

Benjamin D. Kuhns MD, MS

EDUCATION

American Hip Institute, Des Plaines, Illinois

Hip Preservation Fellowship 8/2023-7/2024

Steadman Philippon Research Institute, Vail, Colorado

Orthopedic Hip Preservation and Reconstruction Fellowship 07/2022-07/2023

University of Rochester Medical Center

Resident in Orthopaedic Surgery 06/2016-06/2022

Case Western Reserve University Medical School, Cleveland, Ohio

Medical Doctor; 08/2011-05/2016 Honors with Distinction in Research

Northwestern University, Evanston, Illinois

Master of Science in Neuroscience; 09/2009-05/2011

Colgate University, Hamilton, New York

Bachelor of Arts; Chemistry Magna Cum Laude 08/2005-05/2009

AWARDS AND HONORS

1. Kenneth E. DeHaven, M.D. Outstanding Graduation Thesis Presentation Award May 2022
2. Orthopedic Research Society Clinician Scholar Career Development Program Scholarship Award. September 2019
3. Louis A. Goldstein Scholarship Award. June 2018
4. Honors with Distinction in Research. Case Western Reserve University. May 2016
5. Alpha Omega Alpha Honor Medical Society. Elected 2014
6. Best Papers "Sensitivity of magnetic resonance imaging in the diagnosis of mobile and non-mobile L4-5 degenerative spondylolisthesis." North American Spine Society Annual Meeting, 2014
7. Honors in all 3rd year clinical rotations and 4th year orthopedic rotations. 2014-2015
8. Honorable Mention "SMPLs as a platform for High Throughput Screening and Identification of ADDL receptors." Case Western Reserve University School of Medicine, Lepow Research Day, 2013
9. Honors Thesis in Organic Chemistry, Colgate University, 2009
10. Dean's List Colgate University 2005-2009

CLINICAL APPOINTMENTS

1. Attending Surgeon: American Hip Institute and Orthopaedic Specialists
2. Assistant Team Physician: U.S. Ski and Snowboard Association

RESEARCH EXPERIENCE

2023-2024: American Hip Institute Research Foundation

Complex hip preservation fellow

2022-2023: Steadman Philippon Research Institute, Vail CO

Hip preservation and reconstruction fellow **2016-2022: University of Rochester Department of Orthopaedics; Center for Musculoskeletal Research, Rochester, NY**

Research resident in clinical and translational orthopedics.

2015-2016: Midwest Orthopedics at Rush, Chicago, IL

Research fellow for Dr. Shane Nho

2012-2015: Cleveland Clinic Center for Spine Health, Cleveland, OH

Clinical science investigator for Dr. Thomas Mroz

2010-2015: Alzheimer's Disease Basic Science Research, Evanston, IL

Basic science investigator for Dr. William Klein.

2009-2010: Feinberg Cardiovascular Research Institute, Northwestern Memorial hospital, Chicago IL

Basic science research intern under the mentorship of Dr. Douglas Losordo.

2007-2009: Department of Organic Chemistry, Colgate University, Hamilton NY

Organic synthesis of carbon linked glycoproteins under the mentorship of Dr. Ernest Nolen

PUBLICATIONS: PEER REVIEWED

1. George T, Curley AJ, Saeed SK, **Kuhns BD**, Parsa A, Domb BG .Orthobiologics as an adjunct in treatment of femoroacetabular impingement syndrome: cell-based therapies facilitate improved postoperative outcomes in the setting of acetabular chondral lesions-a systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2023 Dec;31(12):6020-6038. PMID: 37906291
2. Ruzbarsky JJ, Yamaura K, Nishimura H, Comfort SM, Mullen M, **Kuhns BD**, Day HK, Hambright S, Huard J, Philippon MJ. A unique cartilage morphology of the femoral head-neck junction in patients with femoroacetabular impingement syndrome. *Orthopedic Journal of Sports Medicine* Accepted June 2023
3. **Kuhns BD**, Sholtis CD, Reuter JM, Goldblatt J, Bronstein R, Baumhauer JF, Maloney MD, Mannava S. Sports Participation Impacts Achievement of Clinically Relevant Outcomes Two-Years Following ACL Reconstruction. *Orthopedic Journal of Sports Medicine* Accepted January 2023
4. **Kuhns BD**, Harris WT, Domb BG. Low Ceiling Effects of the Forgotten Joint Score Compared With Legacy Measures Following Joint Preserving Procedures: A Systematic Review. *Arthroscopy* 2023. S0749-8063(23)00176-7 electronically published ahead of print 12/4/2022 PMID 36804458
5. **Kuhns BD**, Reuter JM, Hansen V, Soles G, Jonason JH, Ackert-Bicknell C, Wu CL, Giordano BD. Whole Genome RNA Sequencing Identifies Distinct Transcriptomic Profiles in Impingement Cartilage between Patients with Femoroacetabular Impingement and Hip Osteoarthritis. *Journal of Orthopedic Research. J Orthop Res.* 2022;1–14 electronically published ahead of print 12/4/2022. PMID: 36463522
6. Shaffer J, **Kuhns BD**, Reuter J, Sholtis C, Rouse L, Golblatt JP, Bronstein RD, Maloney MD, Baumhauer JF, Mannava S. The Effect of Depression on Patient Reported Outcomes Measurement and Information System Computer Adaptive Test (PROMIS-CAT) scores and Return-to-Sport following ACL Reconstruction. *Arthroscopy.* 2022 May 10:S0749-8063(22)00279-1. PMID 35550418
7. **Kuhns BD**, Haws BE, Kaupp S, Maloney MD, Carmody EE, Mannava S. Academic Orthopaedics As a Driver of Gender Diversity in the Orthopaedic Workforce: A Review of 4,519 Orthopaedic Faculty Members. *J Am Acad Orthop Surg Glob Res Rev.* 2022 Feb 3;6(2):e21.00028. PMID 35134006
8. **Kuhns BD**, Nho SJ. Editorial Commentary: Bilateral Femoroacetabular Impingement Syndrome: What We Know Now and Where Do We Go From Here? *Arthroscopy.* 2020 Jul;36(7):1862-1863. PMID 32624122
9. **Kuhns BD**, Reuter J, Lawton D, Baumhauer J, Giordano BD. Threshold values for success following hip arthroscopy using the Patient Reported Outcomes Measurement Information System (PROMIS) Assessment: Determining the Minimum Clinically Important Difference (MCID) and Patient Acceptable Symptomatic State (PASS). *Am J Sports Med.* 2020 Nov;48(13):3280-328
10. Quinzi DA, Childs S, **Kuhns BD**, Balkissoon R, Drinkwater C, Ginnetti J. The Impact of Total Hip Arthroplasty Surgical Approach on Patient Reported Outcomes Measurement Information System Computer Adaptive Tests of Physical Function and Pain Interference. *Arthroplasty.* 2020 May. PMID: 32507563

