

BIOGRAPHICAL SKETCH

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NAME: Brandi, Maria Luisa

eRA COMMONS USER NAME (credential, e.g., agency login): marialuisa.brandi

POSITION TITLE: Full Professor of Endocrinology

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Classical Lyceum, Orvieto, Italy	Licenza Liceale	06/1972	Classic Studies
University of Florence, Italy	MD	07/1977	Medicine/Surgery, 1 st Class Honors
University of Florence, Italy	Specialty	07/1980	Endocrinology, 1 st Class Honors
National Institutes of Health (NIH), USA	NIH Training	1984/1988	Endocrinology
University of Rome, Italy	Ph.D	10/1988	Cell Biology

A. Personal Statement

I made a series of key contributions in the fields of molecular and cellular endocrinology and of bone diseases that have had major impact on the taxonomy, diagnosis and clinical management of bone and mineral disorders. I developed over 10 permanent cell lines that made possible the understanding of key mechanisms of action for calci-phospho-tropic hormones. I developed in the early years genetic tests that made possible the translation of molecular discoveries into clinical practice. I established a solid group of research in Florence, Italy, where we span from basic science to clinical studies on bone and mineral disorders. Clinical Studies from Phase 1 to observational analyses have been carried out in Florence in the past three decades. We serve as reference Center in Italy for patients suffering for common and rare disorders of the parathyroid glands, with a great interest on hereditary endocrine tumors. I have initiated and maintain clinical databases and a biological repository of Multiple Endocrine Neoplasia Syndrome Type 1 (MEN1). In the past decade our interest was extended to rare metabolic bone disorders in the adult and soon we became a leading Center for the diagnosis and therapy of these difficult diseases. This prompted the development of international registries, whose we are active participants, sitting also in the steering committee of three different repositories. These contributions have facilitated the development of clinical guidelines, encompassing MEN 1, hyperparathyroidism, hypoparathyroidism, osteoporosis, and phosphate wasting disorders.

B. Positions and Honors

Positions and Employment

- 2006-present President Fondazione Italiana di Ricerca sulle Malattie dell'Osso (F.I.R.O. Foundation)
1999-2020 Full Professor of Endocrinology at the University of Florence and Director of the Complex Clinical Unit on Bone and Mineral Disorders at the Careggi Hospital, Florence, Italy
1990-2020 Director of the Regional Referral Center for Hereditary Endocrine Tumors, Careggi Hospital, Florence, Italy
1988-1999 Associate Professor of Endocrinology at the University of Florence, Florence, Italy
1984-1988 Visiting Associate at the Metabolic Diseases Branch, NIH, Bethesda, MD, USA
1986-1988 PhD Program at the University of Rome, Italy
1977-1980 Clinical Training Fellow at the University of Florence, Florence, Italy
1980-1984 Clinical Scientist at the University of Florence, Florence, Italy

Other Experience and Professional Memberships

University of Florence

- 2016-2020 Delegate of the Rector for Health Education in the City of Florence
2007-2010 Delegate of the Rector for Italy/USA Academic Interactions
2004-2010 Scientific Director of the DeGene Spin-off
2004-2014 Coordinator of the Master on Metabolic Bone Diseases: From the Gene to the Cure
2000-2003 Representative functions for USA Academic Institutions
1998-2020 Member of PhD Evaluation Boards

