



BIOGRAPHICAL SKETCH

NAME: Brandi, Maria Luisa

eRA COMMONS USER NAME: marialuisa.brandi

POSITION TITLE: President FIRMO Foundation

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Completion Date	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

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	Member of Bracco Foundation
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	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	Member of 100Esperte
2016-present	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	Expert for Osteoporosis at the Forum Salute of Corriere della Sera
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	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 VII th 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 III rd 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

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):

- 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.
- 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.
- Arnold A, Dennison E, Kovacs CS, Mannstadt M, Rizzoli R, Brandi ML, Clarke B, Thakker RV. Hormonal regulation of biomineralization. *Nat Rev Endocrinol*. 2021 Mar 16. doi: 10.1038/s41574-021-00477-2. Epub ahead of print. PMID: 33727709.
- Palmi G, Romagnoli C, Donati S, Zonefrati R, Galli G, Marini F, Iantomasi T, Aldinucci A, Leoncini G, Franchi A, Beltrami G, Campanacci DA, Capanna R, Brandi ML. Analysis of a Preliminary microRNA Expression Signature in a Human Telangiectatic Osteogenic Sarcoma Cancer Cell Line. *Int J Mol Sci*. 2021 Jan 25;22(3):1163. doi: 10.3390/ijms22031163. PMID: 33503899; PMCID: PMC7866083.
- 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, Oberg 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, Trespidi 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.
- Onopiuk M, Eby B, Nesin V, Ngo P, Lerner M, Gorvin CM, Stokes VJ, Thakker RV, Brandi ML, Chang W, Humphrey MB, Tsiokas L, Lau K. Control of PTH secretion by the TRPC1 ion channel. *JCI Insight*. 2020 Apr 23;5(8):e132496. doi: 10.1172/jci.insight.132496. PMID: 32213715; PMCID: PMC7205425.
- 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, Vlaszkovska 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.
- Domazetovic V, Marcucci G, Falsetti I, Bilia AR, Vincenzini MT, Brandi ML, Iantomasi T. Blueberry Juice Antioxidants Protect Osteogenic Activity against Oxidative Stress and Improve Long-Term Activation of the Mineralization Process in Human Osteoblast-Like SaOS-2 Cells: Involvement of SIRT1. *Antioxidants (Basel)*. 2020 Feb 1;9(2):125. doi: 10.3390/antiox9020125. PMID: 32024159; PMCID: PMC7070538.
- Grigorie D, Socaliuc A, Ciuffi S, Franceschelli F, Marini F, Ioachim D, Terzea D, Brandi MLL. HIGH RISK OF PARATHYROID CARCINOMA AND GENETIC SCREENING IN THE FIRST DIAGNOSED ROMANIAN FAMILY WITH HYPERPARATHYROIDISM-JAW TUMOR SYNDROME AND A GERMLINE MUTATION OF THE CDC73 GENE. *Acta Endocrinol (Buchar)*. 2019 Jul-Sep;15(3):398-403. doi: 10.4183/aeb.2019.398. PMID: 32010362; PMCID: PMC6992406.
- Lecoq AL, Brandi ML, Linglart A, Kamenický P. Management of X-linked hypophosphatemia in adults. *Metabolism*. 2020 Feb;103S:154049. doi: 10.1016/j.metabol.2019.154049. Epub 2019 Dec 18. PMID: 31863781.
- Javaid MK, Boyce A, Appelman-Dijkstra N, Ong J, Defabianis P, Offiah A, Arundel P, Shaw N, Pos VD, Underhil A, Portero D, Heral L, Heegaard AM, Masi L, Monsell F, Stanton R, Dijkstra PDS, Brandi ML, Chapurlat R, Hamdy NAT, Collins MT. Correction to: Best practice management guidelines for fibrous dysplasia/McCune-Albright syndrome: a consensus statement from the FD/MAS international

consortium. *Orphanet J Rare Dis.* 2019 Nov 21;14(1):267. doi: 10.1186/s13023-019-1255-6. Erratum for: *Orphanet J Rare Dis.* 2019 Jun 13;14(1):139. PMID: 31752972; PMCID: PMC6868680.

- Donati S, Ciuffi S, Brandi ML. Human Circulating miRNAs Real-time qRT-PCR-based Analysis: An Overview of Endogenous Reference Genes Used for Data Normalization. *Int J Mol Sci.* 2019 Sep 5;20(18):4353. doi: 10.3390/ijms20184353. PMID: 31491899; PMCID: PMC6769746.
- Cronin O, 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 S, McKenna MJ, Crowley RK, Fraser WD, Gennari L, Nuti R, Brandi ML, Del Pino-Montes J, Devogelaer JP, Durnez A, Isaia G, Di Stefano M, Guañabens N, Blanch J, Seibel MJ, Walsh JP, Kotowicz MA, Nicholson GC, Duncan EL, Major G, Horne A, Gilchrist NL, Boers M, Murray GD, Charnock K, Wilkinson D, Russell RGG, Ralston SH. Zoledronate in the prevention of Paget's (ZIPP): protocol for a randomised trial of genetic testing and targeted zoledronic acid therapy to prevent SQSTM1-mediated Paget's disease of bone. *BMJ Open.* 2019 Sep 4;9(9):e030689. doi: 10.1136/bmjopen-2019-030689. PMID: 31488492; PMCID: PMC6731944.
- Lorentzon M, Branco J, Brandi ML, Bruyère O, Chapurlat R, Cooper C, Cortet B, Diez-Perez A, Ferrari S, Gasparik A, Herrmann M, Jorgensen NR, Kanis J, Kaufman JM, Laslop A, Locquet M, Matijevic R, McCloskey E, Minisola S, Pikner R, Reginster JY, Rizzoli R, Szulc P, Vlaskovska M, Cavalier E. Algorithm for the Use of Biochemical Markers of Bone Turnover in the Diagnosis, Assessment and Follow-Up of Treatment for Osteoporosis. *Adv Ther.* 2019 Oct;36(10):2811-2824. doi: 10.1007/s12325-019-01063-9. Epub 2019 Aug 22. PMID: 31440982; PMCID: PMC6822833.
- Biver E, Berenbaum F, Valdes AM, Araujo de Carvalho I, Bindels LB, Brandi ML, Calder PC, Castronovo V, Cavalier E, Cherubini A, Cooper C, Dennison E, Franceschi C, Fuggle N, Laslop A, Miossec P, Thomas T, Tuzun S, Veronese N, Vlaskovska M, Reginster JY, Rizzoli R. Gut microbiota and osteoarthritis management: An expert consensus of the European society for clinical and economic aspects of osteoporosis, osteoarthritis and musculoskeletal diseases (ESCEO). *Ageing Res Rev.* 2019 Nov;55:100946. doi: 10.1016/j.arr.2019.100946. Epub 2019 Aug 19. PMID: 31437484.
- Diez-Perez A, Brandi ML, Al-Daghri N, Branco JC, Bruyère O, Cavalli L, Cooper C, Cortet B, Dawson-Hughes B, Dimai HP, Gonnelli S, Hadji P, Halbout P, Kaufman JM, Kurth A, Locquet M, Maggi S, Matijevic R, Reginster JY, Rizzoli R, Thierry T. Radiofrequency echographic multi-spectrometry for the in-vivo assessment of bone strength: state of the art-outcomes of an expert consensus meeting organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO). *Aging Clin Exp Res.* 2019 Oct;31(10):1375-1389. doi: 10.1007/s40520-019-01294-4. Epub 2019 Aug 17. PMID: 31422565; PMCID: PMC6763416.
- Colucci R, Conti R, Dragoni F, Cammi A, Cianferotti L, Brandi ML, Moretti S. Evidence of a possible therapeutic role of vitamin D in a cohort of adult Caucasian vitiligo patients. *Int J Vitam Nutr Res.* 2020 Jun;90(3-4):200-204. doi: 10.1024/0300-9831/a000605. Epub 2019 Aug 15. PMID: 31414974.
- Hilgsmann M, Cornelissen D, Vrijens B, Abrahamsen B, Al-Daghri N, Biver E, Brandi ML, Bruyère O, Burlat N, Cooper C, Cortet B, Dennison E, Diez-Perez A, Gasparik A, Grosso A, Hadji P, Halbout P, Kanis JA, Kaufman JM, Laslop A, Maggi S, Rizzoli R, Thomas T, Tuzun S, Vlaskovska M, Reginster JY. Determinants, consequences and potential solutions to poor adherence to anti-osteoporosis treatment: results of an expert group meeting organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) and the International Osteoporosis Foundation (IOF). *Osteoporos Int.* 2019 Nov;30(11):2155-2165. doi: 10.1007/s00198-019-05104-5. Epub 2019 Aug 7. PMID: 31388696; PMCID: PMC6811382.
- Javaid MK, Boyce A, Appelman-Dijkstra N, Ong J, Defabianis P, Offiah A, Arundel P, Shaw N, Pos VD, Underhil A, Portero D, Heral L, Heegaard AM, Masi L, Monsell F, Stanton R, Dijkstra PDS, Brandi ML, Chapurlat R, Hamdy NAT, Collins MT. Best practice management guidelines for fibrous dysplasia/McCune-Albright syndrome: a consensus statement from the FD/MAS international consortium. *Orphanet J Rare Dis.* 2019 Jun 13;14(1):139. doi: 10.1186/s13023-019-1102-9. Erratum in: *Orphanet J Rare Dis.* 2019 Nov 21;14(1):267. PMID: 31196103; PMCID: PMC6567644.
- Portale AA, Carpenter TO, Brandi ML, Briot K, Cheong HI, Cohen-Solal M, Crowley R, Jan De Beur S, Eastell R, Imanishi Y, Imel EA, Ing S, Ito N, Javaid M, Kamenicky P, Keen R, Kubota T, Lachmann R,

