

**EUROPEAN CURRICULUM
VITAE**

PERSONAL INFORMATION

NAME	Giovanni Lombardi
OFFICE PHONE	+39 02 6621 4068
E-MAIL	giovanni.lombardi@grupposandonato.it (work) giovanni.lombardi@awf.gda.pl (work)
DATE OF BIRTH	20 th December 1980
NATIONALITY	Italian
FAMILY STATUS	Married, three children

WORK EXPERIENCES

RESEARCH CAREER

FROM DEC 2018	Associate Professor Dept. of Physiology & Pharmacology, Faculty of Rehabilitation & Kinesiology, Akademia Wychowania Fizycznego i Sportu, Gdańsk, Polska
JUN 2018-NOV 2018	Adjunct/Visiting Professor Dept. of Physiology & Pharmacology, Faculty of Rehabilitation & Kinesiology, Akademia Wychowania Fizycznego i Sportu, Gdańsk, Polska
FROM SEP 2018	Stopnia Naukowego Doktora Habilitowanego (Dr. hab., National Scientific Habilitation), Centralna Komisja do Spraw Stopni i Tytułów, Warszawa, Polska - Health Sciences (Nauk o Zdrowiu)
FROM AUG/SEP 2018	Abilitazione Scientifica Nazionale (ASN, National Scientific Habilitation), Italian Ministry of Education, University, & Research - 05/E3 (Biochimica Clinica e Biologia Molecolare Clinica - Clinical Biochemistry & Clinical Molecular Biology) - 06/N2 (Scienze dell'Esercizio Fisico e dello Sport - Physical Exercise & Sport Sciences)
FROM APR 2018	Member Working group on Vitamin D standardization program International Federation of Clinical Chemistry (IFCC) http://www.ifcc.org/ifcc-scientific-division/sd-working-groups/wg-vit-d/
JAN 2018-MAR 2018	Visiting Professor Dept. of Physiology & Pharmacology, Faculty of Rehabilitation & Kinesiology, Akademia Wychowania Fizycznego i Sportu, Gdańsk, Polska
FROM JAN 2018	Technical-scientific advisor on Sleep and sports Dorelan B&T S.p.A. http://www.dorelanreactive.com/ricerca-scientifica/
2017-2018	Lecturer Biochemical monitoring in young soccer players Interuniversity master course "Theory and methodology of athletic training in soccer" Università Cattolica del Sacro Cuore, Roma-Milano, Italia
FROM SEP 2017	Adjunct Professor of Laboratory Medicine Vita-Salute San Raffaele University, Milano, Italia
FROM 2017	Vice-president Working group on Whole-body cryotherapy International Institute of Refrigeration (IIR) http://www.iifir.org/clientBookline/service/reference.asp?INSTANCE=EXPLOITATION&OUTPUT=PORTAL&DOCID=IFD_REFDOC_0021859&DOCBASE=IFD_REFDOC_EN&SETLANGUAGE=EN

- FROM FEB 2017 Coordinator
Study group on Clinical biochemistry & metabolism of bone and muscle tissues
Italian Society of Clinical Biochemistry & Clinical Molecular Biology (SIBioC)
<https://www.sibioc.it/gds/home/p-id/223>
- FROM 2016 Technical-scientific advisor on Whole-body cryotherapy
SAPIO LIFE S.r.l.
- FROM JAN 2013 Head
Laboratory of Experimental Biochemistry & Molecular Biology
IRCCS Istituto Ortopedico Galeazzi, Milano, Italia
- JAN 2007–DEC 2012 Researcher
Laboratory of Experimental Biochemistry & Molecular Biology (Director Prof. Giuseppe Banfi)
IRCCS Istituto Ortopedico Galeazzi, Milano, Italia
- OCT 2006–DEC 2006 Post-graduate frequenting scientist
Laboratory of Nutritional Biochemistry (Director Prof. Guido Tettamanti)
Dept. of Medical Chemistry, Biochemistry & Biotechnology, Faculty of Medicine and Surgery, University of Milano, Milano, Italia

EDITORIAL ACTIVITY

EDITORIAL BOARD

Frontiers in Endocrinology
Journal of Science in Sport & Exercise

ADVISORY BOARD

Journal of Sports Sciences

REVIEWER

Acta Gymnica, Adv Clin Chem, Amino Acids, Appl Physiol Nutr Metab, Biochem Med, Biol Sport, BMJ Open, Clin Chem Lab Med, Clin Rheumatol, Clin Ther, Disease Markers, Endocrine, Endocrine Res, Eur J Sports Sci, Eur Spine J, Expert Rev Endocrinol Metab, Folia Biol, Front Endocrinol, Front Physiol, Gene, Int J Lab Hematol, Int J Sports Med, Int J Sport Nutr Exerc Metab, Int J Sports Physiol Perform, Int SportMed J, J Appl Physiol, J Clin Transl Res, J Funct Foods, J Sports Sci, Life Sci, Med Sci Monitor, Mol Cell Endocrinol, Mol Genet Genomics, Nutr J, Nutr Metabolism, Oxid Med Cell Longev, Pain Med, PLoS One, Res Quart Exerc Sport, Scand J Clin Lab Invest, Sci Rep, Sport Sci Health, Tissue Eng (Part A), Tissue Eng (Part C)

78 reviews verified on Publons (Clarivate Analytics)
<https://publons.com/author/1438002/giovanni-lombardi#profile>

OTHER EXPERIENCES

FROM 2015

Reviewer
Polish Narodowe Centrum Nauki (NCN)
NZ7 Panel (OPUS8, PRELUDIUM9, PRELUDIUM12, SONATA12 programs)