11. Anderson DA, **Kuhns BD**, Kaupp S, Schwartz E, Rubery P, Mannava SP. Lack of Advanced Graduate Training by Orthopaedic Surgeons in Academic Practice: Current Employment and Recruitment Trends. *JAAOS Global Research & Reviews*. 2020 May. doi 10.5435/JAAOSGlobal-D-20-00003 PMID: 33970581
12. Chen RE, **Kuhns BD**, Kaupp S, Voloshin I, Mannava S. Diversity among academic orthopedic shoulder and elbow surgery faculty in the United States. *J Shoulder Elbow Surg*. 2020 Apr;29(4):655-659. PMID: 32197760
13. Giordano BD, **Kuhns BD**, Perets I, Yuen L, Domb BG. Acetabular Morphologic Characteristics Predict Early Conversion to Arthroplasty After Isolated Hip Arthroscopy for Femoroacetabular Impingement. *Am J Sports Med*. 2020 Jan;48(1):188-196. PMID: 31765238
14. Beck EC, Cvetanovich GL, Levy DM, Weber AE, **Kuhns BD**, Khair MM, Rasio J, Nho SJ. A T-capsulotomy provides increased hip joint visualization compared with an extended interportal capsulotomy. *J Hip Preserv Surg*. 2019 Jun 9;6(2):157-163. PMID: 31798933
15. Weber AE, Neal WH, Mayer EN, **Kuhns BD**, Shewman E, Salata MJ, Mather RC, Nho SJ. Vertical Extension of the T-Capsulotomy Incision in Hip Arthroscopic Surgery Does Not Affect the Force Required for Hip Distraction: Effect of Capsulotomy Size, Type, and Subsequent Repair. *Am J Sports Med*. 2018 Nov;46(13):3127-3133. doi: 10.1177/0363546518800710.
16. Lewis PB, Weber AE, **Kuhns BD**, Nho SJ. A Systematic Approach to Magnetic Resonance Imaging Interpretation of Sports Medicine Injuries of the Hip. *JBJS Rev*. 2018 Nov;6(11):e6. doi: 10.2106/JBJS.RVW.17.00204.
17. Cvetanovich GL, Ukwuani G, **Kuhns BD**, Weber AE, Beck E, Nho SJ. Antegrade Femoral Nail Distal Interlocking Screw Causing Rupture of the Medial Patellofemoral Ligament and Patellar Instability. *Am J Orthop*. 2018 Jul;47(7). doi: 10.12788/ajo.2018.0054
18. Lansdown DA, Ukwuani G, **Kuhns BD**, Harris JD, Nho SJ. Self-reported Mental Disorders Negatively Influence Surgical Outcomes After Arthroscopic Treatment of Femoroacetabular Impingement. *Orthopedic Journal of Sports Medicine* 2018;18;6(5)
19. Cvetanovich GL, Weber AE, **Kuhns BD**, Alter J, Harris JD, Mather RC 3rd, Nho SJ. Hip Arthroscopic Surgery for Femoroacetabular Impingement with Capsular Management: Factors Associated With Achieving Clinically Significant Outcomes. *American Journal of Sports Medicine*. 2018;42(2):288-296.
20. **Kuhns BD**, Hannon CP, Makhni EC, Alter J, Mather RC, Salata MJ, Nho SJ. A Comparison of Clinical Outcomes Following Unilateral or Bilateral Hip Arthroscopy: An Age and Gender matched Cohort Study. *American Journal of Sports Medicine*. 2017;45(13):3044-3051.
21. **Kuhns BD**, Stegemann C, Nho SJ. Clinical Correlate: A Four-Phase Physical Therapy Regimen for Returning to Sport Following Hip Arthroscopy for Femoroacetabular Impingement With Routine Capsular Closure Journal: *International journal of sports physical therapy*. *International Journal of Sports Physical Therapy* 2017;12(4):683-696.
22. Weber AE, **Kuhns BD**, Cvetanovich GL, Lewis PB, Mather RC III, Salata MJ, Nho SJ. Does the Hip Capsule Remain Closed After Hip Arthroscopy With Routine Capsular Closure for Femoroacetabular Impingement? A Magnetic Resonance Imaging Analysis in Symptomatic Postoperative Patients. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. 2017;33(1):108-115.
23. Levy DM, Cvetanovich GL, **Kuhns BD**, Greenberg MJ, Alter JM, Nho SJ. Hip Arthroscopy for Atypical Posterior Hip Pain: A Comparative Matched-Pair Analysis. *AJSM*. 2017;45(7):1627-1632.
24. Cvetanovich GL, Weber AE, **Kuhns BD**, Mather RC, Salata MJ, Nho SJ. Do Patients with Borderline Dysplasia have Inferior Outcomes Following Hip Arthroscopy Compared to Patients with Normal Acetabular Coverage? *American Journal of Sports Medicine*. 2017;45(9):2116-2124.
25. Saltzman BM, **Kuhns BD**, Basques B, Leroux T, Alter J, Mather RC, Salata MJ, Nho SJ. The Influence of Body Mass Index on Outcomes Following Hip Arthroscopy for the Treatment of Femoroacetabular Impingement and Capsular Management. 2017; May epub ahead of print