Perwad F, Pitukcheewanont P, Ralston SH, Takeuchi Y, Tanaka H, Weber TJ, Yoo HW, Zhang L, Theodore-Oklota C, Mealiffe M, San Martin J, Insogna K. Continued Beneficial Effects of Burosumab in Adults with X-Linked Hypophosphatemia: Results from a 24-Week Treatment Continuation Period After a 24-Week Double-Blind Placebo-Controlled Period. *Calcif Tissue Int.* 2019 Sep;105(3):271-284. doi: 10.1007/s00223-019-00568-3. Epub 2019 Jun 4. PMID: 31165191.

- Emma F, Cappa M, Antoniazzi F, Bianchi ML, Chiodini I, Eller Vainicher C, Di Iorgi N, Maghnie M, Cassio A, Balsamo A, Baronio F, de Sanctis L, Tessaris D, Baroncelli GI, Mora S, Brandi ML, Weber G, D'Ausilio A, Lanati EP. X-linked hypophosphatemic rickets: an Italian experts' opinion survey. *Ital J Pediatr.* 2019 May 31;45(1):67. doi: 10.1186/s13052-019-0654-6. PMID: 31151476; PMCID: PMC6545008.
- Marcucci G, Beltrami G, Tamburini A, Body JJ, Confavreux CB, Hadji P, Holzer G, Kendler D, Napoli N, Pierroz DD, Rizzoli R, Brandi ML. Bone health in childhood cancer: review of the literature and recommendations for the management of bone health in childhood cancer survivors. *Ann Oncol.* 2019 Jun 1;30(6):908-920. doi: 10.1093/annonc/mdz120. PMID: 31111878.
- Haffner D, Emma F, Eastwood DM, Duplan MB, Bacchetta J, Schnabel D, Wicart P, Bockenhauer D, Santos F, Levtchenko E, Harvengt P, Kirchhoff M, Di Rocco F, Chaussain C, Brandi ML, Savendahl L, Briot K, Kamenicky P, Rejnmark L, Linglart A. Clinical practice recommendations for the diagnosis and management of X-linked hypophosphatemia. *Nat Rev Nephrol.* 2019 Jul;15(7):435-455. doi: 10.1038/s41581-019-0152-5. PMID: 31068690; PMCID: PMC7136170.
- Domazetovic V, Marcucci G, Pierucci F, Bruno G, Di Cesare Mannelli L, Ghelardini C, Brandi ML, Iantomasi T, Meacci E, Vincenzini MT. Blueberry juice protects osteocytes and bone precursor cells against oxidative stress partly through SIRT1. *FEBS Open Bio.* 2019 Jun;9(6):1082-1096. doi: 10.1002/2211-5463.12634. Epub 2019 Apr 20. PMID: 31006177; PMCID: PMC6551492.
- de Wit M, Cooper C, Tugwell P, Bere N, Kirwan J, Conaghan PG, Roberts C, Aujoulat I, Al-Daghri N, Araujo de Carvalho I, Barker M, Bedlington N, Brandi ML, Bruyère O, Burlet N, Halbout P, Hilgsmann M, Jiwa F, Kanis JA, Laslop A, Lawrence W, Pinto D, Prieto Yerro C, Rabenda V, Rizzoli R, Scholte-Voshaar M, Vlaskovska M, Reginster JY. Practical guidance for engaging patients in health research, treatment guidelines and regulatory processes: results of an expert group meeting organized by the World Health Organization (WHO) and the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO). *Aging Clin Exp Res.* 2019 Jul;31(7):905-915. doi: 10.1007/s40520-019-01193-8. Epub 2019 Apr 16. PMID: 30993659; PMCID: PMC6589151.
- Romagnoli C, Pampaloni B, Brandi ML. Muscle endocrinology and its relation with nutrition. *Aging Clin Exp Res.* 2019 Jun;31(6):783-792. doi: 10.1007/s40520-019-01188-5. Epub 2019 Apr 11. PMID: 30977083.
- Ciuffi S, Cianferotti L, Nesi G, Luzi E, Marini F, Giusti F, Zonefrati R, Gronchi G, Perigli G, Brandi ML. Characterization of a novel CDC73 gene mutation in a hyperparathyroidism-jaw tumor patient affected by parathyroid carcinoma in the absence of somatic loss of heterozygosity. *Endocr J.* 2019 Apr 25;66(4):319-327. doi: 10.1507/endocrj.EJ18-0387. Epub 2019 Feb 22. PMID: 30799315.
- Buckinx F, Landi F, Cesari M, Fieding RA, Visser M, Engelke K, Maggi S, Dennison E, Al-Daghri NM, Allepaerts S, Bauer J, Bautmans I, Brandi ML, Bruyère O, Cederholm T, Cerreta F, Cherubini A, Cooper C, Cruz-Jentoft A, McCloskey E, Dawson-Hughes B, Kaufman JM, Laslop A, Petermans J, Reginster JY, Rizzoli R, Robinson S, Rolland Y, Rueda R, Vellas B, Kanis JA. The authors reply: Letter on: "Pitfalls in the measurement of muscle mass: a need for a reference standard" by Clark et al. *J Cachexia Sarcopenia Muscle.* 2018 Dec;9(7):1272-1274. doi: 10.1002/jcsm.12387. PMID: 30697981; PMCID: PMC6351670.
- Marcucci G, Cianferotti L, Brandi ML. Clinical presentation and management of hypoparathyroidism. *Best Pract Res Clin Endocrinol Metab.* 2018 Dec;32(6):927-939. doi: 10.1016/j.beem.2018.09.007. Epub 2018 Sep 28. PMID: 30665553.
- Cianferotti L, Marcucci G, Brandi ML. Causes and pathophysiology of hypoparathyroidism. *Best Pract Res Clin Endocrinol Metab.* 2018 Dec;32(6):909-925. doi: 10.1016/j.beem.2018.07.001. Epub 2018 Jul 29. PMID: 30665552.
- Marcucci G, Brandi ML. Conventional Treatment of Hypoparathyroidism. *Front Horm Res.* 2019;51:160-164. doi: 10.1159/000491046. Epub 2018 Nov 19. PMID: 30641530.