2008

Visiting scientist
"Viscogliosi Laboratory in Molecular Genetics of Musculoskeletal Diseases" (Director Prof. Alain Moreau)
CHU Sainte Justine, Montreal (QC), Canada

AWARDS & GRANTS

2018

PI
Polish Narodowe Centrum Nauki (NCN), OPUS15 program. Funded: 1.371.720,00 PLN

2018

Unit Coordinator
CaRiPlo Foundation, Scientific Research Area, Biomedical Research on aging-associated diseases. Funded: 400.000,00 €

2017

Coinvestigator

Polish Narodowe Centrum Nauki (NCN), OPUS13 program. Funded:
654.080,00 PLN

2016 Poster Prize
European Society of Endocrinology (ESE), European Congress of
Endocrinology (ECE), München, Deutschland

RESEARCHER PROFILES

ORCID <http://orcid.org/0000-0002-8365-985X>
RESEARCHER ID <http://www.researcherid.com/rid/I-2414-2012>
SCOPUS ID <https://www.scopus.com/authid/detail.uri?authorId=57192328135>

EDUCATION

2009 Ph.D.
Biochemistry
Ph.D. school of Biochemical, Nutritional and Metabolic Sciences,
University of Milano, Milano, Italia (ISCED 8)

2006 M.Sc.
Medical Biotechnology and Molecular Medicine (110/110 *cum Laude*)
Faculty of Medicine and Surgery, University of Milano, Milano,
Italia

2004 B.Sc.
Medical Biotechnology (100/110)
Faculty of Medicine and Surgery, University of Milano, Milano,
Italia

PERSONAL SKILLS

LANGUAGE SKILLS

MOTHER TONGUE Italian
OTHER LANGUAGES English
Writing Excellent
Reading Excellent
Speech Excellent

WORKING SKILLS

INTERESTS Endocrine function of bone and skeletal muscle tissues
Biochemical markers of bone and skeletal muscle turnover in
health and diseases
Sports physiology and endocrinology
miRNA function and regulation
Whole-body cryotherapy
Pre-analytical management of laboratory samples

GENERAL EXPERTISE Work organization
Team management
Students management
International relationship and cooperation

RESEARCH EXPERTISE Basic and clinical biochemistry
Basic and clinical molecular biology
Antibody-based detection methodologies
Cell cultures
Cell biology and microscopy
Informatics, bioinformatics, and statistics
Research outline and organization
Grant and research article drafting, writing, and reviewing
Speech in national and international scientific contests

SCIENTIFIC PUBLICATIONS

TOTAL CITATIONS(SCOPUS - 2018-12): 1176
h Index (SCOPUS - 2018-12): 19

1. Faraldi M, Gomasasca M, Sansoni V, Perego S, Banfi G, Lombardi G. Normalization strategies differently affect circulating miRNA profile associated with the training status. *Sci Rep* ACCEPTED
2. Bersini S, Gilardi M, Ugolini GS, Sansoni V, Talò G, Perego S, Zanotti S, Mora M, Soncini M, Vanoni M, Lombardi G, Moretti M. Engineering an environment for the study of fibrosis: A 3D human muscle model with endothelium-specificity and endomysium. *Cell Rep* 2018 ACCEPTED
3. Passeri E, Mazzaccaro D, Sansoni V, Perego S, Nano G, Verdelli C, Lombardi G, Corbetta S. Effects of twelve months treatment with zoledronate or teriparatide on intima-media thickness of carotid artery in women with postmenopausal osteoporosis: a pilot study. *Int J Immunopathol Pharmacol* ACCEPTED
4. Vitale JA, Vitale ND, Cavaleri L, Dazzan E, Lombardi G, Mascagni P, La Torre A, Banfi G. Level- and sport-specific Star Excursion Balance Test performance in female volleyball players. *J Sports Med Phys Fitness* [Epub Ahead of Print].
5. Sakellariou G, Lombardi G, Vitolo B, Gomasasca M, Faraldi M, Caporali R, Banfi G, Montecucco C. Serum Calprotectin as a marker of clinical and ultrasound-detected synovitis in early psoriatic and rheumatoid arthritis: results from a cross-sectional retrospective study. *Clin Exp Rheumatol* [Epub Ahead of Print].
6. Giannasi C, Niada S, Farronato D, Lombardi G, Manfredi B, Farronato G, Brini AT. Nitrogen containing bisphosphonates impair the release of bone homeostasis mediators and matrix production by human primary pre-osteoblasts. *Int J Med Sci* 2019;16(1):23-32.
7. Jaworska J, Micielska K, Kozłowska M, Wnorowski K, Skrobecki J, Radziminski L, Babinska A, Rodziewicz E, Lombardi G, Ziemann E. A Two-week specific volleyball training supported by the whole body cryostimulation protocol induced an increase of growth factors and counteracted deterioration of physical performance. *Front Physiol* 2018;9:1711.
8. Faraldi M, Gomasasca M, Banfi G, Lombardi G. Free circulating miRNA measurement in clinical settings: the still unresolved issue of normalization. *Adv Clin Chem* 2018;87:113-39.
9. Vitale JA, Lombardi G, Weydahl A, Banfi G. Biological rhythms, chronodisruption and chrono-enhancement: The role of physical activity as synchronizer in correcting steroids circadian rhythm in metabolic dysfunctions and cancer. *Chronobiol Int* 2018;35(9):1185-97
10. Dugue B, Lombardi G, Banfi G. What everybody should know about postural changes. *Scand J Clin Lab Invest* 2018;78(5)407-10.
11. Bottani M, Brasca M, Ferraretto A, Cardone G, Casiraghi MC, Lombardi G, De Noni I, Cattaneo S, Silveti T. Chemical and nutritional properties of white bread leavened by lactic acid bacteria. *J Funct Food* 2018;45(2018):330-8.
12. Sansoni V, Perego S, Vernillo G, Barbuti A, Merati G, La Torre A, Banfi G, Lombardi G. Effects of repeated sprints training on fracture risk-associated miRNA. *Oncotarget* 2018;9:18029-40.
13. Perego S, Sansoni V, Banfi G, Lombardi G. Sodium Butyrate counteracts the pro-inflammatory effects of TNF α in osteosarcoma cells: possible anti-proliferative, pro-differentiating, and immunomodulatory effects in osteoblasts. *Int J Immunopathol Pharmacol* 2018;32:394632017752240.
14. Vitale JA, Lombardi G, Cavaleri L, Graziani R, Schoenuber H, La Torre A, Banfi G. Rates of insufficiency and deficiency of vitamin D levels in elite professional male and female skiers: A chronobiologic approach. *Chronobiol Int* 2018;35(4):441-9.
15. Vitale JA, Povia V, Vitale ND, Bassani T, Lombardi G, Giacomelli L, Banfi G, La Torre A. The effect of two different speed endurance training protocols on a multiple shuttle run performance in young elite male soccer players. *Res Sport Med* 2018;26(4):436-49.
16. Lombardi G, Banfi G. Comments on the paper "Transient global amnesia following a whole-body cryotherapy session". *BMJ Case Rep eLetter* 8th November 2017 http://casereports.bmj.com/content/2017/bcr-2017-221431/reply#casereports_el_4077
17. Ferrari D, Lombardi G, Banfi G. Concerning the vitamin D reference range: pre-analytical and analytical variability of vitamin D measurement. *Biochem Med* 2017;27(3):030501.