National, Italy

- 2021-present Professor of Endocrinology and Metabolic Diseases at the University Tor Vergata, Roma, Italy
2020-present Professor of Endocrinology and Metabolic Diseases at the University Vita-Salute, San Raffaele, Milano, Italy
2020-present Member of Bracco Foundation
2020-present President of the Italian Observatory on Fragility Fractures
2020-present Director of the Donatello Bone Clinic of Florence
2019-present Scientific Director of the Stabilimento Chimico Farmaceutico Militare of Italy 1990-2020 Director of the Regional Center on Hereditary Endocrine Tumors
2019-present President of the Italian FRAME Project for the secondary prevention of fragility fractures
2019-present Member of the Group on Fragility Fractures of the Tuscany Region
2017-2018 Member of the Steering Committee for the Position Paper of the Italian Ministry of Health on Osteoporosis
2016-present TWIS Board Member of the Top Italian Women in Science
2015-present Scientific Attaché for the City of Florence
2010-present Executive Director of the OrtoMed Society 1991-present Coordinator of the Italian Group of Study on Multiple Endocrine Neoplasia Type 1
2009-2010 Member of the Steering Committee for the Position Paper of the Italian Ministry of Health on Osteoporosis
2008-present Consultant for the Tuscany Region on Osteoporosis
2007-present Member of the Commission on Osteoporosis of the Italian Society on Orthopaedic (SIOT)
2005-2007 President of the Italian Society on Osteoporosis (SIOMMMS)
2005 Member of the Working Group on Endocrine Disruptors, Italian Ministry of Health
2004-present Reviser for Continuous Education in Medicine 1996-1999 Chairman of the Italian Group of Study on Hypoparathyroidism
2002-present Member of the Scientific Committee of the InChianti Project
2002-present Member of the Scientific Committee of the AILA Foundation
2001 President of the First International Workshop on the Genetics of Bone Diseases, Florence
1997-1999 Member of the Scientific Committee of the Italian Society of Endocrinology

International

- 2021-present Chair-elected World MEN Conference
- 2021-present International Visiting Professor, McMaster University, Toronto, Canada
- 2019 Chairman of the First International Conference on Biomineralization in Health and Disease: From the Ocean to the Stars to the Land, Florence, Italy
- 2019-present Editor in Endocrinology of Orphanet Journal
- 2019-present Member of the Editorial Board of Journal of the Endocrine Society
- 2019-present Scientific Director of the Italian Association on Hypophosphatasia (API)
- 2019-present Scientific Director of the Italian Association on Phosphate Metabolic Disorders (AIFOSF)
- 2017 Chairman of the Third International Symposium on the Calcium Sensing Receptor, Florence, Italy
- 2017-present Scientific Director of the Italian Association for Patients with Hypoparathyroidism (APPI)
- 2016-present Member Steering Committee of the European Reference Centers Network on Rare Bone Diseases
- 2015 Chairman of the First International Consensus Conference on Hypoparathyroidism, Florence, Italy
- 2015-present Member of the Board of the International Osteoporosis Foundation (IOF)
- 2013-present Member of the Editorial Board of Calcified Tissue International
- 2013 Chairman of the 4th International workshop on the Management of Asymptomatic Primary Hyperparathyroidism, Florence, Italy
- 2008-present General Secretary of the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO)
- 2004-2019 Editor-in Chief of Clinical Cases in Mineral and Bone Metabolism
- 2004-2008 Member of the Editorial Board of Journal of Bone and Mineral Research
- 2004-2007 Member of the Editorial Board of Endocrinology
- 2002-present Scientific Director of the Italian Association on Multiple Endocrine Neoplasia (AIMEN)
- 2002-present Member of the Editorial Board of Expert Opinion in Investigational Drugs
- 2001 UICC Fellow, Mount Sinai Medical Center, New York, NY, USA
- 1999-present Member of the International Multiple Endocrine Neoplasia Committee
- 1999-present Member of the Committee of the Scientific Advisors of the International Osteoporosis Foundation
- 1998 UICC Fellow, NIDDK, NIH, Bethesda, MD, USA
- 1998 Member of the Scientific Committee of the VIIth European Congress of Endocrinology
- 1997 President of the Second International Conference on Steroids and Bone, Siena, Italy
- 1997 Member of the International Advisory Board of the 3rd International Symposium on Women's Health and Menopause, Washington DC, USA
- 1997 Recipient of an International Cancer Technology Transfer Fellowship, NIH, Bethesda, MD, USA
- 1996 UICC Fellow, NIDDK, NIH, Bethesda, MD, USA
- 1995-1998 President of the European Association for Women's Health
- 1995 Member of the Scientific Committee of the Steroids and Bone ICCRH Satellite Meeting, Melbourne, Australia
- 1995 President of the First International Meeting on New Developments in Nitric Oxide, Orvieto, Italy
- 1994 Member of the Scientific Committee of the IIIrd European Congress of Endocrinology, Amsterdam, The Netherlands
- 1993-1994 Visiting Scientist at the William Harvey Research Institute, London, UK
- 1991 Chairman of the First International Conference on Hereditary Endocrine tumors, Florence, Italy
- 1991 President of the First International Conference on Steroids and Bone, Florence, Italy
- 1990-1994 Member of the Editorial Board of Journal of Endocrinological Investigations
- 1990-1998 Member of the Editorial Board of Diabetes, Nutrition and Metabolism
- 1988-1993 Member Board of