- Marcucci G, Brandi ML. A New Era for Chronic Management of Hypoparathyroidism: Parathyroid Hormone Peptides. *Front Horm Res.* 2019;51:165-171. doi: 10.1159/000491047. Epub 2018 Nov 19. PMID: 30641529.
- Javaid MK, Boyce A, Appelman-Dijkstra N, Ong J, Defabianis P, Offiah A, Arundel P, Shaw N, Pos VD, Underhil A, Portero D, Heral L, Heegaard AM, Masi L, Monsell F, Stanton R, Dijkstra PDS, Brandi ML, Chapurlat R, Hamdy NAT, Collins MT. Correction to: Best practice management guidelines for fibrous dysplasia/McCune-Albright syndrome: a consensus statement from the FD/MAS international consortium. *Orphanet J Rare Dis.* 2019 Nov 21;14(1):267.
- Donati S, Ciuffi S, Brandi ML. Human Circulating miRNAs Real-time qRT-PCR-based Analysis: An Overview of Endogenous Reference Genes Used for Data Normalization. *Int J Mol Sci.* 2019 Sep 5;20(18). pii: E4353.
- Cronin O, 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 S, McKenna MJ, Crowley RK, Fraser WD, Gennari L, Nuti R, Brandi ML, Del Pino-Montes J, Devogelaer JP, Durnez A, Isaia G, Di Stefano M, Guañabens N, Blanch J, Seibel MJ, Walsh JP, Kotowicz MA, Nicholson GC, Duncan EL, Major G, Horne A, Gilchrist NL, Boers M, Murray GD, Charnock K, Wilkinson D, Russell RGG, Ralston SH. Zoledronate in the prevention of Paget's (ZiPP): protocol for a randomised trial of genetic testing and targeted zoledronic acid therapy to prevent SQSTM1-mediated Paget's disease of bone. *BMJ Open.* 2019 Sep 4;9(9):e030689.
- Javaid MK, Boyce A, Appelman-Dijkstra N, Ong J, Defabianis P, Offiah A, Arundel P, Shaw N, Pos VD, Underhil A, Portero D, Heral L, Heegaard AM, Masi L, Monsell F, Stanton R, Dijkstra PDS, Brandi ML, Chapurlat R, Hamdy NAT, Collins MT. Best practice management guidelines for fibrous dysplasia/McCune-Albright syndrome: a consensus statement from the FD/MAS international consortium. *Orphanet J Rare Dis.* 2019 Jun 13;14(1):139.
- Portale AA, Carpenter TO, Brandi ML, Briot K, Cheong HI, Cohen-Solal M, Crowley R, Jan De Beur S, Eastell R, Imanishi Y, Imel EA, Ing S, Ito N, Javaid M, Kamenicky P, Keen R, Kubota T, Lachmann R, Perwad F, Pitukcheewanont P, Ralston SH, Takeuchi Y, Tanaka H, Weber TJ, Yoo HW, Zhang L, Theodore-Oklotka C, Mealiffe M, San Martin J, Insogna K. Continued Beneficial Effects of Burosumab in Adults with X-Linked Hypophosphatemia: Results from a 24-Week Treatment Continuation Period After a 24-Week Double-Blind Placebo-Controlled Period. *Calcif Tissue Int.* 2019 Sep;105(3):271-284.
- Marcucci G, Beltrami G, Tamburini A, Body JJ, Confavreux CB, Hadji P, Holzer G, Kendler D, Napoli N, Pierroz DD, Rizzoli R, Brandi ML. Bone health in childhood cancer: review of the literature and recommendations for the management of bone health in childhood cancer survivors. *Ann Oncol.* 2019 May 21.
- Haffner D, Emma F, Eastwood DM, Duplan MB, Bacchetta J, Schnabel D, Wicart P, Bockenhauer D, Santos F, Levtchenko E, Harvengt P, Kirchhoff M, Di Rocco F, Chaussain C, Brandi ML, Savendahl L, Briot K, Kamenicky P, Rejnmark L, Linglart A. Clinical practice recommendations for the diagnosis and management of X-linked hypophosphataemia. *Nat Rev Nephrol.* 2019 Jul;15(7):435-455.
- Marcucci G, Brandi ML. Conventional Treatment of Hypoparathyroidism. *Front Horm Res.* 2019;51:160-164.
- Marcucci G, Brandi ML. A New Era for Chronic Management of Hypoparathyroidism: Parathyroid Hormone Peptides. *Front Horm Res.* 2019;51:165-171.
- Khan AA, Koch C, Van Uum SHM, Baillargeon JP, Bollerslev J, Brandi ML, Marcocci C, Rejnmark L, Rizzoli R, Shrayyef MZ, Thakker RV, Yildiz BO, Clarke B. Standards of Care for Hypoparathyroidism in Adults. *Eur J Endocrinol.* 2018 Dec 1. pii: EJE-18-0609.R1.
- Hannan FM, Kallay E, Chang W, Brandi ML, Thakker RV. The calcium-sensing receptor in physiology and in calcitropic and noncalcitropic diseases. *Nat Rev Endocrinol.* 2018 Dec;15(1):33-51.
- Marini F, Giusti F, Brandi ML. Multiple endocrine neoplasia type 1: extensive analysis of a large database of Florentine patients. *Orphanet J Rare Dis.* 14;13(1):205, 2018.
- Habibullah M, Porter JA, Kluger N, Ranki A, Krohn KJE, Brandi ML, Brown EM, Weetman AP, Kemp EH. Calcium-Sensing Receptor Autoantibodies in Patients with Autoimmune Polyendocrine Syndrome Type

1: Epitopes, Specificity, Functional Affinity, IgG Subclass, and Effects on Receptor Activity. *J Immunol.* 201(11): 3175-3183, 2018.

