

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

Tel.:
Mobile
Mail:

Education

1986: Doctor of Medicine, University of Rome "La Sapienza"
1990: Postgraduate specialization in Paediatrics, University of Tor Vergata, Rome
1990-1991: Internship at the Department of Endocrinology, Karolinska Sjukhuset, Stockholm
1995: PhD in Paediatrics, University of Tor Vergata, Rome
1998: Postgraduate Specialization in Clinical Biochemistry, University of Camerino
2021: 2° level Master in Health Economy and Management, University of Tor Vergata, Rome

Work Experience

1997-2010: Researcher 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-Laboratory Medicine Section, 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: Dean 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.

2016-2019 : 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
- Chongqing University College of Medicine, Chongqing-China.

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

2019-2023: Chief of the Laboratory Medicine Functional Integrated Area (Clinical Biochemistry, Microbiology, Virology and Pathology)- Tor Vergata University Hospital.

2023-present: Director of the Department of Integrated Diagnostics -Tor Vergata University Hospital.

2024: Director of the Department of Integrated Care Processes- 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)

2018-2023: 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

2023-present: member of the Editorial Board of Laboratory Medicine Discovery(Shanghai)

2020-present: member of the Editorial Board of Journal Applied Laboratory Medicine

2024-2027: Secretary of the International Federation Clinical Chemistry and Laboratory Medicine (IFCC)

International Conference Scientific Meeting Membership:

EuroMedLab 2019 Barcelona (Spain)

AACC Conference 2020 Chicago (US)

WorldLab/EuroMedLab 2023 Rome, President of the Congress

WorldLab 2026 New Dheli (IN), Chair Scientific Committee

International Appointments:

2024- present: Guest Professor College of Medicine Chongqing University (China)

2022-present: Guest Professor Charles University Prague (Czech Republic)

Publication list

1. Poli M, Bonomi CG, Tretola L, Rosa M, Di Donna MG, Moreschini A, Nuccetelli M, Bernardini S, Mercuri NB, Martorana A, Motta C. Beyond memory: leveraging CSF biomarkers in all MCI patients ahead of anti-amyloid therapies. *Neurol Sci.* 2025 May 23. doi: 10.1007/s10072-025-08250-3. Epub ahead of print. PMID: 40407991.
2. Tomassetti F, Fiorelli D, Cappa E, Giovannelli A, Pelagalli M, Velocci S, Nicolai E, Minieri M, Perrone MA, Bernardini S, Pieri M. Performance Evaluation of the New High-Sensitivity Cardiac Troponin I Immunoassay on CL-2600i Mindray Analyzer. *Diagnostics (Basel).* 2025 Apr 18;15(8):1031. doi: 10.3390/diagnostics15081031. PMID: 40310416.
4. Fernandes M, Placidi F, Izzi F, Nuccetelli M, Bernardini S, Mercuri NB, Liguori C. Persistent blood-brain barrier dysregulation in patients with obstructive sleep apnea following long-term continuous positive airway pressure treatment. *Neurobiol Aging.* 2025 Apr 11;151:89-94. doi: 10.1016/j.neurobiolaging.2025.04.001. Epub ahead of print. PMID: 40267730.
5. Lozano-Tovar S, Cremascoli R, Nuccetelli M, Sancesario G, Cattaldo S, Prina E, Verde F, Cappelli S, Bernardini S, Mercuri NB, Liguori C. Cerebrospinal-fluid Orexin-A levels in different neurocognitive disorders: a comparison study. *Neurol Sci.* 2025 Apr 8. doi: 10.1007/s10072-025-08148-0. Epub ahead of print. PMID: 40198471.
6. Velletrani G, Fiorelli D, Francavilla B, Nuccetelli M, Bernardini S, Masieri S, Di Girolamo S. Nasal cytological evidence of chronic inflammation in the olfactory cleft in post-viral olfactory dysfunction. *Eur Arch Otorhinolaryngol.* 2025 Mar 26. doi: 10.1007/s00405-025-09302-2. Epub ahead of print. PMID: 40140006.
7. Cerroni I, Renola V, Micalizzi A, Romanelli E, De Marchi L, Ranucci G, Mallegni F, Meddi E, Moretti F, Page C, Viola A, Paterno G, Del Principe MI, Casciani S, Venditti A, Bernardini S, Novelli A, Voso MT, Gurnari C. Culpit or innocent bystander? The case of a new fast-moving hemoglobin J variant in a pregnant woman. *Blood Cells Mol Dis.* 2025 Mar 12;112:102920. doi: 10.1016/j.bcmd.2025.102920. Epub ahead of print. PMID: 40086420.
8. Cornali K, Di Lauro M, Marrone G, Masci C, Montalto G, Giovannelli A, Schievano C, Tesaro M, Pieri M, Bernardini S, Noce A. The Effects of a Food Supplement, Based on Co-Micronized Palmitoylethanolamide (PEA)-Rutin and Hydroxytyrosol, in Metabolic Syndrome Patients: Preliminary Results. *Nutrients.* 2025 Jan 23;17(3):413. doi: 10.3390/nu17030413. PMID: 39940271; PMCID: PMC11820307.
9. Amoroso D, Bongo S, Copponi A, Rossi V, Di Giorgio R, Bernardini S, Ippoliti L, Morello M. A Review of the Hematological Picture of Severe COVID-19 Infection. *Cureus.* 2025 Feb 9;17(2):e78797. doi: 10.7759/cureus.78797. PMID: 39931501; PMCID: PMC11808344.

