

**PERSONAL INFORMATION
AND SKILLS**

Mattia Loppini

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Date of Birth 09/08/1984 | Nationality Italian

Mother tongue Italian

Other language English (Level B2)

CURRENT POSITION

- Associate Professor of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine, Humanitas University, Pieve Emanuele (Milan, Italy).

- Orthopaedic and Trauma Consultant at Department of Orthopaedics and Trauma Surgery, Hip Diseases and Joint Replacement Surgery Unit, Humanitas Research Hospital, Rozzano (Milan, Italy)

PROFESSIONAL EXPERIENCE

- **October 2024-present:** Associate Professor of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine, Humanitas University
- **March 2022-September 2024:** Assistant Professor of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine (RTD-B), Humanitas University
- **March 2017-March 2022:** Assistant Professor of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine (RTD-A), Humanitas University
- **June 2015-present:** Orthopaedic and Trauma Consultant at Department of Orthopaedics and Trauma Surgery, Hip Diseases and Joint Replacement Surgery Unit. Prof. Guido Grappiolo, Humanitas Research Hospital, Rozzano (Milan, Italy)
 - Replacement surgery (primary and revisions), conservative open and arthroscopic surgery of hip and knee.
 - Treatments of viscosupplementation and regenerative medicine of hip and knee joints.
 - Clinical and translational research to improve the current techniques and to develop innovative techniques in replacement and arthroscopic surgery; to improve the outcome of patients undergoing hip and knee replacement surgery; to develop follow-up protocols based on artificial intelligence for patients with hip and knee replacement; to develop protocols for rapid postoperative recovery ("fast track" in replacement surgery); to improve the diagnostic-therapeutic approach for periprosthetic infections; to improve regenerative medicine strategies for degenerative diseases of hip and knee.
- **May 2010-May 2015:** Orthopaedic and Trauma Surgery Resident at "Departement of Orthopaedic and Trauma Surgery". Prof. Vincenzo Denaro, University Campus Bio-Medico of Rome, Rome, Italy
 - Replacement surgery of hip, knee and shoulder; arthroscopic surgery of shoulder, knee and ankle; hand surgery;

- foot and ankle surgery; spine surgery.
- Multidisciplinary treatment of bone metastases (Centre of Oncology Orthopaedics of Italian Society of Oncology Orthopaedics).
 - Operative and non-operative management of bone fractures and emergency room activity (“San Giovanni Addolorata” Hospital, Rome – Prof. Andrea Campi).
 - Replacement surgery of hip and knee; open and arthroscopic conservative surgery of the hip (“Humanitas Research Hospital”, Rozzano, Milan – Prof. Guido Grappiolo).
 - Treatments of viscosupplementation and injection of growth factors for hip, knee, shoulder and ankle joints.
 - Clinical research to improve the current techniques and to develop innovative techniques in arthroscopic surgery of shoulder, knee and ankle for the management of sport trauma; to improve the outcome of patients undergoing arthroscopic surgery of shoulder, knee and ankle; to prevent sport injuries; to improve the diagnostic-therapeutic approach for bone metastases.
 - Translational research in the field of tissue engineering for regeneration of the intervertebral disc and cartilage.
- **November 2011-August 2012:** Clinical and research fellow at “Centre of Sports and Exercise Medicine - Queen Mary University of London”. Prof. Nicola Maffuli, Barts and the London, Queen Mary University of London, London, UK
 - Open and arthroscopic/endoscopic surgery for the management of tendinopathies, tendon rupture, ligament and muscular injuries.
 - Clinical research to improve the current surgical techniques and to develop innovative surgical techniques and to improve the outcome of patients undergoing surgery for the management of tendinopathies, tendon rupture, ligament and muscular injuries; to develop score systems for sport injury prevention and rehabilitation protocols.
 - **July 2008-September 2008:** Visiting research fellow at “Orthopaedic Surgery Department Ferguson Laboratory for Spine Research”, Prof. James D. Kang, Orthopaedic Surgery Department Ferguson Laboratory for Spine Research, University of Pittsburgh, Pittsburgh
 - Translational research in the field of intervertebral disc degeneration.

NUMBER OF SURGERIES PERFORMED

- **June 2015-October 2024:** Orthopaedic and Trauma Consultant at Department of Orthopaedics and Trauma Surgery, Hip Diseases and Joint Replacement Surgery Unit, Prof. Guido Grappiolo, Humanitas Research Hospital
 - High-complexity surgery (primary and revision hip and knee prosthetic surgery): 2906 surgeries of which 674 as first operator.
 - High-complexity surgery- conservative open hip surgery: 11 surgeries of which 1 as first operator.
 - Surgery of medium complexity (arthroscopic surgery of hip, knee and shoulder): 136 operations of which 115 as first operator.

EDUCATIONAL EXPERIENCE

- **2023- presente:** Principal Investigator/Supervisor in a Clinical PhD in “Applied Clinical Research”, Humanitas University, Pieve Emanuele (Milan)
- **2023-present:** Professor at MEDTEC Degree Course, Humanitas University
 - Frontal lectures for 1st year students in the course “*Regional anatomy and gross neuroanatomy*”. The aim of the lessons is to provide general notions about the musculoskeletal system: bones, joints, and muscles. The fundamental systematic anatomy of skeletal segments, joints and muscles is integrated with elements of topographical anatomy, biomechanics, and radiological and functional anatomy.
 - Frontal lectures for 5th year students in the course “*Bone and Joint and Technologies Rehabilitation*”. The course aims to provide a comprehensive overview of the basic clinical presentations and treatment options for patient

presenting with clinical history, physical evaluation, and diagnostic test suggesting orthopaedics or rheumatological diseases.

- **2021-present:** Professor in the Master's Degree Program in Nursing and Midwifery Science, Humanitas University
 - Frontal lectures for 2nd year students in the course “*Integrated Clinical Plans - surgical curriculum*”. Lecture topics: conservative (open and arthroscopic) and prosthetic hip and knee surgery.
- **2018-2019:** Professor in Master Course “Rigenerative medicine for musculoskeletal system”, Humanitas University
 - Frontal lessons on the application of regenerative medicine in cartilage and osteochondral pathology of the hip and anatomy of the upper and lower limbs. The Master aims to provide participants with both clinical and research evidence and practical skills on the possible use of regenerative medicine in the treatment of pathologies of the musculoskeletal system.
 - Execution of surgical interventions and discussion of clinical cases on the application of regenerative medicine in the cartilage and osteochondral pathology of the hip.
- **2017-present:** Professor in Orthopaedics and Trauma Surgery - Faculty of Medicine and Surgery, Humanitas University
 - Frontal lectures for students of the course in “*Bone and Joint Diseases*” (4th year of the Faculty of Medicine and Surgery). The course aims to provide a comprehensive overview of the basic clinical presentations and treatment options for patient presenting with clinical history, physical evaluation, and diagnostic test suggesting orthopaedics or rheumatological diseases.
 - Frontal lectures for students of the course in “*Body Architecture*” (1st year of the Faculty of Medicine and Surgery). The aim of the lessons is to provide general notions about the musculoskeletal system: bones, joints, and muscles. The fundamental systematic anatomy of skeletal segments, joints and muscles is integrated with elements of topographical anatomy, biomechanics, and radiological and functional anatomy.
- **2017-present:** Tutor in Orthopaedics and Trauma Surgery - Faculty of Medicine and Surgery, Humanitas University
 - Tutoring activity for students of the course in “*Bone and Joint Diseases*” (4th year of the Faculty of Medicine and Surgery). The tutoring service focused on simulation activities by offering practical interactive lessons to perform an orthopaedic physical examination involving spine, shoulder and elbow, wrist/hand, hip, knee and ankle/foot joints.
- **2017-present:** Tutor in Human Anatomy - Faculty of Medicine and Surgery, Humanitas University
 - Tutoring activity for students of the course in “*Body Architecture*” (1st year of the Faculty of Medicine and Surgery). The aim of the practical interactive lessons is the study of the macroscopic anatomy of the musculoskeletal system (bones, joints, muscles) with plastic models.
- **November 2008-May 2015:** Personal Tutor - Faculty of Medicine and Surgery, Campus Bio-Medico University of Rome.
 - Tutoring activity for students attending 1st and 2nd year at the Faculty of Medicine and Surgery. The tutoring focused on study methodology, aiming to promote an effective time management, improvement in self-confidence and exploitation of specific interests in the field of medicine, which would have helped in future career development. Guidance to all the other services offered by the Atheneum was also provided.
- **2005-2006:** Tutor in Human Anatomy - Faculty of Medicine and Surgery, Prof. Sergio Morini, Campus Bio-Medico University of Rome
 - Tutoring activity for students of the course in “*Human Anatomy*” (1st and 2nd year of the Faculty of Medicine and Surgery). The tutoring service focused on both microscopic anatomy, by offering practical interactive lessons with specimens to be looked together at the microscope, and macroscopic anatomy, by offering practical interactive lessons held with human plastic models and videos of human dissection.