26. Saltzman BM, **Kuhns BD**, Weber AE, Yanke A, Nho SJ. Stem Cells in Orthopedics: A Comprehensive Guide for the General Orthopedist. *American Journal of Orthopedics*. 2016 Jul;45(5):280-326. doi: 10.1016/j.arthro.2016.05.014.
27. Griffin JW, Weber AE, **Kuhns BD**, Lewis P. Imaging in Hip Arthroscopy for Femoroacetabular Impingement: A Comprehensive Approach. *Clinics in Sports Medicine*. 2016 Jul;35(3):331-44. doi: 10.1016/j.csm.2016.02.002.
28. Levy DM, **Kuhns BD**, Chahal J, Philippon MJ, Kelly BT, Nho SJ. Hip arthroscopy outcomes with respect to patient acceptable symptomatic state (PASS) and minimal clinically important difference (MCID): a meta-analysis of 9,746 hips. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. 2016 Sep
29. Khair MM, Grzybowski JS, **Kuhns BD**, Wuerz T, Shewman E, Nho SJ. The effects of capsulotomy and capsular repair on the biomechanics of hip distraction. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. 2016 Dec 22. doi:10.1016/j.arthro.2016.09.019
30. Cvetanovich GL, **Kuhns BD**, Hannon CP, D'Souza D, Nho SJ. Clinically Meaningful Improvements Following Hip Arthroscopy for Femoroacetabular Impingement in Adolescent and Young Adult Patients Regardless of Gender. *J Pediatr Orthop*. 2016 Aug 29. [Epub ahead of print]
31. Weber AE, **Kuhns BD**, Cvetanovich GL, Grzybowski JS, Salata MJ, Nho SJ. Amateur and Recreational Athletes Return to Sport at a High Rate Following Hip Arthroscopy for Femoroacetabular Impingement. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. 2016;33(4):748-755
32. Levy DM, **Kuhns BD**, Grzybowski J, Mather RC, Salata MJ, Brown S, Nho SJ. High Rate of Return to Running Following Hip Arthroscopy. *American Journal of Sports Medicine*. 2017 Jan;45(1):127-134. doi: 10.1177/0363546516664883.
33. Virk MS, Levy DM, **Kuhns BD**, Kercher JS, Parsley BK, Burkhart SS, Romeo AA, Verma NN, Cole BJ. Prospective Analysis of Patient Preference Before and After Arthroscopic Rotator Cuff Repair: Is Pain Relief or Strength Improvement More Important? *American Journal of Orthopedics*. 2017;46(4):E244-E250.
34. **Kuhns BD**, Weber AE, Levy DM, Bedi A, Nho SJ. Capsular management in hip arthroscopy: An anatomic, biomechanical, and technical review. *Front. Surg. Front Surg*. 2016 Mar 4;3:13. doi: 10.3389/fsurg.2016.00013.
35. Levy DM, Bogunovic L, Grzybowski JS, **Kuhns BD**, Bush-Joseph CA, Nho SJ. All -Endoscopic Single-Row Repair of Full-Thickness Gluteus Medius Tears. *Arthrosc Tech*. 2016: Jan 4;5(1):e1-6. . doi: 10.1016/j.eats.2015.08.020
36. **Kuhns BD**, Erickson BJ, Bressler LR, Sarmast SM, Nho SJ. Perineal post padding technique to improve distraction in tall patients. *Arthrosc Tech*. 2015 Nov 23;4(6):e747-50. doi: 10.1016/j.eats.2015.07.015.
37. **Kuhns BD**, Frank RM, Pulido L. Open and arthroscopic surgical treatment of femoroacetabular impingement. *Front. Surg*. 2015 Dec 2;2:63. doi: 10.3389/fsurg.2015.00063.
38. **Kuhns BD**, Weber AE, Levy DM, Wuerz T, Nho SJ. The natural history of femoroacetabular impingement. *Front. Surg*. 2015 Nov 16;2:58. doi: 10.3389/fsurg.2015.00058.
39. Nho SJ, Grzybowski JS, Bogunovic L, **Kuhns BD**, Mather RC III, Salata MJ, Bush-Joseph CA. Diagnosis, evaluation, and endoscopic repair of partial articular gluteus tendon avulsion. *Arthrosc Tech*. 2016 May 2;5(3):e425-31. doi: 10.1016/j.eats.2016.01.023
40. **Kuhns BD**, Kouk S, Buchanan C, Lubelski D, Alvin MD, Benzel EC, Mroz TE. Sensitivity of Magnetic Resonance Imaging in the diagnosis of mobile and non-mobile L4-5 degenerative spondylolisthesis. *Spine J*. 2015 Sep 1;15(9):1956-62.
41. Lee S, Shin J, Haro M, Khair M, Riboh JC, **Kuhns BD**, Bush-Joseph CA, Nho SJ. 50 most cited articles for femoroacetabular impingement in hip arthroscopy. *Front Surg*. 2015 Aug 18;2:41. doi: 10.3389
42. Wilcox KC, Marunde MR, Das A, Velasco PT, **Kuhns BD**, Marty M, Jiang H, Luan CH, Sligar SG, Klein WL. Nanoscale Synaptic Membrane Mimetic Allows Unbiased High Throughput Screen That Targets Binding Sites for Alzheimer's-Associated A β Oligomers. *PLoS ONE*. 2015 Apr 30;10(4):e0125263.

43. **Kuhns BD**, Lubelski D, Alvin MD, Taub JS, Mcgirt MJ, Benzel EC, Mroz TE. Cost and quality of life outcome analysis of postoperative infections after subaxial dorsal cervical fusions. *J. Neurosurg. Spine*. 2015 Apr;22(4):381-6.
44. Mittal SO, ThatiGanganna S, **Kuhns BD**, Strbian D, Sundararajan S. Acute ischemic stroke in pediatric patients. *Stroke*. 2015 Feb;46(2):e32-4.
45. Alvin MD, Abbott EE, Lubelski D, **Kuhns BD**, Nowacki AS, Steinmetz MP, Benzel EC, Mroz TE. Cervical arthroplasty: A critical review of the literature. *Spine J. Spine J*. 2014 Sep 1;14(9):2231-45.

