



Cecilia Pascual-Garrido, MD, PhD

Department of Orthopaedic Surgery
Adult Reconstruction and Young Adult Hip Service
Washington University in St. Louis School of Medicine
660 South Euclid Avenue, MSC 8233-0004-5505
St Louis, MO 63110
Cell: 720-759-8093
Office: 314-747-3580
Email: cpascualgarrido@wustl.edu

ACADEMIC POSITION/EMPLOYMENT:

2016-Present Associate Professor (Clinician Track)
Hip Preservation and Adult Reconstruction
Department of Orthopaedic Surgery/Washington University School of Medicine
St. Louis, MO
December 2016-Present

Pascual-Garrido Lab (PI). NIH Funded, 1K08AR077740-01
Washington University School of Medicine
660 South Euclid Avenue, Campus Box 8233
BJCIH 11th Floor, Room 11306
St. Louis, MO 63110
December 2016-Present

PREVIOUS EMPLOYMENT:

2014-2016 Assistant Professor
Hip Preservation Center
University of Colorado Hospital
Aurora, CO
August 2014-December 2016

EDUCATION:

1994-2000 Medical Degree
René Favaloro Medical University
Buenos Aires, Argentina
Graduated with Honors (9.78/10)

2002-2007 Residence in Orthopedic
Hospital Italiano
Buenos Aires, Argentina

2007-2008 Postdoctoral Research Fellowship
Department of Biochemistry
Rush University Medical Center
Chicago, IL

2008-2009 Research Fellow of Cartilage Restoration Center at Rush

Departments of Orthopedics & Anatomy and Cell Biology Section of
Sports Medicine
Rush University Medical Center
Chicago, IL

- 2010-2011 Sports Fellowship
Barton Lake Tahoe Orthopedic Sports Medicine Fellowship
Lake Tahoe, CA
- 2011-2012 Sports and Shoulder Surgery Fellowship
HSS (Hospital for Special Surgery)
New York, NY
- 2012-2013 Adult Reconstruction Fellowship
University of Colorado Hospital
Aurora, CO
- 2013-2014 Hip Preservation Center
Fellow Instructor
University of Colorado Hospital
Aurora, CO
- 2015-2018 PhD Degree
Universidad Catolica - Buenos Aires, Argentina
“Cartilage Repair with MSCs Delivered in a Novel Hydrogel”
Thesis Defense: December 2018
- 2016-2017 ANCHOR Travelling Award Fellowship
Washington University (Dr. Clohisy)
Mayo Clinic (Drs. Trousdale and Sierra)
Boston Children’s Hospital at Harvard (Drs. Millis, Kim and Novias)

PROFESSIONAL SOCIETIES AND MEMBERSHIPS:

Ordinary Member of ICRS
Associate Member of AOSSM
Associate Member of AAOS
Established Member of ORS
Ordinary Member of ISHA
Active Member of ISAKOS
Associate Member of AAHKS
Invited Member of ANCHOR
Member of Washington University Center of Regenerative Medicine
Candidate Member of the Ruth Jackson Orthopaedic Society (RJOS)

COMMITTEE AND SERVICE RESPONSIBILITIES:

- 2015 COMIRB Panel Reviewer at University of Colorado
2015-2016 AAOT International Scientific Committee
2015-2016 ICRS Educational Committee
2015-2019 AOSSM Research Committee

2016	ORS “How to Engage Orthopedic Surgeons-Short Term Project”
2016-2017	Co-Chair ICRS Educational Committee
2016-2017	ORS Nominating Committee
2018-2021	ISCT Orthopedic & Musculoskeletal Therapies Committee
2019	CSCDP Selection Committee
2020-2025	Arthroscopy Journal Editorial Board Member
2020	Washington University Recon Surgical Skills Liaison
2020	Barnes-Jewish Hospital Periop Services Committee
2021	Washington University Recon Surgical Skills Liaison
2021-2024	NFL Musculoskeletal Committee
2021	Washington University Department of Orthopaedic Surgery Diversity, Equity and Inclusion Committee
2022-2023	ICRS Basic Science Committee
2022-2026	AOSSM Research Committee

CERTIFICATION: United States Medical Licensing Certificated. ECFMG Certified.

2006	Step 2 CK: Pass
2007	Step 1: Pass
2007	Step 2 CS: Pass
2009	Step 3: Pass

LICENSURE:

Nevada
California
New York
Colorado
Missouri

AWARDS AND HONORS:

2005	Orthopedics and Traumatology Argentinean Meeting Residency Award. Mesenchymal and Autologous Chondrocyte Cell-Based Repair of Large Full Thickness Defects of Articular Cartilage.
2005	Argentinean Meeting of Sport Medicine Award. Controversial of Growth Factors in Sports Medicine.
2006	Prof. Dr. Carlos Ottolenghi Research Award. Increased Chondrogenic Capacity of Periosteum Supplemented with Chondrocytes. A Rabbit Model Animal.
2006	SICOT Oral Presentation Award. Fourth SICOT/SIROT Annual International Conference. Mesenchymal Stem Cells and Chondrocytes for the Repair of Large Full Thickness Osteochondral Defects. A Rabbit Model Animal.
2006	Argentina Arthroscopy International Meeting Award. Osteochondral Defects Treated with Progenitor Cells or ACI Rabbit Model.