ORGANIZATIONAL ASSIGNMENTS IN ACADEMIC FIELD

- **September 2023-present:** Board member of the PhD "Applied Clinical Research" at Humanitas University
 - The Ph.D. Council is responsible for planning and carrying out the teaching, training and research activities of doctoral students in Applied Clinical Research.

- **April 2021-present:** Coordinator and Tutor in the Integrative training course “Honors Track” in Orthopedics at Humanitas University
 - The Honors Track in Orthopaedics is aimed at students in the Bachelor of Medicine and Bachelor of Science in Medicine and Biomedical Engineering (MEDTEC) program at Humanitas University. Students are involved in care, clinical and surgical activities, with the aim of acquiring knowledge on etiopathogenesis, diagnostic approach, clinical and anatomic-pathological features and main therapeutic strategies of hip, knee, shoulder, hand pathologies in both elective and trauma settings.

- **June 2020-present:** Joint faculty-student committee (CPDS) at Humanitas University
 - The CPDS is constituted at the Department level with an equal number of faculty and students of the Study Courses pertaining to it and is responsible for assessing: the expected learning outcomes and skills to ensure the fulfillment of employment prospects; the effectiveness of teaching activities, teaching and examination methods, equipment and logistic system; the effectiveness of corrective actions and the transparency of the information published on the Study Courses; the CPDS report is shared with the Quality Presidium, the Evaluation Board and the Review Groups.

- **March 2020-2022:** Working Group for Research Quality Assessment (VQR) 2015-2019 at Humanitas University
 - The purpose of the working group is to assess the quality of research, technology transfer and the exploitation of research results (so-called third mission) of the University.

- **January 2020-present:** Head of the 3rd and 4th year Faculty of Medicine for Medical Education at Humanitas University
 - The Office for Medical Education performs the following functions: develops and proposes teaching methods used during the degree program based on evidence from the national and international literature in Medical Education; collaborates with faculty members in drafting integrated course activities and supervises the application in these courses of the teaching methodologies provided by the degree program; conducts a training program in respect of faculty members and physicians involved in professionalizing activities and small-group teaching methodologies; organizes, coordinates and supervises students' professionalizing activities: Assignment of tutors, attendance in the department, simulation, outpatient clinics, laboratories; produces teaching materials necessary for the training of students in small group and professionalizing activities (clinical cases, PBL, check-lists, case method, etc.); collaborates in the organization of the Erasmus project exchanges and in general international exchange projects; collaborates with the President of the Degree Course in the Re-examination procedures and in the analysis of course evaluation; collaborates in open days and welcome days activities and orientation meetings and activities for high school students.

- **2018-present:** Board member of the School of Specialization in Orthopaedics and Traumatology at Humanitas University
 - The Graduate School Council is responsible for planning and carrying out the teaching, training and research activities of Orthopaedics and Traumatology residents.

- **2018-2019:** Committee member for selection related to research grants at Humanitas University
 - “MEFISTO - Meniscal functionalised scaffold to prevent knee osteoarthritis onset after meniscectomy” (rif. DR 084/2019).
 - “Multicenter prospective study between Agili-C and standard surgical treatment for osteochondral joint injuries of the knee” (rif. DR 121/2018).

- **2017-present:** Coordinator and Professor for the residency in "Hip Pathology and Prosthetic Surgery" at Humanitas Research Hospital
 - The internship for elective activities is intended for 4th, 5th and 6th year students of the Faculty of Medicine at Humanitas University. Students are involved in nursing, clinical and surgical, and research activities with the aim of acquiring knowledge on etiopathogenesis, diagnostic approach, clinical and anatomo-pathological features and main therapeutic strategies of hip and knee pathologies; acquiring knowledge on clinical and translational research methodology in the field of orthopaedics, especially hip pathologies and hip and knee prosthetic surgery.

ACADEMIC BACKGROUND AND EDUCATION

- **October 2024-present:** Associate Professor of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine, Humanitas University
- **October 2022:** Scientific National Abilitation for Full Professor of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine
- **March 2022-September 2024:** Assistant Professor (RTD-B) in Diseases of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine, Humanitas University
- **September 2018:** Scientific National Abilitation for Associate Professor of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine
- **March 2017-March 2022:** Assistant Professor (RTD-A) in Diseases of Locomotor Apparatus Disease and Physical and Rehabilitative Medicine, Humanitas University
- **November 2016-September 2017:** Advanced Training Course in Clinical Epidemiology, Humanitas University
- **March 2012-July 2015:** Doctor of Philosophy program in Oncology Orthopaedics, Prof. Giuseppe Tonini, University Campus Bio-Medico of Rome, Rome, Italy
- **May 2010-May 2015:** Resident program in Orthopaedic and Trauma Surgery, Prof. Vincenzo Denaro, University Campus Bio-Medico of Rome, Rome, Italy. Vote: 50/50 cum laude
- **2010:** Licensed to practice medicine, University Campus Bio-Medico of Rome, Rome, Italy
- **September 2003-July 2009:** Faculty of Medicine and Surgery, University Campus Bio-Medico of Rome, Rome, Italy. Vote: 110/110 summa cum laude.
- **2006-2009:** Internship at "Departement of Orthopaedic and Trauma Surgery". Prof. Vincenzo Denaro, University Campus Bio-Medico of Rome, Rome, Italy
- **2005-2006:** Internship at "Human Anatomy". Prof. Sergio Morini, University Campus Bio-Medico of Rome, Rome, Italy.
- **1998-2003:** High School "Liceo Ginnasio Statale Gaetano De Sanctis". Liceo Ginnasio Statale Gaetano De Sanctis, Rome, Italy. Vote: 100/100 summa cum laude.

TRAINING COURSES

- **June 2023:** Advanced course “EMEA Hip arthroscopy academy instructional course”. Smith+Nephew Academy, Londra (UK)
- **June 2019:** Theoretical and practical course for tutor in simulation. Humanitas University, Pieve Emanuele (Milan, Italy)
- **June 2016:** Practical course on cadaver in hip arthroscopy. Hip individual training program (Smith&Nephew), Verona, Italy
- **January 2015-December 2015:** Theoretical and practical course in hip and knee replacement surgery (BFR 2.0 – Biomet)
- **April 2015:** AOTrauma Course - Basic Principles of Fracture Management. AO trauma, Pacengo sul Garda, Italy
- **May 2014:** Theoretical course in hip replacement revision surgery. Zimmer instructional course, Milan, Italy
- **March 2014:** Theoretical course in hip and knee replacement surgery. Zimmer instructional course, Milan, Italy
- **November 2013:** Theoretical and practical course in hip and knee replacement surgery. SIGASCOT, Arezzo, Italy
- **May 2011:** Advanced theoretical and practical course in external fixation. Stryker, Latina, Italy

SCIENTIFIC SOCIETIES

- Sigma Xi - The Scientific Research Honor Society
- Italian Society of Orthopaedics and Traumatology (SIOT)
- Italian Knee Arthroscopy Society Upper Limb Sports Cartilage Orthopedic Technologies (SIAGASCOT)
- Italian Hip Society (SIIdA)
- European Hip Society (EHS)
- European Society of Sports Traumatology Knee Surgery and Arthroscopy (ESSKA)
- Italian Reprosthesis Association (AIR)
- Personalized Arthroplasty Society (PAS)

SCIENTIFIC COMMITTEES

- **2023-present:** Committee member Advanced Technologies SIdA
- **2023-present:** Hip and Groin Pain Committee – Workgroup – Italian Society for Knee Arthroscopy Upper Limb Sports Cartilage Orthopedic Technologies (SIAGASCOT)
- **2022-present:** Member of Personalized Arthroplasty Society (PAS) - Education Committee and Corporate Development Committee
- **2021-present:** Member of Education Committee of European Hip Society (EHS)
- **2021-present:** Member of working groups of Network of Orthopaedic Registries of Europe (NORE, EFORT)
- **2018-present:** Scientific Director - Fondazione Livio Sciutto Ricerca Biomedica in Ortopedia – ONLUS
- **2014-2016:** Upper Limb Committee Member - Società Italiana del Ginocchio Artroscofia Sport Cartilagine Tecnologie Ortopediche (SIGASCOT)

SCIENTIFIC JOURNALS

- **2022-present:** Editor for Journal of Clinical Medicine
- **April 2016-2018:** Editor for Orthopedics & Rheumatology Open Access (OROA)
- **March 2014-present:** Associate Editor for BMC Musculoskeletal Disorders
- **January 2015-2018:** Associate Editor for MOJ Orthopedics & Rheumatology
- **March 2014-present:** Editorial Board Member of International Journal Of Orthopaedic
- **May 2014-2017:** Editorial Board Member of Journal of Minimally Invasive Orthopedics
- Reviewer for the following Journals: Knee Surgery Sports Traumatology Arthroscopy Journal; BMC Musculoskeletal Disorders; Journal of Arthroplasty; International Orthopaedics; Hip International; International Journal Of Orthopaedic; Journal of Orthopaedics and Traumatology; Journal of Minimally Invasive Orthopedics and Archives of Orthopaedic and Trauma Surgery.

