



### **Prof. Sergio Bernardini**

Full Professor in Clinical Biochemistry and Clinical Molecular Biology-Head Physician of the Laboratory Medicine Unit-University of Tor Vergata Hospital, Viale Oxford 81, 00133 Rome-Italy

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### **Education**

1986: Doctor of Medicine, University of Rome "La Sapienza"

1990: Postgraduate specialization in Pediatrics, University of Rome Tor Vergata

1990-1991: Internship at the Department of Endocrinology, Karolinska Sjukhuset, Stockholm

1995: PhD in Paediatrics, University of Rome Tor Vergata

1998: Postgraduate Specialization in Clinical Biochemistry, University of Camerino

### **Work Experience**

1997-2010: Research consultant in Clinical Biochemistry and Clinical Molecular Biochemistry, Bambino Gesù Children Hospital, Rome.

1998-2001: Researcher in Clinical Biochemistry at the Department of Internal Medicine, University of Rome Tor Vergata.

2000-2018: Member of the Professors' Committee for the PhD programme in Biochemical Sciences, University of Rome Tor Vergata.

2018-present: Member of the Professors' Committee for the PhD programme in Industrial Engineering, University of Rome Tor Vergata.

2002-2012: President of undergraduate course in "Diagnostic laboratory techniques in the medical field".

2002-2006: Associate Professor in Clinical Biochemistry and Clinical Molecular Biochemistry at the Department of Internal Medicine, University of Rome Tor Vergata.

2007-present: Full Professor in Clinical Biochemistry and Clinical Molecular Biochemistry at the Department of Experimental Medicine, University of Rome Tor Vergata.

2008-2010: Visiting scientist at the Medical Research Council-Toxicology Unit, Leicester, U.K

2012-2018: Director of the Postgraduate Specialization in Clinical Pathology and Clinical Biochemistry University of Rome Tor Vergata.

2012-2016: Director of the Postgraduate Master in "Ethical regulatory and methodological aspects of clinical trials" University of Rome Tor Vergata.

2013-2016: President of Degree course in Pharmacy, University of Rome Tor Vergata.

2016-2021: Director of the InterDipartimental Center for Culture and Science of Sport, University of Tor Vergata.

2016-present: Director of the Inter University Center for Social Sport, University of Tor Vergata/Roma Tre.

2016-2019: Dean of Degree in Sport and Exercise Sciences, University of Tor Vergata.

### **Current Teaching Responsibilities**

Clinical Biochemistry and Clinical Molecular Biology in the following Courses at the University of Tor Vergata, Rome:

- Bachelor course in Diagnostic laboratory techniques in the medical field;
- Degree courses in Medicine, Medical Biotechnologies;
- School of Sport and Exercise Sciences;
- Postgraduate courses in Clinical Biochemistry, Gastroenterology, Neurology, Medical Genetics, Allergology and Immunology, Paediatrics, Surgery
- PhD Course in Industrial Engineering Committee Member

### **Hospital Work**

1994 to 1997: assistant to the Clinical Biochemistry Laboratory of Bambino Gesù Children Hospital of Rome.

2000 to 2006: chief of the Allergology and Autoimmunity sections at the Tor Vergata University Hospital of Rome.

2007-2012: Head physician of the Clinical Molecular Biology Unit- Tor Vergata University Hospital

2012-2019: Head physician of the Laboratory Medicine Unit- Tor Vergata University Hospital

2019-present: Chief of the Laboratory Medicine Functional Integratd Area (Clinical Biochemistry, Microbiology, Virology and Pathology)- Tor Vergata University Hospital.

### **Member of :**

2018-2019: President of the Italian Society of Clinical Biochemistry and Clinical Molecular Biology (SIBioC)

2012-2017: Secretary of the International Federation Clinical Chemistry and Laboratory Medicine (IFCC)

2018-present: Chair of the Emerging Technologies Division of IFCC

2016-present: member of the Editorial Board of Clinica Chimica Acta

2019-present: member of the Editorial Board of Critical Review in Clinical Laboratory Sciences

### **International Conference Scientific Meeting Membership:**

EuroMedLab 2019 Barcelona (Spain)

AACC Conference 2020 Chicago (US)