- 2007 Prof. Dr. Carlos Ottolenghi Research Award. Inoculation of Progenitors Cells in Hip Osteonecrosis - A Study in a Rabbit Model.
- 2015 Sponsored guest by AAOS/ORS for the Biological Treatments for Orthopedics Injuries Research (BTOI) Symposium. Rosemont, Chicago. IL. November 5-7.
- 2015 AAOS/OREF/ORS Clinician Scholar Career Development Program. Rosemont, Chicago, IL. September 17-19.
- 2016 The William Harris Career Development Award in Hip Preservation. ANCHOR Group. Washington University.
- 2016 AOSSM/Sanofi Osteoarthritis. Cartilage Repair with Mesenchymal Stem Cells (MSCs) Delivered in a Novel Chondroitin Sulfate/Polyethylene Glycol Hydrogel in an Equine Animal Model.
- 2018 AAOS 2018 Award of Excellence. The Young Adult Hip: A Contemporary Approach to the Pre-Arthritic Hip Disease. New Orleans, LA. March 6-10.
- 2019 Washington University Department of Orthopaedic Surgery Excellence in Teaching Award
- 2020 United States Bone and Joint Initiative Young Investigator Program. Rosemont, Chicago, IL. April 24-26.
- 2020 Haneda M, Rai MF, O’Keefe RJ, Brophy RH, Clohisy JC, **Pascual-Garrido C**. “Inflammatory Response of Cartilage to FAI in the Hip” Selected to be presented as the Articular Cartilage Video Abstract of the June AJSM Issue.
- 2020 Washington University Department of Orthopedic Surgery Lee T. Ford Career Achievement Award
- 2020 American Journal of Sports Medicine Author Spotlight. Feature Author of the Month. August 2020.
- 2021 AOSSM 2021 Cabaud Memorial Award. Understanding Molecular Pathogenic Pathways in Hip Femoroacetabular Impingement through Transcriptomes and a Small Animal Model.
- 2021 Washington University Department of Orthopaedic Surgery Excellence in Teaching Award
- 2022 The Hip Society’s 2022 Otto Aufranc Award. Identification of Key Molecular Players in the Progression of Hip Osteoarthritis through Transcriptomes and Epigenetics.

GRANTS:

- 2007-2008 Larramendi Grant. Damage and Repair in Cartilage Acute Trauma Model. Madrid, Spain. Mapfre Foundation (20,000 Euros). PI.

- 2015 Research CU Orthopedic Grant. Cartilage Repair by Transplantation of Mesenchymal Stem Cells (MSCs) Delivered in a Chondroitin Sulfate/PEG Hydrogel for Chondral Defects in a Rabbit Animal Model. (20,000 US\$). PI.
- 2016 Zimmer-Biomet Grant. Post-Market Data Collection for Biologically Assisted Core Decompression of the Femoral Head using the Perfuse Instrument and Bio-Cue. (250,000 US\$). PI.
- 2016 AOSSM/Sanofi Osteoarthritis Grant. Cartilage Repair with Mesenchymal Stem Cells (MSCs) Delivered in a Novel Chondroitin Sulfate/Polyethylene Glycol Hydrogel in an Equine Animal Model. (50,000 US\$). PI.
- 2017 MRC JIT Grant. Intraarticular Inflammation in Patients with Hip Dysplasia and Femoroacetabular Impingement. (3,500 US\$). PI.
- 2018 MRC Grant. Muscle Performance after Periacetabular Osteotomy for Hip Dysplasia. (40,000 US\$). PI.
- 2018 OREF/Goldberg Research Grant in Arthritis. Intraarticular Metabolic Activity in the Pre-Osteoarthritic Hip. (50,000 US\$). PI.
- 2020 NIH K08 Clinical Investigator Award, 1K08AR077740-01. Mediators of the OA Cascade in the Pre-Arthritic Hip. (750,000 US\$). PI.
- 2020 OREF Mentored Clinician Scientist Grant. Mediators of the OA Cascade in the Pre-Arthritic Hip. (20,000 US\$). PI.
- 2021 OREF FriedenberG Mentored Clinician Scientist Grant. Mediators of the OA Cascade in the Pre-Arthritic Hip. (20,000 US\$). PI.
- 2022 OREF Etiology of the Hip Osteoarthritis Harris Research Grant. Epigenetic Regulation of Key Molecular Players in the Progression of Hip OA. (250,000 US\$). PI.

BIBLIOGRAPHY

PEER-REVIEWED PUBLICATIONS:

Google Scholar H Index: 32, <https://scholar.google.com/citations?hl=en&user=HQQdcWUAAAAJ>

1. **Pascual-Garrido C.** Periprosthetic Interphase on Femoral Stem and Acetabular Cemented Hip Prosthesis Revision. Vol.1, 2 & 3 in Patología del Aparator Locomotor. (Spain).
2. **Pascual-Garrido C.** An Experimental Non-Union Rat Model. Revista AAOT (Argentina). March 1:87-93.
3. **Pascual-Garrido C.** Prospective Analysis of Ottawa Ankle Rules. Revista AAOT (Argentina). June 2:150-154.
4. **Pascual-Garrido C.** Tibial Pilon Fractures: Minimal Invasive Osteosynthesis Procedure. Revista AAOT (Argentina) November: 125-136.