SCIENTIFIC PRODUCTION

Author of 118 publications in international journals (Pubmed) and 19 other publications and book chapters.

Bibliometric indicators Scopus: 34; Google Scholar: 44.

SCOPUS ID: 24802487100

ORCID ID: 0000-0001-8569-0669

Research ID: J-5620-2018

ORGANISATION OF SCIENTIFIC MEETINGS

- Scientific chief - "Simplify Spino-Pelvic Alignment" - International webinar PAS Educational Series 2023 Webinar- Personalized Arthroplasty Society. 21 September 2023.
- Scientific chief - "Basi anatomiche e biomeccaniche propedeutiche alla protesizzazione primaria dell'anca", IRCCS Humanitas Research Hospital, Milan (Italy) 26 June 2023.

RESEARCH GRANT

1. Co-Principal Investigator progetto PNRR: M6/C2_CALL 2023- Italian Ministry of Health, 2023. Project title: "Microbiota as early diagnostic and predictive factor for osteoarthritic degeneration and microbial contamination (MILESTONE)". Duration: 24 months. Total amount: 400.000,00 eur. Funding agency: Italian Ministry of Health. Still running.
2. Principal Investigator, call for proposals PRIN: Research projects of major National Interest –2022, Prot. 2022YME9N3, title "Development and validation of an artificial intelligence algorithm based on clinical and radiographic data for the "virtual follow-up" of patients with total hip arthroplasty". Duration: 24 months. Total amount: 232.505,00 eur. Funding agency: Italian Ministry of Health. Still running.
3. Institutional Research Grant, 2021, Humanitas Research Hospital. Title: "Conventional versus mobile application-guided follow-up after joint replacement: a randomized controlled study." Duration: 36 months. Total amount: 58.000,00 eur. Funding agency: IRCCS Humanitas Research Hospital. Project start: to be defined.
4. Institutional Research Grant, 2020, Humanitas Research Hospital. Title: "Preoperative diagnosis of periprosthetic joint infection in patients undergoing total hip and knee arthroplasty revision: development and validation of a machine learning algorithm." Duration: 36 months. Total amount: 42.000,00 eur. Funding agency: IRCCS Humanitas Research Hospital. Still running.
5. Co-Principal Investigator, Young Researcher Change Promoting, Ricerca Finalizzata 2019. Title: "Knee microbiota in the pathophysiology of osteoarthritis. Microbes could play an important role in a presumed non-infectious disease (KEYSTONE)." (GR-2019-12371158). Duration: 36 months. Total amount 450.000,00 eur. Funding agency: Italian Ministry of Health. Still running.
6. Collaborator in the European project: "MEFISTO: Meniscal functionalized scaffold to prevent knee osteoarthritis onset after meniscectomy". 2019-2024. IRCCS Humanitas Research Hospital. Still running.
7. Institutional Research Grant, 2019, Humanitas Research Hospital. Title: "Artificial intelligence for the "virtual follow-up" of patients with primary hip and knee

arthroplasty: feasibility and efficacy study.” Duration: 36 months. Total amount: 50.000,00 eur. Funding agency: IRCCS Humanitas Research Hospital. Completed.

8. Principal Investigator, Young Researcher Change Promoting, Ricerca Finalizzata 2018. Title: “Identification of early predictors of hip and knee arthroplasty failure by developing an innovative software for the automated analysis of radiographic examinations.” (GR-2018-12367275). Duration: 36 months. Total amount: 450.000,00 eur. Funding agency: Italian Ministry of Health. Completed.
9. SIOT Level I Research Grant 2017. Title: “Prospective observational study to assess the diagnostic ability of Long-Pentraxin 3 protein for the diagnosis of hip and knee periprosthetic joint infections.” Duration: 18 months. Total amount: 6.000,00 eur. Funding agency: SIOT (Italian Society of Orthopaedic and Traumatology). Completed.
10. Level I Research Grant 2014. Title: “Role of preoperative pelvic tilt in determining the range of motion and the rate of dislocation after primary total hip replacement.” Duration: 18 months. Total amount: 6.000,00 eur. Funding agency: SIOT (Italian Society of Orthopaedic and Traumatology). Completed.

AWARDS

1. Visiting Fellowship of European Hip Society for 2018 in The Netherlands.
2. Best Presentation Award al 13th Congress of European Hip Society, 20-22 September 2018 The Hague, The Netherlands, title: “PTX3 as a new biomarker for the diagnosis of periprosthetic joint infection: a single-center pilot study”.
3. Recipient of the 2013 ISAKOS Achilles Orthopaedic Sports Medicine Research Award for the paper “Longo UG, Loppini M, Berton A, Marinozzi A, Maffulli N, Denaro V. The FIFA 11+ program is effective in preventing injuries in elite male basketball players: a cluster randomized controlled trial”. The Achilles Orthopaedic Sports Medicine Research Award was created to recognize the researchers(s) who have performed the most outstanding clinical or laboratory research in the field of sports medicine, such as the care and prevention of injuries.
4. Recipient of the Certificate Of Excellence in Reviewing 2013 by Foot and Ankle Surgery journal in cooperation with the European Foot and Ankle Society.

PUBLICATIONS

1. La Camera F, Di Matteo V, Pisano A, Guazzoni E, Favazzi CM, Chiappetta K, Morengi E, Grappiolo G, **Loppini M**. Mid-Term Clinical and Radiographic Results of Complex Hip Revision Arthroplasty Based on 3D Life-Sized Model: A Prospective Case Series. J Clin Med 2024 Sep 17;13(18):5496. doi: 10.3390/jcm13185496.
2. Di Matteo V, Tommasini T, Morandini P, Savevski V, Grappiolo G, **Loppini M**. Machine Learning Prediction Model to Predict Length of Stay of Patients Undergoing Hip or Knee Arthroplasties: Results from a High-Volume Single-Center Multivariate Analysis. J Clin Med 2024 Aug 31;13(17):5180. doi: 10.3390/jcm13175180.

3. **Loppini M**, Guazzoni E, Gambaro FM, La Camera F, Morengi E, Grappiolo G. A new classification to characterize and predict treatment of acetabular bone defects. *Arch Orthop Trauma Surg* 2024 Jul;144(7):2975-2981. doi: 10.1007/s00402-024-05327-0.
4. Granata V, Strina D, Possetti V, Leone R, Valentino S, Chiappetta K, **Loppini M**, Mantovani A, Bottazzi B, Asselta R, Sobacchi C, Inforzato A. Interleukin-1 β Polymorphisms Are Genetic Markers of Susceptibility to Periprosthetic Joint Infection in Total Hip and Knee Arthroplasty. *Genes (Basel)*. 2024 May 8;15(5):596. Doi: 10.3390/genes15050596.
5. **Loppini M**, Gambaro FM, di Maio M, Grappiolo G. Femoral bone defect classifications in revision total hip arthroplasty: a comprehensive review and proposal of a new algorithm of management. *EFORT Open Rev*. 2024 Mar 5;9(3):160-172. doi: 10.1530/EOR-21-0088.
6. Di Matteo V, La Camera F, Carfi C, Morengi E, Grappiolo G, **Loppini M**. Clinical and Radiographic Outcomes of Hip Revision Surgery and Cerclage Wires Fixation for Vancouver B2 and B3 Fractures: A Retrospective Cohort Study. *J Clin Med*. 2024 Feb 3;13(3):892.doi: 10.3390/jcm13030892.
7. Rocchi C, Di Matteo V, Chiappetta K, Grappiolo G, **Loppini M**. Results of Utilizing Cerclage Wires in the Management of Intraoperative Vancouver B1 Fractures in Primary Total Hip Arthroplasties: A Retrospective Cohort Investigation into Clinical and Radiographic Outcomes. *J Clin Med* 2024 Jan 31;13(3):819. doi: 10.3390/jcm13030819.
8. Grappiolo, Guazzoni E, Gambaro FM, **Loppini M**. Letter to the editor: The history of the development of the regular straight stem in hip arthroplasty. *EFORT Open Rev*. 2024 Feb 1;9(2):146-147. doi: 10.1530/EOR-23-0171.
9. Anzillotti G, Guazzoni E, Conte P, Di Matteo V, Kon E, Grappiolo G, **Loppini M**. Using Three-Dimensional Printing Technology to Solve Complex Primary Total Hip Arthroplasty Cases: Do We Really Need Custom-Made Guides and Templates? A Critical Systematic Review on the Available Evidence. *J. Clin. Med*. 2024, 13(2), 474; doi: 10.3390/jcm13020474.
10. Longo UG, De Salvatore S, Zollo G, Calabrese G, Piergentili I, **Loppini M**, Denaro V. Magnetic resonance imaging could precisely define the mean value of tendon thickness in partial rotator cuff tears. *BMC Musculoskelet Disord*. 2023 Sep 9;24(1):718. doi: 10.1186/s12891-023-06756-5.
11. Bulloni M, Gambaro FM, Chiappetta K, Grappiolo G, Corino VDA, **Loppini M**. AI-based hip prosthesis failure prediction through evolutionary radiological indices. *Arch Orthop Trauma Surg* 2023 Oct 3. doi: 10.1007/s00402-023-05069-5.
12. Grappiolo G, Gambaro FM, Spera M, Chiappetta K, Morengi E, **Loppini M**. Clinical and radiological outcomes of an uncemented metaphyseal short stem at minimum 10 years of follow-up: a prospective observational study. *Arch Orthop Trauma Surg*. 2023 Aug 1. doi: 10.1007/s00402-023-05012-8.
13. Logroscino G, Fidanza A, Giusti I, Poppa G, Troianello L, Calafiore F, Saracco M, Avigni R, Leone R, Mantovani A, Bottazzi B, Grappiolo G, **Loppini M**. Pentraxin 3, a new biomarker for the diagnosis and management of PJI in primary and revision hip arthroplasty. *Acta Biomed*. 2023 Jun 23;94(S2):e2023100.

doi:10.23750/abm.v94iS2.13770.