WorldLab/EuroMedLab 2023 Rome, President of the Congress

## Publication list

1. Campione E, Lanna C, Cosio T, Rosa L, Conte MP, Iacovelli F, Romeo A, Falconi M, Del Vecchio C, Franchin E, Lia MS, Minieri M, Chiaramonte C, Ciotti M, Nuccetelli M, Terrinoni A, Iannuzzi I, Coppeta L, Magrini A, **Bernardini S**, Sabatini S, Rosapepe F, Bartoletti PL, Moricca N, Di Lorenzo A, Andreoni M, Sarmati L, Miani A, Piscitelli P, Squillaci E, Valenti P, Bianchi L. Lactoferrin as Antiviral Treatment in COVID-19 Management: Preliminary Evidence. *Int J Environ Res Public Health*. 2021 Oct 19;18(20):10985. doi: 10.3390/ijerph182010985.
2. Nicolai E, Pieri M, Gratton E, Motolese G, **Bernardini S**. Bacterial Infection Diagnosis and Antibiotic Prescription in 3 h as an Answer to Antibiotic Resistance: The Case of Urinary Tract Infections. *Antibiotics (Basel)*. 2021 Sep 26;10(10):1168. doi: 10.3390/antibiotics10101168.
3. Cristiano A, Nuccetelli M, Pieri M, Sarubbi S, Pelagalli M, Calugi G, Tomassetti F, **Bernardini S**. Serological anti-SARS-CoV-2 neutralizing antibodies association to live virus neutralizing test titers in COVID-19 paucisymptomatic/symptomatic patients and vaccinated subjects. *Int Immunopharmacol*. 2021 Oct 4;101(Pt B):108215. doi: 10.1016/j.intimp.2021.108215.
4. Infantino M, Pieri M, Nuccetelli M, Grossi V, Lari B, Tomassetti F, Calugi G, Pancani S, Benucci M, Casprini P, Manfredi M, **Bernardini S**. The WHO International Standard for COVID-19 serological tests: towards harmonization of anti-spike assays. *Int Immunopharmacol*. 2021 Aug 30;100:108095. doi: 10.1016/j.intimp.2021.108095.
5. Ciotti M, Ciccozzi M, Pieri M, **Bernardini S**. The COVID-19 pandemic: viral variants and vaccine efficacy. *Crit Rev Clin Lab Sci*. 2021 Oct 1:1-10. doi: 10.1080/10408363.2021.1979462.
6. Caporali S, Calabrese C, Minieri M, Pieri M, Tarantino U, Marini M, D'Ottavio S, Angeletti S, Mauriello A, Cortese C, **Bernardini S**, Terrinoni A. The miR-133a, TPM4 and TAp63 $\gamma$  Role in Myocyte Differentiation Microfilament Remodelling and Colon Cancer Progression. *Int J Mol Sci*. 2021 Sep 10;22(18):9818. doi: 10.3390/ijms22189818.
7. Aiello F, Ciotti M, Gallo Afflitto G, Rapanotti MC, Caggiano B, Treglia M, Grelli S, **Bernardini S**, Mauriello S, Nucci C, Marsella LT, Mancino R. Post-Mortem RT-PCR Assay for SARS-CoV-2 RNA in COVID-19 Patients' Corneal Epithelium, Conjunctival and Nasopharyngeal Swabs. *J Clin Med*. 2021 Sep 20;10(18):4256. doi: 10.3390/jcm10184256.
8. Dabla PK, Gruson D, Gouget B, **Bernardini S**, Homsak E. Lessons Learned from the COVID-19 Pandemic: Emphasizing the Emerging Role and Perspectives from Artificial Intelligence, Mobile Health, and Digital Laboratory Medicine. *EJIFCC*. 2021 Jun 29;32(2):224-243.
9. **Bernardini S**, Pieri M, Ciotti M. How Could POCT be a Useful Tool for Migrant and Refugee Health? *EJIFCC*. 2021 Jun 29;32(2):200-208.