18. Lombardi G, Ziemann E, Banfi G. Whole-body cryotherapy in athletes: from therapy to stimulation. An updated review of the literature. *Front Physiol* 2017;8:258.
19. Lombardi G, Sansoni V, Banfi G. Measuring myokines with cardiovascular functions: pre-analytical variables affecting the analytical output. *Ann Transl Med* 2017;5(15):299.
20. Lombardi G, Vitale JA, Logoluso S, Logoluso G, Cocco N, Cocco G, Cocco A, Banfi G. Circannual rhythm of plasmatic vitamin D levels and the association with markers of psychophysical stress in a cohort of Italian professional soccer players. *Chronobiol Int* 2017;34(4):471-9.
21. Lombardi G, Barbaro M, Locatelli M, Banfi G. Novel bone metabolism-associated hormones: the importance of the pre-analytical phase for understanding their physiological roles. *Endocrine* 2017;56(3):460-84.
22. Sansoni V, Vernillo G, Perego S, Barbuti A, Merati G, Schena F, La Torre A, Banfi G, Lombardi G. Bone turnover response is linked to both acute and established metabolic changes in ultra-marathon runners. *Endocrine* 2017;56(1):196-204.
23. Cauci S, Viganò M, De Luca P, Perucca Orfei C, Banfi G, Lombardi G, Brayda-Bruno M, Colombini A. High levels of circulating type II collagen degradation marker (CTx-II) are associated with specific VDR polymorphisms in patients with adult vertebral osteochondrosis. *Int J Mol Sci* 2017;18:2073.
24. Brayda-Bruno M, Viganò M, Cauci S, Vitale JA, de Girolamo L, De Luca P, Lombardi G, Banfi G, Colombini A. Plasma vitamin D and osteo-cartilaginous markers in Italian males affected by intervertebral disc degeneration: focus on seasonal and pathological trend of type II collagen degradation. *Clin Chim Acta* 2017;471:87-93.
25. Sanchis-Gomar F, Alis R, Rampinini E, Bosio A, Romagnoli M, Lombardi G, Lippi G. Alpha-amylase serum levels in professional soccer players are not related with physical fitness. *J Sports Med Phys Fitness* 2017;57(3):214-8.
26. Lombardi G, Vernillo G, Sansoni V, Perego S, Barbuti A, Merati G, Schena F, Banfi G, La Torre A. Plasminogen activator inhibitor-1 as a marker of cardiovascular response in professional mountain ultra-marathon runners. *Clin Chem Lab Med* 2017;55(1):e7-e9.
27. Lombardi G, Perego S, Sansoni V, Diani M, Banfi G, Altomare G. Anti-adalimumab antibodies in psoriasis: lack of clinical utility and laboratory evidences. *BMJ Open* 2016;6(12):e011941.
28. Lombardi G, Perego S, Sansoni V, Banfi G. Circulating miRNA as fine regulators of the physiological responses to physical activity: pre-analytical warnings for a novel class of biomarkers. *Clin Biochem* 2016;49(2016):1331-9.
29. Lombardi G, Sanchis-Gomar F, Perego S, Sansoni V, Banfi G. Implications of exercise-induced adipo-myokines in bone metabolism. *Endocrine* 2016;54(2):284-305.
30. Xu J, Lombardi G, Jiao W, Banfi G. Effects of exercise on bone status in female subjects from young girls to postmenopausal women: an overview of systematic reviews and meta-analyses. *Sports Med* 2016;46(8):1165-82.
31. Sanchis-Gomar F, Lopez Ramon M, Alis R, Garatachea N, Pareja-Galeano H, Santos Lozano A, Catalan P, Sansoni V, Perego S, Lombardi G, Loellgen H, Bueno H, Serrano-Ostariz E, Lucia A. No evidence of adverse cardiac remodeling in former elite endurance athletes. *Int J Cardiol* 2016;222:171-7.
32. Colombini A, Brayda-Bruno M, Lombardi G, Croiset SJ, Ceriani C, Buligan C, Barbina M, Banfi G, Cauci S. BsmI, ApaI and TaqI polymorphisms in the vitamin D receptor gene (VDR) and association with lumbar spine pathologies. *PLoS ONE* 2016;11(5):e0155004.
33. Sansoni V, Perego S, Colombini A, Banfi G, Brayda-Bruno M, Lombardi G. Interplay between low plasma RANKL and VDR-FokI polymorphism in lumbar disc herniation independently from age, body mass, and environmental factors. A case-control study in the Italian population. *Eur Spine J* 2016;25:192-9.
34. Corsetti R, Barassi A, Perego S, Sansoni V, Rossi A, Damele C, Melzi d'Eril GL, Banfi G, Lombardi G. Changes in urinary amino acids excretion in relationship with muscle activity markers over a professional cycling stage race: in search of fatigue markers. *Amino Acids* 2016;48(1):183-92.
35. Perego S, Grasso D, Bodini BD, Cavaiani F, De Santis C, Ursino N, Pelosi C, Banfi G, Lombardi G. Perisurgical and intra-rehabilitative salivary steroid hormone profiles in bicompartamental arthroplasty. *J Biol Regul Homeost Agents* 2015;29(4):953-60.
36. Vernillo G, Agnello L, Barbuti A, Di Meco S, Lombardi G, Merati G, La Torre A. Postexercise autonomic function after repeated-sprints training. *Eur J Appl Physiol* 2015;115(11):2445-55.