10. Fernandes M, Spanetta M, Vetrugno G, Nuccetelli M, Placidi F, Castelli A, Manfredi N, Izzi F, Laganà G, Bernardini S, Mercuri NB, Liguori C. The potential role of interleukin-6 in the association between inflammation and cognitive performance in obstructive sleep apnea. *Brain Behav Immun Health*. 2024 Oct 5;42:100875. doi: 10.1016/j.bbih.2024.100875. PMID: 39881817; PMCID: PMC11776075.

11. Gruson D, Peranio C, Bernardini S, Štaraitė A, Koo M, Coyle M, Shannon B, Luu D, Harding E, Öz TK. Light After Armageddon: Enhancing Cardiovascular Care through Emerging Technologies and Patient-Centric Approaches. *EJIFCC*. 2024 Dec 30;35(4):212-215. PMID: 39810894; PMCID: PMC11726328.

12. Mencattini A, Tocci T, Nuccetelli M, Pieri M, Bernardini S, Martinelli E. Automatic classification of HEP-2 specimens by explainable deep learning and Jensen-Shannon reliability index. *Artif Intell Med*. 2024 Nov 28;160:103030. doi: 10.1016/j.artmed.2024.103030. Epub ahead of print. PMID: 39637573.

13. Tomassetti F, Guerranti R, Leoncini R, Pieroni C, Diamanti D, Cirianni M, Silvestrini C, Galasso L, Pelagalli M, Nicolai E, Giovannelli A, Pieri M, Bernardini S. Challenges of preanalytical variables in erythrocyte sedimentation rate: a CUBE 30 touch evaluation. *Scand J Clin Lab Invest*. 2024 Nov 10:1-9

14. Legramante JM, Minieri M, Belli M, Giovannelli A, Agnoli A, Bajo D, Bellincampi L, De Angelis AM, Terrinoni A, Pieri M, Nicolai E, Di Lecce VN, Paganelli C, Ferrazza G, Longo S, Ciotti M, Bernardini S. Evaluation of GFAP/UCH-L1 biomarkers for computed tomography exclusion in mild traumatic brain injury (mTBI). *Int J Emerg Med*. 2024 Oct 24;17(1):164. doi: 10.1186/s12245-024-00708-z. PMID: 39448905.

15. Kumar M, Ali W, Yadav K, Kaumri S, Mishra S, Nardi P, Iellamo F, Bernardini S, Pradhan A, Perrone MA. High-Density Lipoprotein-Associated Paraoxonase-1 (PON-1) and Scavenger Receptor Class B Type 1 (SRB-1) in Coronary Artery Disease: Correlation with Disease Severity. *J Clin Med*. 2024 Sep 15;13(18):5480. doi: 10.3390/jcm13185480. PMID: 39336967; PMCID: PMC11432482.

16. Tomassetti F, Calabrese C, Bertani F, Cennamo M, Diamanti D, Giovannelli A, Guerranti R, Leoncini R, Lorubbio M, Ognibene A, Nicolai E, Pelagalli M, Pieroni C, Bernardini S, Pieri M. Performance Evaluation of Automated Erythrocyte Sedimentation Rate (ESR) Analyzers in a Multicentric Study. *Diagnostics (Basel)*. 2024 Sep 11;14(18):2011. doi: 10.3390/diagnostics14182011. PMID: 39335690; PMCID: PMC11431749.

17. Rapanotti MC, Cenci T, Scioli MG, Cugini E, Anzillotti S, Savino L, Coletta D, Di Raimondo C, Campione E, Roselli M, Bernardini S, Bianchi L, De Luca A, Ferlosio A, Orlandi A. Circulating Tumor Cells: Origin, Role, Current Applications, and Future Perspectives for Personalized Medicine. *Biomedicines*. 2024 Sep 20;12(9):2137. doi: 10.3390/biomedicines12092137. PMID: 39335650; PMCID: PMC11429165.