5. Caviglia H, **Pascual-Garrido C**, Palazzi FF, Meana NV. Pediatric Fractures of the Humerus. Clin Orthop Relat Res. 2005 Mar;(432):49-56.
6. Makino A, Aponte Tinao L, Ayerza MA, **Pascual-Garrido C**, Costa Paz M, Muscolo DL. Anatomic Double-Bundle Posterior Cruciate Ligament Reconstruction Using Double-Double Tunnel with Tibial Anterior and Posterior Fresh-Frozen Allograft. Arthroscopy. 2006 Jun;22(6):684.e1-5.
7. **Pascual-Garrido C**. Mesenchymal and Autologous Chondrocyte Cell-Based Repair of Large Full Thickness Defects of Articular Cartilage. Revista AAOT (Argentina) September;71(3):254-257.
8. **Pascual-Garrido C**, McNickle AG, Cole BJ. Surgical Treatment Options for Osteochondritis Dissecans of the Knee. Sports Health Journal. 2009 Jul;1(4):326-334.
9. **Pascual-Garrido C**, Hakimiyan A, Rappaport L, Oegema T, Wimmer M, Chubinskaya S. Anti-Apoptotic Treatments Prevent Cartilage Degradation After Acute Trauma to Human Ankle Cartilage. Osteoarthritis Cartilage. 2009 Sep;17(9):1244-1251.
10. Grumet RC, **Pascual-Garrido C**, Kirk SS, McNickle AG, Cole BJ, Bach BR. Patología Articular y Meniscal Asociada con la Reconstrucción Primaria del Ligamento Cruzado Anterior. Trauma; 2009 June;20(2):116-125.
11. Cole BJ, **Pascual-Garrido C**, Grumet RC. Surgical Management of Articular Cartilage Defects of the Knee. Journal Bone Joint Surgery. 2009 July;91(7):1778-1790.
12. **Pascual-Garrido C**, Mc-Nickle A, Cole BJ. Tratamiento Quirúrgico de la Osteochondritis Dissecante de Rodilla. Revista Argentina de Artroscopia. 2009 Mayo, Vol 16.
13. **Pascual-Garrido C**, Slabaugh MA, L'Heureux DR, Friel NA, Cole BJ. Recommendations and Treatment Outcomes for Patellofemoral Articular Cartilage Defects with Autologous Chondrocyte Implantation: Prospective Evaluation at Average 4-Year Follow-up. American Journal Sport Med. 2009 Nov;37 Suppl 1:33S-41S.
14. **Pascual-Garrido C**, Friel NA, Kirk SS, McNickle A, Bush-Joseph C, Verma NN, Bach BR, Cole BJ. Midterm results of Surgical Treatments for Adult Osteochondritis Dissecans of the Knee. American Journal Sport Med. 2009 Nov;37 Suppl 1:125S-30S.
15. **Pascual-Garrido C**, Tanoira I, Muscolo DL, Ayerza MA, Makino A. Viability of Loose Body Fragments in Osteochondritis Dissecans of the Knee. A Series of Cases. International Orthopedics. 2010 Aug;34(6):827-31.
16. Cole BJ, **Pascual-Garrido C**, Grumet RC. Surgical management of Articular Cartilage Defects in the Knee. JBJA AM. Instr Course Lect. 2010;59:181-204.
17. Bajaj S, Shoemaker T, Hakimiyan A, Rappoport L, **Pascual-Garrido C**, Oegema TR, Wimmer MA, Chubinskaya S. Protective Effect of P188 in the Model of Acute Trauma to Human Ankle Cartilage: the Mechanism of Action. J Orthop Trauma. 2010 Sep;24(9):571-6.

18. Makino A, **Pascual-Garrido C**, Tanoira I, Rolon A, Isola M, Muscolo DL. Mucoïd Degeneration of the Anterior Cruciate Ligament. MRI, Clinical, Intraoperative and Histological Findings. *Knee Surg Sports Traumatology*. 2011 Mar;19(3):408-11.
19. **Pascual-Garrido C**, Swanson B, Bannar MS. Closed Proximal Muscle Rupture of the Biceps Brachii Among Wakeboarders. *Knee Surg Sports Traumatology*. 2012 Jun;20(6):1019-21.
20. **Pascual-Garrido C**, Rolon A, Makino A. Treatment of Chronic Patellar Tendinopathy with Autologous Bone Marrow Stem Cells. *Stem Cell International Journal*. January 2012;2012:953510.
21. Nemani VM, Frank RM, Reinhardt KR, **Pascual-Garrido C**, Yanke AB, Drakos M, Warren RF. Popliteal Venotomy During Posterior Cruciate Ligament Reconstruction in the Setting of a Popliteal Artery Bypass Graft: A Case Report. *Arthroscopy*. 2012 Feb;28(2):294-9.
22. Ghodadra N, Mall NA, Karas V, Grumet RC, Kirk S, McNickle AG, **Pascual-Garrido C**, Cole BJ, Bach BR Jr. Articular and Meniscal Pathology Associated with Primary Anterior Cruciate Ligament Reconstruction. *J Knee Surg*. 2013 Jun;26(3):185-93.
23. **Pascual-Garrido C**, Swanson BL, Swanson KE. Transtibial Versus Low Anteromedial Portal Drilling for Anterior Cruciate Reconstruction: A Radiographic Study of Femoral Tunnel Position. *Knee Surg Sports Traumatology*. 2013 Apr;21(4):846-50.
24. **Pascual-Garrido C**, Green D, Cole BJ. Surgical Osteochondritis Dissecans of the Knee in Children and Adolescents. *Current Opinion in Pediatrics*. 2013 Feb;25(1):46-51.
25. **Pascual-Garrido C**, Carbo L, Makino A. Revision of Anterior Cruciate Ligament Reconstruction with Allografts in Patients Younger Than 40 Years Old: A 2 to 4 Year Result. *Knee Surg Sports Traumatol Arthrosc*. 2014 May;22(5):1106-11.
26. Angeline ME, Ma R, **Pascual-Garrido C**, Voigt C, Deng, XH, Warren RF, Rodeo SA. The Effect of Diet-Induced Vitamin D Deficiency on Rotator Cuff Healing in a Rat Model. *Am J Sports Med*. 2014 Jan;42(1):27-34.
27. Mei-Dan O, **Pascual-Garrido C** et al. Inside Out: A Novel Labral Repair and Advancement Technique. *Arthrosc Tech*. 2014 Mar 21;3(2):e241-4.
28. Mei-Dan O, McConkey MO, Bravman JT, Young DA, **Pascual-Garrido C**. Percutaneous Derotational Femoral Osteotomy for Excessive Femoral Torsion. *Orthopedics*. 2014 Apr;37(4):243-9.
29. Moran CJ, **Pascual-Garrido C**, Chubinskaya S, Potter HG, Warren RF, Cole BJ, Rodeo SA. Restoration of Articular Cartilage. *JBJS Am. J Bone Joint Surg Am*. 2014 Feb 19;96(4):336-44.
30. **Pascual-Garrido C**, McConkey MO, Young DA, Bravman JT, Mei-Dan O. Can Hip Arthroscopy be Performed with Conventional Knee-Length Instrumentation? *Arthroscopy*. 2014 Dec;30(12):1588-94.
31. Nacius LA, **Pascual-Garrido C**, Sagiv P, Mei-Dan O. Skin Closure After Arthroscopy Utilizing a Pull-Out Bow-Tie Subcuticular Suture. *Muscles Ligaments Tendons J*. 2015 Feb 5;4(4):404-6.