14. Belgiovine C, Pellegrino L, Bulgarelli A, Lauta FC, Di Claudio A, Ciceri R, Cancellara A, Calcaterra F, Mavilio D, Grappiolo G, Chiappetta K, **Loppini M**, Rusconi R. Interaction of Bacteria, Immune Cells, and Surface Topography in Periprosthetic Joint Infections. *Int J Mol Sci.* 2023 May 19;24(10):9028. doi: 10.3390/ijms24109028.
15. Muscato F, Corti A, Manlio Gambaro F, Chiappetta K, **Loppini M**, Corino VDA. Combining deep learning and machine learning for the automatic identification of hip prosthesis failure: Development, validation and explainability analysis. *Int J Med Inform* 2023 Aug;176:105095. doi: 10.1016/j.ijmedinf.2023.105095.
16. Pugliese M, **Loppini M**, Vanni E, Longo UG, Castagna A. Correction to: Cost-effectiveness analysis of arthroscopic Bankart repair versus open Latarjet reconstruction in anterior shoulder instability. *Int Orthop.* 2023 Jul;47(7):1885. Doi:10.1007/s00264-023-05811-z.
17. Di Matteo V, Di Pilla M, La Camera F, Morengi E, Grappiolo G, **Loppini M**. Perioperative Complications after Hip and Knee Revision Arthroplasty in the over 80 Years Old Population: A Retrospective Observational Case-Control Study. *J Clin Med.* 2023 Mar 11;12(6):2186. doi: 10.3390/jcm12062186.
18. Pugliese M, **Loppini M**, Vanni E, Longo UG, Castagna A. Cost-effectiveness analysis of arthroscopic Bankart repair versus open Latarjet reconstruction in anterior shoulder instability. *Int Orthop.* 2023 Jul;47(7):1771-1777. Doi: 10.1007/s00264-023-05736-7.
19. La Camera F, de Matteo V, Di Maio M, Verrazzo R, Grappiolo G, **Loppini M**. Clinical Outcomes and Complication Rate after Single-Stage Hardware Removal and Total Hip Arthroplasty: A Matched-Pair Controlled Study. *J Clin Med.* 2023 Feb 19;12(4):1666. doi: 10.3390/jcm12041666.
20. **Loppini M**, Di Maio M, Avigni R, Leone R, Inforzato A, Grappiolo G, Mantovani A, Bottazzi B. Long Pentraxin 3 as a New Biomarker for Diagnosis of Hip and Knee Periprosthetic Joint Infections. *J Clin Med.* 2023 Jan 29;12(3):1055. Doi: 10.3390/jcm12031055.
21. Van Spanning SH, Verweij LPE, Allaart LJH, Hendrickx LAM, Doornberg JN, Athwal GS, Lafosse T, Lafosse L, van den Bekerom MPJ, Buijze GA; Machine Learning Consortium. Collaborators: Machine Learning Consortium: T Flinkillä, S Nakagawa, M Loppini, B R Waterman, B Owens, M Gotoh, H Nakamura, L Rossi, I Pasqualini, M Scheibel, M Minkus, J S Shaha, M A Ruiz Ibán, R T Li, A Lin, Y V Kleinlugtenbelt, J M Woodmass, P MacDonald, J Phadnis, A Stone, C Hatrick, T P van Iersel. Development and training of a machine learning algorithm to identify patients at risk for recurrence following an arthroscopic Bankart repair (CLEARER): protocol for a retrospective, multicentre, cohort study. *BMJ Open.* 2022 Sep 8;12(9):e055346. doi: 10.1136/bmjopen-2021-055346.
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BOOK CHAPTERS

1. **Loppini M**, Ganz R, Turchetto L, Mazziotta G, Grappiolo G. Subtrochanteric Osteotomy for the Management of Femoral Mal-Torsion "Modern Hip Preservation", pp 119-127, 2022.
2. Delle Rose G, **Loppini M**, Borroni M, Castagna A. Traumatologia della spalla.

“Medico del calcio: Il manuale”, Edizione 2018, Edra.

3. Randelli P, Ragone V, Menon A, Arrigoni P, Ciuffreda M, Darabos N, Denaro V, Hantes M, Kecojevich V, Longo UG, **Loppini M**, Lorbach O, Azzalini E, Maffulli N, Rizzello G, Cabitza P, Banfi G. Upper Limb Injuries in Athletes. “Instructional Course Lecture Book” Amsterdam 2014, ESSKA (European Society of Sports Traumatology Knee Surgery and Arthroscopy)
4. Longo UG, **Loppini M**, Candela V, Denaro V. Trattamenti sperimentali nella tendinopatia e nella rottura del tendine d’Achille. “Il tendine e il muscolo”, Volume I: Scienza di base e ricerca traslazionale, Edizione 2014, SIGASCOT (Società Italiana del Ginocchio Artroscopia Sport Cartilagine Tecnologie Ortopediche)
5. Longo UG, **Loppini M**, Candela V, Denaro V. Prevenzione delle patologie muscolo-tendinee. “Il tendine e il muscolo”, Volume II: Management delle lesioni muscolo-tendinee, Edizione 2014, SIGASCOT (Società Italiana del Ginocchio Artroscopia Sport Cartilagine Tecnologie Ortopediche).

INVITED ORAL PRESENTATIONS

1. Title presentation: “Abductor insufficiency: How to repair”. EHS Session-SPOT Congress 2024, Vilamoura, Algarve, Portugal 8th of November 2024.
2. Title presentation: “Conversion of Fused Hip to THA: Long-Term Clinical and Radiological Outcomes”. EHS Session-SPOT Congress 2024, Vilamoura, Algarve, Portugal 8th of November 2024.
3. Title presentation: “Total hip arthroplasty with a monoblock conical stem and subtrochanteric transverse shortening osteotomy in Crowe type IV dysplastic hips.” Masterclass in Arthroplasty Surgery Thessaloniki (MAST) 11 & Hellenic Association of Ortho Surgery & Traumatology (HAOST) 80th Annual Congress, in collaboration with EHS, 17-19th October 2024.
4. Title presentation: “3D printed anatomical dual mobility cup: rationale, development and early clinical and radiological results”. Masterclass in Arthroplasty Surgery Thessaloniki (MAST) 11 & Hellenic Association of Ortho Surgery & Traumatology (HAOST) 80th Annual Congress, in collaboration with EHS, 17-19th October 2024.
5. Title presentation: “The use of 3D printed models in revision surgery for severe acetabular defects”. 10 th Masterclass in arthroplasty surgery Thessaloniki: Current Concepts in Advanced Arthroplasty Surgery, 15-17 December 2023.
6. Title presentation: “Conversion of fused hip to Total Hip Arthroplasty: Long-term clinical and radiological outcomes”. 10 th Masterclass in arthroplasty surgery Thessaloniki: Current Concepts in Advanced Arthroplasty Surgery, 15-17 December 2023.
7. Title presentation: “Subtrochanteric osteotomy for the management of femoral mal-torsion”. Educational webinars for the European Hip Society (EHS), 12 December 2023.
8. Title presentation: “Arthroscopic management of FAI”. Educational webinar for the European Hip Society (EHS), 14 November 2023.
9. Title presentation: “Overview of abductor insufficiency and how to repair”.15th

Congress of the European Hip Society, 12-13 October 2023, Berna, Switzerland.