37. Mora S, Puzzovio M, Giacomet V, Fabiano V, Maruca K, Capelli S, Nannini P, Lombardi G, Zuccotti GV. Sclerostin and DKK-1: two important regulators of bone metabolism in HIV-infected youths. *Endocrine* 2015;49(3):783-90.
38. Alis R, Sanchis-Gomar F, Ferioli D, La Torre A, Bosio A, Xu J, Lombardi G, Romagnoli M, Rampinini E. Association between physical fitness and mean platelet volume in professional soccer players. *Clin Chem Lab Med* 2015;53(10):e249-52.
39. Corsetti R, Perego S, Sansoni V, Xu, J, Barassi A, Banfi G, Lombardi G. Osteocartilaginous metabolic markers change over a 3-week stage race in pro-cyclists. *Scand J Clin Lab Invest* 2015;75:523-30.
40. Sanchis-Gomar F, Alis R, Rampinini E, Bosio A, Romagnoli M, Lombardi G, Lippi G. Hs-cTnT levels in professional soccer players throughout a season: No evidence of sustained cardiac damage. *Int J Cardiol* 2015;197:292-3.
41. Sanchis-Gomar F, Alis R, Rampinini E, Bosio A, Ferioli D, La Torre A, Xu J, Sansoni V, Perego S, Romagnoli M, Lombardi G. Adropin and apelin fluctuations throughout a season in professional soccer players: Are they related with performance? *Peptides* 2015;70:32-6.
42. Lombardi G, Perego S, Luzi L, Banfi G. A four-season molecule: osteocalcin. Updates in its physiological roles. *Endocrine* 2015;48(2):394-404.
43. Grasso D, Corsetti R, Lanteri P, Di Bernardo C, Colombini A, Graziani R, Banfi G, Lombardi G. Bone-muscle unit activity, salivary steroid hormones profile and physical effort over a 3-week stage race. *Scand J Med Sci Sport* 2015;25(1):70-80.
44. Colombini A, Lopa S, Ceriani C, Lovati AB, Croiset SJ, Di Giancamillo A, Lombardi G, Banfi G, Moretti M. In vitro characterization and in vivo behavior of human nucleus pulposus and annulus fibrosus cells in clinical grade fibrin and collagen-enriched fibrin gels. *Tissue Eng Part A* 2015;21(3-4):793-802.
45. Colombini A, Brayda-Bruno M, Ferino L, Lombardi G, Maione V, Banfi G, Cauci S. Gender Differences in the VDR-FokI Polymorphism and conventional non-genetic risk factors in association with lumbar spine pathologies in an Italian case-control study. *Int J Mol Sci* 2015;16:3722-39.
46. Lombardi G, Banfi G. Effects of sample matrix and storage conditions on full-length visfatin measurement in blood. *Clin Chim Acta* 2015;440:140-2.
47. Colombini A, Machado M, Lombardi G, Lanteri P, Banfi G. Modifications of biochemical parameters related to protein metabolism and renal function in male soccer players after a match. *J Sports Med Phys Fitness* 2014;54(5):658-64.
48. Galliera E, Lombardi G, Marazzi MG, Grasso D, Vianello E, Pozzoni R, Banfi G, Corsi Romanelli MM. Acute exercise in elite rugby players increases the circulating level of the cardiovascular biomarker GDF-15. *Scand J Clin Lab Invest* 2014;74(6):492-9.
49. Lombardi G, Corsetti R, Lanteri P, Grasso D, Vianello E, Marazzi MG, Graziani R, Colombini A, Galliera E, Corsi Romanelli MM, Banfi G. Reciprocal regulation of calcium/phosphate-regulating hormones in cyclists during the Giro d'Italia 3-week stage race. *Scand J Med Sci Sport* 2014;24(5):779-87.
50. Lombardi G, Grasso D, Berjano P, Banfi G, Lamartina C. Is minimally invasive spine surgery also minimally pro-inflammatory? Muscular markers, inflammatory parameters and cytokines to quantify the operative invasiveness assessment in spine fusion. *Eur J Inflamm* 2014;12(2):237-49.
51. Grasso D, Lanteri P, Di Bernardo C, Mauri C, Porcelli S, Colombini A, Zani V, Bonomi F, Melegati G, Banfi G, Lombardi G. Salivary steroid hormones response to whole-body cryotherapy in elite rugby players. *J Biol Regul Homeost Agents* 2014;28:291-300.
52. Lombardi G, Colombini A, Porcelli S, Mauri C, Zani V, Bonomi F, Melegati G, Banfi G. Muscular damage and kidney function in rugby players after daily whole body cryostimulation. *Physiol J* 2014;790540.
53. Colombini A, Brayda-Bruno M, Lombardi G, Croiset SJ, Vrech V, Maione V, Banfi G, Cauci S. FokI polymorphism in the vitamin D receptor gene (VDR) and its association with lumbar spine pathologies in the Italian population: a case-control study. *PLoS ONE* 2014;9(5):e97027.
54. Bettoni L, Bonomi FG, Zani V, Manisco L, Indelicato A, Lanteri P, Banfi G, Lombardi G. Effects of 15 consecutive cryotherapy sessions on the clinical output of fibromyalgic patients. *Clin Rheumatol* 2013;32(9):1337-45.
55. Colombini A, Perego S, Ardoino I, Marasco E, Lombardi G, Fiorilli A, Biganzoli E, Tettamanti G, Ferraretto A. Evaluation of a possible direct effect by casein phosphopeptides on paracellular and vitamin D controlled transcellular calcium