32. Chahla J, **Pascual-Garrido C**, Rodeo SA. Ligament Reconstruction in Congenital Absence of the Anterior Cruciate Ligament: A Report of Two Cases. *HSS J.* 2015 Jul;11(2):177-81.
33. Mei-Dan O, **Pascual-Garrido C**, Moreira B, McConkey MO, Young DA. The Role of Hip Arthroscopy in Investigating and Managing the Painful Hip Resurfacing Arthroplasty. *Arthroscopy.* Nov. S0749-8063(15)00707-0.
34. Chadayammuri V, Garabekyan T, Jesse MK, **Pascual-Garrido C**, Strickland C, Milligan K, Mei-Dan O. Measurement of Lateral Acetabular Coverage: A Comparison Between CT and Plain Radiography. *Journal of Hip Preservation Surgery.* 2015 2(4):392-400.
35. Moreira B, **Pascual-Garrido C**, Chadayamurri V, Mei-Dan O. Eversion-Inversion Labral Repair and Reconstruction Technique for Optimal Suction Seal. *Arthrosc Tech.* 2015 Nov 16;4(6):e697-700
36. Mei-Dan O, Garabekyan T, McConkey M, **Pascual-Garrido C**. Arthroscopic Anterior Capsular Reconstruction of the Hip for Recurrent Instability. *Arthrosc Tech.* 2015 Nov 16;4(6):e711-5.
37. Chadayammuri V, Garabekyan T, Bedi A, **Pascual-Garrido C**, Rhodes J, O'Hara J, Mei-Dan O. Passive Hip Range of Motion Predicts Femoral Torsion and Acetabular Version. *J Bone Joint Surg Am.* 2016 Jan 20;98(2):127-34.
38. Garabekyan T, Chadayammuri V, **Pascual-Garrido C**, Mei-Dan O. Arthroscopic Bone Grafting of Deep Acetabular Cysts Using a Curved Delivery Device. *Arthrosc Tech.* 2016 Feb 1;5(1):e113-9. doi: 10.1016/j.eats.2015.10.012. eCollection 2016 Feb.
39. Chahla J, Dean CS, **Pascual-Garrido C**. Proximal Rectus Femoris Avulsion Repair. *Arthroscopy Techniques.* 2016 May 30;5(3):e545-9.
40. **Pascual-Garrido C**, Morris BL, Dayton MR. Clinical and Functional Outcomes of the Birmingham Hip Resurfacing System. *Orthopedics.* 2016 Mar-Apr;39(2):e236-9.
41. Garabekyan T, Chadayammuri V, **Pascual-Garrido C**, Mei-Dan O. All Arthroscopic Ligamentum Teres Reconstruction with Graft Fixation at the Femoral Head- Neck Junction. *Arthroscopy Techniques.* February 2016 Feb 15;5(1):e143-7.
42. **Pascual-Garrido C**, Schrock JB, Mitchell JJ, Camino Willhuber G, Mei-Dan O, Chahla J. Arthroscopic Fixation of Os Acetabuli Technique: When to Resect and When to Fix. *Arthroscopy Techniques.* 2016 Oct 10;5(5):e1155-e1160.
43. Chahla J, Dean CS, Moatshe G, **Pascual-Garrido C**, Serra Cruz R, LaPrade RF. Concentrated Bone Marrow Aspirate for the Treatment of Chondral Injuries and Osteoarthritis of the Knee: A Systematic Review of Outcomes. *OJSM.* 2016 Jan 13;4(1): 2325967115625481.
44. Chahla J, Dean CS, **Pascual-Garrido C**. Core Decompression Augmented with Autologous Bone Marrow Aspiration Concentrate for Early Avascular Necrosis of the Femoral Head. *Arthroscopy Techniques.* 2016 Jun 13;5(3):e615-20.