Directors of the International Conferences on Calcium Regulating Hormones (ICCRH)

1984-1990 Reader in Endocrinology, Georgetown and Charlottesville University Schools of Medicine, USA

Honors

2021	Boy Frame Award for Excellence in Clinical Research
2019	The 9 th world most cited author in the field of osteoporosis
2016	The “Pinocchio di Carlo Lorenzini Grillo Parlante” Award
2016	The Top Italian Scientist Award
2013	The Pierre Delams IOF/ESCEO Prize
2004	The International AILA Award
2003	The Senior Award of the Italian Society of Endocrinology
1998	The Helena Rubinstein Award “Women in Science”
1991	The Sandoz Award for Gerontological Research
1990	The Shering Award of the Italian Society of Endocrinology
1989	The European Foundation Award
1988	Roussel Italia Award

C. Contributions to Science

My research has resulted in the production of novel cell models in cell biology, today available to several Laboratories around the world, and through these to the elucidation of basic mechanisms that control the bone and mineral metabolism. Treasuring my clinical experience I promoted the preparation of clinical guidelines in the area of bone and mineral metabolism, today used by clinicians worldwide (selected list of publications from a total of 800 peer-reviewed original research articles):

- Romagnoli C, Sharma P, Zonefrati R, Palmi G, Lucattelli E, Ward DT, Ellinger I, Innocenti M, Brandi ML. Study of the Expression and Function of Calcium-Sensing Receptor in Human Skeletal Muscle. *Int J Mol Sci.* 2021 Jul 6;22(14):7282. doi: 10.3390/ijms22147282. PMID: 34298895; PMCID: PMC8304165.
- Singh P, Bhadada SK, Dahiya D, Saikia UN, Arya AK, Sachdeva N, Kaur J, Behera A, Brandi ML, Rao SD. GCM2 Silencing in Parathyroid Adenoma is associated with Promoter Hypermethylation and Gain of Methylation on Histone 3. *J Clin Endocrinol Metab.* 2021 Jun 2:dgab374. doi: 10.1210/clinem/dgab374. Epub ahead of print. PMID: 34077544.
- Masi L, Marini F, Franceschelli F, Leoncini G, Cianferotti L, Cioppi F, Giusti F, Marcucci G, Gronchi G, Brandi ML. Polymorphic variants of alkaline phosphatase gene correlate with clinical signs of adult hypophosphatasia? *Osteoporos Int.* 2021 Jun 7. doi: 10.1007/s00198-021-05893-8. Epub ahead of print. PMID: 34097127.
- Pérez-Castrillón JL, Dueñas-Laita A, Brandi ML, Jódar E, Del Pino-Montes J, Quesada-Gómez JM, Cereto Castro F, Gómez-Alonso C, Gallego López L, Olmos Martínez JM, Alhambra Expósito MR, Galarraga B, González-Macías J, Bouillon R, Hernández-Herrero G, Fernández-Hernando N, Arranz-Gutiérrez P, Chinchilla SP. Calcifediol is superior to cholecalciferol in improving vitamin D status in postmenopausal women: a randomized trial. *J Bone Miner Res.* 2021 Jun 8. doi: 10.1002/jbmr.4387. Epub ahead of print. PMID: 34101900.
- Marcucci G, Masi L, Cianferotti L, Giusti F, Fossi C, Parri S, Gronchi G, Brandi ML. Chronic hypoparathyroidism and treatment with teriparatide. *Endocrine.* 2021 Apr;72(1):249-259. doi: 10.1007/s12020-020-02577-x. Epub 2021 Feb 4. PMID: 33538953; PMCID: PMC8087564.
- Tarantino U, Cariati I, Greggi C, Gasbarra E, Belluati A, Ciolli L, Maccauro G, Momoli A, Ripanti S, Falez F, Brandi ML. Skeletal System Biology and Smoke Damage: From Basic Science to Medical Clinic. *Int J Mol Sci.* 2021 Jun 21;22(12):6629. doi: 10.3390/ijms22126629. PMID: 34205688; PMCID: PMC8234270.