PRESENTATIONS

1. **Kuhns BD**, Lind D, Goff A, Brown J, Philippon Jr. M, Nishimura H, Bahney C, Matta JM, Kim R, Huard J, Philippon MJ. Biochemical and Histologic Milieu of Pulvinar Inflammation and Osteoarthritis Progression. Society of Military Orthopedic Surgeons 65th Annual Meeting. Vail, CO. December 2023
2. **Kuhns BD**, Goff A, Brown J, Philippon Jr. M, Nishimura H, Bahney C, Matta JM, Kim R, Huard J, Philippon MJ. Biochemical and Histologic Evaluation of Pulvinar Synovium Provides Insight Into Osteoarthritis Progression In The Setting Of Femoroacetabular Impingement. International Society for Hip Arthroscopy Annual Scientific Meeting. Cape Town, South Africa October 2023
3. **Kuhns BD**, Chang P, Stetzelberger V, Brown J, Ruzbarsky J, Godin J, Vidal L, Philippon MJ. Arthroscopic Validation of the Modified Ligamentous-Fossa-Foveolar Central Compartment Grading System with Post-Hoc Clinical Correlation for Patients Undergoing Hip Arthroscopy. International Society for Hip Arthroscopy Annual Scientific Meeting. Cape Town, South Africa October 2023
4. Ruzbarsky JJ, Yamaura K, Nishimura H, Comfort SM, Mullen M, **Kuhns BD**, Day HK, Hambright S, Huard J, Philippon MJ. A Unique Cartilage Morphology of the Femoral Head-Neck Junction in Patients with Femoroacetabular Impingement. ISAKOS Congress Boston, Massachusetts. June 2023.
5. **Kuhns BD**, Curley A, Morris W, Wylie J, Agricola R, Giordano BD. “Bridging The Gap From Femoroacetabular Impingement to Hip Osteoarthritis: The Pathobiology of the Cam Deformity, Osteoarthritis Onset and Disease Progression” **Instructional Course Lecture**. International Society for Hip Arthroscopy Annual Scientific Meeting. Glasgow, Scotland October 2022.
6. **Kuhns BD**, Ajabnoor R, Tarricone L, Ricciardi B, Carmody E, Boyce B. Histologic Osteopenia of the Femoral Head Diagnosed during Total Hip Arthroplasty Is Associated with Global Osteoporosis and Increased Perioperative Fracture Risk. American Academy of Orthopedic Surgeons Annual Meeting. Chicago, Illinois. March 2022.
7. **Kuhns BD**, Reuter JM, Hansen V, Soles G, Wu CL, Jonason J, Ackert-Bicknell C, Giordano BD. Whole Genome RNA Sequencing of Femoral Head Articular Cartilage Identifies FGF-18 As A Biomarker In Hip Osteoarthritis Progression. International Society for Hip Arthroscopy Annual Scientific Meeting. Las Vegas, Nevada December 2021
8. Reuter J, **Kuhns BD**, Baumhauer J, Giordano BD. Maximum outcome improvement (MOI) associated with patient satisfaction using the PROMIS assessment after primary hip arthroscopy for femoroacetabular impingement. International Society for Hip Arthroscopy Annual Scientific Meeting. Las Vegas, Nevada December 2021
9. Distefano D, Karnyski S, **Kuhns BD**, Ketz JP, Barra M, Haws B. Reduction Quality of Open vs Percutaneous Techniques for the Posterior Malleolus. *Foot & Ankle Orthopaedics*. American Foot and Ankle Society Annual Meeting Charlotte, North Carolina. September 2021.
10. Shaffer J, **Kuhns BD**, Reuter J, Sholtis C, Rouse L, Golblatt JP, Bronstein RD, Maloney MD, Baumhauer JF, Mannava S. The Effect of Depression on Patient Reported Outcomes Measurement and Information System Computer Adaptive Test (PROMIS-CAT) scores and Return-to-Sport following ACL Reconstruction. American Academy of Orthopedic Surgeons Annual Meeting. Orlando, Florida. March 2020
11. **Kuhns BD**, Reuter J, Lawton D, Baumhauer J, Giordano BD. Clinically relevant threshold values for success following hip arthroscopy using the Patient Reported Outcomes Measurement

- Information System (PROMIS) questionnaire. Determining the Minimum Clinically Important Difference (MCID) and Patient Acceptable Symptomatic State (PASS). American Academy of Orthopedic Surgeons Annual Meeting. Orlando, Florida. March 2020
12. Weber AE, Neal W, Mayer E, Beck E, Kuhns BD, Shewman E, Salata MJ, Mather RC, Nho SJ. Converting from an Interportal to a T-Capsulotomy: The Effects of Capsulotomy Size, Type, and Subsequent Repair on the Biomechanics of Hip Distraction. American Academy of Orthopedic Surgeons Annual Meeting. Las Vegas, Nevada, March 2019.
 13. Giordano BD, **Kuhns BD**, Perets I, Yuen L, Domb BG. The Lateral Coverage Index as a Clinically Relevant Radiographic Marker for Acetabular Coverage. Arthroscopy Association of North America Annual Meeting. Chicago, Illinois, April 2018.
 14. Giordano BD, **Kuhns BD**, Perets I, Yuen L, Domb BG. Acetabular Architecture Predicts Progression to Total Hip Arthroplasty Following Hip Arthroscopy. American Academy of Orthopedic Surgeons Annual Meeting. New Orleans, Louisiana, March 2018.
 15. Landsdown D, Ukwuani G, **Kuhns BD**, Harris JD, Nho SJ. Clinical Outcomes After Arthroscopic Treatment of Femoroacetabular Impingement are Significantly Worse in Patients With A History of Mental Disorder. International Society for Hip Arthroscopy. Annual Meeting. Santiago, Chile, October 2017.
 16. Cvetanovich GL, **Kuhns BD**, Weber AE, Alter J, Mather RC, Harris J, Nho SJ. Predictors of inferior outcomes following hip arthroscopy for femoroacetabular impingement. American Orthopedic Society of Sports Medicine: Specialty Day. San Diego, CA, March 2017
 17. Levy DM, Greenberg M, **Kuhns BD**, Weber AE, Salata M, Mather RC III, Bush-Joseph CA, Nho SJ. Arthroscopic outcomes for atypical hip pain: A comparative matched pair analysis. AANA 2016 Annual Meeting. Boston, Massachusetts, April 14-16 2016.
 18. Weber AE, **Kuhns BD**, Grzybowski JS, Wuerz T, Khair MM, Levy DM, Cvetanovich GL, Nho SJ. A T-Capsulotomy Provides Increased Hip Joint Visualization Compared to An Extended Interportal Capsulotomy: Implications For Improved Capsular Management. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
 19. Levy DM, **Kuhns BD**, Weber AE, Chahal J, Philippon MJ, Kelly BT, Nho SJ. Hip Arthroscopy Outcomes with Respect to Patient Acceptable Symptomatic State (PASS): A Systematic Review. International Congress for Joint Reconstruction. Pan Pacific Orthopaedic Congress. Waikoloa, Hawaii. August 2016
 20. Lee S, Frank RM, Khair MM, Greenberg M, **Kuhns BD**, Bush-Joseph CB, Nho SJ. Incidence of Prior Orthopaedic Surgery in Patients Undergoing Hip Arthroscopy for FAI. International Congress for Joint Reconstruction. Pan Pacific Orthopaedic Congress. Waikoloa, Hawaii. August 2016
 21. Levy DM, Greenberg MJ, **Kuhns BD**, Weber AE, Bush-Joseph CB, Nho SJ. Arthroscopic Outcomes for Atypical Hip Pain: A Comparative Matched-Pair Analysis. International Congress for Joint Reconstruction. Pan Pacific Orthopaedic Congress. Waikoloa, Hawaii. August 2018
 22. Khair MM, Grzybowski JS, **Kuhns BD**, Wuerz TH, Weber AE, Shewman E, Nho SJ. The Effects of Capsulotomy and Capsular Repair on the Biomechanics of Hip Distraction. International Congress for Joint Reconstruction. Pan Pacific Orthopaedic Congress. Waikoloa, Hawaii. August 2016
 23. Weber AE, **Kuhns BD**, Cvetanovich GL, Levy DM, Nho SJ. Recreational Athletes Return to Sport at a Comparable Rate to Elite Athletes Following Hip Arthroscopy for Femoroacetabular Impingement. AOSSM Annual Meeting Colorado Springs, CO. July 2016
 24. Levy DM, Virk M, Kercher J, **Kuhns BD**, Tilton A, Burkhart SS, Romeo AA, Verma NN, Cole BJ. Do Patients Undergoing Arthroscopic Rotator Cuff Repair Prioritize Pain Relief or Return of Strength? American Academy of Orthopaedic Surgeons Annual Meeting Orlando, FL March 2016
 25. Cvetanovich GL, Chalmers PN, Levy DM, **Kuhns BD**, Mather RC III, Harris JD, Bush-Joseph CA, Nho SJ. Hip arthroscopy in the United States: surgical volume trends and 30 day post-operative morbidity and mortality. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015