45. Chahla J, LaPrade RF, Mardones R, Huard J, Philipppn MJ, Nho S, Mei-Dan O, **Pascual-Garrido C**. Biological Therapies for Cartilage Lesions in the Hip: A New Horizon. *Orthopedics*. 2016 Jul 1;39(4):e715-23.
46. Garabekyan T, Ashwell ZR, Chadayammuri V, Jesse MK, **Pascual-Garrido C**, Petersen B, Mei-Dan O. Lateral Acetabular Coverage Predicts Size of the Hip Labrum. *AJSM (American Journal Sports Medicine)*. 2016 Jun;44(6):1582-9.
47. **Pascual-Garrido C**, Angeline ME, Chahla J, Voigt C, Deng XH, Nguyen J, Warren RF, Rodeo SA. Low levels of Vitamin D Have a Deleterious Effect on the Articular Cartilage in a Rat Model. *HSS Journal*. 2016 Jul;12(2):150-7.
48. Chahla J, Olivetto J, Mei-Dan O, **Pascual-Garrido C**. Terapias Biologicas de las Lesiones del Cartilago de la Cadera. *Revista Latinoamericana de Cirugia Ortopedica*. 2016 (1):37-46.
49. Chahla J, PiuZZi NS, Mitchell JJ, Dean CS, **Pascual-Garrido C**, LaPrade RF, Muschlet GF. Intra-articular Cellular Therapy for Osteoarthritis and Focal Cartilage Defects of the Knee: A Systematic Review of the Literature and Study Quality Analysis. *J Bone Joint Surg Am*. 2016 Sep 21;98 (18):1511-21.
50. **Pascual-Garrido C**, Daley E, Verma, NN, Cole BJ. A Comparison of the Outcomes for Cartilage Defects of the Knee Treated with Biologic Resurfacing versus Focal Metallic Implants. *Arthroscopy*. 2017 Feb;33(2):364-373.
51. **Pascual-Garrido C**, Hao J, Schrock J, Mei-Dan O, Chahla J. Arthroscopic Juvenile Allograft Cartilage Implantation for Cartilage Lesions in the Hip. *Arthroscopy Techniques*. 2016 Aug 22;5(4):e929-e933.
52. Chahla J, Olivetto J, **Pascual-Garrido C**. Terapias Biologicas para el Tratamiento de las Lesions del Cartilago de la Cadera. *Revista Latinoamericana de Ortopedia*. 2016 Jan-March;1(1):37-46.
53. Kraeutler MJ, Chahla J, Dean CS, Mitchell JJ, Pinney SJ, **Pascual-Garrido C**. Current Concepts Review Update: Osteochondral Lesions of the Talus. *Foot Ankle Int*. 2017 Mar;38(3):331-342.
54. Kraeutler MJ, Garabekyan T, **Pascual-Garrido**, Mei-Dan O. Ligamentum Teres Tendinopathy and Tears. *Muscles, Ligaments Tendons J*. 2016 Dec 21;6(3):337-342.
55. Kraeutler MJ, Garabekyan T, **Pascual-Garrido C**, Mei-Dan O.: A review of Hip Dysplasia and other Contributing Factors. *Muscles, Ligaments Tendons J*. 2016 Dec 21;(3):343-353.
56. Ashwell ZR, Flug J, Chadayammuri V, **Pascual-Garrido C**, Garabekyan T, Mei-Dan O. Lateral Acetabular Coverage as a Predictor of Femoroacetabular Cartilage Thickness. *J of Hip Preserv Surg*. 2016 November 10;3(4):262-269.
57. Chadayammuri V, **Pascual-Garrido C**, Garabekyan T, Kraeutler MJ, Milligan K, Bedi A, Mei-Dan O. Effect of General Anesthesia on Preoperative Hip Range of Motion in Patients Undergoing Hip Arthroscopy. *Orthopedics*. 2016 Nov 29;39(6):e1165-e1169.

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59. Rodriguez-Fontan F, Chahla J, Piuzzi NS, Payne K, Muschler GF, LaPrade RF, **Pascual-Garrido C**. Celulas Madre y Progenitora Para la Reparacion del Cartilage Articular. *Rev Latinoam, Cir Orthop*. 2016 April-June;1(2):66-76.
60. Rodriguez-Fontan F, Piuzzi NS, Chahla J, Payne K, LaPrade RF, Muschler GF, **Pascual-Garrido C**. Stem and Progenitor Cells for Cartilage Repair: Source, Safety, Evidence and Efficacy. *Operative Techniques in Sports Medicine*. 2017 March 25(1):25-33.
61. Piuzzi NS, Chahla J, Schrock J, LaPrade RF, **Pascual-Garrido C**, Mont MA, Muschler GF. Evidence for the Use of Cell-Based Therapy for the Treatment of Osteonecrosis of the Femoral Head: A Systematic Review of the Literature. *J Arthroplasty*. 2017 May;32(5):1698-1708.
62. Hatakeyama A, Uchida S, Utsunomiya H, **Pascual-Garrido C**, Sekiya H. Isolation and Characterization of Synovial Mesenchymal Stem Cell Derived from Hip Joints: A Comparative Analysis with a Matched Control Knee Group. *Stem Cells International*. 2017 Jan;1(6).
63. Kraeutler MJ, Mitchell J, Chahla J, McCarty E, **Pascual-Garrido C**. Intra-articular implantation of Mesenchymal stem cells, Part 1. A review of the Literature in Prevention of Post-Menisectomy OA. *Orthop J Sports Med*. 2017 Jan 19;5(1):2325967116680815.
64. Kraeutler MJ, Mitchell JJ, Chahla J, McCarty EC, **Pascual-Garrido C**. Intra-articular Implantation of Mesenchymal Stem Cells, Part 2. A Review of the Literature for Meniscal Regeneration. *Orthop J Sports Med*. 2017 Jan 19;5(1):2325967116680814.
65. Dallo I, Chahla J, **Pascual-Garrido C**, Feagan JA, LaPrade RF. Biological Approaches for the Treatment of Partial Tears of the Anterior Cruciate Ligament. *Current Concepts Review. Orthop J Sports Med*. 2017 Jan 25;5(1):2325967116681724.
66. Chahla J, Sanchez G, Moatshe G, Richards A, Van der Walt CJ, **Pascual-Garrido C**. Vascular Coloration for Anatomical Study of the Pelvis and Hip: Implications in Hip Preservation Surgery. *Arthrosc Tech*. 2017 Feb;6(1):e133-e136.
67. Uchida S, **Pascual-Garrido C**, Ohnishi Y, Utsunomiya H, Yukizawa Y, Chahla J, Sakai A. Arthroscopic Shoelace Capsular Closure Technique in the Hip Using Ultratape. *Arthroscop Tech*. 2017, Feb;6(1):157-161.
68. Uchida S, Utsunomiya H, Honda E, Kanazaki S, Nakamura E, **Pascual-Garrido C**, Sakai A. Arthroscopic Osteochondral Autologous Transplantation for the Treatment of Osteochondritis Dissecans of the Femoral Head. *SICOT J*. 2017;3:18. doi: 10.1051/sicotj/2016044. Epub 2017 Mar 6.
69. Piuzzi NS, Chahla J, Jiandong H, Chughtai M, LaPrade RF, Mont MA, Muschler GF, **Pascual-Garrido C**. Analysis of Cell Therapies Used in Clinical Trials for the Treatment of Osteonecrosis of the Femoral Head: A Systematic Review of the Literature. *J Arthroplasty*. 2017 Mar 15. pii: S0883-5403(17)30195-X.
70. Kraeutler MJ, Anderson J, Chahla J, Mitchell JJ, Thompson-Etzel R, Mei-Dan O, **Pascual-Garrido C**. Returning to Running After Arthroscopic Hip Surgery: Literature Review and

