

**Relevant publications from our group, on the topic of using single-detector OCT to assess different pathologies:**

1. M. E. Brezinski, "Current capabilities and challenges for optical coherence tomography as a high-impact cardiovascular imaging modality," *Circulation* **123**, 2913-2915 (2011).
2. K. Zheng, S. D. Martin, C. H. Rashidifard, B. Liu, and M. E. Brezinski, "In vivo micron-scale arthroscopic imaging of human knee osteoarthritis with optical coherence tomography: comparison with magnetic resonance imaging and arthroscopy," *Am. J. Orthop.* **39**, 122-125 (2010).
3. K. Zheng, C. Rashidifard, B. Liu, and M. E. Brezinski, "Comparison of artifact generation with catheter bending using different PS-OCT approaches," *Reports in Medical Imaging* **2**, 49-54 (2009).
4. M. E. Brezinski, "Applications of optical coherence tomography to cardiac and musculoskeletal diseases: bench to bedside?" *Journal Of Biomedical Optics* **12**, 051705 (2007).
5. S. D. Giattina, B. K. Courtney, P. R. Herz, M. Harman, S. Shortkroff, D. L. Stamper, B. Liu, J. G. Fujimoto, and M. E. Brezinski, "Assessment of coronary plaque collagen with polarization sensitive optical coherence tomography (PS-OCT)," *International Journal Of Cardiology* **107**, 400-409 (2006).
6. S. Shortkroff, S. D. Giattina, B. K. Courtney, P. R. Herz, D. L. Stamper, J. J. Fugimoto, and M. E. Brezinski, "Collagen content of coronary plaque measured by polarization sensitive optical coherence tomography (PS-OCT)," *Journal Of The American College Of Cardiology* **47**, 121A-121A (2006).
7. S. B. Adams, P. R. Herz, D. L. Stamper, M. J. Roberts, S. Bourquin, N. A. Patel, K. Schneider, S. D. Martin, S. Shortkroff, J. G. Fujimoto, and M. E. Brezinski, "High-resolution imaging of progressive articular cartilage degeneration," *Journal Of Orthopaedic Research* **24**, 708-715 (2006).
8. B. Liu, M. Harman, S. Giattina, D. L. Stamper, C. Demakis, M. Chilek, S. Raby, and M. E. Brezinski, "Characterizing of tissue microstructure with single-detector polarization-sensitive optical coherence tomography," *Applied Optics* **45**, 4464-4479 (2006).
9. N. A. Patel, X. Li, D. L. Stamper, J. G. Fujimoto, and M. E. Brezinski, "Using optical coherence tomography to guide articular cartilage ablation," *Am J Orthop (Belle Mead NJ)* **34**, 111-115 (2005).
10. N. A. Patel, J. Zoeller, D. L. Stamper, J. G. Fujimoto, and M. E. Brezinski, "Monitoring osteoarthritis in the rat model using optical coherence tomography," *Ieee Transactions On Medical Imaging* **24**, 155-159 (2005).

11. B. Liu, M. Harman, and M. E. Brezinski, "Variables affecting polarization-sensitive optical coherence tomography imaging examined through the modeling of birefringent phantoms," *Journal Of The Optical Society Of America A-Optics Image Science And Vision* **22**, 262-271 (2005).
12. X. D. Li, S. Martin, C. Pitris, R. Ghanta, D. L. Stamper, M. Harman, J. G. Fujimoto, and M. E. Brezinski, "High-resolution optical coherence tomographic imaging of osteoarthritic cartilage during open knee surgery," *Arthritis Research & Therapy* **7**, R318-R323 (2005).
13. S. D. Martin, N. A. Patel, S. B. Adams, M. J. Roberts, S. Plummer, D. L. Stamper, M. E. Brezinski, and J. G. Fujimoto, "New technology for assessing microstructural components of tendons and ligaments," *International Orthopaedics* **27**, 184-189 (2003).
14. M. J. Roberts, S. B. Adams, N. A. Patel, D. L. Stamper, M. S. Westmore, S. D. Martin, J. G. Fujimoto, and M. E. Brezinski, "A new approach for assessing early osteoarthritis in the rat," *Analytical And Bioanalytical Chemistry* **377**, 1003-1006 (2003).
15. S. B. Adams, M. J. Roberts, P. R. Herz, N. A. Patel, S. Bourquin, S. D. Martin, D. L. Stamper, J. G. Fujimoto, and M. E. Brezinski, "In vivo optical coherence tomographic assessment of osteoarthritis progression," *Arthritis And Rheumatism* **48**, 552 (2003).
16. W. Drexler, D. Stamper, C. Jesser, X. D. Li, C. Pitris, K. Saunders, S. Martin, M. B. Lodge, J. G. Fujimoto, and M. E. Brezinski, "Correlation of collagen organization with polarization sensitive imaging of in vitro cartilage: Implications for osteoarthritis," *Journal Of Rheumatology* **28**, 1311-1318 (2001).
17. J. M. Herrmann, C. Pitris, B. E. Bouma, S. A. Boppart, C. A. Jesser, D. L. Stamper, J. G. Fujimoto, and M. E. Brezinski, "High resolution imaging of normal and osteoarthritic cartilage with optical coherence tomography," *Journal Of Rheumatology* **26**, 627-635 (1999).