18. Gruson D, Fux E, Kemaloglu Öz T, Gouget B, Lee W, Shah S, Liu Y, Ebert S, Greaves R, Bernardini S, Yang HS, Figueroa Montes L. Contribution of laboratory medicine and emerging technologies to cardiovascular risk reduction via exposome analysis: an opinion of the IFCC Division on Emerging Technologies. *Clin Chem Lab Med*. 2024 Sep 2. doi: 10.1515/cclm-2024-0788. Epub ahead of print. PMID: 39238286.

19. Prezioso C, Limongi D, Checconi P, Ciotti M, Legramante JM, Petrangeli CM, Leonardi F, Giovannelli A, Terrinoni A, Bernardini S, Minieri M, D'Agostini C. Role of miR-9 in Modulating NF- κ B Signaling and Cytokine Expression in COVID-19 Patients. *Int J Mol Sci*. 2024 Aug 16;25(16):8930. doi: 10.3390/ijms25168930. PMID: 39201618

20. Capuano R, Ciotti M, Catini A, Bernardini S, Di Natale C. Clinical applications of volatilomic assays. *Crit Rev Clin Lab Sci*. 2024 Aug 12:1-20. doi: 10.1080/10408363.2024.2387038. Epub ahead of print. PMID: 39129534.

21. Mastandrea P, Mengozzi S, Bernardini S. Systematic review and meta-analysis of observational studies evaluating glial fibrillary acidic protein (GFAP) and ubiquitin C-terminal hydrolase L1 (UCHL1) as blood biomarkers of mild acute traumatic brain injury (mTBI) or sport-related concussion (SRC) in adult subjects. *Diagnosis (Berl)*. 2024 Aug 20. doi: 10.1515/dx-2024-0078. Epub ahead of print. PMID: 39167371.

22. d'Angela D, Orso M, Migliore A, Polistena B, Spandonaro F, Bernardini S. HTA model for laboratory medicine technologies: overview of approaches adopted in some international agencies. *Clin Chem Lab Med*. 2024 Jul 24. doi: 10.1515/cclm-2023-1203. Epub ahead of print. PMID: 39044459.

23. Lozano-Tovar S, Nuccetelli M, Placidi F, Izzi F, Sancesario G, Bernardini S, Biagio Mercuri N, Liguori C. CSF dynamics of orexin and β -amyloid₄₂ levels in narcolepsy and Alzheimer's disease patients: A controlled study. *Neurosci Lett*. 2024 Jul 18:137914. doi: 10.1016/j.neulet.2024.137914. Epub ahead of print. PMID: 39032802.

24. Francavilla B, Velletrani G, Fiorelli D, Maurantonio S, Passali FM, Schirinzi T, Bernardini S, Di Girolamo S, Nuccetelli M. Circulating calprotectin as a potential biomarker of persistent olfactory dysfunctions in Post-COVID-19 patients. *Cytokine*. 2024 Jul 3;181:156688. doi: 10.1016/j.cyto.2024.156688. Epub ahead of print. PMID: 38963942.

25. Castelgrande F, Viola G, Calabrese C, Iozzo M, Massoud R, Pieri M, Minieri M, Adorno G, Bernardini S, Terrinoni A. Characterization and Clinical Assessment of a Peculiar Case of Hemolytic Anemia. *J Hematol*. 2024 Jun;13(3):108-115. doi: 10.14740/jh1204. Epub 2024 Jun 28. PMID: 38993732; PMCID: PMC11236363.

26. Perrone MA, Pieri M, Caminiti G, Ali W, Bernardini S, Parisi A, Iellamo F, Barone R, Farsetti P. Vitamin D Deficiency in Professional Football Players during Competitive Season of Italian First Division (Serie A). *Sports (Basel)*. 2024 May 29;12(6):153. doi: 10.3390/sports12060153. PMID: 38921847; PMCID: PMC11209379.

27. Morello M, Mastrogiovanni S, Falcione F, Rossi V, Bernardini S, Casciani S, Viola A, Reali M, Pieri M. Laboratory Diagnosis of Intrathecal Synthesis of Immunoglobulins: A Review about the Contribution of OCBs and K-index. *Int J Mol Sci*. 2024 May 9;25(10):5170. doi: 10.3390/ijms25105170. PMID: 38791208; PMCID: PMC11121313.

