC Irvine

PI: Bang H. Hoang

Period: 11/1/05 – 10/31/06

This institutional grant supports pilot studies on soluble Wnt receptors as a novel therapy for soft tissue sarcomas.

7. Title: AFLAC Young Investigator Award

Type: National Childhood Cancer Foundation/AFLAC

PI: Bang H. Hoang

Period: 8/01/04 – 7/31/06

The goal of this award is to support the PI in his research activities in adolescent and young adult oncology as related to osteosarcoma.

8. Title: Novel Strategies for Controlling Growth of Lymphomas

Type: Multi-Investigator Faculty Research Grant, UC Irvine

PI: Chris C. Hughes and Bang H. Hoang

Period: 7/1/05 – 6/30/06

This grant supports pilot studies conducted by the Hughes and Hoang's labs on Wnt-mediated mechanisms of lymphoma growth and metastasis.

9. Title: Elucidation of genes affected by Wnt inhibition in selected human osteosarcoma cell lines

Type: OREF Medical Student Summer Fellowship

PI: Bang H. Hoang

Period: 06/15/04 – 08/15/04

Fellow: Michael Zachary Koontz

10. Title: Wnt signaling in the progression of osteosarcoma

Type: Aircast Foundation

PI: Bang H. Hoang

Period: 12/01/03 – 12/01/05

This grant provides support for studies on the role of Wnt receptor in osteosarcoma metastasis.