- Proposal of a Physical Therapy Protocol. *Journal of Hip Preservation Surg.* 2017 Apr 11;4(2):121-130.
71. Ohnishi Y, **Pascual-Garrido C**, Kumagae H, Sakai A, Uchida S. Arthroscopic Technique for Isolated Posterolateral Rotational Instability of the Knee. *Arthosc Tech.* 2017 Mar 6;6(2):e291-e295.
 72. Pascual-Garrido C, Harris MD, Clohisy JC. Innovations in Joint Preservation Procedures for the Dysplastic Hip "The Periacetabular Osteotomy." *J Arthroplasty.* 2017 Sep;32(9S):S32-S37. doi: 10.1016/j.arth.2017.02.015. Epub 2017 Feb 14.
 73. Rodriguez-Fontan F, **Pascual-Garrido C**. Hidrogeles de Formacion In Situ e Hidrogeles tri-Dimensionales: Fuentes Potenciales para la Regeneracion de Cartilage Articular. *SLAOT* 2017.
 74. Kraeutler MJ, Chahla J, LaPrade RF, **Pascual-Garrido C**. Biologic Options for Articular Cartilage Wear (Platelet-Rich Plasma, Stem Cells, Bone Marrow Aspirate Concentrate). *Clin Sports Med.* 2017 Jul;36(3):457-468.
 75. **Pascual-Garrido C**, Rodriguez-Fontan F, Bryant SJ, Aisenbrey EA, Chahla J, Payne KA, Goodrich LR. Mesenchymal Stem Cells (MSCs) Delivered in a Novel Hydrogel for the Treatment of Chondral Defects in a Rabbit Animal Model. *Journal of Orthopaedic Research.* 2017 35; Supplement 1.
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109. Jimenez ML, Haneda M, **Pascual-Garrido C**. The Hip Arthroscopy Post-less Procedure Impingement (HAPPI) Technique: Achieving Distraction with Standard Hip Tables at Zero Additional Cost. *Arthrosc Tech*. 2020 Nov 11;9(11):e1697-e1701. doi: 10.1016/j.eats.2020.07.012. eCollection 2020 Nov.
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115. **Pascual-Garrido C**, Kamenaga T, Brophy RH, Shen J, O'Keefe RJ, Clohisy JC. Otto Aufranc Award: Identification of Key Molecular Players in the Progression of Hip Osteoarthritis through Transcriptomes and Epigenetics. *J Arthroplasty*. 2022 Jul;37(7S):S391-S399. doi: 10.1016/j.arth.2022.03.013. Epub 2022 Mar 12.
116. Kamenaga T, Haneda M, Brophy RH, O'Keefe RJ, Clohisy JC, **Pascual-Garrido C**. A Novel Model of Hip Femoroacetabular Impingement in Immature Rabbits Reproduces the Distinctive Head-Neck Cam Deformity. *Am J Sports Med*. 2022 Jun;50(7):1919-1927. doi: 10.1177/03635465221090645. Epub 2022 Apr 13.
117. Payne ER, Harris MD, Harris-Hayes M, Nahal C, Kamenaga T, Clohisy JC, **Pascual-Garrido C**. Greater Hip Abductor Size in Pre-arthritic Patients with Developmental Dysplasia of the Hip vs. Femoroacetabular Impingement. *J Orthop Res*. 2022 Aug 10. doi: 10.1002/jor.25426. Online ahead of print.
118. Schwabe MT, Clohisy, JC, A Graesser E, **Pascual-Garrido C**, Nepple JJ. External Validation of the FEAR Index in Borderline Acetabular Dysplasia. *Orthop J Sports Med*. 2022 Aug11;10(8):23259671221113837. doi: 10.1177/23259671221113837. eCollection 2022 Aug.
119. Kahn AZ, Abu-Amer W, Thapa S, Parilla FW, **Pascual-Garrido C**, Nepple JJ, Clohisy JC. Factors Associated with Disease Progression in the Contralateral Hip of Patients with Symptomatic Femoroacetabular Impingement: A Minimum Five-year Analysis. *Am J Sports Med*. 2022 Oct;50(12):3174-3183. doi: 10.1177/03635465221119509. Epub 2022 Aug 26.
120. Nahal C, Slullitel PA, Kamenaga T, Payne ER, Nepple JJ, Clohisy JC, **Pascual-Garrido C**. Acetabular Coverage Analysis of the Proximal Femoral Head Accurately Characterizes Dysplastic Acetabular Morphology. *Clin Orthop Relat Res*. 2022 Nov 12. doi: 10.1002/jor.25479. Online ahead of print.

SUBMITTED FOR PUBLICATION (IN PRESS OR UNDER REVIEW):

1. Inclan, PM, Schwabe MT, Song BM, Kuhn, AW, Clohisy JC, **Pascual-Garrido C**. Gluteus Maximus Transfer for Hip Abductors Deficiency. *Arthroscopy Tech*. Under Review 2022.
2. Kamenaga T, Shen J, Wu M, Brophy RH, Clohisy JC, O'Keefe RJ, **Pascual-Garrido C**. Epigenetic Dysregulation of Articular Chondrocytes during Progression of Hip Femoroacetabular Impingement Disease. *J Orthop Res*. Accepted 2023.

BOOK EDITOR:

1. Jorge Chahla, Justin Mitchell, **Cecilia Pascual-Garrido** and Mark Philippon. *Hip Arthroscopy. From Basic Skills to Advanced Techniques*. 2016.

BOOK CHAPTERS:

1. **Pascual-Garrido C**. Results and Complications on Knee Revision Surgery. Ortego Andreau; Rodriguez-Merchan and Alonso Carro. *Revision Arthroplasty of the Knee*. Editorial Panamericana (Spain) Chapter 17. 2001.