28. Younes S, Nicolai E, Pieri M, Bernardini S, Daas HI, Al-Sadeq DW, Younes N, Shurrah FM, Nizamuddin PB, Humaira F, Al-Dewik N, Yassine HM, Abu-Raddad LJ, Ismail A, Nasrallah GK. Follow-Up and Comparative Assessment of SARS-CoV-2 IgA, IgG, Neutralizing, and Total Antibody Responses After BNT162b2 or mRNA-1273 Heterologous Booster Vaccination. *Influenza Other Respir Viruses*. 2024 May;18(5):e13290. doi: 10.1111/irv.13290. PMID: 38706402; PMCID: PMC11070770.

29. Effects of Ultrasonic Scaling and Air-Abrasive Powders on the Topography of Implant Surfaces: Scanning Electron Analysis and In Vitro Study. *Eur J Dent*. 2024 May 2. doi: 10.1055/s-0044-1782190. Epub ahead of print. PMID: 38698614.

30. Carpi M, Fernandes M, Risino I, Benedetti R, Testone G, Cirillo F, Nuccetelli M, Bernardini S, Mercuri NB, Liguori C. Alteration of circadian sleep-wake rhythm and salivary melatonin secretion in idiopathic/isolated REM sleep behavior disorder: Preliminary evidence. *Sleep Med*. 2024 Apr 16;119:135-138. doi: 10.1016/j.sleep.2024.04.020. Epub ahead of print. PMID: 38678756.

31. Noce A, Marrone G, Di Lauro M, Vita C, Montalto G, Giorgino G, Chiaramonte C, D'Agostini C, Bernardini S, Pieri M. Potential Anti-Inflammatory and Anti-Fatigue Effects of an Oral Food Supplement in Long COVID Patients. *Pharmaceuticals (Basel)*. 2024 Apr 5;17(4):463. doi: 10.3390/ph17040463. PMID: 38675423; PMCID: PMC11053797.

32. Zedan HT, Smatti MK, Al-Sadeq DW, Al Khatib HA, Nicolai E, Pieri M, Bernardini S, Hssain AA, Taleb S, Qotba H, Issa K, Abu Raddad LJ, Althani AA, Nasrallah GK, Yassine HM. SARS-CoV-2 infection triggers more potent antibody-dependent cellular cytotoxicity (ADCC) responses than mRNA-, vector-, and inactivated virus-based COVID-19 vaccines. *J Med Virol*. 2024 Mar;96(3):e29527. doi: 10.1002/jmv.29527. PMID: 38511514.

33. Fiorelli D, Francavilla B, Velletrani G, Maurantonio S, Passali FM, Bernardini S, Di Girolamo S, Nuccetelli M. Autoantibody profiles assessment in individuals with

persistent olfactory impairment following SARS-CoV-2 infection. *Int Immunopharmacol.* 2024 Feb 6;129:111599. doi: 10.1016/j.intimp.2024.111599. Epub ahead of print. PMID: 38330796.

34. Gruson D, Magalhaes T, Ruszanov A, Granaldi C, Bernardini S, Buttigieg SC. Hyperautomation in Healthcare: Perspectives from a Joint IFCC - EHMA Session. *EJIFCC.* 2023 Dec 21;34(4):284-286. PMID: 38303753; PMCID: PMC10828537.
35. Terrinoni A, Micheloni G, Moretti V, Caporali S, Bernardini S, Minieri M, Pieri M, Giaroni C, Acquati F, Costantino L, Ferrara F, Valli R, Porta G. OTX Genes in Adult Tissues. *Int J Mol Sci.* 2023 Nov 30;24(23):16962. doi: 10.3390/ijms242316962. PMID: 38069286; PMCID: PMC10707059
36. Pelagalli M, Tomassetti F, Nicolai E, Giovannelli A, Codella S, Iozzo M, Massoud R, Secchi R, Venditti A, Pieri M, Bernardini S. The Role of Erythrocyte Sedimentation Rate (ESR) in Myeloproliferative and Lymphoproliferative Diseases: Comparison between DIESSE CUBE 30 TOUCH and Alifax Test 1. *Diseases.* 2023 Nov 15;11(4):169. doi: 10.3390/diseases11040169. PMID: 37987280; PMCID: PMC10660727.
37. Tomassetti F, Pelagalli M, Nicolai E, Sarubbi S, Calabrese C, Giovannelli A, Codella S, Viola G, Diamanti D, Massoud R, Bernardini S, Pieri M. Validation of the New MINI-CUBE for Clinic Determination of Erythrocyte Sedimentation Rate. *J Hematol.* 2023 Oct;12(5):208-214. doi: 10.14740/jh1165. Epub 2023 Oct 25. PMID: 37936975; PMCID: PMC10627362.
38. Nicolai E, Tomassetti F, Pelagalli M, Sarubbi S, Minieri M, Nisini A, Nuccetelli M, Ciotti M, Pieri M, Bernardini S. The Antibodies' Response to SARS-CoV-2 Vaccination: 1-Year Follow Up. *Biomedicines.* 2023 Sep 28;11(10):2661. doi: 10.3390/biomedicines11102661. PMID: 37893035; PMCID: PMC10604657.
39. Fernandes M, Spanetta M, Placidi F, Izzi F, Negri F, Nuccetelli M, Bernardini S, Mercuri NB, Liguori C. A preliminary study investigating the clinical potential of measuring cerebrospinal-fluid lactate levels in patients with narcolepsy type 1 and 2. *Physiol Behav.* 2023 Dec 1;272:114371. doi: 10.1016/j.physbeh.2023.114371. Epub 2023 Oct 5. PMID: 37802459.
40. Terrinoni A, Sala G, Bruno E, Pitolli C, Minieri M, Pieri M, Gambacurta A, Campione E, Belardi R, Bernardini S. Partial Loss of Function ABCA12 Mutations Generate Reduced Deposition of Glucosyl-Ceramide, Leading to Patchy Ichthyosis and Erythrodermia Resembling Erythrokeratoderma Variabilis et Progressiva (EKVP). *Int J Mol Sci.* 2023 Sep 11;24(18):13962. doi: 10.3390/ijms241813962. PMID: 37762265; PMCID: PMC1053043
42. D'Agostini C, Legramante JM, Minieri M, Di Lecce VN, Lia MS, Maurici M, Simonelli I, Ciotti M, Paganelli C, Terrinoni A, Giovannelli A, Pieri M, Gallù M, Dell'Olio V, Prezioso C, Limongi D, Bernardini S, Orlacchio A. Correlation between Chest Computed Tomography Score and Laboratory Biomarkers in