10. Title presentation: "Simplify spino-pelvic alignment". Educational webinar for Personalized Arthroplasty Society (PAS), 21 September 2023.
11. Title presentation: "Trabecular Metal Augments for the Management of Paprosky Type III Defects". Educational webinar for the European Hip Society (EHS), 12 September 2023.
12. Title presentation: "Management of limb length discrepancy after THA". Educational webinar for the European Hip Society (EHS), 9 May 2023.
13. Title presentation: "Pianificazione preoperatoria e scelta dell'impianto". Basi anatomiche e biomeccaniche propedeutiche alla protesizzazione primaria dell'anca. SIDA-Italian Hip Society, IRCSS Humanitas Research Hospital, 26 June 2023, Milano, Italy.
14. Title presentation: "Il ruolo dell'Intelligenza artificiale e dei sistemi digitali per il controllo clinico periodico". 105th National Congress of Italian Society of Orthopaedics and Traumatology (SIOT), 10-12 November 2022, Roma, Italy.
15. Title presentation: "Lo stress shielding: come evitarlo". 105th National Congress of Italian Society of Orthopaedics and Traumatology (SIOT), 10-12 November 2022, Roma, Italy.
16. Title presentation: "Il punto di vista del Chirurgo Ortopedico". Congress SIMI section Lombardia, 16 June 2022, Milano, Italy.
17. Title presentation: "Abductor insufficiency: how to repair". Cleveland Clinic London, Global Experts Hip Symposium, 27 May 2022.
18. Title presentation: "La chirurgia conservativa del bacino". Course of excellence in hip orthopaedics (with the educational contribution of Menarini), 2021.
19. Title presentation: "L'ortopedico dell'anca". Reumahumanitas - Il dolore regionale in reumatologia- 14 November/14 December 2020, Italy.
20. Title presentation: "Tecnologia HA3D a supporto del trattamento di severi difetti acetabolari". Webinar Medics, Webinar conducted under the advocacy of Italian Society of Orthopaedics and Traumatology (SIOT), 10 March 2020.
21. Title presentation: "Automated analysis of radiographic examinations for the identification of early predictors of hip and knee arthroplasty failure". Humanitas Research Day, 28 November 2019 Milano, Italy.
22. ZBI Meet the Expert "Bone edema and new treatment" -sponsor Zimmer Biomet, 11 October 2019 Milano, Italy.
23. Title presentation: "Tecnica chirurgica mininvasiva accesso posterolaterale". Course of excellence in hip orthopaedics (with the educational contribution of Menarini), Humanitas Research Hospital, 24-25 September 2019, Milano, Italy.
24. Title presentation: "I am not ready for metal in hip". The ICRS Focus Meeting, 13-14 December 2018, Milano, Italy.

25. Title presentation: "Gli emostatici locali nel contenimento dell'emorragia intraoperatoria". Orthopea 4, 14 April 2018, Milano, Italy.

ORAL PRESENTATIONS

1. **Loppini M.** "Uno sguardo allargato alla catena cinetica: tilt pelvico"; "AI e lettura automatica delle radiografie"; "Congress: Il percorso diagnostico terapeutico nella revisione di protesi di anca e ginocchio. Dalla prevenzione al follow-up – (17-18 October 2024 IRCSS Humanitas Research Hospital, Italy).
2. **Loppini M**, La Camera F, Grappiolo G. Revision surgery for limb-length discrepancy after total hip arthroplasty. 15th Congress of the European Hip Society (EHS) (12-13 October 2023, Berna, Switzerland).
3. **Loppini M.** Pianificazione preoperatoria e scelta dell'impianto. Basi anatomiche e biomeccaniche propedeutiche alla protesizzazione primaria dell'anca. SIDA-Italian Hip Society, (26 June 2023, IRCSS Humanitas Research Hospital, Italy).
4. **Loppini M**, Pisano A, Di Maio M, La Camera F, Casana M, Grappiolo G. Which is the outcome of patients with unexpected periprosthetic joint infections at the time of hip and knee arthroplasty revision? 14th Congress of the European Hip Society (EHS) (10-11 September 2021, Lille).
5. **Loppini M**, Mantegazza E, Ambrosini N, Di Maio M, Grappiolo G, Bianchi A, VDA Corino. Automatic identification of failure in hip replacement: an artificial intelligence approach. 14th Congress of the European Hip Society (EHS) (10-11 September 2021, Lille).
6. La Camera F, Grappiolo G, Ferrentino D, Della Rocca A, Ruggeri R, **Loppini M.** Risk of periprosthetic infection and clinical outcomes after single stage hardware removal and total hip arthroplasty: a matched-pair controlled study. Virtual EFORT Congress (VEC) hybrid (30 June - 2 July 2021).
7. **Loppini M**, La Camera F, Bruno CF, Casana M, Grappiolo G. Is a positive bacterial culture at re-implantation associated with a poor outcome in two-stage revision for periprosthetic joint infection? Virtual EFORT Congress (VEC) (28-30 October 2020).
8. **Loppini M**, La Camera F, Della Rocca F, Astore F, Ricci D, Grappiolo G. Combinazione di cotile a doppia mobilità e cotile in metallo trabecolare per il trattamento di difetti acetabolari complessi. 104° Congress of the Italian Society of Orthopaedics and Traumatology (SIOT) (7-10 November 2019, Roma).
9. **Loppini M**, Di Francia V, La Camera F, Cannata R, Ruggeri R, Grappiolo G, Della Rocca F. Tenotomia dell'ileopsoas in pazienti sottoposti ad artroscopia di anca: risultati clinici a un follow-up medio di 4 anni. XXIV National Congress SIA - Italian Society of Arthroscopy (24-26 October 2019, Milano).
10. **Loppini M**, La Camera F, Ruggeri R, Di Francia V, Grappiolo G, Della Rocca F. Ritorno allo sport dopo microfratture in artroscopia di anca: studio retrospettivo monocentrico. XXIV National Congress SIA - Italian Society of Arthroscopy (24-26 October 2019, Milano).
11. **Loppini M**, Bruno CF, La Camera F, Favazzi C, Casana M, Ferrari MC, Grappiolo G. Is a positive intra-operative culture associated with poor results in presumed aseptic revision of total hip and knee arthroplasties? 38th EBJIS Congress - The European Bone & Joint

- Infection Society (12-14 September 2019, Antwerp).
12. Grappiolo G, **Loppini M**. I Am Not Ready For Metal In Hip. International Cartilage Regeneration & Joint Preservation Society - ICRS - Focus Meeting (13-14 December 2018, Milano).
 13. **Loppini M**, Ruggeri R, Della Rocca A, Mazziotta G, Santoro G, Traverso F, Astore F, Grappiolo G. Risultati clinici e radiografici di un nuovo stelo corto metafisario con follow-up minimo di 7 anni. 103° Congress of the Italian Society of Orthopaedics and Traumatology (9-12 November 2018, Bari).
 14. La Camera F, **Loppini M**, Ferrentino D, Della Rocca A, Grappiolo G, Gasparini G. Lo stelo conico non cementato nell'anca displasica: risultati clinici e radiografici a 20 anni. 103° Congress of the Italian Society of Orthopaedics and Traumatology (9-12 November 2018, Bari).
 15. **Loppini M**, Della Rocca A, Ruggeri R, Della Rocca F, Traverso F, Astore F, Grappiolo G. Augments in metallo trabecolare per le ricostruzioni acetabolari complesse. Studio di coorte retrospettivo a medio termine. 103° Congress of the Italian Society of Orthopaedics and Traumatology Traumatologia (9-12 November 2018, Bari).
 16. **Loppini M**, Della Rocca F, La Camera F, Ruggeri R, Di Francia V, Grappiolo G. Risultati clinici e attività sportiva dopo artroscopia dell'anca con microfratture. 103° Congress of the Italian Society of Orthopaedics and Traumatology (9-12 November 2018, Bari).
 17. **Loppini M**, Traverso F, Avigni R, Leone R, Bottazzi B, Mantovani A, Grappiolo G. PTX3 as a new biomarker for the diagnosis of periprosthetic joint infection: a single-center pilot study. 13th Congress of the European Hip Society (EHS) (20-22 September 2018, The Hague).
 18. **Loppini M**, Paraskevopoulos A, Della Rocca A, Ruggeri R, Della Rocca F, Traverso F, Astore F, Grappiolo G. Trabecular Metal Augments For The Management Of Paprosky Type III Defects. A Mid-Term Retrospective Study. 13th Congress of the European Hip Society (EHS) (20-22 September 2018, The Hague).
 19. **Loppini M**, Traverso F, Ferrari M, Avigni R, Leone R, Bottazzi B, Mantovani A, Grappiolo G. Synovial versus serum PTX3 for the diagnosis of periprosthetic joint infection: a single-center prospective diagnostic study. 37th EBJIS Congress - The European Bone & Joint Infection Society (6-8 September 2018, Helsinki).
 20. **Loppini M**. Gli emostatici locali nel contenimento dell'emorragia intraoperatoria. Orthopea 4 (12-14 April 2018, Milano).
 21. **Loppini M**, Paraskevopoulos A, Della Rocca A, Ruggeri R, Della Rocca F, Traverso F, Astore F, Grappiolo G. Trabecular Metal augments For The Management Of Paprosky Type III Defects. A Mid-Term Retrospective Study. AAOS 2018 Annual Meeting (6-10 March 2018, New Orleans).
 22. **Loppini M**, Della Rocca A, Ruggeri R, Traverso F, Mazziotta G, Santoro G, Astore F, Grappiolo G. Risultati clinici e radiografici di un nuovo stelo corto con un follow-up minimo di 6 anni. National Congress of the Italian Hip Society (23-24 November 2017, Monza).
 23. **Loppini M**, Paraskevopoulos A, Della Rocca A, Ruggeri R, Della Rocca F, Traverso F, Astore F, Grappiolo G. Augment in metallo trabecolare per il trattamento di difetti ossei acetabolari Paprosky tipo III. Studio retrospettivo a medio termine. National Congress of the Italian Hip Society (23-24 November 2017, Monza).