10. **Bernardini S.** Foreword: Introducing the eJIFCC Special Issue on "POCT - Making the Point". *EJIFCC*. 2021 Jun 29;32(2):116-117.
11. Sancesario GM, Di Lazzaro G, Grillo P, Biticchi B, Giannella E, Alwardat M, Pieri M, **Bernardini S**, Mercuri NB, Pisani A, Schirinzi T. Biofluids profile of  $\alpha$ -Klotho in patients with Parkinson's disease. *Parkinsonism Relat Disord*. 2021 Sep;90:62-64. doi: 10.1016/j.parkreldis.2021.08.004.
12. Martino FG, Vitillo M, Pieri M, Marrone G, Gangeri F, Ansali F, Dessì M, **Bernardini S**, Di Daniele N, Noce A. Biomarkers of Glyco-Metabolic Control in Hemodialysis Patients: Glycated Hemoglobin vs. Glycated Albumin. *Medicina (Kaunas)*. 2021 Jul 14;57(7):712. doi: 10.3390/medicina57070712.
13. Della-Morte D, Pacifici F, Ricordi C, Massoud R, Rovella V, Proietti S, Iozzo M, Lauro D, **Bernardini S**, Bonassi S, Di Daniele N. Low level of plasminogen increases risk for mortality in COVID-19 patients. *Cell Death Dis*. 2021 Aug 5;12(8):773. doi: 10.1038/s41419-021-04070-3.
14. Tomassetti F, Nuccetelli M, Sarubbi S, Gisone F, Ciotti M, Spinazzola F, Ricotta C, Cagnoli M, Borgatti M, Iannetta M, Andreoni M, Calugi G, Pieri M, **Bernardini S**. Evaluation of S-RBD and high specificity ACE-2-binding antibodies on SARS-CoV-2 patients after six months from infection. *Int Immunopharmacol*. 2021 Oct;99:108013. doi: 10.1016/j.intimp.2021.108013.
15. Mougang YK, Di Zazzo L, Minieri M, Capuano R, Catini A, Legramante JM, Paolesse R, **Bernardini S**, Di Natale C. Sensor array and gas chromatographic detection of the blood serum volatolomic signature of COVID-19. *iScience*. 2021 Aug 20;24(8):102851. doi: 10.1016/j.isci.2021.102851.
16. Campione E, Lanna C, Cosio T, Rosa L, Conte MP, Iacovelli F, Romeo A, Falconi M, Del Vecchio C, Franchin E, Lia MS, Minieri M, Chiaramonte C, Ciotti M, Nuccetelli M, Terrinoni A, Iannuzzi I, Coppeda L, Magrini A, **Bernardini S**, Sabatini S, Rosapepe F, Bartoletti PL, Moricca N, Di Lorenzo A, Andreoni M, Sarmati L, Miani A, Piscitelli P, Valenti P, Bianchi L. Lactoferrin Against SARS-CoV-2: *In Vitro* and *In Silico* Evidences. *Front Pharmacol*. 2021 Jun 17;12:666600. doi: 10.3389/fphar.2021.666600.
17. Mastandrea P, Mengozzi S, **Bernardini S**. Systematic review and cumulative meta-analysis of the diagnostic accuracy of glial fibrillary acidic protein vs. S100 calcium binding protein B as blood biomarkers in observational studies of patients with mild or moderate acute traumatic brain injury. *Diagnosis (Berl)*. 2021 Jul 1. doi: 10.1515/dx-2021-0006.
18. Caporali S, Didona B, Paradisi M, Mauriello A, Campione E, Falconi M, Iacovelli F, Minieri M, Pieri M, **Bernardini S**, Terrinoni A. Post Zygotic, Somatic, Deletion in KERATIN 1 V1 Domain Generates Structural Alteration of the K1/K10 Dimer, Producing a Monolateral Palmar Epidermolytic Nevus. *Int J Mol Sci*. 2021 Jun 27;22(13):6901. doi: 10.3390/ijms22136901.