the Risk Stratification of COVID-19 Patients Admitted to the Emergency Department. *Diagnostics* (Basel). 2023 Aug 31;13(17):2829. doi: 10.3390/diagnostics13172829. PMID: 37685368; PMCID: PMC10486389.

43. Vidali M, Paleari R, Ceriotti F, Bernardini S, Giambini I, Brugnoli D, Trainini L, Carru C, Porcu F, Carta M, Giavarina D, Ciaccio M, Lo Sasso B, Corso G, Paolillo C, Dorizzi R, Rosetti M, Fiorini M, Bombara M, Grosso M, Giuliano M, Locatelli M, Lucci A, Mencarelli F, Scattolo N, Strollo M, Mosca A. Analysis of annual distributions of hemoglobin A₂ values as a method to test for HbA₂ standardization. *Clin Chim Acta*. 2023 Sep 23:117564. doi: 10.1016/j.cca.2023.117564. Epub ahead of print. PMID: 37748747.
44. Fernandes M, Maio S, Eusebi P, Placidi F, Izzi F, Spanetta M, De Masi C, Lupo C, Calvello C, Nuccetelli M, Bernardini S, Mercuri NB, Liguori C. CSF biomarkers for predicting phenoconversion in patients with isolated REM sleep behaviour disorder. *Sleep*. 2023 Aug 5:zsad198. doi: 10.1093/sleep/zsad198. Epub ahead of print. PMID: 37542734.
45. Murdocca M, Citro G, Centanini E, Giannini R, Latini A, Centofanti F, Piano Mortari E, Cocciadiferro D, Novelli A, Bernardini S, Novelli G, Sangiuolo F. COVID-19: S-Peptide RBD ⁴⁸⁴⁻⁵⁰⁸ Induces IFN- γ T-Cell Response in Naïve-to-Infection and Unvaccinated Subjects with Close Contact with SARS-CoV-2-Positive Patients. *Viruses*. 2023 Jun 22;15(7):1417. doi: 10.3390/v15071417. PMID: 37515105.
46. Rapanotti MC, Cugini E, Campione E, Di Raimondo C, Costanza G, Rossi P, Ferlosio A, Bernardini S, Orlandi A, De Luca A, Bianchi L. Epithelial-to-Mesenchymal Transition Gene Signature in Circulating Melanoma Cells: Biological and Clinical Relevance. *Int J Mol Sci*. 2023 Jul 22;24(14):11792. doi: 10.3390/ijms241411792. PMID: 37511550.
47. Cristiano A, Belardi R, Hajrullaj H, Fabiani E, Falconi G, Galossi E, Bernardini S, Voso MT, Nuccetelli M. Correlation analysis between auto-immunological and mutational profiles in myelodysplastic syndromes. *Inflamm Res*. 2023 Jul 28. doi: 10.1007/s00011-023-01773-5. Epub ahead of print. PMID: 37507570.
48. Fiorelli D, Caruso V, Belardi R, Bernardini S, Nuccetelli M. Evaluation of autoantibody profile in healthy subjects after mRNA vaccination against COVID-19. *Int Immunopharmacol*. 2023 Jul 3;122:110592. doi: 10.1016/j.intimp.2023.110592. Epub ahead of print. PMID: 37413933.
49. Greaves R, Kricka L, Gruson D, Ferrari M, Martin H, Loh TP, Bernardini S; IFCC Emerging Technologies Division. Toolkit for emerging technologies in laboratory medicine. *Clin Chem Lab Med*. 2023 Jun 14. doi: 10.1515/cclm-2023-0571. Epub ahead of print. PMID: 37314970.