2. **Pascual-Garrido C.** Synoviorthesis in Patients with High Responder Inhibitors. Rodriguez-Merchan EC and Lee CA. Inhibitors in Patients with Hemophilia. Blackwell Science (England). Chapter 9: 124-129. 2002.
3. **Pascual-Garrido C.** Tissue Engineering for Articular Cartilage. Regenerative Medicine and Stem Cells (Argentina). Pp: 197-205. From Cell Therapy to Tissue Engineering. Pablo Argibay-Unver Nacional de Quilmes Ed. 2006.
4. Cole BJ, **Pascual-Garrido C**, Grumet RC. Overview and Indications for Articular Cartilage Restoration in Advanced Reconstruction of the Knee, Ed. Lieberman, Berry, Azar. Chapter 53. 2011.
5. Osteochondritis Dissecans. Master Techniques in Orthopaedic Surgery: Sports Medicine. Editor: Freddie H. Fu, M.D. **Pascual-Garrido C**, Slabaugh M, Friel N, Cole BJ. 2011.
6. **Pascual-Garrido C**, Chubinskaya S. Potential Targets for Pharmacological Therapies. Posttraumatic Arthritis: Pathogenesis, Diagnosis and Management. 2015.
7. **Pascual-Garrido C**, Rodeo SA. Biology of Cartilage Regeneration in the Articular Lesions: Prevention and Treatment. McCarthy, Villar & Noble: Diagnosis and Surgical Treatment of Hip Disease. 2015.
8. Kraeutler MJ, Richards A, Chahla J, LaPrade RF, **Pascual-Garrido C**. Biologic Options for Articular Cartilage Wear. Edited by McCarty. Chapter 4. 2016.
9. **Pascual-Garrido C** et al. Pelvis, Hip and Thigh Injuries. Netter's Sports Medicine, 2nd Edition. Edited by Dr. Christopher Madden, Margot Putukian, Craig Young and Eric McCarty. Chapter 54. 2016.
10. Yamada K, **Pascual-Garrido C**, Uchida S. Hip Surgery: Tricks of the Trade (ed. Dr. Allston Stubbs). Thieme Publishers. Chapter 16. 2018.
11. Engstrom S, Clohisy JC, **Pascual-Garrido C**. Hip Surgery: Tricks of the Trade (ed. Dr. Allston Stubbs). Thieme Publishers. Chapter 46. 2018
12. Edelstein A, Clohisy JC, **Pascual-Garrido C**. Hip Surgery: Tricks of the Trade (ed. Dr. Allston Stubbs). Thieme Publishers. Chapter 47. 2018
13. O'Keefe RJ, **Pascual-Garrido C**, Clever D. Orthopedic Knowledge Update 14. Section 2 Translational Science and Emerging Technologies. Wolters Kluwer. Chapter. 2021.
14. West CR, Slullitel PA, De-Cicco RL, **Pascual-Garrido C**. AAOS Resident Curriculum Basic Science Subspecialty. Basic Science, Tissue Repair and Regeneration Section. Chapter 21.B Hip Labrum. 2021.
15. Kamenaga T, Haneda M, **Pascual-Garrido C**. Hip Arthroscopy and Hip Joint Preservation Surgery. Hip Cartilage Restoration: Overview. Springer. Chapter 156. 2022.

INVITED PROFESSOR GRAND ROUNDS:

1. Speaker, The Pre-Arthritic Hip Disease: From Bedside to Bench. University of Michigan Grand Rounds. Ann Arbor, MI. April 7, 2022.
2. Speaker, The Pre-Arthritic Hip Disease: From Bedside to Bench. University of Colorado Grand Rounds. Aurora, CO. May 4, 2022.

COURSE CO-DIRECTOR:

1. St. Louis Hip Skills Course 2022: Hip Arthroscopy and Open Preservation Procedures. St Louis, MO. August 26-27, 2022. Chairman: John C. Clohisy, Course Co-Directors: Jeffrey J. Nepple and Cecilia Pascual-Garrido.

INVITED LECTURES:

1. Speaker, ICRS Annual Meeting. Treatment of Chondral Defects of the Knee. Miami, FL. 2009.
2. Speaker, AAOT (Asociacion Argentina de Ortopedia y Traumatologia). Hip Preservation Course. Buenos Aires, Argentina. 2014.
3. Speaker, AOSSM ICL Course. The Active Hip – From Hip Dysplasia to FAI and In-Between: An Approach to Open and Arthroscopic Management. Seattle, WA. 2014.
4. Speaker, Hip Dysplasia in Active Patients. Barton Memorial Hospital. South Lake Tahoe, CA. 2014.
5. Moderator, ICRS Annual Meeting. Hip Cartilage Session. Chicago, IL. May 8-13, 2015.
6. Speaker, Vail Scientific Summit: Engaging the Greatest Minds in Regenerative Medicine and Science. “Novel Scaffolds Bioprinting in Orthopedics.” Vail, CO. 2016.
7. Speaker, ISHA ICL Course: Treatments for Femoral Head Cartilage Management: Results & Tricks: OATS, MACI, MCFX, Cells. 2016.
8. Speaker, Cartilage Repair in the Hip. Fukuoka Department of Orthopedics, Wakamatsu Hospital for the University of Occupational and Environmental Health. Fukuoka, Japan. 2016.
9. Moderator, ORS Annual Meeting. Cartilage Healing and Gene Therapy. Orlando, FL. March 5-8, 2016.
10. Leader Faculty, AOSSM Annual Meeting. ICL Course. Biologics in Treatments for Orthopedics Injuries. Colorado Springs, CO. July 7-10, 2016.
11. Speaker, Treatment of Hip and Knee Disorders Course. Cartilage Damage and Regenerations Options in the Hip. Washington University. St. Louis, MO. November 19, 2016.
12. Speaker, Treatment of Hip and Knee Disorders Course. Hip Resurfacing. Washington University. St. Louis, MO. November 19, 2016.
13. Speaker, PAO: Role of Adjunct Procedures. St. Louis Hip Skills Course 2018: Hip Arthroscopy and Preservation Procedures. St. Louis, MO. January 19-20, 2018.

