



**Tommaso Bonanzinga, MD**  
**Istituto Clinico Humanitas, Milano, Italy**

Orthopaedic surgeon, former staff member I Orthopaedic Clinic led by Prof. Marcacci (Rizzoli Orthopaedic Institute).  
Assistant Professor, University of Bologna.

From 21\01\2014 to 21\03\2014 Fellow in Sport Medicine at Sports Medicine Service, Beijing Jishuitan Hospital, China led by Prof. Feng Hua.

From 01\06\2015 to 25\01\2016 Fellow hip and knee revision arthroplasty at Elios Endo-Klinik, Hamburg (Germany) led by Prof Torsten Gerhke.

President of Federation of Orthopaedic Trainees in Europe (FORTE)

Former President of Italian Association of Orthopaedic Residents (AISOT)

Member of Knee Committee of Italian Specialty Society in Knee Surgery and Sport Medicine (SIGASCOT). Faculty member in several SIGASCOT meetings and courses.

Member of Honorary Member Committee of Italian Society of Orthopaedics and Traumatology (SIOT)

Reviewer for the following scientific Journal on Index Medicus:

KSSTA (Knee Surgery, Sports Traumatology, Arthroscopy),

BMC Musculoskeletal Disorders,

European Orthopaedics and Traumatology (EOTR);

EFORT open reviews

Member of the Editorial board of EFORT open reviews and Austin Sport Medicine Journal.

## List of publications

### 2011

1. Zaffagnini S, Bruni D, Marcheggiani Muccioli GM, Bonanzinga T, Lopomo N, Bignozzi S, Marcacci M.  
“*Single-bundle patellar tendon versus non-anatomical double-bundle hamstrings ACL reconstruction: a prospective randomized study at 8-year minimum follow-up*”.  
Knee Surg Sports Traumatol Arthrosc. 2011 Mar;19(3):390-7. doi: 10.1007/s00167-010-1225-y.  
PMID: 20668835
2. Marcacci M, Zaffagnini S, Marcheggiani Muccioli GM, Neri MP, Bondi A, Nitri M, Bonanzinga T, Grassi A.  
“*Arthroscopic intra- and extra-articular anterior cruciate ligament reconstruction with gracilis and semitendinosus tendons: a review*”  
Curr Rev Musculoskelet Med. 2011 Jun;4(2):73-7. doi: 10.1007/s12178-011-9075-x.  
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3. Zaffagnini S, Marcheggiani Muccioli GM, Grassi A, Bonanzinga T, Filardo G, Canales Passalacqua A, Marcacci M.  
“*Arthroscopic lateral collagen meniscus implant in a professional soccer player.*”  
Knee Surg Sports Traumatol Arthrosc. 2011 Oct;19(10):1740-3. doi: 10.1007/s00167-011-1538-5.  
PMID: 21556826
4. Zaffagnini S, Bonanzinga T, Marcheggiani Muccioli GM, Giordano G, Bruni D, Bignozzi S, Lopomo N, Marcacci M.  
“*Does chronic medial collateral ligament laxity influence the outcome of anterior cruciate ligament reconstruction?: a prospective evaluation with a minimum three-year follow-up*”  
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### 2012

5. Zaffagnini S, Signorelli C, Lopomo N, Bonanzinga T, Marcheggiani Muccioli GM, Bignozzi S, Visani A, Marcacci M  
“*Anatomic double-bundle and over-the-top single-bundle with additional extra-articular tenodesis: an in vivo quantitative assessment of knee laxity in two different ACL reconstructions.*”  
Knee Surg Sports Traumatol Arthrosc. 2012 Jan;20(1):153-59 doi: 10.1007/s00167-011-1589-7.  
PMID: 21710111
6. Marcacci M, Zaffagnini S, Muccioli GM, Grassi A, Bonanzinga T, Nitri M, Bondi A, Molinari M, Rimondi E.  
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7. Marcacci M, Zaffagnini S, Bonanzinga T, Pizzoli A, Manca M, Caiaffa E.  
*“Surgical Technique: Articulated External Fixator for Treatment of Complex Knee Dislocation”*  
Clin Orthop Relat Res. 2012 Mar;470(3):869-76 doi: 10.1007/s11999-011-2062-0.  
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8. Lopomo N, Signorelli C, Bonanzinga T, Marcheggiani Muccioli GM, Visani A, Zaffagnini S.  
*“Quantitative assessment of pivot-shift using inertial sensors.”*  
Knee Surg Sports Traumatol Arthrosc. 2012 Apr;20(4):713-7. doi: 10.1007/s00167-011-1865-6.  
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9. Zaffagnini S, Marcheggiani Muccioli GM, Lopomo N, Signorelli C, Bonanzinga T, Musiani C, Vassilis P, Nitri M, Marcacci M.  
*“Can the pivot-shift be eliminated by anatomic double-bundle anterior cruciate ligament reconstruction?”*  
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10. Zaffagnini S, Marcheggiani Muccioli GM, Giordano G, Bonanzinga T, Grassi A, Nitri M, Bruni D, Ravazzolo G, Marcacci M.  
*“Long-term outcomes after repair of recurrent post-traumatic anterior shoulder instability: comparison of arthroscopic transglenoid suture and open Bankart reconstruction.”*  
Knee Surg Sports Traumatol Arthrosc. 2012 May;20(5):816-21 . doi: 10.1007/s00167-011-1674-y.  
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11. Marcacci M, Zaffagnini S, Bonanzinga T, Marcheggiani Muccioli GM, Bruni D, Iacono F.  
*“Over-the-top double-bundle revision ACL reconstruction.”*  
Knee Surg Sports Traumatol Arthrosc. 2012 Jul;20(7):1404-8. doi: 10.1007/s00167-011-1753-0.  
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12. Zaffagnini S, Marcheggiani Muccioli GM, Bulgheroni P, Bulgheroni E, Grassi A, Bonanzinga T, Kon E, Filardo G, Busacca M, Marcacci M.  
*“Arthroscopic collagen meniscus implantation for partial lateral meniscal defects: a 2-year minimum follow-up study.”*  
Am J Sports Med. 2012 Oct;40(10):2281-8.  
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## 2013