- Kovacs CS, Chaussain C, Osdoby P, Brandi ML, Clarke B, Thakker RV. The role of biomineralization in disorders of skeletal development and tooth formation. *Nat Rev Endocrinol.* 2021 Jun;17(6):336-349. doi: 10.1038/s41574-021-00488-z. Epub 2021 May 4. PMID: 33948016.
- Brandi ML, Clunie GPR, Houillier P, Jan de Beur SM, Minisola S, Oheim R, Seefried L. Challenges in the management of tumor-induced osteomalacia (TIO). *Bone.* 2021 Nov;152:116064. doi: 10.1016/j.bone.2021.116064. Epub 2021 Jun 18. PMID: 34147708.
- Arnold A, Dennison E, Kovacs CS, Mannstadt M, Rizzoli R, Brandi ML, Clarke B, Thakker RV. Hormonal regulation of biomineralization. *Nat Rev Endocrinol.* 2021 May;17(5):261-275. doi: 10.1038/s41574-021-00477-2. Epub 2021 Mar 16. PMID: 33727709.
- Masi L, Ferrari S, Javaid MK, Papapoulos S, Pierroz DD, Brandi ML; IOF Skeletal Rare Diseases Working Group. Bone fragility in patients affected by congenital diseases non skeletal in origin. *Orphanet J Rare Dis.* 2021 Jan 6;16(1):11. doi: 10.1186/s13023-020-01611-5. PMID: 33407701; PMCID: PMC7789665.
- Cortet B, Dennison E, Diez-Perez A, Locquet M, Muratore M, Nogués X, Ovejero Crespo D, Quarta E, Brandi ML. Radiofrequency Echographic Multi Spectrometry (REMS) for the diagnosis of osteoporosis in a European multicenter clinical context. *Bone.* 2021 Feb;143:115786. doi: 10.1016/j.bone.2020.115786. Epub 2020 Dec 2. PMID: 33278653.
- Brandi ML, Agarwal SK, Perrier ND, Lines KE, Valk GD, Thakker RV. Multiple Endocrine Neoplasia Type 1: Latest Insights. *Endocr Rev.* 2021 Mar 15;42(2):133-170. doi: 10.1210/endrev/bnaa031. PMID: 33249439; PMCID: PMC7958143.
- Niederle B, Selberherr A, Bartsch DK, Brandi ML, Doherty GM, Falconi M, Goudet P, Halfdanarson TR, Ito T, Jensen RT, Larghi A, Lee L, Öberg K, Pavel M, Perren A, Sadowski SM, Tonelli F, Triponez F, Valk GD, O'Toole D, Scott-Coombes D, Thakker RV, Thompson GB, Treglia G, Wiedenmann B. Multiple Endocrine Neoplasia Type 1 and the Pancreas: Diagnosis and Treatment of Functioning and Non-Functioning Pancreatic and Duodenal Neuroendocrine Neoplasia within the MEN1 Syndrome - An International Consensus Statement. *Neuroendocrinology.* 2021;111(7):609-630. doi: 10.1159/000511791. Epub 2020 Sep 24. PMID: 32971521.