19. Minieri M, Leoni BD, Bellincampi L, Bajo D, Agnoli A, De Angelis AM, Pieri M, Equitani F, Rossi V, Valente F, Pignalosa S, Terrinoni A, **Bernardini S**. Serum iPTH range in a reference population: From an integrated approach to vitamin D prevalence impact evaluation. *Clin Chim Acta*. 2021 Oct;521:1-8. doi: 10.1016/j.cca.2021.06.004.
20. Cherubini F, Cristiano A, Valentini A, **Bernardini S**, Nuccetelli M. Circulating calprotectin as a supporting inflammatory marker in discriminating SARS-CoV-2 infection: an observational study. *Inflamm Res*. 2021 Jun;70(6):687-694. doi: 10.1007/s00011-021-01465-y.
21. Servadei F, Mauriello S, Scimeca M, Caggiano B, Ciotti M, Anemona L, Montanaro M, Giacobbi E, Treglia M, **Bernardini S**, Marsella LT, Urbano N, Schillaci O, Mauriello A. Persistence of SARS-CoV-2 Viral RNA in Nasopharyngeal Swabs after Death: An Observational Study. *Microorganisms*. 2021 Apr 10;9(4):800. doi: 10.3390/microorganisms9040800.
22. Balestrieri E, Minutolo A, Petrone V, Fanelli M, Iannetta M, Malagnino V, Zordan M, Vitale P, Charvet B, Horvat B, **Bernardini S**, Garaci E, di Francesco P, Sinibaldi Vallebona P, Sarmati L, Grelli S, Andreoni M, Perron H, Matteucci C. Evidence of the pathogenic HERV-W envelope expression in T lymphocytes in association with the respiratory outcome of COVID-19 patients. *EBioMedicine*. 2021 Apr;66:103341. doi: 10.1016/j.ebiom.2021.103341.
23. Orlacchio A, Gasparrini F, Roma S, Ravà MS, Salvatori E, Morosetti D, Cossu E, Legramante JM, Paganelli C, **Bernardini S**, Minieri M. Correlations between chest-CT and laboratory parameters in SARS-CoV-2 pneumonia: A single-center study from Italy. *Medicine (Baltimore)*. 2021 Apr 9;100(14):e25310. doi: 10.1097/MD.00000000000025310.
24. Scucchi L, Neri B, Sarmati L, Mossa M, Sena G, Massoud R, Petruzzello C, Musumeci M, Marafini I, Calabrese E, Lolli E, **Bernardini S**, Andreoni M, Monteleone G, Biancone L. Low prevalence of SARS-CoV-2 infection in inflammatory bowel disease. *Eur Rev Med Pharmacol Sci*. 2021 Mar;25(5):2418-2424. doi: 10.26355/eurrev\_202103\_25283.
25. Ciotti M, Benedetti F, Zella D, Angeletti S, Ciccozzi M, **Bernardini S**. SARS-CoV-2 Infection and the COVID-19 Pandemic Emergency: The Importance of Diagnostic Methods. *Chemotherapy*. 2021;66(1-2):17-23. doi: 10.1159/000515343. Epub 2021 Mar 19.
26. Pieri M, Ciotti M, Nuccetelli M, Perrone MA, Calì MT, Lia MS, Minieri M, **Bernardini S**. Serum Amyloid A Protein as a useful biomarker to predict COVID-19 patients severity and prognosis. *Int Immunopharmacol*. 2021 Jun;95:107512. doi: 10.1016/j.intimp.2021.107512.
27. Ciotti M, Nicolai E, Marcuccilli F, **Bernardini S**. Use of a rapid point-of-care molecular test in the triage of suspected COVID-19 cases. *J Med Virol*. 2021 Jul;93(7):4088-4089. doi: 10.1002/jmv.26944.