26. Khair MM, Grzybowski JS, **Kuhns BD**, Wuerz T, Shewman E, Nho SJ. The effects of capsulotomy and capsular repair on the biomechanics of hip distraction. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
27. **Kuhns BD**, Kouk S, Buchanan CC, Lubelski D, Alvin MD, Benzel EC, Mroz TE. Sensitivity of magnetic resonance imaging in the diagnosis of mobile and non-mobile L4-5 Degenerative spondylolisthesis. Best Papers Podium Presentation. 2014 NASS Annual Meeting. San Francisco, CA. November 2-5, 2014.
28. Lubelski D, **Kuhns BD**, Thompson N, Bansal S, Mroz TE, Benzel EC, Khalaf T. Depression predicts worse quality of life outcomes following non-operative treatment for lumbar stenosis. 2014 NASS Annual Meeting. San Francisco, CA. November 2-5, 2014.

ABSTRACTS

1. Afetse E, Brown J, Stetzelberger V, **Kuhns BD**, Comfort S, Dornan G, Philippon MJ. Survivorship and patient-reported outcomes following arthroscopic ligamentum teres reconstruction at minimum 2-year follow-up
2. Stetzelberger V, Brown J, **Kuhns BD**, Nishimura H, Dornan G, Philippon JM. Arthroscopic treatment of acetabular protrusion: what are the clinical outcomes compared to non-protrusio acetabular over-coverage? International Society for Hip Arthroscopy Annual Scientific Meeting. Cape Town, South Africa October 2023
3. **Kuhns BD**, Sholtis C, Reuter JM, Goldblatt JP, Bronstein RD, Mannava S, Baumhauer JF, Maloney MD. Threshold values for success following primary anterior cruciate ligament reconstruction (ACLR) using the Patient Reported Outcomes Measurement Information System (PROMIS) Assessment: Determining the Patient Acceptable Symptomatic State (PASS). American Academy of Orthopedic Surgeons Annual Meeting. Chicago, Illinois. March 2022
4. **Kuhns BD**, Reuter JM, Hansen V, Soles G, Wu CL, Jonason J, Ackert-Bicknell C, Giordano BD. Whole Genome RNA Sequencing of Femoral Head Articular Cartilage Identifies FGF-18 As A Biomarker In Hip Osteoarthritis Progression. American Academy of Orthopedic Surgeons Annual Meeting. Chicago, Illinois. March 2022
5. **Kuhns BD**, Reuter JM, Soles G, Jonason J, Ackert-Bicknell C, Giordano BD. Differences in articular hip cartilage gene expression between femoroacetabular impingement (FAI) and end-stage hip osteoarthritis. American Academy of Orthopedic Surgeons Annual Meeting. San Diego, CA. August 2021
6. **Kuhns BD**, Ajabnoor R, Tarricone L, Ricciardi B, Carmody E, Boyce B. Histologic Osteopenia of the Femoral Head Increases Complications Following Total Hip Arthroplasty. Top 100 poster award. AAHKS Annual meeting. Dallas, Texas November 2020
7. **Kuhns BD**, Soles G, Giordano BD, Ackert-Bicknell C. Differences in articular hip cartilage gene expression between femoroacetabular impingement (FAI) and end-stage hip osteoarthritis. American Orthopedic Society of Sports Medicine Annual Meeting. Seattle, Washington. July 2020
8. Shaffer J, **Kuhns BD**, Reuter J, Sholtis C, Rouse L, Golblatt JP, Bronstein RD, Maloney MD, Baumhauer JF, Mannava S. The Effect of Depression on Patient Reported Outcomes Measurement and Information System Computer Adaptive Test (PROMIS-CAT) scores and Return-to-Sport following ACL Reconstruction. American Orthopedic Society of Sports Medicine Annual Meeting. Seattle, Washington. July 2020
9. Chen RE, **Kuhns BD**, Kaupp S, Voloshin I, Mannava SP. Diversity Among Academic Orthopaedic Shoulder and Elbow Surgery Faculty in the United States. The American Orthopaedic Association Annual Leadership Meeting. Baltimore, MD. June 2020
10. Hwang A, **Kuhns BD**, Mannava SP. Demographic Diversity of Academic Orthopaedic Surgery Sports Medicine Physicians. The American Orthopaedic Association Annual Leadership Meeting. Baltimore, MD. June 2020