- Sangiorgi L, Brizola E; COVID-19 Helpline for Rare Bone Diseases Group. The line between COVID-19 pandemic and rare bone diseases. *Ir J Med Sci.* 2020 Nov 2:1-2. doi: 10.1007/s11845-020-02400-6. Epub ahead of print. PMID: 33140293; PMCID: PMC7605471.
- Brandi ML, Giustina A. Sexual Dimorphism of Coronavirus 19 Morbidity and Lethality. *Trends Endocrinol Metab.* 2020 Sep 24:S1043-2760(20)30181-8. doi: 10.1016/j.tem.2020.09.003. Epub ahead of print. PMID: 33082024; PMCID: PMC7513816.
- Marini F, Falcini F, Stagi S, Fabbri S, Ciuffi S, Rigante D, Cerinic MM, Brandi ML. Study of vitamin D status and vitamin D receptor polymorphisms in a cohort of Italian patients with juvenile idiopathic arthritis. *Sci Rep.* 2020 Oct 16;10(1):17550. doi: 10.1038/s41598-020-74861-9. PMID: 33067526; PMCID: PMC7567873.
- Donati S, Ciuffi S, Marini F, Palmi G, Miglietta F, Aurilia C, Brandi ML. Multiple Endocrine Neoplasia Type 1: The Potential Role of microRNAs in the Management of the Syndrome. *Int J Mol Sci.* 2020 Oct 14;21(20):7592. doi: 10.3390/ijms21207592. PMID: 33066578; PMCID: PMC7589704.
- Maraghelli D, Brandi ML, Matucci Cerinic M, Peired AJ, Colagrande S. Edema-like marrow signal intensity: a narrative review with a pictorial essay. *Skeletal Radiol.* 2020 Oct 7. doi: 10.1007/s00256-020-03632-4. Epub ahead of print. PMID: 33029648.
- Niederle B, Selberherr A, Bartsch D, Brandi ML, Doherty GM, Falconi M, Goudet P, Halfdanarson TR, Ito T, Jensen RT, Larghi A, Lee L, Öberg K, Pavel M, Perren A, Sadowski SM, Tonelli F, Triponez F, Valk GD, O'Toole D, Scott-Coombes D, Thakker RV, Thompson GB, Treglia G, Wiedenmann B. Multiple Endocrine Neoplasia Type 1 (MEN1) and the Pancreas - Diagnosis and Treatment of Functioning and Non-Functioning Pancreatic and Duodenal Neuroendocrine Neoplasia within the MEN1 Syndrome - An International Consensus Statement. *Neuroendocrinology.* 2020 Sep 24. doi: 10.1159/000511791. Epub ahead of print. PMID: 32971521.
- Visconti VV, Fittipaldi S, Ciuffi S, Marini F, Isaia G, D'Amelio P, Migliaccio S, Marcocci C, Minisola S, Nuti R, Novelli G, Brandi ML, Botta A, Tarantino U. Circulating Long Non-Coding RNA GAS5 Is Overexpressed in Serum from Osteoporotic Patients and Is Associated with Increased Risk of Bone