28. Zenuni H, Grillo P, Sancesario GM, **Bernardini S**, Mercuri NB, Schirinzi T. How Comorbidity Reflects on Cerebrospinal Fluid Biomarkers of Neurodegeneration in Aging. *J Alzheimers Dis Rep.* 2021 Jan 29;5(1):87-92. doi: 10.3233/ADR-200280.
29. Scimeca M, Mauriello S, Servadei F, Caggiano B, Ciotti M, Anemona L, Montanaro M, Giacobbi E, Treglia M, **Bernardini S**, Marsella LT, Schillaci O, Mauriello A. Persistence of SARS-CoV-2 viral RNA in nasopharyngeal swabs after death. *J Infect.* 2021 May;82(5):e3-e5. doi: 10.1016/j.jinf.2021.02.016.
30. Infante M, Buoso A, Pieri M, Lupisella S, Nuccetelli M, **Bernardini S**, Fabbri A, Iannetta M, Andreoni M, Colizzi V, Morello M. Low Vitamin D Status at Admission as a Risk Factor for Poor Survival in Hospitalized Patients With COVID-19: An Italian Retrospective Study. *J Am Coll Nutr.* 2021 Feb 18:1-16. doi: 10.1080/07315724.2021.1877580.
31. Infante M, Pieri M, Lupisella S, D'Amore L, **Bernardini S**, Fabbri A, Iannetta M, Andreoni M, Morello M. Low testosterone levels and high estradiol to testosterone ratio are associated with hyperinflammatory state and mortality in hospitalized men with COVID-19. *Eur Rev Med Pharmacol Sci.* 2021 Oct;25(19):5889-5903. doi: 10.26355/eurrev\_202110\_26865.
32. Costantini M, Testa S, Fornetti E, Fuoco C, Sanchez Riera C, Nie M, **Bernardini S**, Rainer A, Baldi J, Zoccali C, Biagini R, Castagnoli L, Vitiello L, Blaauw B, Seliktar D, Świążkowski W, Garstecki P, Takeuchi S, Cesareni G, Cannata S, Gargioli C. Biofabricating murine and human myo-substitutes for rapid volumetric muscle loss restoration. *EMBO Mol Med.* 2021 Mar 5;13(3):e12778. doi: 10.15252/emmm.202012778.
33. Pieri M, Pignalosa S, Perrone MA, Russo C, Noce G, Perrone A, Terrinoni A, Massoud R, **Bernardini S**. Evaluation of the Diesse Cube 30 touch erythrocyte sedimentation method in comparison with Alifax test 1 and the manual Westergren gold standard method. *Scand J Clin Lab Invest.* 2021 May;81(3):181-186. doi: 10.1080/00365513.2021.1881996.
34. Favresse J, Bayart JL, Gruson D, **Bernardini S**, Clerico A, Perrone M. The underestimated issue of non-reproducible cardiac troponin I and T results: case series and systematic review of the literature. *Clin Chem Lab Med.* 2021 Jan 12;59(7):1201-1211. doi: 10.1515/cclm-2020-1564.
35. Matteucci C, Minutolo A, Balestrieri E, Petrone V, Fanelli M, Malagnino V, Iannetta M, Giovinazzo A, Barreca F, Di Cesare S, De Marco P, Miele MT, Toschi N, Mastino A, Sinibaldi Vallebona P, **Bernardini S**, Rogliani P, Sarmati L, Andreoni M, Grelli S, Garaci E. Thymosin Alpha 1 Mitigates Cytokine Storm in Blood Cells From Coronavirus Disease 2019 Patients. *Open Forum Infect Dis.* 2020 Dec 5;8(1):ofaa588. doi: 10.1093/ofid/ofaa588.
36. Ciotti M, Maurici M, Pieri M, Andreoni M, **Bernardini S**. Performance of a rapid antigen test in the diagnosis of SARS-CoV-2 infection. *J Med Virol.* 2021 May;93(5):2988-2991. doi: 10.1002/jmv.26830.