- Marangoni F, Pellegrino L, Verduci E, Ghiselli A, Bernabei R, Calvani R, Cetin I, Giampietro M, Perticone F, Piretta L, Giacco R, La Vecchia C, Brandi ML, Ballardini D, Banderali G, Bellentani S, Canzone G, Cricelli C, Faggiano P, Ferrara N, Flachi E, Gonnelli S, Macca C, Magni P, Marelli G, Marrocco W, Miniello VL, Origo C, Pietrantonio F, Silvestri P, Stella R, Strazzullo P, Troiano E, Poli A. Cow's Milk Consumption and Health: A Health Professional's Guide. *J Am Coll Nutr.* 38(3): 197-208, 2019.
- Marcucci G, Masi L, Ferrari S, Haffner D, Javaid MK, Kamenický P, Reginster JY, Rizzoli R, Brandi ML. Phosphate wasting disorders in adults. *Osteoporos Int.* 29(11):2369-2387, 2018.
- Vellucci R, Terenzi R, Kanis JA, Kress HG, Mediatì RD, Reginster JY, Rizzoli R, Brandi ML. Understanding osteoporotic pain and its pharmacological treatment. *Osteoporos Int.* 29(7): 1477-1491, 2018.
- Cianferotti L, Parri S, Gronchi G, Marcucci G, Cipriani C, Pepe J, Raglianti M, Minisola S, Brandi ML. Prevalence of Chronic Hypoparathyroidism in a Mediterranean Region as Estimated by the Analysis of Anonymous Healthcare Database. *Calcif Tissue Int.* 103(2): 144-150, 2018.
- Marcucci G, Cianferotti L, Parri S, Altieri P, Arvat E, Benvenga S, Betterle C, Bondanelli M, Boscaro M, Camozzi V, Centaro GM, Cetani F, Chiodini I, Ciampolillo A, Colao A, Corbetta S, De Feo ML, Uberti ED, Faggiano A, Fornari R, Gaspari AL, Giorgino F, Giuliani V, Iacobone M, Innaro N, Lamacchia O, Lenzi A, Mantovani G, Marcocci C, Masi L, Migliaccio S, Palmieri S, Pasquali R, Perigli G, Piccini V, Romagnoli E, Ruggeri RM, Rulli F, Samà MT, Tomaino G, Trimarchi F, Zatelli MC, Brandi ML. HypoparaNet: A Database of Chronic Hypoparathyroidism Based on Expert Medical-Surgical Centers in Italy. *Calcif Tissue Int.* 103(2): 151-163, 2018.
- Marini F, Giusti F, Fossi C, Cioppi F, Cianferotti L, Masi L, Boaretto F, Zovato S, Cetani F, Colao A, Davì MV, Faggiano A, Fanciulli G, Ferolla P, Ferone D, Loli P, Mantero F, Marcocci C, Opocher G, Beck-Peccoz P, Persani L, Scillitani A, Guizzardi F, Spada A, Tomassetti P, Tonelli F, Brandi ML. Multiple endocrine neoplasia type 1: analysis of germline MEN1 mutations in the Italian multicenter MEN1 patient database. *Endocrine.* 62(1): 215-233, 2018.
- Saag KG, Petersen J, Brandi ML, Karaplis AC, Lorentzon M, Thomas T, Maddox J, Fan M, Meisner PD, Grauer A. Romosozumab or Alendronate for Fracture Prevention in Women with Osteoporosis. *N Engl J Med.* 2017 Oct 12;377(15):1417-1427.
- Minisola S, Cianferotti L, Biondi P, Cipriani C, Fossi C, Franceschelli F, Giusti F, Leoncini G, Pepe J, Bischoff-Ferrari HA, Brandi ML. Correction of vitamin D status by calcidiol: pharmacokinetic profile, safety, and biochemical effects on bone and mineral metabolism of daily and weekly dosage regimens. *Osteoporos Int.* 28(11): 3239-3249, 2017.
- Bone HG, Wagman RB, Brandi ML, Brown JP, Chapurlat R, Cummings SR, Czerwiński E, Fahrleitner-Pammer A, Kendler DL, Lippuner K, Reginster JY, Roux C, Malouf J, Bradley MN, Daizadeh NS, Wang A, Dakin P, Pannacciulli N, Dempster DW, Papapoulos S. 10 years of denosumab treatment in postmenopausal women with osteoporosis: results from the phase 3 randomised FREEDOM trial and open-label extension. *Lancet Diabetes Endocrinol.* 2017 Jul;5(7):513-523.
- Vannucci L, Marini F, Giusti F, Ciuffi S, Tonelli F, Brandi ML. MEN1 in children and adolescents: Data from patients of a regional referral center for hereditary endocrine tumors. *Endocrine.* 59(2): 438-448, 2018.
- Luzi E, Ciuffi S, Marini F, Mavilia C, Galli G, Brandi ML. Analysis of differentially expressed microRNAs in MEN1 parathyroid adenomas. *Am J Transl Res.* 2017 Apr 15;9(4):1743-1753.
- Cianferotti L, Bertoldo F, Bischoff-Ferrari HA, Bruyere O, Cooper C, Cutolo M, Kanis JA, Kaufman JM, Reginster JY, Rizzoli R, Brandi ML. Vitamin D supplementation in the prevention and management of major chronic diseases not related to mineral homeostasis in adults: research for evidence and a scientific statement from the European society for clinical and economic aspects of osteoporosis and osteoarthritis (ESCEO). *Endocrine.* 2017 May;56(2):245-261.
- Giusti F, Cianferotti L, Boaretto F, Cetani F, Cioppi F, Colao A, Davì MV, Faggiano A, Fanciulli G, Ferolla P, Ferone D, Fossi C, Giudici F, Gronchi G, Loli P, Mantero F, Marcocci C, Marini F, Masi L, Opocher G, Beck-Peccoz P, Persani L, Scillitani A, Sciortino G, Spada A, Tomassetti P, Tonelli F, Brandi ML. Multiple

endocrine neoplasia syndrome type 1: institution, management, and data analysis of a nationwide multicenter patient database. *Endocrine*. 58(2): 349-359. Lapi F, Bianchini E, Michieli R, Pasqua A, Cricelli I, Mazzaglia G, Frediani B, Prieto-Alhambra D, Brandi ML, Cricelli C. Erratum to: Assessing risk of osteoporotic fractures in primary care: development and validation of the FRA-HS algorithm. *Calcif Tissue Int*. 2017 Jun;100(6):550.

- Cipriani C, Pepe J, Biamonte F, Manai R, Biondi P, Nieddu L, Cianferotti L, Brandi ML, Minisola S. The Epidemiology of Hypoparathyroidism in Italy: An 8-Year Register-Based Study. *Calcif Tissue Int*. 2017 Mar;100(3):278-285.
- Khan AA, Morrison A, Kendler DL, Rizzoli R, Hanley DA, Felsenberg D, McCauley LK, O'Ryan F, Reid IR, Ruggiero SL, Taguchi A, Tetradis S, Watts NB, Brandi ML, Peters E, Guise T, Eastell R, Cheung AM, Morin SN, Masri B, Cooper C, Morgan SL, Obermayer-Pietsch B, Langdahl BL, Dabagh RA, Davison KS, Sándor GK, Josse RG, Bhandari M, El Rabbany M, Pierroz DD, Sulimani R, Saunders DP, Brown JP, Compston J; International Task Force on Osteonecrosis of the Jaw. Case-Based Review of Osteonecrosis of the Jaw (ONJ) and Application of the International Recommendations for Management From the International Task Force on ONJ. *J Clin Densitom*. 2017 Jan - Mar;20(1):8-24.
- Khan AA, Hanley DA, Rizzoli R, Bollerslev J, Young JE, Rejnmark L, Thakker R, D'Amour P, Paul T, Van Uum S, Shrayyef MZ, Goltzman D, Kaiser S, Cusano NE, Bouillon R, Mosekilde L, Kung AW, Rao SD, Bhadada SK, Clarke BL, Liu J, Duh Q, Lewiecki EM, Bandeira F, Eastell R, Marcocci C, Silverberg SJ, Udelsman R, Davison KS, Potts JT Jr, Brandi ML, Bilezikian JP. Primary hyperparathyroidism: review and recommendations on evaluation, diagnosis, and management. A Canadian and international consensus. *Osteoporos Int*. 28(1): 1-19, 2017.
- Luzi E, Marini F, Ciuffi S, Galli G, Brandi ML. An autoregulatory network between menin and pri-miR-24-1 is required for the processing of its specific modulator miR-24-1 in BON1 cells. *Mol Biosyst*. 2016 May 24;12(6):1922-8.
- Brandi ML, Bilezikian JP, Shoback D, Bouillon R, Clarke BL, Thakker RV, Khan AA, Potts JT Jr., Management of Hypoparathyroidism: Summary Statement and Guidelines. *J Clin Endocrinol Metab*. 2016 Jun;101(6):2273-83. doi: 10.1210/jc.2015-3907. Epub 2016 Mar 4.
- Bilezikian JP, Brandi ML, Cusano NE, Mannstadt M, Rejnmark L, Rizzoli R, Rubin MR, Winer KK, Liberman UA, Potts JT Jr. Management of Hypoparathyroidism: Present and Future. *J Clin Endocrinol Metab*. 2016 Jun;101(6):2313-24. doi: 10.1210/jc.2015-3910. Epub 2016 Mar 3.
- Pampaloni B, Cianferotti L, Gronchi G, Bartolini E, Fabbri S, Tanini A, Brandi ML. Growing Strong and Healthy with Mister Bone: An Educational Program to Have Strong Bones Later in Life. *Nutrients*. 7(12):9985-98, 2015.
- Giusti F, Cianferotti L, Gronchi G, Cioppi F, Masi L, Faggiano A, Colao A, Ferolla P, Brandi ML. Cinacalcet therapy in patients affected by primary hyperparathyroidism associated to Multiple Endocrine Neoplasia Syndrome type 1 (MEN1). *Endocrine*. 52(3): 495-506, 2016.
- Cianferotti L, Gomes AR, Fabbri S, Tanini A, Brandi ML. The calcium-sensing receptor in bone metabolism: from bench to bedside and back. *Osteoporos Int*. 26(8):2055-71, 2015.
- Masi L, Agnusdei D, Bilezikian J, Chappard D, Chapurlat R, Cianferotti L, Devolgelae JP, El Maghraoui A, Ferrari S, Javaid MK, Kaufman JM, Liberman UA, Lyritis G, Miller P, Napoli N, Roldan E, Papapoulos S, Watts NB, Brandi ML Taxonomy of rare genetic metabolic bone disorders. *Osteoporos Int*26(10): 2529-59, 2015.
- Cianferotti L, Parri S, Gronchi G, Rizzuti C, Fossi C, Black DM, Brandi ML. Changing patterns of prescription in vitamin D supplementation in adults: analysis of a regional dataset. *Osteoporos Int*. 26(11): 2695-702, 2015.
- Cianferotti L, Cricelli C, Kanis JA, Nuti R, Reginster JY, Ringe JD, Rizzoli R, Brandi ML. The clinical use of vitamin D metabolites and their potential developments: a position statement from the European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ESCEO) and the International Osteoporosis Foundation (IOF). *Endocrine*. 50(1): 12-26, 2015.
- Masi L, Beltrami G, Ottanelli S, Franceschelli F, Gozzini A, Zonefrati R, Galli G, Ciuffi S, Mavilia C, Giusti F, Marcucci G, Cioppi F, Colli E, Fossi C, Franchi A, Casentini C, Capanna R, Brandi ML. Human