Fragility. *Int J Mol Sci.* 2020 Sep 21;21(18):6930. doi: 10.3390/ijms21186930. PMID: 32967315; PMCID: PMC7554802.

- Ciuffi S, Donati S, Marini F, Palmi G, Luzi E, Brandi ML. Circulating MicroRNAs as Novel Biomarkers for Osteoporosis and Fragility Fracture Risk: Is There a Use in Assessment Risk? *Int J Mol Sci.* 2020 Sep 21;21(18):6927. doi: 10.3390/ijms21186927. PMID: 32967246; PMCID: PMC7555752.
- Brizola E, Adami G, Baroncelli GI, Bedeschi MF, Berardi P, Boero S, Brandi ML, Casareto L, Castagnola E, Frascini P, Gatti D, Giannini S, Gonfiantini MV, Landoni V, Magrelli A, Mantovani G, Michelis MB, Nasto LA, Panzeri L, Pianigiani E, Scopinaro A, Trespido L, Vianello A, Zampino G, Sangiorgi L. Providing high-quality care remotely to patients with rare bone diseases during COVID-19 pandemic. *Orphanet J Rare Dis.* 2020 Aug 31;15(1):228. doi: 10.1186/s13023-020-01513-6. PMID: 32867855; PMCID: PMC7456755.
- Minisola S, Brandi ML. Phosphate Metabolism. *Calcif Tissue Int.* 2020 Aug 9. doi: 10.1007/s00223-020-00727-x. Epub ahead of print. PMID: 32772140.
- Fuggle NR, Cooper C, Harvey NC, Al-Daghri N, Brandi ML, Bruyere O, Cano A, Dennison EM, Diez-Perez A, Kaufman JM, Palacios S, Prieto-Alhambra D, Rozenberg S, Thomas T, Tremolieres F, Rizzoli R, Kanis JA, Reginster JY. Assessment of Cardiovascular Safety of Anti-Osteoporosis Drugs. *Drugs.* 2020 Oct;80(15):1537-1552. doi: 10.1007/s40265-020-01364-2. PMID: 32725307; PMCID: PMC7536167.
- Fabbri S, Zonefrati R, Galli G, Gronchi G, Perigli G, Borrelli A, Brandi ML. In Vitro Control of Genes Critical for Parathyroid Embryogenesis by Extracellular Calcium. *J Endocr Soc.* 2020 May 25;4(7):bvaa058. doi: 10.1210/jendso/bvaa058. PMID: 32666007; PMCID: PMC7326476.
- Rozenberg S, Al-Daghri N, Aubertin-Leheudre M, Brandi ML, Cano A, Collins P, Cooper C, Genazzani AR, Hillard T, Kanis JA, Kaufman JM, Lambrinoudaki I, Laslop A, McCloskey E, Palacios S, Prieto-Alhambra D, Reginster JY, Rizzoli R, Rosano G, Trémolieres F, Harvey NC. Is there a role for menopausal hormone therapy in the management of postmenopausal osteoporosis? *Osteoporos Int.* 2020 Jul 8. doi: 10.1007/s00198-020-05497-8. Epub ahead of print. PMID: 32642851.
- Singh P, Bhadada SK, Dahiya D, Arya AK, Saikia UN, Sachdeva N, Kaur J, Brandi ML, Rao SD. Reduced Calcium Sensing Receptor (CaSR) Expression Is Epigenetically Deregulated in Parathyroid Adenomas. *J Clin Endocrinol Metab.* 2020 Sep 1;105(9):3015–24. doi: 10.1210/clinem/dgaa419. PMID: 32609827; PMCID: PMC7500582.
- Padidela R, Nilsson O, Makitie O, Beck-Nielsen S, Ariceta G, Schnabel D, Brandi ML, Boot A, Levtchenko E, Smyth M, Jandhyala R, Mughal Z. The international X-linked hypophosphataemia (XLH) registry (NCT03193476): rationale for and description of an international, observational study. *Orphanet J Rare Dis.* 2020 Jun 30;15(1):172. doi: 10.1186/s13023-020-01434-4. PMID: 32605590; PMCID: PMC7329472.
- Gronskaia S, Melnichenko G, Rozhinskaya L, Grebennikova T, Mamedova E, Pigarova E, Przhialkovskaya E, Dzeranova L, Dedov I, Fadeyev V, Brandi ML, Belaya Z. A registry for patients with chronic hypoparathyroidism in Russian adults. *Endocr Connect.* 2020 Jul;9(7):627-636. doi: 10.1530/EC-20-0219. PMID: 32580149; PMCID: PMC7424359.
- Donati S, Ciuffi S, Palmi G, Brandi ML. Circulating miRNAs: A New Opportunity in Bone Fragility. *Biomolecules.* 2020 Jun 18;10(6):927. doi: 10.3390/biom10060927. PMID: 32570976; PMCID: PMC7355961.
- Perrier ND, Arnold A, Costa-Guda J, Busaidy NL, Nguyen H, Chuang HH, Brandi ML. HEREDITARY ENDOCRINE TUMOURS: CURRENT STATE-OF-THE-ART AND RESEARCH OPPORTUNITIES: New and future perspectives for parathyroid carcinoma. *Endocr Relat Cancer.* 2020 Aug;27(8):T53-T63. doi: 10.1530/ERC-20-0018. PMID: 32449693.
- Marcucci G, Brandi ML. Congenital Conditions of Hypophosphatemia Expressed in Adults. *Calcif Tissue Int.* 2020 May 14. doi: 10.1007/s00223-020-00695-2. Epub ahead of print. PMID: 32409880.
- Maraghelli D, Giusti F, Marini F, Brandi ML. Bone tissue and mineral metabolism in hereditary endocrine tumors: clinical manifestations and genetic bases. *Orphanet J Rare Dis.* 2020 Apr 23;15(1):102. doi: 10.1186/s13023-020-01380-1. PMID: 32326947; PMCID: PMC7181496.