37. De Stefano A, Caporali S, Di Daniele N, Rovella V, Cardillo C, Schinzari F, Minieri M, Pieri M, Candi E, **Bernardini S**, Tesauro M, Terrinoni A. Anti-Inflammatory and Proliferative Properties of Luteolin-7-O-Glucoside. *Int J Mol Sci.* 2021 Jan 28;22(3):1321. doi: 10.3390/ijms22031321.
38. Perrone MA, Spolaore F, Ammirabile M, Romeo F, Caciagli P, Ceriotti F, **Bernardini S**. The assessment of high sensitivity cardiac troponin in patients with COVID-19: A multicenter study. *Int J Cardiol Heart Vasc.* 2021 Feb;32:100715. doi: 10.1016/j.ijcha.2021.100715.
39. Cristiano A, Fortunati V, Cherubini F, **Bernardini S**, Nuccetelli M. Anti-phospholipids antibodies and immune complexes in COVID-19 patients: a putative role in disease course for anti-annexin-V antibodies. *Clin Rheumatol.* 2021 Jul;40(7):2939-2945. doi: 10.1007/s10067-021-05580-3.
40. Pieri M, Nuccetelli M, Nicolai E, Sarubbi S, Grelli S, **Bernardini S**. Clinical validation of a second generation anti-SARS-CoV-2 IgG and IgM automated chemiluminescent immunoassay. *J Med Virol.* 2021 Apr;93(4):2523-2528. doi: 10.1002/jmv.26809.
41. Nuccetelli M, Pieri M, Gisone F, Sarubbi S, Ciotti M, Andreoni M, **Bernardini S**. Evaluation of a new simultaneous anti-SARS-CoV-2 IgA, IgM and IgG screening automated assay based on native inactivated virus. *Int Immunopharmacol.* 2021 Mar;92:107330. doi: 10.1016/j.intimp.2020.107330.
42. Schirinzi T, Maftai D, Pieri M, **Bernardini S**, Mercuri NB, Lattanzi R, Severini C. Increase of Prokineticin-2 in Serum of Patients with Parkinson's Disease. *Mov Disord.* 2021 Apr;36(4):1031-1033. doi: 10.1002/mds.28458.
43. Perrone MA, Storti S, Salvadori S, Pecori A, **Bernardini S**, Romeo F, Guccione P, Clerico A. Cardiac troponins: are there any differences between T and I? *J Cardiovasc Med (Hagerstown).* 2021 Nov 1;22(11):797-805. doi: 10.2459/JCM.0000000000001155.
44. Diluvio L, Caporali S, Lozzi F, Campione E, Mazzilli S, Lanna C, Bianchi L, **Bernardini S**, Minieri M, Mauriello A, Ferlosio A, Candi E, Terrinoni A. Birt-Hogg-Dubé syndrome, from non-invasive dermatologic assessment to gene testing, molecular and ultrastructural histologic analysis. *J Eur Acad Dermatol Venereol.* 2020 Apr;34(4):e206-e209.
45. Rapanotti MC, Viguria TMS, Spallone G, Terrinoni A, Rossi P, Costanza G, Campione E, Lombardo P, Pathirannehalage CD, Orlandi A, **Bernardini S**, Bianchi L. Minimal Residual Disease in Melanoma: molecular characterization of in transit cutaneous metastases and Circulating Melanoma Cells recognizes an expression panel potentially related to disease progression. *Cancer Treat Res Commun.* 2020;25:100262. doi: 10.1016/j.ctarc.2020.100262.
46. Perrone MA, Zaninotto M, Masotti S, Musetti V, Padoan A, Prontera C, Plebani M, Passino C, Romeo F, **Bernardini S**, Clerico A. The combined measurement of high-sensitivity cardiac troponins and natriuretic peptides: a useful tool for clinicians? *J Cardiovasc Med (Hagerstown).* 2020 Dec;21(12):953-963. doi: 10.2459/JCM.0000000000001022.