24. Grappiolo G, **Loppini M**, Della Rocca A, Ruggeri R, Mazziotta G, Santoro G, Astore F. Clinical And Radiographic Results With A New Short Stem At Minimum 6 Years Of Follow-Up. DKOU 2017 - Deutscher Kongress für Orthopädie und Unfallchirurgie (24-27 October 2017, Berlino).
25. Grappiolo G, **Loppini M**, Della Rocca A, Ruggeri R, Traverso F, Della Rocca F, Astore F, Ricci D. Third Decade Clinical And Radiographic Results Of A Grit-Blasted Straight Press-Fit Stem. DKOU 2017 - Deutscher Kongress für Orthopädie und Unfallchirurgie (24-27 October 2017, Berlino).
26. **Loppini M**, Traverso F, Avigni R, Leone R, Bottazzi B, Mantovani A, Grappiolo G. PTX3: un nuovo biomarcatore di diagnosi di infezione periprotetica di anca e ginocchio. 102° National Congress of the Italian Society of Orthopaedics and Traumatology -SIOT (20-23 October 2017, Palermo).
27. **Loppini M**, Ruggeri R, Della Rocca A, Mazziotta G, Santoro G, Della Rocca F, Traverso F, Astore F, Ricci D, Grappiolo G. Stelo corto versus stelo convenzionale nella protesi d'anca primaria: studio comparativo prospettico non randomizzato. 102° National Congress of the Italian Society of Orthopaedics and Traumatology -SIOT (20-23 October 2017, Palermo).
28. Zampogna B, **Loppini M**, Papalia R, Denaro V, Grappiolo G. La protesi d'anca nel giovane adulto: analisi delle ultime 3 decadi. 102° National Congress of the Italian Society of Orthopaedics and Traumatology -SIOT (20-23 October 2017, Palermo).
29. Della Rocca A, **Loppini M**, Ruggeri R, Mazziotta G, Santoro G, Astore F, Grappiolo G. Protesi femorale emicefalica "ibrida": risultati clinici e radiografici a lungo termine di una nuova tecnica di resurfacing. 102° National Congress of the Italian Society of Orthopaedics and Traumatology -SIOT (20-23 October 2017, Palermo).
30. Ruggeri R, **Loppini M**, Della Rocca F, Della Rocca A, Grappiolo G. Validazione ed adattamento transculturale italiano dell'International Hip Outcome Tool-33. 102° National Congress of the Italian Society of Orthopaedics and Traumatology-SIOT (20-23 October 2017, Palermo).
31. Ruggeri R, Schiavi P, **Loppini M**, Di Francia V, Scardino M, Grappiolo G. L'uso del drenaggio nella protesi d'anca di primo impianto: risultati preliminari di uno studio prospettico randomizzato. 102° National Congress of the Italian Society of Orthopaedics and Traumatology -SIOT (20-23 October 2017, Palermo).
32. **Loppini M**, Traverso F, Ferrari M, Avigni R, Leone R, Bottazzi B, Mantovani A, Grappiolo G. PTX3 as a new biomarker for the diagnosis of periprosthetic joint infection: a single-center pilot study. 36th EBJIS Congress - The European Bone & Joint Infection Society (7-9 September 2017, Nantes).
33. **Loppini M**, Della Rocca A, Astore F, Della Rocca F, Ricci D, Traverso F, Grappiolo G. Conversion of hip arthrodesis to total hip arthroplasty: long-term clinical and radiographic outcomes. 18th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (31 May - 2 June 2017, Vienna).
34. **Loppini M**, Astore F, Della Rocca A, Della Rocca F, Ruggeri R, Santoro G, Grappiolo G. Risultati clinici e radiografici di un nuovo stelo corto nella protesi totale di anca a 5 anni di follow-up. 101° National Congress of the Italian Society of Orthopaedics and Traumatology (28-31 October 2016, Torino).
35. **Loppini M**, Astore F, Caldarella E, Cusmà G, Della Rocca A, Mazziotta G, Grappiolo G. Tecnica femur first: procedura non navigata per ottenere una corretta antiversione combinata

- nell'intervento di protesi totale di anca. 101° National Congress of the Italian Society of Orthopaedics and Traumatology (28-31 October 2016, Torino).
36. **Loppini M**, Astore F, Caldarella E, Della Rocca A, Ricci D, Traverso F, Grappiolo G. Studio della relazione tra il tilt pelvico e il posizionamento acetabolare funzionale con sistema EOS 2D/3D. 101° National Congress of the Italian Society of Orthopaedics and Traumatology (28-31 October 2016, Torino).
 37. **Loppini M**, Astore F, Caldarella E, Della Rocca A, Mazziotta G, Traverso F, Grappiolo G. Femur first technique: a smart non- computer-based surgery to achieve the combined anteversion in primary total hip arthroplasty. 12th Congress of the European Hip Society (EHS) (6-9 September 2016, Monaco).
 38. **Loppini M**, Astore F, Caldarella E, Della Rocca F, Mazziotta G, Ricci D, Ruggeri R, Santoro G, Traverso F, Grappiolo G. Clinical and radiographic results with a new short stem at 5 years of follow-up. 12th Congress of the European Hip Society (EHS) (6-9 September 2016, Monaco).
 39. **Loppini M**, Astore F, Caldarella E, Della Rocca A, Della Rocca F, Ricci D, Grappiolo G. Analysis of the functional pelvic orientation in the sagittal plane: a radiographic study with EOS 2D/3D technology. 12th Congress of the European Hip Society (EHS) (6-9 September 2016, Monaco).
 40. **Loppini M**, Astore F, Caldarella E, Della Rocca A, Della Rocca F, Ricci D, Grappiolo G. Assessment of the relationship between pelvic tilt and functional acetabular position after total hip arthroplasty with EOS 2D/3D technology. 12th Congress of the European Hip Society (EHS) (6-9 September 2016, Monaco).
 41. **Loppini M**, Guelfi M, Della Rocca A, Ruggeri R, Astore F, Ricci D, Grappiolo G. Clinical and radiographic results of a grit-blasted, straight, press-fit stem at 30 years of follow-up. 17th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (1-3 June 2016, Ginevra).
 42. **Loppini M**, Caldarella E, Della Rocca A, Mazziotta G, Ruggeri R, Grappiolo G. Clinical and radiographic results with a new short stem at 5 years of follow-up. 17th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (1-3 June 2016, Ginevra).
 43. **Loppini M**, Della Rocca A, Caldarella E, Ragucci P, Trenti N, Balzarini L, Grappiolo G. Assessment of the relationship between pelvic tilt and functional acetabular position with EOS 2D/3D technology. International Combined Meeting, British Hip Society – Italian Hip Society (26-27 November 2015, Milano).
 44. **Loppini M**, Della Rocca A, Guelfi M, Traverso F, Della Rocca F, Salini V, Denaro V, Grappiolo G. Risultati a lungo termine dell'artroprotesi primaria di anca con osteotomia femorale di accorciamento in pazienti affetti da displasia congenita dell'anca di grado severo. 100° National Congress of the Italian Society of Orthopaedics and Traumatology (7-10 November 2015, Roma).
 45. Guelfi M, Della Rocca A, **Loppini M**, Ruggeri R, Santoro G, Salini V, Grappiolo G. Stelo CLS: risultati clinici e radiografici a 30 anni. 100° National Congress of the Italian Society of Orthopaedics and Traumatology (7-10 November 2015, Roma).
 46. Della Rocca A, **Loppini M**, Guelfi M, Astore F, Mazziotta G, Salini S, Villani C, Grappiolo G. La protesizzazione su artrodesi dell'anca: 20 anni di esperienza. 100° National Congress of the Italian Society of Orthopaedics and Traumatology (7-10 November 2015, Roma).