Preosteoblastic Cell Culture from a Patient with Severe Tumoral Calcinosis-Hyperphosphatemia Due to a New GALNT3 Gene Mutation: Study of In Vitro Mineralization. *Calcif Tissue Int.* 96(5):438-52, 2015.

- Khan AA, Morrison A, Hanley DA, Felsenberg D, McCauley LK, O'Ryan F, Reid IR, Ruggiero SL, Taguchi A, Tetradis S, Watts NB, Brandi ML, Peters E, Guise T, Eastell R, Cheung AM, Morin SN, Masri B, Cooper C, Morgan SL, Obermayer-Pietsch B, Langdahl BL, Al Dabagh R, Davison KS, Kendler DL, Sándor GK, Josse RG, Bhandari M, El Rabbany M, Pierroz DD, Sulimani R, Saunders DP, Brown JP, Compston J; International Task Force on Osteonecrosis of the Jaw. Diagnosis and management of osteonecrosis of the jaw: a systematic review and international consensus. *J Bone Miner Res.* 30(1):3-23, 2015.
- Marcucci G, Zimran A, Bembi B, Kanis J, Reginster JY, Rizzoli R, Cooper C, Brandi ML. Gaucher disease and bone manifestations. *Calcif Tissue Int.* 95(6):477-94, 2014.
- Kanis JA, McCloskey E, Branco J, Brandi ML, Dennison E, Devogelaer JP, Ferrari S, Kaufman JM, Papapoulos S, Reginster JY, Rizzoli R. Goal-directed treatment of osteoporosis in Europe. *Osteoporos Int.* 25(11):2533-43, 2014.
- Eastell R, Brandi ML, Costa AG, D'Amour P, Shoback DM, Thakker RV. Diagnosis of Asymptomatic Primary Hyperparathyroidism: Proceedings of the Fourth International Workshop. *J Clin Endocrinol Metab.* 99(10): 3570-9, 2014.
- Bilezikian JP, Brandi ML, Eastell R, Silverberg SJ, Udelsman R, Marcocci C, Potts JT Jr Guidelines for the Management of Asymptomatic Primary Hyperparathyroidism: Summary Statement from the Fourth International Workshop. *J Clin Endocrinol Metab.* 99(10):3561-9, 2014.
- Tonelli F, Giudici F, Giusti F, Marini F, Cianferotti L, Nesi G, Brandi ML A heterozygous frameshift mutation in exon 1 of CDKN1B gene in a patient affected by MEN4 syndrome. *Eur J Endocrinol.* 171(2):K7-K17, 2014.
- Romagnoli C, Brandi ML. Adipose mesenchymal stem cells in the field of bone tissue engineering. *World J Stem Cells.* 6(2):144-52, 2014.
- Fabbri S, Ciuffi S, Nardone V, Gomes AR, Mavilia C, Zonefrati R, Galli G, Luzi E, Tanini A, Brandi ML. PTH-C1: a rat continuous cell line expressing the parathyroid phenotype. *Endocrine.* 47(1): 90-9, 2014.
- Mannstadt M, Clarke BL, Vokes T, Brandi ML, Ranganath L, Fraser WD, Lakatos P, Bajnok L, Garceau R, Mosekilde L, Lagast H, Shoback D, Bilezikian JP. Efficacy and safety of recombinant human parathyroid hormone (1-84) in hypoparathyroidism (REPLACE): a double-blind, placebo-controlled, randomised, phase 3 study. *Lancet Diabetes Endocrinol.* 2013 Dec;1(4):275-83. doi: 10.1016/S2213-8587(13)70106-2. Epub 2013 Oct 7. Erratum in: *Lancet Diabetes Endocrinol.* 2014 Jan;2(1):e3. Dosage error in article text.
- Falcini F, Rigante D, Masi L, Covino M, Franceschelli F, Leoncini G, Tarantino G, Matucci Cerinic M, Brandi ML. Fibroblast growth factor 23 (FGF23) gene polymorphism in children with Kawasaki syndrome (KS) and susceptibility to cardiac abnormalities. *Ital J Pediatr.* 39(1):69, 2013.
- Rizzoli R, Reginster JY, Arnal JF, Bautmans I, Beudart C, Bischoff-Ferrari H, Biver E, Boonen S, Brandi ML, Chines A, Cooper C, Epstein S, Fielding RA, Goodpaster B, Kanis JA, Kaufman JM, Laslop A, Malafarina V, Mañas LR, Mitlak BH, Oreffo RO, Petermans J, Reid K, Rolland Y, Sayer AA, Tsouderos Y, Visser M, Bruyère O. Quality of life in sarcopenia and frailty. *Calcif Tissue Int.* 93(2):101-20, 2013.
- Pampaloni B, Bartolini E, Barbieri M, Piscitelli P, Di Tanna GL, Giolli L, Brandi ML. Validation of a Food-Frequency Questionnaire for the Assessment of Calcium Intake in Schoolchildren Aged 9-10 Years. *Calcif Tissue Int.* 93(1):23-38, 2013.
- Luzi E, Marini F, Giusti F, Galli G, Cavalli L, Brandi ML. The Negative Feedback-Loop between the Oncomir Mir-24-1 and Menin Modulates the Men1 Tumorigenesis by Mimicking the "Knudson's Second Hit". *PLoS One.* 7(6):e39767, 2012.
- Thakker RV, Newey PJ, Walls GV, Bilezikian J, Dralle H, Ebeling PR, Melmed S, Sakurai A, Tonelli F, Brandi ML. Clinical Practice Guidelines for Multiple Endocrine Neoplasia Type 1 (MEN1). *J Clin Endocrinol Metab.* 97(9): 2990-3011, 2012.
- Liu CT, Estrada K, Yerges-Armstrong LM, Amin N, Evangelou E, Li G, Minster RL, Carless MA, Kammerer CM, Oei L, Zhou Y, Alonso N, Dailiana Z, Eriksson J, García-Giralt N, Giroux S, Husted LB, Khusainova RI, Koromila T, Kung AW, Lewis JR, Masi L, Mencej-Bedrac S, Nogues X, Patel MS, Prezelj J, Richards JB, Sham PC, Spector T, Vandenput L, Xiao SM, Zheng HF, Zhu K, Balcells S, Brandi ML,

Frost M, Goltzman D, González-Macías J, Karlsson M, Khusnutdinova EK, Kollia P, Langdahl BL, Ljunggren O, Lorentzon M, Marc J, Mellström D, Ohlsson C, Olmos JM, Ralston SH, Riancho JA, Rousseau F, Urreiziti R, Van Hul W, Zarrabeitia MT, Castano-Betancourt M, Demissie S, Grundberg E, Herrera L, Kwan T, Medina-Gómez C, Pastinen T, Sigurdsson G, Thorleifsson G, Vanmeurs JB, Blangero J, Hofman A, Liu Y, Mitchell BD, O'Connell JR, Oostra BA, Rotter JI, Stefansson K, Streeten EA, Stykarsdottir U, Thorsteinsdottir U, Tylavsky FA, Uitterlinden A, Cauley JA, Harris TB, Ioannidis JP, Psaty BM, Robbins JA, Zillikens MC, Vanduijn CM, Prince RL, Karasik D, Rivadeneira F, Kiel DP, Cupples LA, Hsu YH. Assessment of gene-by-sex interaction effect on bone mineral density. *J Bone Miner Res.* 27(10):2051-64, 2012.