- transport mechanisms in intestinal human HT-29 and Caco2 cell lines. *Food Funct* 2013;4(8):1195-203.
56. Lombardi G, Lanteri P, Fiorella PL, Simonetto L, Impellizzeri FM, Bonifazi M, Banfi G, Locatelli M. Comparison of the hematological profile of elite road cyclists during the 2010 and 2012 GiroBio ten-day stage races and relationships with final ranking. *PLoS ONE* 2013;8(4):e63092.
 57. Lombardi G, Banfi G, Lippi G, Sanchis-Gomar F. Ex-vivo erythrocyte generation and blood doping. *Blood Transfus* 2013;11:161-3.
 58. Colombini A, Cauci S, Lombardi G, Lanteri P, Croiset S, Brayda-Bruno M, Banfi G. Relationship between vitamin D receptor gene (VDR) polymorphisms, vitamin D status, osteoarthritis and intervertebral disc degeneration. *J Steroid Biochem Mol Biol* 2013;138C:24-40.
 59. Lombardi G. Reply to Gore C. et al.: Plasma volume shift during multiday racing. *Clin Chem Lab Med* 2013;30:1-2.
 60. Lombardi G, Lanteri P, Porcelli S, Mauri C, Colombini A, Grasso D, Zani V, Bonomi FG, Melegati G, Banfi G. Hematological profile and martial status in rugby players during whole body cryostimulation. *PLoS ONE* 2013;8(2):e55803.
 61. Lombardi G, Colombini A, Lanteri P, Banfi G. Reticulocytes in sports medicine. An update. *Adv Clin Chem* 2013;59:125-53.
 62. Lanteri P, Lombardi G, Colombini A, Banfi G. Vitamin D in exercise: physiologic and analytical concerns. *Clin Chim Acta* 2013;415:45-53.
 63. Lanteri P, Lombardi G, Colombini A, Grasso D, Banfi G. Stability of osteopontin in plasma and serum. *Clin Chem Lab Med* 2012;50(11):1979-84.
 64. Lombardi G, Lanteri P, Graziani R, Colombini A, Banfi G, Corsetti R. Bone and energy metabolism parameters in professional cyclists during the Giro d'Italia 3-weeks stage race. *PLoS ONE* 2012;7(7):e42077.
 65. Colombini A, Corsetti R, Machado M, Graziani R, Lombardi G, Lanteri P, Banfi G. Serum creatine kinase activity and its relationship with renal function indices in professional cyclists during the Giro d'Italia 3-week stage race. *Clin J Sports Med* 2012;22(5):408-13.
 66. Corsetti R, Lombardi G, Barassi A, Lanteri P, Colombini A, Melzi d'Eril G, Banfi G. Cardiac indexes, cardiac damage biomarkers and energy expenditure in professional cyclists during the Giro d'Italia 3-weeks stage race. *Biochem Med* 2012;22(2):237-46.
 67. Corsetti R, Lombardi G, Lanteri P, Colombini A, Graziani R, Banfi G. Haematological and iron metabolism parameters in professional cyclists during the Giro d'Italia 3-weeks stage race. *Clin Chem Lab Med* 2012;50(5):949-56.
 68. Lombardi G, Lanteri P, Colombini A, Banfi G. Blood biochemical markers of bone turnover: pre-analytical and technical aspects of sample collection and handling. *Clin Chem Lab Med* 2012;50(5):771-89.
 69. Colombini A, Lanteri P, Lombardi G, Grasso D, Recordati C, Lovi A, Banfi G, Bassani R, Brayda-Bruno M. Metabolic effects of vitamin D active metabolites in monolayer and micromass cultures of nucleus pulposus and annulus fibrosus cells isolated from human intervertebral disc. *Int J Biochem Cell Biol* 2012;44(6):1019-30.
 70. Lombardi G, Lanteri P, Colombini A, Mariotti M, Banfi G. Sclerostin concentrations in athletes: role of load and gender. *J Biol Regul Homeost Agents* 2012;26(1):157-63.
 71. Banfi G, Colombini A, Lombardi G, Lubkowska A. Metabolic markers in sports medicine. *Adv Clin Chem* 2012;56:1-54.
 72. Colombini A, Corsetti R, Graziani R, Lombardi G, Lanteri P, Banfi G. Evaluation of creatinine, cystatin C and eGFR by different equations in professional cyclists during the Giro d'Italia 3-weeks stage race. *Scand J Clin Lab Invest* 2012;72:114-20.
 73. Milic R, Colombini A, Lombardi G, Lanteri P, Banfi G. Estimation of glomerular filtration rate by MDRD equation in athletes: role of body surface area. *Eur J Appl Physiol* 2011;112(1):201-6.
 74. Lombardi G, Lanteri P, Colombini A, Lippi G, Banfi G. Stability of haematological parameters and its relevance on the Athlete's Biological Passport model. *Sports Med* 2011;41(12):1033-42.
 75. Banfi G, Lombardi G, Colombini A, Lippi G. Analytical variability in sport haematology: its importance in an antidoping setting. *Clin Chem Lab Med* 2011;49(5):779-82.