11. **Kuhns BD**, Hawes B, Kaupp S, Carmody E, Mannava SP. Academic Orthopaedics as a Driver of Diversity in the Orthopaedic Workforce: A Review of 4,519 Orthopaedic Faculty Members. The American Orthopaedic Association Annual Leadership Meeting. Baltimore, MD. June 2020
12. **Kuhns BD**, Ajabnoor R, Tarricone L, Ricciardi B, Carmody E, Boyce B. Histologic Osteoporosis of the Femoral Head Increases Short-Term Complications Following Total Hip Arthroplasty. The Orthopedic Research Society Annual Meeting. Phoenix, Arizona February 2020
13. **Kuhns BD**, Soles G, Giordano BD, Ackert-Bicknell C. Differences in gene expression between femoroacetabular impingement (FAI) and end-stage hip osteoarthritis. The Orthopedic Research Society Annual Meeting. Phoenix, Arizona February 2020
14. **Kuhns BD**, Soles G, Giordano BD, Ackert-Bicknell C. Differences in gene expression between femoroacetabular impingement (FAI) and end-stage hip osteoarthritis. The International Society of Hip Arthroscopy Annual Meeting. Madrid, Spain October 2019
15. **Kuhns BD**, Reuter J, Lawton D, Baumhauer J, Giordano BD. Clinically relevant threshold values for success following hip arthroscopy using the Patient Reported Outcomes Measurement Information System (PROMIS) questionnaire. Determining the Minimum Clinically Important Difference (MCID) and Patient Acceptable Symptomatic State (PASS). The International Society of Hip Arthroscopy Annual Meeting. Madrid, Spain October 2019
16. Giordano BD, **Kuhns BD**, Perets I, Yuen L, Domb BG. Acetabular Morphology Predicts Early Conversion to Arthroplasty Following Isolated Hip Arthroscopy for Femoroacetabular Impingement. The International Society of Hip Arthroscopy Annual Meeting. Madrid, Spain October 2019
17. Weber AE, Neal W, Mayer E, Beck E, **Kuhns BD**, Shewman E, Salata MJ, Mather RC, Nho SJ. Converting from an Interportal to a T-Capsulotomy: The Effects of Capsulotomy Size, Type, and Subsequent Repair on the Biomechanics of Hip Distraction. Las Vegas, Nevada, March 2019.
18. Giordano B, **Kuhns BD**, Perets I, Yuen L, Domb BG. The Lateral Coverage Index As a Novel Radiographic Marker for Hip Dysplasia. International Society for Hip Arthroscopy Annual Meeting. Santiago, Chile, October 2017.
19. Giordano B, **Kuhns BD**, Perets I, Yuen L, Domb BG. Capsular Management In Hip Arthroscopy. International Society for Hip Arthroscopy Annual Meeting. Santiago, Chile, October 2017.
20. Frank RM, **Kuhns BD**, Ukwuani G, Lee S, Greenberg M, Bush-Joseph C, Nho SJ. Incidence of Prior Orthopedic Surgery in PATients Undergoing Hip Arthroscopy for Femoroacetabular Impingement. Annual Meeting. Santiago, Chile, October 2017.
21. Riff A, Ukwuani G, **Kuhns BD**, Inoue N, Nho SJ, Neal W. Three Dimensional Surface Mapping of the Neuromuscular Attachments at the Pubic Symphysis: Implications for the Treatment of Core Muscle Injury. Annual Meeting. Santiago, Chile, October 2017.
22. Cvetanovich GL, Weber AE, **Kuhns BD**, Ukwuani G, Harris JD, Mather RC III, Nho SJ. Success and Failure of Hip Arthroscopy for Femoroacetabular Impingement: Factors Associated with Achieving Clinically Significant Outcomes. AANA 2017 Annual Meeting. Denver, CO. May 18-20.
23. Weber AE, **Kuhns BD**, Ukwuani G, Cvetanovich GL, Shewman EF, Nho SJ. The Effects of Capsulotomy Type, Size and Subsequent Repair on the Biomechanics of Hip Distraction. AANA 2017 Annual Meeting. Denver, CO. May 18-20.
24. Weber AE, **Kuhns BD**, Grzybowski JS, Wuerz T, Khair MM, Levy DM, Cvetanovich GL, Nho SJ. A T-Capsulotomy Provides Increased Hip Joint Visualization Compared to An Extended Interportal Capsulotomy: Implications For Improved Capsular Management. AOSSM Specialty Day, San Diego, CA, March 2017
25. Weber AE, **Kuhns BD**, Cvetanovich GL, Inoue N, Mather RC, Bedi A, Nho SJ. Differences in Acetabular Rim Thickness Between the Symptomatic and Asymptomatic Hip in Patients with Unilateral Femoroacetabular Impingement. American Academy of Orthopedic Surgeons: Annual Meeting. San Diego, CA, March 2017
26. Weber AE, **Kuhns BD**, Grzybowski JS, Wuerz T, Khair MM, Levy DM, Cvetanovich GL, Nho SJ. A T-Capsulotomy Provides Increased Hip Joint Visualization Compared to An Extended Interportal Capsulotomy: Implications For Improved Capsular Management. American Academy of Orthopedic Surgeons: Annual Meeting. San Diego, CA, March 2017