47. **Loppini M**, Grappiolo G, Longo UG, Cusmà G, Traverso F, Santoro G, Mazziotta G, Denaro V. Trabecular Metal Augments For The Management Of Paprosky Type III Defects. 16th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (27-29 May 2015, Praga).
48. Grappiolo G, **Loppini M**, Longo UG, Astore F, Cusmà G, Della Rocca F, Caldarella E, Denaro V. Cementless Total Hip Arthroplasty With Subtrochanteric Transverse Osteotomy In Crowe Type IV 16th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (27-29 May 2015, Praga).
49. **Loppini M**, Grappiolo G, Longo UG, Traverso F, Santoro G, Mazziotta G, Caldarella E, Denaro V. Ruolo degli augment in tantalio per la ricostruzione acetabolare nei gravi difetti ossei. 99° National Congress of the Italian Society of Orthopaedics and Traumatology (22-25 November 2014, Roma).
50. Grappiolo G, **Loppini M**, Longo UG, Ricci D, Astore F, Della rocca F, Ruggeri R, Denaro V. Risultati clinici e radiografici di un nuovo stelo corto nell'artroprotesi di anca: l'esperienza con stelo GTS™ a minimo 3 anni di follow-up. 99° National Congress of the Italian Society of Orthopaedics and Traumatology (22-25 November 2014, Roma).
51. **Loppini M**, Longo UG, Forriol F, Salvatore G, Maffulli N, Denaro V. Identificazione della "zona di sicurezza" per prevenire lesioni del nervo soprascapolare nelle ricostruzioni della glena con trapianto osseo. Studio su cadavere. 99° National Congress of the Italian Society of Orthopaedics and Traumatology (22-25 November 2014, Roma).
52. Longo UG, **Loppini M**, Forriol F, Lanotte A, Trovato U, Fumo C, Maffulli N, Denaro V. Ruolo delle lesioni legamentose isolate della sindesmosi tibioperoneale nell'instabilità della caviglia. Studio su cadavere. 99° National Congress of the Italian Society of Orthopaedics and Traumatology (22-25 November 2014, Roma).
53. **Loppini M**, Grappiolo G, Longo UG, Traverso F, Santoro G, Mazziotta G, Caldarella E, Denaro V. Tantalum augments for the management of severe bone defects in acetabular reconstructions. 11° Congress European Hip Society (9-11 October 2014, Stoccolma).
54. Longo UG, **Loppini M**, Lanotte A, Trovato U, Fumo C, Forriol F, Denaro V. The role of isolated injuries of the tibio-fibular syndesmosis. A cadaver study. 5° Congresso Nazionale SIGASCOT - Società Italiana di Chirurgia del Ginocchio, Artroscopia, Sport, Cartilagine e Tecnologie Ortopediche (24-26 September 2014, Parma).
55. **Loppini M**, Longo UG, Lanotte A, Salvatore G, Forriol F, Maffulli N, Denaro V. Identificazione della "zona di sicurezza" per prevenire lesioni del nervo soprascapolare nelle ricostruzioni della glena con trapianto osseo. Studio su cadavere. 5° Congresso Nazionale SIGASCOT - Società Italiana di Chirurgia del Ginocchio, Artroscopia, Sport, Cartilagine e Tecnologie Ortopediche (24-26 September 2014, Parma).
56. Longo UG, **Loppini M**, Forriol F, Denaro V. Trapianto di membrana amniotica per la rigenerazione cartilaginea di difetti condrali in un modello sperimentale ovino. 5° Congresso Nazionale SIGASCOT - Società Italiana di Chirurgia del Ginocchio, Artroscopia, Sport, Cartilagine e Tecnologie Ortopediche (24-26 September 2014, Parma).
57. **Loppini M**, Longo UG, Denaro V. PRP and tendinopathies. 2° Simposio Medicina rigenerativa: nuove frontiere in ortopedia (17 December 2012, Roma).
58. Maffulli N, Spiezia F, **Loppini M**, Longo UG, Maffulli GD, Denaro V. Single Minimal Incision Fasciotomy for Chronic Exertional Compartment Syndrome. 2nd Congress I.S.Mu.L.T. (30

November - 1 December 2012, Napoli).

59. **Loppini M**, Longo UG, Maffulli N, Denaro V. Generalities, epidemiology and the controversy. World Sports Trauma Congress and 7th EFOST Congress (17-20 October 2012, Londra).
60. **Loppini M**, Longo UG, Berton A, Maffulli N, Denaro V. Prevention of sports injuries. World Sports Trauma Congress and 7th EFOST Congress (17-20 October 2012, Londra).
61. Longo UG, **Loppini M**, Berton A, Marinozzi A, Maffulli N, Denaro V. FIFA 11+ per la prevenzione degli infortuni nel basket: uno studio randomizzato controllato. 97° National Congress of the Italian Society of Orthopaedics and Traumatology (10-14 November 2012, Roma).
62. **Loppini M**, Longo UG, Marineo G, Denaro V. Tendinopathy of the long head of the biceps. 5th International S.I.A. Meeting 14 JUNE Session AANA – University (14-16 June 2012, Trieste).
63. Longo UG, **Loppini M**, Berton A, Maffulli N, Denaro V. The Fifa 11+ is effective in preventing injuries also in basketball. Congresso Isokinetic (2011, Bologna).
64. Vadalà G, Rainer A, Centola M, **Loppini M**, Carotti S, Morini S, Trombetta M, Denaro V. Differenziazione osteo/condrogenica delle cellule staminali mesenchimali umane di midollo osseo indotta da scaffold in policaprolattone (PCL) funzionalizzati superficialmente. 95° National Congress of the Italian Society of Orthopaedics and Traumatology (20-24 November 2010, Roma).
65. Vadalà G, Rainer A, **Loppini M**, Centola M, Trombetta M, Denaro V. Scaffold micro-strutturati bioattivi per la riparazione e la rigenerazione dell'anello fibroso. 95° National Congress of the Italian Society of Orthopaedics and Traumatology (20-24 November 2010, Roma).
66. Denaro V, Vadalà G, Rainer A, **Loppini M**, Trombetta M. Scaffold nanostrutturati "intelligenti" per la riparazione dell'anello fibroso. XI Congresso Nazionale Italian Orthopaedic Research Society (12-13 June 2010, Ancona).
67. Vadalà G, Rainer A, Centola M, **Loppini M**, Carotti S, Morini S, Trombetta M, Denaro V. Functionalized PCL Surfaces Drive Osteo/Chondrogenic Differentiation of Human Bone Marrow Mesenchymal Stem Cells. XII Congresso Nazionale Italian Orthopaedic Research Society (7-8 May 2010, Pavia).
68. Vadalà G, Rainer A, **Loppini M**, Centola M, Denaro L, Trombetta M, Denaro V. Bioactive micro-structured scaffold for annulus fibrosus. 3rd International Congress "Biotechnologies for Spinal Surgery - BIOSPINE 3" (2010, Amsterdam).

POSTERS

1. E. Guazzoni E, **Loppini M**, Favazzi C, La Camera F, Grappiolo G. Valutazione dei difetti acetabolari con modellino 3d a dimensione reale ed un suo confronto con rx e tc: una case series. 106° National Congress of the Italian Society of Orthopaedics and Traumatology (SIOT) (9-11 November 2023, Rome, Italy).
2. **Loppini M**, La Camera F, Grappiolo G. Chirurgia di revisione per l'ipermetria dolorosa dopo protesizzazione primaria dell'anca. 106° National Congress of the Italian Society of Orthopaedics and Traumatology (SIOT) (9-11 November 2023, Rome, Italy).
3. Di Matteo V, Di Pilla M, Grappiolo G, Morengi E, La Camera F, **Loppini M**. Le complicitanze

- perioperatorie della chirurgia di revisione di anca e ginocchio nella popolazione di pazienti ultraottantenni: uno studio caso-controllo retrospettivo osservazionale. 106° National Congress of the Italian Society of Orthopaedics and Traumatology (SIOT) (9-11 November 2023, Rome, Italy).
4. Gambaro FM, **Loppini M**, Chiappetta K, Spera M, Morengi E, Grappiolo G. Risultati clinici e radiografici di uno stelo corto a presa metafisaria non cementato ad un follow-up minimo di 10 anni: uno studio osservazionale prospettico. 106° National Congress of the Italian Society of Orthopaedics and Traumatology (SIOT) (9-11 November 2023, Rome, Italy).
 5. Di Matteo V, Di Pilla M, La Camera F, Morengi E, Grappiolo G, **Loppini M**. Perioperative Complications after Hip and Knee Revision Arthroplasty in the over 80 Years Old Population: A Retrospective Observational Case-Control Study. 15th Congress of the European Hip Society (EHS) (12-13 October 2023, Bern, Switzerland).
 6. **Loppini M**, La Camera F, Della Rocca A, Della Rocca F, Grappiolo G. Dual mobility cup cemented in trabecular metal cup for the management of paprosky type III defects. 14th Congress of the European Hip Society (EHS) (10-11 September 2021, Lille).
 7. **Loppini M**, La Camera F, Di Maio M, Riccio G, Casana M, Grappiolo G. Periprosthetic joint infections diagnosis: comparison of three classification systems. Virtual EFORT Congress (VEC) hybrid (30 June - 2 July 2021).
 8. **Loppini M**, La Camera F, Cannata R, Bruno CF, Favazzi C, Grappiolo G. Dual Mobility Cup Cemented In Trabecular Metal Cup For The Management Of Paprosky Type III Defects. Virtual EFORT Congress (VEC) hybrid (30 June - 2 July 2021).
 9. La Camera F, Grappiolo G, Traverso F, Talesa G, **Loppini M**. Second Generation Wagner Cone Stem: Mid-Term Clinical And Radiographic Result. Virtual EFORT Congress (VEC) hybrid (30 June - 2 July 2021).
 10. **Loppini M**, La Camera F, Bruno CF, Casana M, Grappiolo G. Is a positive intra-operative culture associated with poor results in presumed aseptic revision of total hip and knee arthroplasties? Virtual EFORT Congress (VEC) (28-30 October 2020).
 11. La Camera F, **Loppini M**, Grappiolo G. A 20-Year Follow-Up Evaluation Of Total Hip Arthroplasty In Patients With Hip Dysplasia Using A Conical Cementless Stem. Virtual EFORT Congress (VEC) (28-30 October 2020).
 12. **Loppini M**, Della Rocca F, Della Rocca A, Traverso F, Mazziotta G, Astore F, Grappiolo G. Doppio cotile in metallo trabecolare per il trattamento di difetti ossei acetabolari severi. 104° National Congress of the Italian Society of Orthopaedics and Traumatology (7-10 November 2019, Roma).
 13. La Camera F, **Loppini M**, Mazziotta G, Ruggeri R, Della Rocca A, Grappiolo G. La revisione acetabolare in pazienti displasici. 104° National Congress of the Italian Society of Orthopaedics and Traumatology (7-10 November 2019, Roma).
 14. **Loppini M**, Bruno CF, La Camera F, Favazzi C, Casana M, Ferrari MC, Grappiolo G. Is a positive bacterial culture at re-implantation associated with a poor outcome in two-stage revision for periprosthetic joint infection? 38th EBJS Congress - The European Bone & Joint Infection Society (12-14 September 2019, Antwerp).
 15. **Loppini M**, La Camera F, Ruggeri R, Della Rocca F, Della Rocca A, Traverso F, Astore F, Grappiolo G. Perioperative Morbidity In Patients Undergoing One-Stage Bilateral Versus Monolateral Total Hip Arthroplasty: A Retrospective Case-Control Study. 20th EFORT