- Estrada K, Stykarsdottir U, Evangelou E, Hsu YH, Duncan EL, Ntzani EE, Oei L, Albagha OM, Amin N, Kemp JP, Koller DL, Li G, Liu CT, Minster RL, Moayyeri A, Vandenput L, Willner D, Xiao SM, Yerges-Armstrong LM, Zheng HF, Alonso N, Eriksson J, Kammerer CM, Kaptoge SK, Leo PJ, Thorleifsson G, Wilson SG, Wilson JF, Aalto V, Alen M, Aragaki AK, Aspelund T, Center JR, Dailiana Z, Duggan DJ, Garcia M, Garcia-Giralt N, Giroux S, Hallmans G, Hocking LJ, Husted LB, Jameson KA, Khusainova R, Kim GS, Kooperberg C, Koromila T, Kruk M, Laaksonen M, Lacroix AZ, Lee SH, Leung PC, Lewis JR, Masi L, Mencej-Bedrac S, Nguyen TV, Nogues X, Patel MS, Prezelj J, Rose LM, Scollen S, Siggeirsdottir K, Smith AV, Svensson O, Trompet S, Trummer O, van Schoor NM, Woo J, Zhu K, Balcells S, Brandi ML, Buckley BM, Cheng S, Christiansen C, Cooper C, Dedoussis G, Ford I, Frost M, Goltzman D, González-Macías J, Kähönen M, Karlsson M, Khusnutdinova E, Koh JM, Kollia P, Langdahl BL, Leslie WD, Lips P, Ljunggren O, Lorenc RS, Marc J, Mellström D, Obermayer-Pietsch B, Olmos JM, Pettersson-Kymmer U, Reid DM, Riancho JA, Ridker PM, Rousseau F, Lagboom PE, Tang NL, Urreiziti R, Van Hul W, Viikari J, Zarrabeitia MT, Aulchenko YS, Castano-Betancourt M, Grundberg E, Herrera L, Ingvarsson T, Johannsdottir H, Kwan T, Li R, Luben R, Medina-Gómez C, Th Palsson S, Reppe S, Rotter JI, Sigurdsson G, van Meurs JB, Verlaan D, Williams FM, Wood AR, Zhou Y, Gautvik KM, Pastinen T, Raychaudhuri S, Cauley JA, Chasman DI, Clark GR, Cummings SR, Danoy P, Dennison EM, Eastell R, Eisman JA, Gudnason V, Hofman A, Jackson RD, Jones G, Jukema JW, Khaw KT, Lehtimäki T, Liu Y, Lorentzon M, McCloskey E, Mitchell BD, Nandakumar K, Nicholson GC, Oostra BA, Peacock M, Pols HA, Prince RL, Raitakari O, Reid IR, Robbins J, Sambrook PN, Sham PC, Shuldiner AR, Tylavsky FA, van Duijn CM, Wareham NJ, Cupples LA, Econs MJ, Evans DM, Harris TB, Kung AW, Psaty BM, Reeve J, Spector TD, Streeten EA, Zillikens MC, Thorsteinsdottir U, Ohlsson C, Karasik D, Richards JB, Brown MA, Stefansson K, Uitterlinden AG, Ralston SH, Ioannidis JP, Kiel DP, Rivadeneira F. Genome-wide meta-analysis identifies 56 bone mineral density loci and reveals 14 loci associated with risk of fracture. *Nat Genet.* 44(5):491-501, 2012.
- Luzi E, Marini F, Tognarini I, Galli G, Falchetti A, Brandi ML. The Regulatory Network Menin-MicroRNA 26a As a Possible Target for RNA-Based Therapy of Bone Diseases. *Nucleic Acid Ther.* 22(2):103-8, 2012.
- Falchetti A, Gozzini A, Terranegra A, Soldati L, Vezzoli G, Leoncini G, Giusti F, Franceschelli F, Masi L, Tanini A, Cavalli L, Brandi ML. A novel germline inactivating mutation in the CASR gene in an Italian kindred affected by familial hypocalciuric hypercalcemia. *Eur J Endocrinol.* 166(5):933-40, 2012.
- Rizzoli R, Body JJ, De Censi A, Reginster JY, Piscitelli P, Brandi ML; on behalf of the European Society for Clinical and Economical aspects of Osteoporosis and Osteoarthritis (ESCEO). Guidance for the prevention of bone loss and fractures in postmenopausal women treated with aromatase inhibitors for breast cancer: an ESCEO position paper. *Osteoporos Int.* 23(11):2567-76, 2012.
- Jensen RT, Cadiot G, Brandi ML, de Herder WW, Kaltsas G, Komminoth P, Scoazec JY, Salazar R, Sauvanet A, Kianmanesh R. ENETS Consensus Guidelines for the Management of Patients with Digestive Neuroendocrine Neoplasms: Functional Pancreatic Endocrine Tumor Syndromes. *Neuroendocrinology.* 95(2):98-119, 2012.
- Papapoulos S, Chapurlat R, Libanati C, Brandi M, Brown J, Czerwiński E, Krieg MA, Man Z, Mellström D, Radominski S, Reginster JY, Resch H, Román J, Roux C, Vittinghoff E, Austin M, Daizadeh N, Bradley M, Grauer A, Cummings S, Bone H. Five years of denosumab exposure in women with postmenopausal osteoporosis: Results from the first two years of the FREEDOM extension. *J Bone Miner Res.* 27(3):694-701, 2012.