76. Colombini A, Lombardi G, Banfi G, Arpesella M, Pelissero G. Athleticogenomics and elite athletes: a review of the state of the art and a possible relationship with inflammatory response. *It J Pub Health* 2011;8(3):275-85.
77. Lombardi G, Colombini A, Freschi M, Tavana R, Banfi G. Seasonal variation of bone turnover markers in top-level female skiers. *Eur J Appl Physiol* 2011;111(3):433-40.
78. Nason F, Morganti E, Collini C, Ress C, Bersini S, Pennati G, Boschetti F, Colombini A, Lombardi G, Banfi G, Lorenzelli L, Dubini G. Design of microfluidic devices for drug screening on in-vitro cells for osteoporosis therapies. *Microelectr Eng* 2011;88(8):1801-6.
79. Lombardi G, Acume MY, Colombini A, Moreau A, Banfi G. Biochemistry of adolescent idiopathic scoliosis. *Adv Clin Chem* 2011;54:165-82.
80. Díaz V, Lombardi G, Ricci C, Jacobs RA, Montalvo Z, Lundby C, Banfi G Reticulocyte and haemoglobin profiles in elite triathletes over four consecutive seasons. *Int J Lab Hematol* 2011;33(6):638-44.
81. Colombini A, Lombardi G, Galliera E, Dogliotti G, Randelli P, Meerssemann A, Mineo G, Cabitza P, Corsi MM. Plasma and drainage fluid levels of soluble receptor activator of nuclear factor- κ B (sRANK), soluble receptor activator of nuclear factor- κ B ligand (sRANKL) and osteoprotegerin (OPG) during proximal humerus fracture healing. *Int Orthop* 2011;35(5):777-82.
82. Lombardi G, Ricci C, Banfi G. Effects of winter swimming on haematological parameters. *Biochem Med* 2011;21(1):71-8.
83. Banfi G, Lombardi G, Colombini A, Lippi G. Bone metabolism markers in sports medicine. *Sports Med* 2010;40(8):697-714.
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91. Colombini A, Lombardi G, Corsi MM, Banfi G. Pathophysiology of the human intervertebral disc. *Int J Biochem Cell Biol* 2008;40(5):837-42.
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BOOKS

1. Lombardi G, Banfi G. Capitolo 5: Valutazione ematologica, in Volpi P, Medico del Calcio - Il Manuale, Edra, Milano, Italia 2018;39-45.
 2. Lombardi G, Lippi G, Banfi G. Chapter 19: Iron Requirements and Iron Status of Athletes, in Moughan RJ. The Encyclopaedia of Sports Medicine. An IOC Medical Commission Publication. Volume XIX: Sports Nutrition, Wiley-Blackwell, John Wiley & Sons, Inc.; Hoboken, NJ, USA 2013;229-41.
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CONGRESS PRESENTATIONS

INVITED TALKS

1. Training Course (1st, 2nd, 3rd level), Italian Hockey & Skating Federation (FIHP). Recoaro Terme (I), 31 Aug 2018
2. 2nd International Summit Forum on Exercise and Healthy China 2030. Beijing Sport University, Beijing (PRC), 9-10 Jun 2018
3. Annual meeting of the Board of Directors of the Italian Society of Clinical Biochemistry & Clinical Molecular Biology (SIBioC). Milano (I), 10 Apr 2018
4. 49th National Congress of the Italian Society of Clinical Biochemistry & Clinical Molecular Biology (SIBioC). Firenze (I), 16-18 Oct 2017
5. 28th National Congress of the Free Association of the Italian Soccer Physicians (LAMICa). Crema (I), 17 Oct 2016
6. Training Course (2nd, 3rd level), Italian Hockey & Skating Federation (FIHP). Recoaro Terme (I), 24 Aug 2016
7. International Symposium on Roller Hockey, Italian Hockey & Skating Federation (FIHP). Roma (I), 11 Jun 2016
8. Whole-body cryotherapy and its applications in medicine, Sapio Life S.r.l. IRCCS Ospedale San Raffaele, Milano (I), 5 Mar 2016
9. International Forum on Sport Rehabilitation and Recovery. Beijing Sport University, Beijing (PRC), 19-23 Nov 2015
10. 24th annual meeting of the Italian Society of Cycling Physicians (AIMEc). Faenza (I), 20-21 Nov 2015
11. Training Course (3rd level), Italian Hockey & Skating Federation (FIHP). Roma (I), 19-20 Sep 2015
12. Training Course (1st, 2nd, 3rd level), Italian Hockey & Skating Federation (FIHP). Roana (I), 19-20 Aug 2015
13. The importance of the pre-analytical phase in research, BD Italia. IRCCS Ospedale San Raffaele, Milano (I), 5 Mar 2015
14. 90th national congress of the Italian Society of Dermatology and Sexually Transmitted Diseases (SIDeMaST). Milano (I), 22-24 Apr 2015
15. Scientific Exchange Meeting on Psoriasis, Eli Lilly. Sesto Fiorentino (I), 19 Dec 2014
16. Clinical Course on Autoimmunity. PO Papardo-Piemonte, Messina (I), 11th Dec 2014
17. 21st annual meeting of the Italian Society of Cycling Physicians (AIMEc), Faenza (I), 16-17 Nov 2012
18. 20th annual meeting of the Italian Society of Cycling Physicians (AIMEc). Faenza (I), 18-19 Nov 2011
19. 2nd International Parma Conference on Rehabilitation, Recreational and Sports Medicine. Azienda Ospedaliero-Universitaria Ospedale Maggiore, Parma (I), 14 Jun 2012
20. 90th annual meeting of the Deutsche Physiologische Gesellschaft (DPG). Regensburg (D), 29 Mar 2011