47. Coppola A, Castaman G, Santoro RC, Mancuso ME, Franchini M, Marino R, Rivolta GF, Santoro C, Zanon E, Sciacovelli L, Manca S, Lubrano R, Golato M, Tripodi A, Rocino A; ad hoc Working Group. Management of patients with severe haemophilia a without inhibitors on prophylaxis with emicizumab: AICE recommendations with focus on emergency in collaboration with SIBioC, SIMEU, SIMEUP, SIPMeL and Siset. *Haemophilia*. 2020 Nov;26(6):937-945. doi: 10.1111/hae.14172.
48. Pieri M, Ciotti M, Carlozzi N, Frassanito ML, Meloni A, Cistera A, Turchetti G, Niscola S, Labate G, Calugi G, **Bernardini S**. SARS-CoV-2 infection serology validation of different methods: Usefulness of IgA in the early phase of infection. *Clin Chim Acta*. 2020 Dec;511:28-32. doi: 10.1016/j.cca.2020.09.033.
49. Nuccetelli M, Pieri M, Gisone F, **Bernardini S**. Combined anti-SARS-CoV-2 IgA, IgG, and IgM Detection as a Better Strategy to Prevent Second Infection Spreading Waves. *Immunol Invest*. 2020 Sep 18:1-13. doi: 10.1080/08820139.2020.1823407.
50. Latini A, Agolini E, Novelli A, Borgiani P, Giannini R, Gravina P, Smarrazzo A, Dauri M, Andreoni M, Rogliani P, **Bernardini S**, Helmer-Citterich M, Biancolella M, Novelli G. COVID-19 and Genetic Variants of Protein Involved in the SARS-CoV-2 Entry into the Host Cells. *Genes (Basel)*. 2020 Aug 27;11(9):1010. doi: 10.3390/genes11091010.
51. Novelli A, Andreani M, Biancolella M, Liberatoscioli L, Passarelli C, Colona VL, Rogliani P, Leonardis F, Campana A, Carsetti R, Andreoni M, **Bernardini S**, Novelli G, Locatelli F. HLA allele frequencies and susceptibility to COVID-19 in a group of 99 Italian patients. *HLA*. 2020 Nov;96(5):610-614. doi: 10.1111/tan.14047.
52. Perrone MA, Passino C, Vassalle C, Masotti S, Romeo F, Guccione P, **Bernardini S**, Clerico A. Early evaluation of myocardial injury by means of high-sensitivity methods for cardiac troponins after strenuous and prolonged exercise. *J Sports Med Phys Fitness*. 2020 Sep;60(9):1297-1305. doi: 10.23736/S0022-4707.20.11016-8.
53. Clerico A, Zaninotto M, Passino C, Aspromonte N, Piepoli MF, Migliardi M, Perrone M, Fortunato A, Padoan A, Testa A, Dellarole F, Trenti T, **Bernardini S**, Sciacovelli L, Colivicchi F, Gabrielli D, Plebani M. Evidence on clinical relevance of cardiovascular risk evaluation in the general population using cardio-specific biomarkers. *Clin Chem Lab Med*. 2020 Jul 21;59(1):79-90. doi: 10.1515/cclm-2020-0310.
54. Perrone MA, Macrini M, Maregnani A, Ammirabile M, Clerico A, **Bernardini S**, Romeo F. The effects of a 50 km ultramarathon race on high sensitivity cardiac troponin I and NT-proBNP in highly trained athletes. *Minerva Cardioangiol*. 2020 Aug;68(4):305-312. doi: 10.23736/S0026-4725.20.05281-0.
55. Ciotti M, Ciccozzi M, Terrinoni A, Jiang WC, Wang CB, **Bernardini S**. The COVID-19 pandemic. *Crit Rev Clin Lab Sci*. 2020 Sep;57(6):365-388. doi: 10.1080/10408363.2020.1783198.
56. Formica V, Minieri M, **Bernardini S**, Ciotti M, D'Agostini C, Roselli M, Andreoni M, Morelli C, Parisi G, Federici M, Paganelli C, Legramante JM. Complete blood count



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  58. Sancesario GM, Di Lazzaro G, Alwardat M, Biticchi B, Basile V, Salimei C, Colona VL, Sinibaldi Salimei P, **Bernardini S**, Mercuri NB, Pisani A, Schirinzi T. Amyloid- $\beta$ 42/Neurogranin Ratio as a Potential Index for Cognitive Impairment in Parkinson's Disease. *J Alzheimers Dis*. 2020;76(3):1171-1178. doi: 10.3233/JAD-200344.
  59. Kricka LJ, Polevikov S, Park JY, Fortina P, **Bernardini S**, Satchkov D, Kolesov V, Grishkov M. Artificial Intelligence-Powered Search Tools and Resources in the Fight Against COVID-19. *EJIFCC*. 2020 Jun 2;31(2):106-116.
  60. Rapanotti MC, Campione E, Suarez Viguria TM, Spallone G, Costanza G, Rossi P, Orlandi A, Valenti P, **Bernardini S**, Bianchi L. Stem-Mesenchymal Signature Cell Genes Detected in Heterogeneous Circulating Melanoma Cells Correlate With Disease Stage in Melanoma Patients. *Front Mol Biosci*. 2020 May 29;7:92. doi: 10.3389/fmolb.2020.00092.
  61. Poggiali E, Zaino D, Immovilli P, Rovero L, Losi G, Dacrema A, Nuccetelli M, Vadacca GB, Guidetti D, Vercelli A, Magnacavallo A, **Bernardini S**, Terracciano C. Lactate dehydrogenase and C-reactive protein as predictors of respiratory failure in CoVID-19 patients. *Clin Chim Acta*. 2020 Oct;509:135-138. doi: 10.1016/j.cca.2020.06.012.
  62. Valentini A, Perrone MA, Cianfarani MA, Tarantino U, Massoud R, Merra G, **Bernardini S**, Morris HA, Bertoli A. Obesity, vitamin D status and physical activity: 1,25(OH)2D as a potential marker of vitamin D deficiency in obese subjects. *Panminerva Med*. 2020 Jun;62(2):83-92. doi: 10.23736/S0031-0808.20.03770-2.
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