- Bilezikian JP, Khan A, Potts JT Jr, Brandi ML, Clarke BL, Shoback D, Jüppner H, D'Amour P,
- Albagha OM, Wani SE, Visconti MR, Alonso N, Goodman K, Brandi ML, Cundy T, Chung PY,
- Saggini A, Brandi ML. Skin Lesions in Hereditary Endocrine Tumor Syndromes. *Endocr Pract.* 2011 Jul;17 Suppl 3:47-57.
- Luzi E, Brandi ML. ARE microRNAs Involved in the Endocrine-Specific Pattern of Men1 Tumorigenesis?? *Endocr Pract.* 2011 Jul-Aug;17 Suppl 3:58-63.
- Luzi E, Marini F, Tognarini I, Carbonelli Sala S, Galli G, Falchetti A, Brandi ML, Ribozyme-mediated compensatory induction of menin-oncosuppressor function in primary fibroblasts from MEN1 patients, *Cancer Gene Ther.* 17(11):814-25, 2010.
- Falchetti A., Brandi M.L. Multiple endocrine neoplasia type I variants and phenocopies: more than a nosological issue? *J Clin Endocrinol Metab.* 94(5):1518-20, 2009.
- Eastell R., Arnold A., Brandi M.L., Brown E.M., D'Amour P., Hanley D.A., Rao D.S., Rubin M.R., Goltzman D., Silverberg S.J., Marx S.J., Peacock M., Mosekilde L., Bouillon R., Lewiecki E.M.. Diagnosis of asymptomatic primary hyperparathyroidism: proceedings of the third international workshop. *J Clin Endocrinol Metab.* 94(2):340-50, 2009.
- Massart F., Marcucci G. Brandi M.L.. Pharmacogenetics of bone treatments: the VDR and ERalpha gene story. *Pharmacogenomics* 9(6):733-46, 2008. Review.
- A patient with MEN1-associated hyperparathyroidism, responsive to cinacalcet. *Nat Clin Pract Endocrinol Metab.* 2008 Jun;4(6):351-7. Epub 2008.
- Falchetti A., Cilotti A., Vagelli L., Masi L., Amedei A., Cioppi F., Tonelli F., Brandi M.L.
- Van Meurs J.B., Trikalinos T.A., Ralston S.H., Balcells S., Brandi M.L., Brixen K., Kiel D.P., Langdahl B.L., Lips P., Ljunggren O., Lorenc R., Obermayer-Pietsch B., Ohlsson C., Pettersson U., Reid D.M., Rousseau F., Scollen S., Van Hul W., Agueda L., Akesson K., Benevolenskaya L.I., Ferrari S.L., Hallmans G., Hofman A., Husted L.B., Kruk M., Kaptoge S., Karasik D., Karlsson M.K., Lorentzon M., Masi L., McGuigan F.E., Mellström D., Mosekilde L., Nogues X., Pols H.A., Reeve J., Renner W., Rivadeneira F., van Schoor N.M., Weber K., Ioannidis J.P., Uitterlinden A.G.; GENOMOS Study. Large-scale analysis of association between LRP5 and LRP6 variants and osteoporosis. *JAMA.* 19;299(11):1277-90, 2008.
- Tognarini I., Sorace S., Zonefrati R., Galli G., Gozzini A., Carbonell Sala S., Thyron G.D., Carossino A.M., Tanini A., Mavilia C., Azzari C., Sbaiz F., Facchini A., Capanna R., Brandi M.L. In vitro differentiation of human mesenchymal stem cells on Ti6Al4V surfaces. *Biomaterials.* 29(7):809-24, 2008 Epub 2007 Nov 26.
- Brandi ML, Falchetti A. What Is The Relationship Between Paget's Disease of Bone and Hyperparathyroidism. *J Bone Miner Res* 21: 69-74, 2006.
- Brandi M.L., Collin-Osdoby P. Vascular biology and the skeleton. *J Bone Miner Res* 21:183-192, 2006.
- Falchetti A., Di Stefano M., Marini F., Del Monte F., Gozzini A., Masi L., Tanini A., Amedei A., Carossino A., Isaia G., Brandi M.L. Segregation of a M404V mutation of the p62/sequestosome 1 (p62/SQSTM1) gene with polyostotic Paget's disease of bone in an Italian family. *Arthritis Res Ther* 7: R1289-1295, 2005.
- Martinetti V., Picariello L., Tognarini I., Carbonell Sala S., Gozzini A., Azzari C., Mavilia C., Tanini A., Falchetti A., Fiorelli G., Tonelli F., Brandi M.L. Erβ is a potent inhibitor of cell proliferation in the HCT8 human colon cancer cell line through regulation of cell cycle components. *Endocr Relat Cancer* 12: 455-469, 2005.
- Gennari L., Masi L., Merlotti D., Picariello L., Falchetti A., Tanini A., Mavilia C., Del Monte F., Gonnelli S., Lucani B., Gennari C., Brandi M.L. A polymorphic CYP19 TTTA repeat influences aromatase activity and estrogen levels in elderly men: effects on bone metabolism. *J Clin Endocrinol Metab* 89: 2803-2810, 2004.
- Khosla S., Riggs B.L., Atkinson E.J., Oberg A.L., Mavilia C., Del Monte F., Melton L.J. 3rd, Brandi M.L. Relationship of estrogen receptor genotypes to bone mineral density and to rates of bone loss in men. *J Clin Endocrinol Metab* 89: 1808-1816, 2004.

- Ioannidis J.P., Stavrou I., Trikalinos T.A., Zois C., Brandi M.L., Gennari L., Albagha O., Ralston S.H., Tsatsoulis A., ER-alpha Genetics Meta-Analysis Association of polymorphisms of the estrogen receptor alpha gene with bone mineral density and fracture risk in women: a meta-analysis. *J Bone Miner Res* 17: 2048-2060, 2002.
- Vezzoli G., Tanini A., Ferrucci L., Soldati L., Bianchin C., Franceschelli F., Malentacchi C., Porfirio B., Adamo D., Terranegra A., Falchetti A., Cusi D., Bianchi G., Brandi M.L. Influence of calcium-sensing receptor gene on urinary calcium excretion in stone-forming patients. *J Am Soc Nephrol* 13: 2517-2523, 2002.
- Brandi M.L., Gagel R.F., Angeli A., Bilezikian J.P., Beck-Peccoz P., Bordi C., Conte-Devolx B., Falchetti A., Gheri R.G., Libroia A., Lips C.J.M., Lombardi G., Mannelli M., Pacini F., Ponder B.A., Raue F., Skogseid B., Tamburrano G., Thakker R.V., Thompson N.W., Tommasetti P., Tonelli F., Wells S.A. Jr., Marx S.J. Guidelines for Diagnosis and Therapy of MEN Type1 and Type 2. *J Clin Endocrinol Metab* 86: 5658-5671, 2001.
- Masi L., Becherini L., Gennari L., Amedei A., Colli E., Falchetti A., Farci M., Silvestri S., Gonnelli S., Brandi M.L. Polymorphism of the aromatase gene in postmenopausal Italian women: distribution and correlation with bone mass and fracture risk. *J Clin Endocrinol Metab* 86: 2263-2269, 2001.
- Picariello L., Benvenuti S., Recenti R., Formigli L., Falchetti A., Morelli A., Masi L., Tonelli F., Cicchi P., Brandi M.L. Microencapsulation of human parathyroid cells: an "in vitro" study. *J Surg Res* 96: 81-89, 2001.
- Becherini L., Gennari L., Masi L., Mansani R., Massart F., Morelli A., Falchetti A., Gonnelli S., Fiorelli G., Tanini A., Brandi M.L. Evidence of a linkage disequilibrium between polymorphisms in the human estrogen receptor alpha gene and their relationship to bone mass variation in postmenopausal Italian women. *Hum Mol Genet* 9: 2043-2050, 2000.
- Falchetti A., Becherini L., Martinetti V., Morelli A., Benvenuti S., Picariello L., Gennari L., Lampugnani R., Bordi, Brandi M.L. Telomerase repeat amplification protocol (TRAP): A new molecular marker for parathyroid carcinoma. *Biochem Biophys Res Commun* 265: 252-255, 1999.
- Gennari L., Becherini L., Mansani R., Masi L., Falchetti A., Morelli A., Colli E., Gonnelli S., Cepollaro C., Brandi M.L. FOK I Polymorphism at translation initiation site of the vitamin D receptor gene predicts bone mineral density and vertebral fractures in postmenopausal Italian women. *J Bone Miner Res* 14: 1379-1386, 1999.
- Gennari L., Becherini L., Masi L., Mansani R., Gonnelli S., Cepollaro C., Martini S., Montagnani A., Lentini G., Becorpi A.M., Brandi M.L. Vitamin D and estrogen receptor allelic variants in Italian postmenopausal women: evidence of multiple gene contribution on bone mineral density. *J Clin Endocrinol Metab* 83: 939-944, 1998.
- Falchetti A., Morelli A., Amorosi A., Tonelli F., Fabiani S., Martinetti V., Castello R., Furlani L., Brandi M.L. Allelic Loss in parathyroid tumors from individuals homozygous for multiple endocrine neoplasia type 1. *J Clin Endocrinol Metab* 82: 2278-2282, 1997.
- Benvenuti S., Masi L., Falchetti A., Mancini L., Formigli L., Zecchi S., Amorosi A., Tonelli F., Brandi M.L. HPE cells: a clonal endothelial cell line established from human parathyroid tissue (human parathyroid cell line). *Endothelium* 5: 37-49, 1997.
- Fiorelli G., Gori F., Petilli M., Tanini A., Benvenuti S., Serio M., Bernabei P., Brandi M.L. Functional estrogen receptors in a human preosteoclastic cell line. *Proc Natl Acad Sci USA* 92: 2672-2676, 1995.
- Brandi M.L., Hukkanen M., Umeda T., Moradi-Bihendi N., Bianchi S., Gross S.S., Polak J.M., MacIntyre I. Bidirectional regulation of osteoclast function by nitric oxide synthase isoforms. *Proc Natl Acad Sci USA* 92: 2954-2958, 1995.
- Formigli L., Orlandini S.Z., Benvenuti S., Masi L., Pinto A., Gattei V., Bernabei P.A., Robey P.G., Collin-Osdoby P., Brandi M.L. In vitro structural and functional relationship between preosteoclastic and bone endothelial cells: a juxtacrine model for migration and adhesion of osteoclast precursors. *J Cell Physiol* 162: 199-212, 1995.
- Bordi C., Falchetti A., Azzoni C., D'Adda T., Morelli A., Peracchia A., Brandi M.L. Lack of allelic loss at the multiple endocrine neoplasia type 1 (MEN-1) gene locus in a pancreatic ductal (non-endocrine) adenocarcinoma of a patient with the MEN-1 syndrome. *Virchows Arch* 426: 203-208, 1995.