3. ORALS & POSTERS

1. Faraldi M, Sansoni V, Perego S, Gomarasca M, Banfi G, Lombardi G*. Changes in free- and exosome-associated circulating miRNAs and myokine profile in professional sky-racers during the Gran Sasso d'Italia vertical run. 23rd congress of the European College of Sport Science (ECSS), Dublin (IRL), 4-7 Jul 2018 [MO-PM18, oral]
2. Verdelli C*, Tavelli M, Gomarasca M, Tavanti G, Vicentini L, Beretta E, Lombardi G, Corbetta S. The osteocalcin receptor GPRC6A is expressed on human parathyroid cells and modulates cyclin D1 expression levels. 18th Forum in Bone & Mineral Research, Roma (I), 10-11 May 2018 [poster]
3. Niada S*, Giannasi C, Lombardi G, Brini AT. Human adipose-derived stromal cell secretome beneficial potential in contrasting osteoarthritis. Annual meeting of the Gruppo Italiano Staminali Mesenchimali (GISM), Assisi (I), 12-13 Apr 2018 [poster]
4. Criniti S, Niada S, Lombardi G, Brini At, Banfi G. Biobanking, the experience of the IRCCS Galeazzi Orthopaedic Institute. Annual meeting of the Gruppo Italiano Staminali Mesenchimali (GISM), Assisi (I), 12-13 Apr 2018 [poster]
5. Faraldi M*, Sansoni V, Perego S, Paone R, Aielli F, Rucci N, Banfi G, Lombardi G. Changes in free and exosome-associated circulating miRNAs and myokine profile in

- professional sky-racers during the Gran Sasso d'Italia vertical run. Cell Symposia: Exercise Metabolism, Gothenburg (S), 21-23 May 2017 [poster]
6. Lombardi G*, Faraldi M, Sansoni V, Perego S, Banfi G. Pre-analytical variables affecting free-circulating miRNAs measurement: sample matrix, centrifugation, and storage conditions. 49th congress of the Italian Society of Clinical Biochemistry & Clinical Molecular Biology (SIBioC), Firenze (I), 16-18 Oct 2017 [poster; *Biochimica Clinica* 2017;41(3):S47,P032]
 7. Perego S, Sansoni V, Faraldi M, Banfi G, Lombardi G*. Erk- and Akt-mediated osteocalcin signaling in human pancreatic β -cells does not directly involve GPRC6A activation. 19th European Congress of Endocrinology (ECE), Lisboa (P), 20-23 May 2017 [poster; *Endocrine Abstracts* 2017;49:EP777]
 8. Perego S, Sansoni V, Banfi G, Lombardi G*. GPRC6A is not directly involved in Erk- and Akt-mediated osteocalcin signaling in human pancreatic β -cells. 44th congress of the European Calcified Tissue Society (ECTS), Salzburg (A), 13-16 May 2017 [oral poster; *Calcif Tissue Int* 2017;100:S1-S174,P-MEFG-8]
 9. Lombardi G*, Sansoni V, Perego S, Vernillo G, Merati G, Barbuti A, La Torre A, Banfi G. Participation in a 8-week repeated sprint training protocol affect the circulating profile of a panel of fracture-risk associated miRNAs in young males. 44th congress of the European Calcified Tissue Society (ECTS), Salzburg (A), 13-16 May 2017 [oral poster; *Calcif Tissue Int* 2017;100:S1-S174,P-MUSC-10]
 10. Perego S, Sansoni V, Banfi G, Lombardi G*. Sodium butyrate induces the expression of a differentiated and anti-inflammatory phenotype in human osteosarcoma cells, in vitro. 44th congress of the European Calcified Tissue Society (ECTS), Salzburg (A), 13-16 May 2017 [poster; *Calcif Tissue Int* 2017;100:S1-S174,P-NUTR-9]
 11. Corbetta S*, Passeri E, Mazzacaro D, Sansoni V, Perego S, Verdelli C, Nano G, Lombardi G. Effetto di 12 mesi di trattamento con teriparatide sullo spessore dell'intimo-media carotidea in pazienti con osteoporosi severa post-menopausale. 16th annual congress of the Italian Society of Osteoporosis, Mineral Metabolism, and Diseases of the Skeleton (SIOMMS), Roma (I), 20-22 Oct 2016 [poster]
 12. Lombardi G*, Sansoni V, Perego S, Vernillo G, Bonzanni M, Merati G, Barbuti A, La Torre A, Banfi G. Changes in fracture risk-associated circulating miRNA profile over an 8-week repeated sprint training protocol. 48th congress of the Italian Society of Clinical Biochemistry & Clinical Molecular Biology (SIBioC), Torino (I), 18-20 Oct 2016 [poster; *Biochimica Clinica* 2016;40(4):S42,P010].
 13. Lombardi G*, Sansoni V, Perego S, Vernillo G, Schena F, Merati G, Barbuti A, La Torre A, Banfi G. Ultra-trail marathon induces bone response in association with acute and established metabolic changes. 18th European Congress of Endocrinology (ECE), München (D), 28-31 May 2016 [oral; *Endocrine Abstracts* 2016;41:OC11.3]
 14. Lombardi G*, Sansoni V, Perego S, Vernillo G, Bonzanni M, Merati G, Barbuti A, La Torre A, Banfi G. Bone-specific circulating miRNA profile changes over an 8-week repeated sprint training protocol. 18th European Congress of Endocrinology (ECE), München (D), 28-31 May 2016 [oral poster; *Endocrine Abstracts* 2016;41:GP31]
 15. Perego S, Sansoni V, Banfi G, Lombardi G*. Unstable expression of GPRC6A in human pancreatic beta-cells. 18th European Congress of Endocrinology (ECE), München (D), 28-31 May 2016 [poster; *Endocrine Abstracts* 2016;41:EP482]
 16. Lombardi G*, Berjano P, Cecchinato R, Perego S, Sansoni V, Tartara F, Banfi G, Lamartina C. Inflammatory profiling of patients undergoing lumbar interbody fusion by different approaches: in search for markers of mini-invasiveness. 5th Global Spine Congress (GSC), Dubai (UAE), 13-16 Apr 2016 [oral; *Global Spine J* 2016;06-G0363]
 17. Lombardi G*, Perego S, Sansoni V, Diani M, Altomare G. Valutazione del profilo di immunogenicità di Adalimumab in funzione delle risposte clinica e biochimica al trattamento. 51st congress of Italian Society of Rheumatology (SIR), Rimini (I) 26-29 Nov 2014 [oral poster]
 18. Sansoni V*, Perego S, Banfi G, Lombardi G. Effetto del trattamento con butirrato di sodio su proliferazione, differenziamento ed espressione del fenotipo pro-infiammatorio in linee cellulari di osteosarcoma: possibile ruolo nella regolazione dell'osteolisi. 51st congress of Italian Society of Rheumatology (SIR), Rimini (I) 26-29 Nov 2014 [oral poster]
 19. Colombini A*, Brayda-Bruno M, Ferino L, Lombardi G, Maione V, Banfi G, Cauci S. Gender-related association of FokI polymorphism in the vitamin d receptor gene and