Congress - European Federation of National Associations of Orthopaedics and Traumatology (5-7 June 2019, Lisbona).

16. **Loppini M**, La Camera F, Della Rocca A, Della Rocca F, Traverso F, Mazziotta G, Astore F, Grappiolo G. Double-Trabecular Metal Cup Technique For The Management Of Paprosky Type III Defects Without Pelvic Discontinuity. 20th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (5-7 June 2019, Lisbona).
17. La Camera F, **Loppini M**, Mazziotta G, Della Rocca A, Ruggeri R, Grappiolo G. Wagner Cone Stem In Hip Dysplasia: 20-Year Clinical And Radiographic Results. 20th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (5-7 June 2019, Lisbona).
18. **Loppini M**, Gandolfi C, Ruggeri R, Della Rocca A, Astore F, Grappiolo G. Complications and predictive factors of morbidity and mortality in patients undergoing simultaneous bilateral versus monolateral total hip arthroplasty. A retrospective case-control study. 13th Congress of the European Hip Society (EHS) (20-22 September 2018, The Hague).
19. **Loppini M**, Salvatore G, Traverso F, Della Rocca F, Santoro G, Astore F, Ricci D, Grappiolo G. Management of total hip arthroplasty dislocation: A retrospective cohort study in a tertiary referral centre. 13th Congress of the European Hip Society (EHS) (20-22 September 2018, The Hague).
20. **Loppini M**, Ferrentino D, Della Rocca A, Ruggeri R, Mazziotta G, Santoro G, Astore F, Grappiolo G. Short versus conventional femoral cementless stem in total hip arthroplasty: a prospective non-randomized comparative study. 13th Congress of the European Hip Society (EHS) (20-22 September 2018, The Hague).
21. **Loppini M**, Salvatore G, Traverso F, Della Rocca F, Mazziotta G, Santoro G, Astore F, Grappiolo G. Etiology And Management Of Total Hip Arthroplasty Dislocation: A Retrospective Cohort Study In A Tertiary Referral Centre. 19th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (30 May - 1 June 2018, Barcellona).
22. **Loppini M**, Della Rocca A, Ruggeri R, Ferrentino D, Della Rocca F, Traverso F, Astore F, Grappiolo G. Blood Loss In Primary Total Hip Arthroplasty With A Short Vs. Conventional Cementless Stem: A Retrospective Cohort Study In A Tertiary Referral Centre. 19th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (30 May - 1 June 2018, Barcellona).
23. **Loppini M**, Astore F, Della Rocca A, Mazziotta G, Ruggeri R, Santoro G, Grappiolo G. La doppia mobilità nelle revisioni di protesi di anca: risultati clinici e radiografici a medio termine. 102° National Congress of the Italian Society of Orthopaedics and Traumatology (20-23 October 2017, Palermo).
24. Ferrari MC, Eusebio A, **Loppini M**, Grappiolo G. Prosthetic joint infections in elderly patients: our two years experience. 36th EBJS Congress - The European Bone & Joint Infection Society (7-9 September, Nantes).
25. **Loppini M**, Della Rocca A, Astore F, Mazziotta G, Ricci D, Santoro G, Grappiolo G. Dual mobility cup in revision total hip arthroplasty: mid-term clinical and radiographic outcomes. 18th EFORT Congress - European Federation of National Associations of Orthopaedics and Traumatology (31 Maggio - 2 June 2017, Vienna).
26. **Loppini M**, Mazziotta G, Ruggeri R, Astore F, Della Rocca F, Grappiolo G. Clinical and radiological results at 5 years of follow-up with the GTS short stem. International combined

- meeting, British Hip Society – Italian Hip Society (26-27 November 2015, Milano).
27. Grappiolo G, **Loppini M**, Astore F, Santoro G, Traverso F, Ricci D. Mid-long term follow-up results with a new resurfacing technique with a “hybrid” mid-head femoral prosthesis. International combined meeting, British Hip Society – Italian Hip Society (26-27 November 2015, Milano).
 28. Mazziotta G, **Loppini M**, Caldarella E, Astore F, Ruggeri R, Grappiolo G. Femur first surgical technique: a smart non-computer- based procedure to match the safe zone in total hip arthroplasty. International combined meeting, British Hip Society – Italian Hip Society (26-27 November 2015, Milano).
 29. Longo UG, Rizzello G, Petrillo S, **Loppini M**, Berton A, Denaro V. Ruolo della decompressione subacromiale nelle riparazioni artroscopiche delle lesioni della cuffia dei rotatori: studio retrospettivo con follow-up a lungo termine. 99° National Congress of the Italian Society of Orthopaedics and Traumatology (22-25 November 2014, Roma).
 30. Grappiolo G, **Loppini M**, Longo UG, Ricci D, Astore F, Della Rocca F, Ruggeri R, Denaro V. Clinical and radiological findings with a new short stem: the GTS experience at a minimum follow-up of 3 years. 11° Congress European Hip Society (9-11 October 2014, Stoccolma).
 31. **Loppini M**, Longo UG, Berton A, Maffulli N, Denaro V. FIFA 11+ per la prevenzione degli infortuni nel basket: uno studio randomizzato controllato. 5° Congresso Nazionale SIGASCOT - Società Italiana di Chirurgia del Ginocchio, Artroscopia, Sport, Cartilagine e Tecnologie Ortopediche (24-26 September 2014, Parma).
 32. Rizzello G, Longo UG, **Loppini M**, Petrillo S, Berton A, Salvatore G, Maffulli N, Denaro V. Measurement of rotator cuff tendons for the management of partial thickness rotator cuff tears. A magnetic resonance study. 16th ESSKA Congress (14-17 May 2014, Amsterdam).
 33. Rizzello G, Longo UG, Petrillo S, **Loppini M**, Berton A, Salvatore G, Maffulli N, Denaro V. Arthroscopic rotator cuff repair with or without subacromial decompression. A case series study. 16th ESSKA Congress (14-17 May 2014, Amsterdam).
 34. **Loppini M**, Longo UG, Forriol F, Lanotte A, Salvatore G, Maffulli N, Denaro V. The safe zone for avoiding suprascapular nerve injury in bone block procedures. 8th Combined Meeting Of Orthopaedic Research Societies (CORS) (13-16 October 2013, Venezia).
 35. **Loppini M**, Longo UG, Berton A, Marinozzi A, Maffulli N, Denaro V. The FIFA 11+ program for the prevention of injuries in basketball: a cluster randomized controlled trial. 8th Combined Meeting Of Orthopaedic Research Societies (CORS) (13-16 October 2013, Venezia).
 36. Longo UG, **Loppini M**, Berton A, Marinozzi A, Maffulli N, Denaro V. FIFA 11+ per la prevenzione degli infortuni nel basket: uno studio controllato randomizzato a cluster. VII CONGRESSO ORTOMED (13-15 December 2012, Firenze).
 37. **Loppini M**, Longo UG, Berton A, Marinozzi A, Maffulli N, Denaro V. The FIFA 11+ program for the prevention of injuries in basketball: a cluster randomized controlled trial. World Sports Trauma Congress and 7th EFOST Congress (17-20 October 2012, Londra).
 38. Denaro V, Vadalà V, Rainer A, **Loppini M**, Trombetta M. “Smart” nanofiber membrane for annulus fibrosus repair and augmentation: an in vitro study. EuroSpine Meeting (21-24 October 2009, Varsavia).

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Milan 11/11/2024

Mattia Loppini