- Bianchi S., Fabiani S., Muratori M., Arnold A., Sakaguchi K., Miki T., Brandi M.L. Calcium modulates the cyclin D1 expression in a rat parathyroid cell line. *Biochem Biophys Res Commun* 204: 691-700, 1994.
- Brandi M.L., Bianchi M.L., Eisman J.A., Glorieux F., Adami S., Fiore C. E., Nuti R., Ortolani S. Genetics of Osteoporosis. *Calcif Tissue Int* 55: 161-163, 1994.
- Bordi C., Falchetti A., Buffa R., Azzoni C., D'Adda T., Caruana P., Rindi G., Brandi M.L. Production of basic fibroblast growth factor by gastric carcinoid tumors and their putative cells of origin. *Hum Pathol* 25: 175-180, 1994.
- Brandi M.L., Weber G., Svensson A., Falchetti A., Tonelli F., Castello R., Furlani L., Scappaticci S., Fraccaro M., Larsson C. Homozygotes for the autosomal dominant neoplasia syndrome (MEN 1). *Am J Hum Genet* 53: 1167-1172, 1993.
- Zimering M.B., Katsumata N., Sato Y., Brandi M.L., Aurbach G.D., Marx S.J., Friesen H.G. Increased basic fibroblast growth factor in plasma from multiple endocrine neoplasia type 1: relation to pituitary tumor. *J Clin Endocrinol Metab* 76: 1182-1187, 1993.
- Falchetti A., Bale A.E., Amorosi A., Bordi C., Cicchi P., Bandini S., Marx S.J., Brandi M.L. Progression of uremic hyperparathyroidism involves allelic loss on chromosome 11. *J Clin Endocrinol Metab* 76: 139-144, 1993.
- Gattei V., Bernabei P.A., Pinto A., Bezzini R., Ringressi A., Formigli L., Tanini A., Attadia V., Brandi M.L. Phorbol ester induced osteoclast-like differentiation of a novel human leukemic cell line (FLG 29.1). *J Cell Biol* 116: 437-447, 1992.
- Streeten E.A., Brandi M.L. Biology of bone endothelial cells. *Bone Miner* 10: 85-94, 1990.
- Sakaguchi K., Ikeda K., Curcio F., Aurbach G., Brandi M.L. Subclones of a rat parathyroid cell line (PT-r): regulation of growth and production of parathyroid hormone-related peptide (PTHrP). *J Bone Miner Res* 5: 863-869, 1990.
- Zimering M.B., Brandi M.L., deGrange D.A., Marx S.J., Streeten E., Katsumata N., Murphy P.R., Sato Y., Friesen H.G., Aurbach G.D. Circulating fibroblast growth factor-like substance in familial multiple endocrine neoplasia type 1. *J Clin Endocrinol Metab* 70: 149-154, 1990.
- Ikeda K., Weir E.C., Sakaguchi K., Burtis W.J., Zimering M., Mangin M., Dreyer B.E., Brandi M.L., Aurbach G.D., Broadus A. Clonal rat parathyroid cell line expresses a parathyroid hormone-related peptide but not parathyroid hormone itself. *Biochem Biophys Res Commun* 162: 108-115, 1989.
- Coon H.G., Curcio F., Sakaguchi K., Brandi M.L., Swerdlow R.D. Cell cultures of neuroblasts from rat olfactory epithelium that show odorant responses. *Proc Natl Acad Sci USA* 86: 1703-1707, 1989.
- Streeten E.A., Ornberg R., Curcio F., Sakaguchi K., Marx S.J., Aurbach G.D., Brandi M.L. Cloned endothelial cells from fetal bovine bone. *Proc Natl Acad Sci USA* 86: 916-920, 1989.
- Marx S.J., Sakaguchi K., Green J. 3rd, Aurbach G.D., Brandi M.L. Mitogenic activity on parathyroid cells in plasma from members of a large kindred with multiple endocrine neoplasia type I. *J Clin Endocrinol Metab* 67: 149-153, 1988.
- Fattorossi A., Aurbach G.D., Sakaguchi K., Cama A., Marx S.J., Streeten E.A., Fitzpatrick L.A., Brandi M.L. Anti-endothelial cell antibodies: detection and characterization in sera from patients with autoimmune hypoparathyroidism. *Proc Natl Acad Sci USA* 85: 4015-4019, 1988.
- Brandi M.L., Marx S.J., Aurbach G.D., Fitzpatrick L.A. Familial multiple endocrine neoplasia type 1: a new look at pathophysiology. *Endocr Rev* 8: 391-405, 1987.
- Sakaguchi K., Santora A., Zimering M., Curcio F., Aurbach G.D., Brandi M.L. Functional epithelial cell line cloned from rat parathyroid glands. *Proc Natl Acad Sci USA* 84: 3269-3273, 1987.
- Brandi M.L., Aurbach G.D., Fattorossi A., Quarto R., Marx S.J., Fitzpatrick L.A. Antibodies cytotoxic to bovine parathyroid cells in autoimmune hypoparathyroidism. *Proc Natl Acad Sci USA* 83: 8366-8369, 1986.
- Brandi M.L., Rotella C.M., Kohn L.D., Toccafondi R. Unusual antagonistic actions of mixtures of vasoactive intestinal peptide, thyroid-stimulating antibodies, and cholera toxin on adenosine 3',5'-monophosphate accumulation in normal human thyroid cell cultures. *J Clin Endocrinol Metab* 62: 1199-1205, 1986.

- Brandi M.L., Aurbach G.D., Fitzpatrick L.A., Quarto R., Spiegel A.M., Bliziotes M.M., Norton J.A., Doppman J.L., Marx S.J. Parathyroid mitogenic activity in plasma from patients with multiple endocrine neoplasia type I. *N Engl J Med* 314: 1287-1293, 1986.
- Brandi M.L., Fitzpatrick L.A., Coon H.G., Aurbach G.D. Bovine parathyroid cells: cultures maintained for more than 140 population doublings. *Proc Natl Acad Sci USA* 83: 1709-1713, 1986.
- Brandi M.L., Fitzpatrick L.A., Fedak S., Aurbach G.D., Coon H.G. Differentiated bovine parathyroid cells cultured for more than 140 population doublings show both parathyroid hormone synthesis and growth regulation by calcium ion concentration. *Prog Clin Biol Res* 226: 265-275, 1986.
- Toccafondi R.S., Brandi M.L., Melander A. Vasoactive intestinal peptide stimulation of human thyroid cell function. *J Clin Endocrinol Metab* 58: 157-160, 1984.

D. Additional Information: Research Support and No Profit Experience

Ongoing/Recent Research Support

Brandi (PI) 2021-2023
Hypophosphatasia: Clinical and Morphological Characterization of the Skeletal Muscle Tissue.

Brandi (PI) 2021-2022
X-Linked Hypophosphatemia: role of FGF 23 and Phosphate in the Skeletal Muscle.

Brandi (PI) 2020-2022
Regione Toscana – The Omics Sciences Against Osteosarcoma (TOSCANO).

Brandi (PI) 2020-2022
Ente

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 polyposis.

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 Muscocrinology.

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 Edinburgh - Randomised trial on hereditary Paget disease of bone.

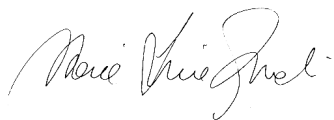
No Profit Experience

2006-present President and Found Raiser for Fondazione Italiana Ricerca sulle Malattie dell'Osso (FIRMO) (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, 08/02/2021

In fede,



Maria Luisa Brandi