50. Cerini P, Meduri FR, Tomassetti F, Polidori I, Brugneti M, Nicolai E, Bernardini S, Pieri M, Broccolo F. Trends in Antibiotic Resistance of Nosocomial and Community-Acquired Infections in Italy. *Antibiotics (Basel)*. 2023 Mar 24;12(4):651. doi: 10.3390/antibiotics12040651. PMID: 37107013; PMCID: PMC10135155.

51. Minutolo A, Petrone V, Fanelli M, Maracchioni C, Giudice M, Teti E, Coppola L, Sorace C, Iannetta M, Tony Miele M, Bernardini S, Mastino A, Sinibaldi Vallebona P, Balestrieri E, Andreoni M, Sarmati L, Grelli S, Garaci E, Matteucci C. Thymosin alpha 1 restores the immune homeostasis in lymphocytes during Post-Acute sequelae of SARS-CoV-2 infection. *Int Immunopharmacol*. 2023 May;118:110055. doi: 10.1016/j.intimp.2023.110055. Epub 2023 Mar 22. PMID: 36989892; PMCID: PMC10030336.

52. Gruson D, Greaves R, Dabla P, Bernardini S, Gouget B, Öz TK. A new door to a different world: opportunities from the metaverse and the raise of meta-medical laboratories. *Clin Chem Lab Med*. 2023 Mar 2;61(9):1567-1571. doi: 10.1515/cclm-2023-0108. PMID: 36855921.
53. Fiorelli D, Francavilla B, Magrini A, Di Girolamo S, Bernardini S, Nuccetelli M. Evaluation of the accuracy in the mucosal detection of anti-SARS-CoV-2 antibodies in nasal secretions and saliva. *Int Immunopharmacol*. 2023 Feb;115:109615. doi: 10.1016/j.intimp.2022.109615. Epub 2022 Dec 20. PMID: 36563531; PMCID: PMC9763213.

54. Nicolai E, Sarubbi S, Pelagalli M, Basile V, Terrinoni A, Minieri M, Cennamo O, Grelli S, Bernardini S, Pieri M. Performance Evaluation of the New Chemiluminescence Immunoassay CL-1200i for HBV, HIV Panels. *Diseases*. 2023 Jun 8;11(2):83. doi: 10.3390/diseases11020083. PMID: 37366871; PMCID: PMC10296845.

55. Infante M, Pieri M, Lupisella S, Mohamad A, Bernardini S, Della-Morte D, Fabbri A, De Stefano A, Iannetta M, Ansaldo L, Crea A, Andreoni M, Morello M. Admission eGFR predicts in-hospital mortality independently of admission glycemia and C-peptide in patients with type 2 diabetes mellitus and COVID-19. *Curr Med Res Opin*. 2023 Apr;39(4):505-516. doi: 10.1080/03007995.2023.2177380. Epub 2023 Feb 22. PMID: 36749566.

56. Perrone MA, Aimo A, Bernardini S, Clerico A. Inflammageing and Cardiovascular System: Focus on Cardiokines and Cardiac-Specific Biomarkers. *Int J Mol Sci*. 2023 Jan 3;24(1):844. doi: 10.3390/ijms24010844. PMID: 36614282.

57. Guerrieri M, Francavilla B, Fiorelli D, Nuccetelli M, Passali FM, Coppeta L, Somma G, Bernardini S, Magrini A, Di Girolamo S. Nasal and Salivary Mucosal

Humoral Immune Response Elicited by mRNA BNT162b2 COVID-19 Vaccine Compared to SARS-CoV-2 Natural Infection. *Vaccines* (Basel). 2021 Dec 18;9(12):1499. doi: 10.3390/vaccines9121499. PMID: 34960244. 2022