27. Cvetanovich GL, Weber AE, Levy DM, **Kuhns BD**, Greenberg M, Alter J, Mather RC, Salata MJ, Nho SJ. Atypical posterior pain presentation of femoroacetabular impingement: an age-, gender- and BMI-matched cohort analysis. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
28. **Kuhns BD**, Makhni E, Hannon CP, Alter J, Mather RC, Nho S. Bilateral hip arthroscopy for femoroacetabular impingement: An age-, gender-, and BMI-matched cohort compared to unilateral surgery. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
29. Leroux T, **Kuhns BD**, Basques B, Alter J, Mather RC, Salata MJ, Nho SJ. How Body Mass Index Affects Outcomes Following Hip Arthroscopy for Femoroacetabular Impingement. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
30. Weber AE, **Kuhns BD**, Cvetanovich GL, Alter J, Mather RC, Harris J, Nho SJ. Predictors of Failure Following Primary Hip Arthroscopy for Femoroacetabular Impingement: A Matched Cohort Analysis. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
31. **Kuhns BD**, Weber AE, Cvetanovich GL, Espinoza AE, Inoue N, Mather RC, Nho SJ. Computed Tomography (CT) analysis of femoral head translation: A cadaveric investigation. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
32. Cvetanovich GL, **Kuhns BD**, Weber AE, Alter J, Mather RC, Harris J, Nho SJ. Predictors of inferior outcomes following hip arthroscopy for femoroacetabular impingement. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
33. Cvetanovich GL, Weber AE, Levy DM, **Kuhns BD**, Alter J, Salata MJ, Nho SJ. Do patients with borderline dysplasia or pincer morphology have inferior outcomes following hip arthroscopy for FAI with capsular plication compared to patients with normal LCEA. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
34. Weber AE, Makhni E, **Kuhns BD**, Cvetanovich GL, Harris J, Salata MJ, Nho SJ. An Evaluation of the Interportal Capsulotomy Made with the Modified Anterior Portal: Comparable Utility with Decreased Capsule Morbidity. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
35. Weber AE, **Kuhns BD**, Cvetanovich GL, Inoue N, Mather RC, Bedi A, Nho SJ. Differences in Acetabular Rim Thickness Between the Symptomatic and Asymptomatic Hip in Patients with Unilateral Femoroacetabular Impingement. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
36. Makhni E, **Kuhns BD**, Alter J, Harris J, Chahal J, Nho SJ. How are we using patient reported outcomes in patients with FAI: Which score is best? International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
37. Cvetanovich GL, Weber AE, **Kuhns BD**, Hannon CP, D'Souza D, Harris JD, Mather RC, Nho SJ. Clinically Meaningful Improvements Following Hip Arthroscopy for Femoroacetabular Impingement in Pediatric Patients Regardless of Gender. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
38. Weber AE, **Kuhns BD**, Cvetanovich GL, Lewis P, Mather RC, Salata MJ, Nho SJ. Does the Hip Capsule Remain Closed Following Hip Arthroscopy with Routine Capsular Plication for Femoroacetabular Impingement?. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
39. **Kuhns BD**, Weber AE, Campbell K, Coleman S, Meyers W, Nho SJ. Three-Dimensional Surface Mapping of the Neuromuscular Attachments at the Pubic Symphysis: Implications for the Treatment of Symphyseal Tendinopathy. International Society for Hip Arthroscopy 2016 Annual Meeting. San Francisco, CA. September 2016
40. Weber AE, **Kuhns BD**, Cvetanovich GL, Inoue N, Nho SJ. Differences in Acetabular Rim Thickness in Patients with Unilateral Symptomatic Pincer-Type Femoroacetabular Impingement. American Orthopedic Society for Sports Medicine Annual Meeting. Colorado Springs, CO July 2016.

41. Weber AE, **Kuhns BD**, Levy DM, Grzybowski GL, Nho SJ. Recreational and amateur athletes return to play after hip arthroscopy for femoroacetabular impingement. American Orthopedic Association Emerging Leaders Forum. Seattle, Washington June 2016
42. Cvetanovich GL, Weber AE, **Kuhns BD**, Hannon CP, D'Souza D, Nho SJ. Clinically Meaningful Improvements in Outcomes Following Hip Arthroscopy for Femoroacetabular Impingement in Pediatric Patients. AANA 2016 Annual Meeting. Boston, Massachusetts, April 14-16 2016.
43. Matsuda D, **Kuhns BD**, Nho SJ, Needell S, Borzykowski R, Carreira D. The anterior margin ratio: A new gold standard for measuring the anterior acetabular rim? AANA 2016 Annual Meeting. Boston, Massachusetts, April 14-16 2016.
44. Levy DM, **Kuhns BD**, Frank RM, Grzybowski J, Campbell J, Brown S, Nho SJ. High Rate of Return to Run for Athletes Following Arthroscopic Surgery for Femoroacetabular Impingement. AANA 2016 Annual Meeting. Boston, Massachusetts, April 14-16 2016.
45. Levy DM, Weber AE, **Kuhns BD**, Grzybowski J, Nho SJ. Recreational and amateur athletes return to play at after hip arthroscopy for femoroacetabular impingement. AANA 2016 Annual Meeting. Boston, Massachusetts, April 14-16 2016.
46. Levy DM, Greenberg M, **Kuhns BD**, Weber AE, Salata M, Mather RC III, Bush-Joseph CA, Nho SJ. Arthroscopic outcomes for atypical hip pain: A comparative matched pair analysis. AANA 2016 Annual Meeting. Boston, Massachusetts, April 14-16 2016.
47. Grzybowski JS, Levy DM, Khair MM, Kuhns BD, Wuerz TH, Shewman E, Nho SJ. The effect of hip capsulotomy size on the area of arthroscopic visualization. Orthopedic Research Society Annual Meeting, Orlando, FL March 2016
48. Khair MM, Grzybowski JS, Kuhns BD, Wuerz TH, Shewman EF, Nho SJ. The Effect of Capsulotomy and Capsular Repair on Biomechanics of Hip Distraction. Orthopedic Research Society Annual Meeting, Orlando, FL March 2016
49. **Kuhns BD**, Frank RM, Weber AE, Erickson BE, Cvetanovich GL, Levy DM, Clohisy J, Larson C, Bush-Joseph CA, Bedi A, Nho SJ. Advances in Hip Arthroscopy: From Bench to Bedside. Scientific Exhibit. American Academy of Orthopaedic Surgeons Annual Meeting Orlando, FL March 2016
50. Luchetti TJ, Hannon C, **Kuhns BD**, Levy DM, Bush-Joseph CA, Nho SJ. Proximal Hamstring Injury: Diagnosis and Treatment. Scientific Exhibit. American Academy of Orthopaedic Surgeons Annual Meeting Orlando, FL March 2016
51. Levy DM, Cvetanovich GL, **Kuhns BD**, Frank RM, Erickson BJ, Kelly B, Nho SJ. Anatomic Layers of the hip. Scientific Exhibit. American Academy of Orthopaedic Surgeons Annual Meeting Orlando, FL March 2016
52. Levy DM, **Kuhns BD**, Chahal J, Philippon MJ, Kelly BT, Nho SJ. Hip arthroscopy outcomes with respect to minimal clinically important difference (MCID): A systematic review. American Academy of Orthopaedic Surgeons Annual Meeting Orlando, FL March 2016
53. Levy DM, **Kuhns BD**, Philippon MJ, Kelly BT, Nho SJ. Hip arthroscopy outcomes for patients with a prior history of hip surgery: A systematic review. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
54. Grzybowski JS, Levy DM, Khair MM, Kuhns BD, Wuerz TH, Shewman E, Nho SJ. The effect of Hip Capsulotomy Size on the area of Arthroscopic Visualization. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
55. Cvetanovich GL, Grzybowski JS, Greenberg M, Kuhns BD, Chalmers PN, Stover MD, Inoue I, Nho SJ. Three Dimensional Computed Tomography Determination of in vivo Hip Translation in Patients with Femoroacetabular Impingement. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
56. Levy DM, **Kuhns BD**, Grzybowski J, Mather RC, Salata MJ, Nho SJ. Factors involved in return to sport after hip arthroscopy. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
57. Mascarenhas R, Lee S, Wuerz TH, Kuhns BD, Mather RC 3rd, Bush-Joseph CA, Nho SJ. Predictors of Return to Work in Workers Compensation Patients Following Arthroscopic Hip Surgery: A Matched Case-Control Study. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015