14. Speaker, Cartilage in the Good News – Bad News– Current and Future Products/Therapies Session. ISCT Signature Symposium on Cellular Therapies for Orthopaedics. Montreal, Canada. May 2, 2018.
15. Speaker, AOSSM Osteoarthritis Research – What’s been done and what do we need to do?, Mesenchymal Stem Cells Delivered in a Novel Cartilage Mimetic Hydrogel for the Treatment of Focal Chondral Lesions in an Equine Animal Model. AOSSM Biologics in Post-Traumatic Osteoarthritis Symposium 2018. Washington, DC. November 1-2, 2018.
16. Speaker, Other Joints (Shoulder/Hip/Ankle), Pattern of Inflammatory Molecules in Cartilage of the Impingement Zone in FAI Hips Suggests Origin of Hip Degeneration. AOSSM Biologics in Post-Traumatic Osteoarthritis Symposium 2018. Washington, DC. November 1-2, 2018.
17. Speaker, SLOAT (Latin American Society of Orthopedics) Congress. Hip Preservation for Latinoamerica. Lima, Peru. May 8-10, 2019.
18. Speaker, The Pre-OA Hip: From Bench to Bedside Workshop. ICORS Annual Meeting. Montréal, Canada. June 19-22, 2019.
19. Speaker, The Principles in Hip Arthroscopy: Iberia-LAT Meeting. Madrid, Spain. October 16, 2019.
20. Speaker, ISHA Annual Scientific Meeting. Madrid, Spain. October 17-19, 2019.
21. Moderator, Reconstructive Hip Surgery Session. 2019 Innovations in the Treatment of Hip and Knee Disorders CME Course. St. Louis, MO. November 16, 2019.
22. Speaker, The Peritrochanteric Space of the Hip. 2019 Innovations in the Treatment of Hip and Knee Disorders CME Course. St. Louis, MO. November 16, 2019.
23. Speaker, Hip Arthroscopy: Labral Reconstruction – When and How? St. Louis Hip Skills Course 2019: Hip Arthroscopy and Preservation Procedures. St. Louis, MO. January 31-February 1, 2020.
24. Speaker, Common Causes of Hip Arthroscopy Failure. St. Louis Hip Skills Course 2019: Hip Arthroscopy and Preservation Procedures. St. Louis, MO. January 31-February 1, 2020.
25. Panelist, Platelet Rich Plasma Section. Equine Regenerative Medicine and Orthobiologics Online Summit 2020. October 12, 2020.
26. Speaker, First Argentine Congress of Orthopedics and Traumatology. Online. November 27-December 2, 2020.
27. Faculty Member, What Are We Really Treating in the Pre-OA Joint? Do We Really Need All This Magic? ICRS Virtual Convention II. June 2-3, 2021.
28. Speaker, AOSSM-AANA Combined Annual Meeting. Nashville, TN. July 7-11, 2021.
29. Speaker, Revealing the Early Mechanism of Hip OA through a Natural Model of Pre-OA. ORS Annual Meeting. Tampa, FL. February 4-8, 2022.
30. Co-Moderator, Adult Hip Paper Session on Hip Preservation. AAOS Annual Meeting. Chicago, IL. March 22-26, 2022.

31. Faculty Breakout Room Moderator, George Washington University Medical Center Medical Student Orthopedic Symposium. Online. April 10, 2022.
32. Keynote Speaker, OREF Midwest Region Resident Research Symposium. St. Louis, MO. October 10, 2022.
33. Speaker, Revealing the Early Mechanism of Hip OA through a Natural Model of Pre-OA. Arthritis Foundation / HSS Meeting on Hip OA. New York, NY. February 16-18, 2022.
34. Speaker, Revealing the Early Mechanism of Hip OA and State of the Art in the Treatment of the Young Adult Hip Disease. 96th Annual Meeting of the Japanese Orthopaedic Association. Yokohama, Japan. May 11-14, 2023.

MENTORSHIP:

Mentor for Deborah Li, MD, Orthopedic Resident, University of Florida, Miami
 Mentor for Francisco Rodriguez Merchan, MD, Orthopaedic Resident, University of Colorado, Denver
 Mentor for Masahiko Haneda, MD, PhD, Faculty, Orthopaedic Surgery, Kobe University, Japan
 Mentor for Maria Schwabe, MD, Orthopaedic Resident, Washington University
 Mentor for Ugochi Okoroafor, MD, Former Orthopaedic Surgeon, Washington University
 Mentor for Sarah Ballatori, MD, Orthopaedic Resident, Washington University
 Mentor for Emma Payne, Medical Student, TL1 Predoctoral Program, Washington University
 Mentor for Chadi Nahal, Medical Student, St. Louis University, TL1 Predoctoral Program, Washington University
 Mentor for Elizabeth (Ellie) Kaji, Medical Student, University of Missouri-Kansas City, TL1 Predoctoral Program, Washington University

TEAM COVERAGE:

2011-2012 Assistant Physician, the Mets. NBL. New York, New York.
 2011 Assistant Physician, the US-Open. Tennis. New York, New York.
 2011-2012 Assistant Physician, the Knicks. NBA. New York, New York.
 2011-2012 Physician, Tootenville High School Football. Staten Island, New York.

JOURNAL REVIEWER:

Journal of Orthopedic Research (JOR)
 ORS Abstracts Reviewer
 Journal of ISAKOS
 American Journal of Sports Medicine (AJSM)
 Journal of Bone and Joint Disease (JBJS Am)
 F1000 Prime Associate Faculty Member
 Journal of the American Academy of Orthopaedic Surgeons (JAAOS)
 Arthroscopy Journal