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- Cronin O, Subedi D, Forsyth L, Goodman K, Lewis SC, Keerie C, Walker A, Porteous M, Cetnarskyj R, Ranganath LR, Selby PL, Hampson G, Chandra R, Ho S, Tobias JH, Young-Min SA, McKenna MJ, Crowley RK, Fraser WD, Tang J, Gennari L, Nuti R, Brandi ML, Del Pino-Montes J, Devogelaer JP, Durnez A, Isaia GC, Di Stefano M, Rubio JB, Guanabens N, Seibel MJ, Walsh JP, Kotowicz MA, Nicholson GC, Duncan EL, Major G, Horne A, Gilchrist NL, Ralston SH. Characteristics of Early Paget's Disease in SQSTM1 Mutation Carriers: Baseline Analysis of the ZIPP Study Cohort. *J Bone Miner Res*. 2020 Jul;35(7):1246-1252. doi: 10.1002/jbmr.4007. Epub 2020 Apr 20. PMID: 32176830.
- Fuggle NR, Cooper C, Oreffo ROC, Price AJ, Kaux JF, Maheu E, Cutolo M, Honvo G, Conaghan PG, Berenbaum F, Branco J, Brandi ML, Cortet B, Veronese N, Kurth AA, Matijevic R, Roth R, Pelletier JP, Martel-Pelletier J, Vlaskovska M, Thomas T, Lems WF, Al-Daghri N, Bruyère O, Rizzoli R, Kanis JA, Reginster JY. Alternative and complementary therapies in osteoarthritis and cartilage repair. *Aging Clin Exp Res*. 2020 Apr;32(4):547-560. doi: 10.1007/s40520-020-01515-1. Epub 2020 Mar 13. PMID: 32170710; PMCID: PMC7170824.
- Romagnoli C, Zonefrati R, Sharma P, Innocenti M, Cianferotti L, Brandi ML. Characterization of Skeletal Muscle Endocrine Control in an In Vitro Model of Myogenesis. *Calcif Tissue Int*. 2020 Jul;107(1):18-30. doi: 10.1007/s00223-020-00678-3. Epub 2020 Feb 27. PMID: 32107602; PMCID: PMC7271047.
- Adami G, Arioli G, Bianchi G, Brandi ML, Caffarelli C, Cianferotti L, Gatti D, Girasole G, Gonnelli S, Manfredini M, Muratore M, Quarta E, Quarta L. Radiofrequency echographic multi spectrometry for the prediction of incident fragility fractures: A 5-year follow-up study. *Bone*. 2020 May;134:115297. doi: 10.1016/j.bone.2020.115297. Epub 2020 Feb 21. PMID: 32092480.
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D. Additional Information: Research Support and No Profit Experience

Ongoing/Recent Research Support

- Brandi (PI) 2020-2023
Banca d'Italia – Sviluppo di un complesso RNA antagomir anti miR24-3p umano, coniugato con nanoparticelle paramagnetiche, per la terapia molecolare della neoplasia endocrina multipla di tipo 1”.
- Brandi (PI) 2020-2023
Alexion – Biochemical screenings and genetic testing for patients with suspected of hypophosphatasia
- Brandi (PI) 2021-2022
Monte Rosa – Molecular Analysis of Mechanisms that Control Parathyroid Cell Function and Differentiation
- Brandi (PI) 2020-2022
Regione Toscana – The Omics Sciences Against Osteosarcoma (TOSCANO).
- Brandi (co-applicant) 2019-2022
MIUR-PRIN - Physiopathology, Epidemiology and Genetics of primary pArathyroid hormone deficiency and reSistance: a mUlticenter italian Study (PEGASUS).
- Brandi (PI) 2019-2021
Abiogen Pharma – Effects of bisphenol A on vitamin D metabolism.
- Brandi (PI) 2019-2020
Fondazione Cassa di Risparmio di Firenze - Development of an in vitro bioassay system for cannabinoids.
- Brandi (PI) 2018-2022
Faes Farma - Effect of the administration of different Hidroferol® Soft Gelatine Capsules (calcifediol) and cholecalciferol (Dibase®) regimens on 25(OH)D levels and markers of bone remodelling in postmenopausal women with 25(OH)D deficiency. Influence of clinical and genetic factors in the osteoporotic and nonosteoporotic population.
- Brandi (PI) 2018-2022
Kyowa Kirin - A Phase 3b Open-label Study of the Anti-FGF23 Antibody, Burosumab (KRN23) in Adult Patients with X-linked Hypophosphatemia (XLH).
- Brandi (PI) 2018-2022
Shire International - A Randomized, Double-blind, Placebo-controlled, Adaptive Study to Evaluate Symptom Improvement and Metabolic Control Among Adult Subjects With Symptomatic Hypoparathyroidism Treated With Recombinant Human Parathyroid Hormone[rhPTH(1-84)].
- Brandi (PI) 2018-2022
Alexion – Hypophosphatasia and atypical skeletal fractures
- Brandi (PI) 2018-2022
Kyowa Kirin - X-linked Hypophosphatemia Registry Protocol.
- Brandi (co-applicant) 2018-2020
Regione Toscana - Development of an antagomir complex against human miR24-1, conjugated with magnetic nanoparticles, for molecular therapy of multiple endocrine neoplasia type 1 (DANTE).