58. Iannetta M, Landi D, Cola G, Campogiani L, Malagnino V, Teti E, Coppola L, Di Lorenzo A, Fraboni D, Buccisano F, Grelli S, Mozzani M, Zingaropoli MA, Ciardi MR, Nisini R, Bernardini S, Andreoni M, Marfia GA, Sarmati L. B- and T-Cell Responses After SARS-CoV-2 Vaccination in Patients With Multiple Sclerosis Receiving Disease Modifying Therapies: Immunological Patterns and Clinical Implications. *Front Immunol.* 2022 Jan 17;12:796482. doi: 10.3389/fimmu.2021.796482. PMID: 35111162; PMCID: PMC8801814.
59. Pieri M, Infantino M, Manfredi M, Nuccetelli M, Grossi V, Lari B, Tomassetti F, Sarubbi S, Russo E, Amedei A, Benucci M, Casprini P, Stacchini L, Castilletti C, Bernardini S. Performance evaluation of four surrogate Virus Neutralization Tests (sVNTs) in comparison to the in vivo gold standard test. *Front Biosci (Landmark Ed).* 2022 Feb 21;27(2):74. doi: 10.31083/j.fbl2702074. PMID: 35227017.
60. Prezioso C, Brazzini G, Passerini S, Di Fabio C, Cosio T, Bernardini S, Campione E, Moens U, Pietropaolo V, Ciotti M. Prevalence of MCPyV, HPyV6, HPyV7 and TSPyV in Actinic Keratosis Biopsy Specimens. *Viruses.* 2022 Feb 18;14(2):427. doi: 10.3390/v14020427. PMID: 35216020; PMCID: PMC8876850.
61. Caporali S, De Stefano A, Calabrese C, Giovannelli A, Pieri M, Savini I, Tesaro M, Bernardini S, Minieri M, Terrinoni A. Anti-Inflammatory and Active Biological Properties of the Plant-Derived Bioactive Compounds Luteolin and Luteolin 7-Glucoside. *Nutrients.* 2022 Mar 9;14(6):1155. doi: 10.3390/nu14061155. PMID: 35334812.
62. Pieri M, Nicolai E, Nuccetelli M, Sarubbi S, Tomassetti F, Pelagalli M, Minieri M, Terrinoni A, Bernardini S. Validation of a quantitative lateral flow immunoassay (LFIA)-based point-of-care (POC) rapid test for SARS-CoV-2 neutralizing antibodies. *Arch Virol.* 2022 Apr 2. doi: 10.1007/s00705-022-05422-w. Epub ahead of print. PMID: 35377034.
63. Tommaso Schirinzi, Henri Zenuni, Piergiorgio Grillo, Roberta Bovenzi, Gisella Guerrera, Francesca Gargano, Massimo Pieri, Bernardini S, Nicola Biagio Mercuri, Luca Battistini, Giulia Maria Sancesario (2022). Tau and Amyloid- β Peptides in Serum of Patients With Parkinson's Disease: Correlations With CSF Levels and Clinical Parameters. *FRONTIERS IN NEUROLOGY*, ISSN: 1664-2295, doi: 10.3389/fneur.2022.748599
64. Fernandes M, Chiaravalloti A, Manfredi N, Placidi F, Nuccetelli M, Izzi F, Camedda R, Bernardini S, Schillaci O, Mercuri NB, Liguori C. Nocturnal Hypoxia and Sleep Fragmentation May Drive Neurodegenerative Processes: The Compared Effects of Obstructive Sleep Apnea Syndrome and Periodic Limb Movement Disorder on Alzheimer's Disease Biomarkers. *J Alzheimers*

Dis. 2022 May 9. doi: 10.3233/JAD-215734. Epub ahead of print. PMID: 35570484.