13. Zaffagnini S, Lopomo N, Signorelli C, Marcheggiani Muccioli GM, Bonanzinga T, Grassi A, Visani A, Marcacci M.

- “Innovative technology for knee laxity evaluation: clinical applicability and reliability of inertial sensors for quantitative analysis of the pivot-shift test.”*  
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*“Open versus arthroscopic surgical treatment of chronic proximal patellar tendinopathy. A systematic review.”*  
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15. Signorelli C, Lopomo N, Bonanzinga T, Marcheggiani Muccioli GM, Safran MR, Marcacci M, Zaffagnini S.  
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*“Conservative treatment of spontaneous osteonecrosis of the knee in the early stage: pulsed electromagnetic fields therapy.”*  
Eur J Radiol. 2013 Mar;82(3):530-7. doi: 10.1016/j.ejrad.2012.11.011.  
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17. Zaffagnini S, Marcheggiani Muccioli GM, Bonanzinga T, Nitri M, Grassi A, Marcacci M.  
*“Anatomic double-bundle anterior cruciate ligament reconstruction leaving hamstrings tibial insertion intact: technical note.”*  
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*Unicompartmental osteoarthritis: an integrated biomechanical and biological approach as alternative to metal resurfacing.*  
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## 2014

22. Marcacci M, Marcheggiani Muccioli GM, Grassi A, Ricci M, Tsapralis K, Nanni G, Bonanzinga T, Zaffagnini S.  
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28. Marcacci M, Bonanzinga T, Grassi A, Musiani C, Benzi A, Marcheggiani Muccioli GM, Vaccari V, Zaffagnini S.  
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Knee Surg Sports Traumatol Arthrosc. 2015 Oct;23(10):2930-5 doi: 10.1007/s00167-015-3673-x.  
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30. Bonanzinga T, Zhang H, Song GY, Zhang J, Signorelli C, Feng H.  
*Is PLC repair of a peel-off femoral lesion an effective option in a multiligament setting?*  
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*Evaluation of the sealing function of the acetabular labrum: an in vitro biomechanical study*  
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*MRI evaluation of a collagen meniscus implant: a systematic review.*  
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## 2016

33. Iacono F, Raspugli GF, Akkawi I, Bruni D, Filardo G, Budeyri A, Bragonzoni L, Presti ML, Bonanzinga T, Marcacci M.  
*Unicompartmental knee arthroplasty in patients over 75 years: a definitive solution?*  
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*Technical variables of ACL surgical reconstruction: effect on post-operative static laxity and clinical implication.*  
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36. Zaffagnini S, Signorelli C, Bonanzinga T, Grassi A, Galán H, Akkawi I, Bragonzoni L, Cataldi F, Marcacci M.  
*Does meniscus removal affect ACL-deficient knee laxity? An in vivo study.*  
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38. Bonanzinga T, Signorelli C, Grassi A, Lopomo N, Bragonzoni L, Zaffagnini S, Marcacci M.  
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40. Bonanzinga T, Zahar A, Dütsch M, Lausmann C, Kendoff D, Gehrke T.  
*How Reliable Is the Alpha-defensin Immunoassay Test for Diagnosing Periprosthetic Joint Infection? A Prospective Study.*  
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*Predictive mathematical modeling of knee static laxity after ACL reconstruction: in vivo analysis.*

Comput Methods Biomech Biomed Engin. 2016 Nov;19(15):1610-7. doi: 10.1080/10255842.2016.1176152.

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43. Zaffagnini S, Signorelli C, Grassi A, Yue H, Raggi F, Urrizola F, Bonanzinga T, Marcacci M.

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