Brandi (PI) 2018-2019
Banca d'Italia - FirmoLab: development and implementation of the research activity of a specialized laboratory for the study of the cellular and molecular bases of mineralization disorders in rare bone diseases.

Brandi (PI) 2018
The Rotary Foundation - Distretto 2071 - New possibilities for the treatment of mineralization disorders in rare diseases.

Brandi (PI) 2017-2022
Fondazione Cassa di Risparmio di Firenze- Establishment and characterization of cell cultures obtained from human musculoskeletal biopsies for the study of muscle regeneration.

Brandi (PI) 2017-2018
Shire international – Observational study on hypoparathyroidism in the Tuscany Region.

Brandi (PI) 2016-2020
Fondazione Cassa di Risparmio di Firenze - Establishment of stable parathyroid cellular models to study the disorders of the parathyroid glands.

Brandi (PI) 2016-2020
Alexion - An observational, longitudinal, prospective, long-term registry of patients with hypophosphatasia.

Brandi (PI) 2016-2020
MIUR-PRIN - Complex signatures of circulating miRNAs as novel biomarkers for osteoporosis and fracture risk.

Brandi (PI) 2016-2017
Banca d'Italia - In vitro study on the effects of parathyroid hormone (PTH) on bone mineralization process.

Brandi (PI) 2016-2017
Banca Ifigest (fondazione Biagioni-Borgogni ONLUS) - In vitro study of the role of APC gene mutations on osteoblastic differentiation and mineralisation in mesenchymal stem cells of patients with family adenomatosis polyposia.

Brandi (PI) 2016-2017
Ultragenyx Pharmaceutical - A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study with Open-Label Extension to Assess the Efficacy and Safety of KRN23 in Adults with X-linked Hypophosphatemia (XLH).

Brandi (PI) 2016-2017
Shire Italia – Bone metabolism in Gaucher disease.

Brandi (co-applicant) 2015-2020
EU - CaSR Biomedicine - Calcium-Sensing Receptor (CaSR): Therapeutics for Non-Communicable Diseases.

Brandi (PI) 2015-2017
Fondazione Cassa di Risparmio di Firenze - Next-generation sequencing in hereditary endocrine tumors.

Brandi (PI) 2014-2017
MIUR-PRIN – Skeletal Musclicrinology.

Brandi (PI) 2014-2015
Bruno Farmaceutici - The effect of a daily and weekly administration of different doses of calcidiol on 25(OH)D₃ serum levels and on mineral and bone metabolic markers in postmenopausal female subjects and in male subjects, both over 55 years of age with inadequate levels or deficit of 25(OH)D₃.

Brandi (PI) 2013-2015

Agenzia Italiana del Farmaco (AIFA) - Recombinant human parathyroid hormone (rhPTH (1-34): Teripatide) as therapy for refractory hypoparathyroidism code MRAR08E003.

Brandi (PI) 2013-2016
Regione Toscana - MicroRNA codes in osteosarcoma cancer stem cells.

Brandi (PI) 2013-2016
EU - CREDITS4HEALTH - Credits-based, people-centric approach for the adoption of healthy life-styles and balanced Mediterranean diet in the frame of social participation and innovation for health promotion.

Brandi (PI) 2011-2016
University of Edimburgh - Randomised trial on hereditary Paget disease of bone.

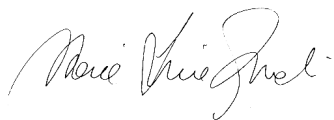
No Profit Experience

2006-present President and Found Raiser for Fondazione Italiana Ricerca sulle Malattie dell'Osso (F.I.R.M.O.)
(see website: www.fondazionefirmo.com)

Ai sensi del D. lgs. 196/03, art. 13, si autorizza il trattamento e la diffusione dei dati riportati nel presente c.v.

Firenze, 30/07/2021

In fede,



Maria Luisa Brandi