58. Levy DM, Song SH, Grzybowski JS, Greenberg M, Kuhns BD, Nho SJ. Hip Arthroscopy Outcomes based on the Lateral Center Edge Angle of Wiberg. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
59. Bogunovic L, Lee S, Haro M, Frank JM, Kuhns BD, Mather RC, Bush-Joseph CA, Nho SJ. Novel Application of the Goutallier/ Fuchs Classification to the Evaluation of Hip Abductor Tendon Tears and the Clinical Correlation with Outcome Following Repair. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
60. Levy DM, **Kuhns BD**, Chahal J, Philippon MJ, Kelly BT, Nho SJ. Hip Arthroscopy outcomes with respect to patient acceptable symptomatic state (PASS): A systematic Review. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
61. Li, K, Espinoza-Orias AA, **Kuhns BD**, Stanley RA, Nho SJ, Qian X. Development of a Statistical Shape Model of Cam-type FAI and Normal Proximal Femurs. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
62. Levy DM, **Kuhns BD**, Grzybowski J, Mather RC, Salata MJ, Brown S, Nho SJ. High rate of return to run following hip arthroscopy. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
63. Levy DM, **Kuhns BD**, Chahal J, Philippon MJ, Kelly BT, Nho SJ. Hip arthroscopy outcomes with respect to minimal clinically important difference (MCID): A systematic review. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
64. Levy DM, Greenberg M, **Kuhns BD**, Bush-Joseph CA, Nho SJ. Arthroscopic outcomes for atypical hip pain: A comparative matched pair analysis. International Society for Hip Arthroscopy Annual Scientific Meeting Cambridge, England September 2015
65. Wilcox K, **Kuhns BD**, Das A, Marty M, Sligar SG, Klein WL. Alzheimer's HTS using Nanodisc-stabilized synaptic membrane proteins. Best Poster Award. Northwestern University Center for Molecular Innovation and Drug Discovery's 18th Annual Drug Discovery Symposium. Chicago, IL. November 2014.
66. **Kuhns BD**, Lubelski D, Taub J, Benzel EC, Mroz TE. Cost and Quality of Life Outcome analysis following posterior cervical fusion. American Association of Neurological Surgeons Annual Meeting. San Francisco, CA. April 2014.
67. **Kuhns BD**, Lubelski D, Taub J, Benzel EC, Mroz TE. Cost and quality of life analysis of deep wound infections following posterior cervical fusions. Cleveland Clinic Neurological Institute Research Day. Cleveland, OH. May 2013.
68. Wilcox K, Das A, **Kuhns BD**, Marty M, Sligar SG, Klein WL. Alzheimer's drug discovery using Nanodisc-stabilized receptors for oligomeric A β . Northwestern University Cognitive Alzheimer's Disease Center Annual Alzheimer's Disease Day. Chicago, IL. May 2013
69. **Kuhns BD**, Wilcox K, Das A, Marty M, Sligar SG, Klein WL. SMPLs as a platform for High Throughput Screening and Identification of ADDL receptors. Honorable Mention. Lepow Research Day Case Western Reserve University School of Medicine. Cleveland, OH February 2013.
70. Wilcox K, Das A, **Kuhns BD**, Velasco PT, Marty M, Sligar SG, Klein WL. Alzheimer's drug discovery using Nanodisc-stabilized receptors for oligomeric A β . Society for Neuroscience Annual Meeting. New Orleans, LA. October 2012.
71. Wilcox K, Das A, **Kuhns BD**, Velasco PT, Marty M, Sligar SG, Klein WL. Targeting toxic A β oligomer receptors: Cell-free method for receptor identification and high-throughput drug screening using artificial nanoscale membranes. Society for Neuroscience Nanosymposium. Washington DC. November 2011.
72. Wilcox K, Das A, **Kuhns BD**, Velasco PT, Marty M, Sligar SG, Klein WL. Cell-free method to screen for inhibitors of synaptotoxic A β oligomer binding using artificial nanoscale membranes. Alzheimer's Drug Discovery Foundation Annual Meeting. Jersey City, NJ. September 2011.

TEACHING EXPERIENCE

1. Clinical Faculty: Anterior Hip Foundation Annual Meeting. Las Vegas, NV. May 2023

EDUCATIONAL CONFERENCES

1. Orthopedic Research Society Clinician Scholar Career Development Program. Rosemont, Illinois
September 2019

ELECTRONIC MEDIA

1. Heller N, **Kuhns BD**. "A new study spine specialists should not take (some) MRI's lying down"
NASS press release. 11/14/2014.
2. "Preview: 'Best of the Best' Abstract Sessions-Friday November 14" NASS press release
9/17/2014

LICENSURE

1. USMLE Step One: Passed
2. USMLE Step Two: Passed
3. USMLE Step Three: Passed