- conventional risk factors with lumbar spine pathologies. 46th congress of Italian Society of Clinical Biochemistry & Clinical Molecular Biology (SIBioC), Roma (I), 13-15 Oct 2014 [poster; *Biochimica Clinica* 2014;38(5):581,P304].
20. Perego S, Sansoni V, Banfi G, Lombardi G*. Effects of sodium butyrate on proliferation, differentiation, and expression of a pro-osteolytic phenotype in osteosarcoma cells. 14th Forum in Bone & Mineral Research, Siena (I), 23-24 May 2014 [oral presentation]
 21. Lombardi G*, Banfi G. Physical exercise and bone: friends or foes? 6th congress of the Italian Society of Sport Sciences (SISMeS), Napoli (I), 26-28 Sep 2014 [oral]
 22. Colombini A*, Banfi G, Brayda-Bruno M, Lombardi G, Croiset S, Vrech V, Maione V, Cauci S. Associazione legata al sesso tra il polimorfismo FokI del gene codificante per il recettore della vitamina D (VDR) e le patologie della colonna vertebrale. 3rd congresso nazionale sulla Medicina di Genere, Padova (I) 10-11 Oct 2013 [poster]
 23. Lombardi G*, Lanteri P, Corsetti R, Grasso D, Di Bernardo C, Colombini A, Graziani R, Banfi G. Salivary hormonal profile in relation with bone-muscle activity over a cycling stage race. 18th congress of the European College of Sport Science (ECSS), Barcelona (E), 26-29 Jun 2013 [oral]
 24. Lanteri P, Grasso D*, Di Bernardo C, Mauri C, Porcelli S, Colombini A, Zani V, Bonomi FG, Melegati G, Banfi G, Lombardi G. Salivary sex hormone response in rugby players after whole-body cryostimulation. 18th congress of the European College of Sport Science (ECSS), Barcelona (E), 26-29 Jun 2013 [oral poster]
 25. Lombardi G*, Lanteri P, Corsetti R, Colombini A, Banfi G. Relationship between osteocalcin, undercarboxylated osteocalcin and markers of energy status in elite cyclists during the Giro d'Italia three-weeks stage race. 39th congress of the European Calcified Tissue Society (ECTS), Stockholm (S), 19-23 May 2012 [poster; *Bone* 2012;50(1):S1-S208, PP425]
 26. Lanteri P*, Lombardi G, Corsetti R, Colombini A, Banfi G. Evaluation of bone metabolism in elite cyclists during the Giro d'Italia three-week stage race. 39th congress of the European Calcified Tissue Society (ECTS), Stockholm (S), 19-23 May 2012 [poster; *Bone* 2012;50(1):S1-S208, PP436]
 27. Lombardi G*, Colombini A, Freschi M, Tavana R, Schoenhuber H, Banfi G. Bone turnover markers and vitamin D status over a training year in female elite alpine skiers. 13th European Congress of Endocrinology (ECE), Rotterdam (NL) 30 Apr-4 May 2011 [poster; *Endocrine Abstracts* 2011;26:P544]
 28. Lombardi G*, Colombini A, Freschi M, Tavana R, Schoenhuber H, Banfi G. Bone turnover markers and vitamin D status over a training year in female elite alpine skiers 5th International Congress of Science in Skiing (ICSS), St Anton am Arlberg (A), 14-19 Dec 2010 [oral]

* presenting author

The undersigned Giovanni Lombardi authorizes the use of the personal data contained in the CV as reported in the art. 13, D. Lgs. 196/2003 (Italy).

Milano 20th December 2018

In witness thereof,
Giovanni Lombardi