65. Perrone MA, Aimo A, Bernardini S, Clerico A. Natriuretic Peptides and Troponins to Predict Cardiovascular Events in Patients Undergoing Major Non-Cardiac Surgery. *Int J Environ Res Public Health*. 2022 Apr 24;19(9):5182. doi: 10.3390/ijerph19095182. PMID: 35564577; PMCID: PMC9103429.
66. Mossa M, Neri B, Montesano L, Salvatori S, Marafini I, Scucchi L, Lolli E, Massoud R, Petruzzello C, Bernardini S, Calabrese E, Monteleone G, Biancone L. SARS-CoV-2 IgG seroprevalence in IBD patients treated with biologics: first vs. second pandemic wave in a prospective study. *Eur Rev Med Pharmacol Sci*. 2022 May;26(10):3787-3796. doi: 10.26355/eurev_202205_28875. PMID: 35647861.
67. Schipani MC, Tomassetti F, Polidori I, Ricci P, Frassanito ML, Seraceni S, Morello M, Nicolai E, Aquaro S, Bernardini S, Pieri M, Calugi G. Evaluation of Natural and Vaccine-Induced Anti-SARSCoV- 2 Immunity: A Comparative Study between Different Groups of Volunteers. *Diseases*. 2022 Apr 27;10(2):25. doi: 10.3390/diseases10020025. PMID: 35645246.
68. Fernandes M, Mari L, Chiaravalloti A, Paoli B, Nuccetelli M, Izzi F, Giambrone MP, Camedda R, Bernardini S, Schillaci O, Mercuri NB, Placidi F, Liguori C. 18F-FDG PET, cognitive functioning, and CSF biomarkers in patients with obstructive sleep apnoea before and after continuous positive airway pressure treatment. *J Neurol*. 2022 May 24. doi: 10.1007/s00415-022-11182-z. Epub ahead of print. PMID: 35608659.
69. Basilicata M, Zarone F, Leone R, Guerriero C, Di Lauro M, Franco R, Bernardini S, Noce A, Bollero P, Sorrentino R. Impact of SARS-CoV-2 on dentistry: a review of literature. *Eur Rev Med Pharmacol Sci*. 2022 May;26(9):3386-3398. doi: 10.26355/eurev_202205_28760. PMID: 35587093.
70. Angeletti S, Legramante JM, Lia MS, D'Amico L, Fogolari M, Cella E, De Cesaris M, De Angelis F, Pieri M, Terrinoni A, Bernardini S, Minieri M. Assessment of the Stability of Midregional Proadrenomedullin in Different Biological Matrices. *Lab Med*. 2022 Jun 17;lmac066. doi: 10.1093/labmed/lmac066. Epub ahead of print. PMID: 35713618.
71. Polidori I, Marullo L, Ialongo C, Tomassetti F, Colombo R, di Gaudio F, Calugi G, Marrone G, Noce A, Bernardini S, Broccolo F, Pieri M. Characterization of Gut Microbiota Composition in Type 2 Diabetes Patients: A Population-Based Study. *Int J Environ Res Public Health*. 2022 Nov 29;19(23):15913. doi: 10.3390/ijerph192315913. PMID: 36497987; PMCID: PMC9740005.
72. Dabla PK, Upreti K, Singh D, Singh A, Sharma J, Dabas A, Gruson D, Gouget B, Bernardini S, Homsak E, Stankovic S. Target association rule mining to explore novel paediatric illness patterns in emergency settings. *Scand J Clin*

Lab Invest. 2022 Nov-Dec;82(7-8):595-600. doi: 10.1080/00365513.2022.2148121. Epub 2022 Nov 18. PMID: 36399102.

73. Ciotti M, Nuccetelli M, Pieri M, Petrangeli CM, Giovannelli A, Cosio T, Rosa L, Valenti P, Leonardis F, Legramante JM, Bernardini S, Campione E, Minieri M. Evaluation of Hepcidin Level in COVID-19 Patients Admitted to the Intensive Care Unit. *Diagnostics (Basel)*. 2022 Nov 2;12(11):2665. doi: 10.3390/diagnostics12112665. PMID: 36359509; PMCID: PMC9689230.
74. Zedan HT, Yassine HM, Al-Sadeq DW, Liu N, Qotba H, Nicolai E, Pieri M, Bernardini S, Abu-Raddad LJ, Nasrallah GK. Evaluation of commercially available fully automated and ELISA-based assays for detecting anti-SARS-CoV-2 neutralizing antibodies. *Sci Rep*. 2022 Nov 8;12(1):19020. doi: 10.1038/s41598-022-21317-x. PMID: 36347859; PMCID: PMC9643483.
75. Carobene A, Cabitza F, Bernardini S, Gopalan R, Lennerz JK, Weir C, Cadamuro J. Where is laboratory medicine headed in the next decade? Partnership model for efficient integration and adoption of artificial intelligence into medical laboratories. *Clin Chem Lab Med*. 2022 Nov 3. doi: 10.1515/cclm-2022-1030. Epub ahead of print. PMID: 36327445.
76. Greaves RF, Kricka L, Gruson D, Martin H, Ferrari M, Bernardini S. Emerging technology: a definition for laboratory medicine. *Clin Chem Lab Med*. 2022 Oct 31;61(1):33-36. doi: 10.1515/cclm-2022-0929. PMID: 36302376.
77. Minieri M, Di Lecce VN, Lia MS, Maurici M, Leonardis F, Longo S, Colangeli L, Paganelli C, Levantesi S, Terrinoni A, Malagnino V, Brunetti DJ, Giovannelli A, Pieri M, Ciotti M, D'Agostini C, Gabriele M, Bernardini S, Legramante JM. Predictive Value of MR-proADM in the Risk Stratification and in the Adequate Care Setting of COVID-19 Patients Assessed at the Triage of the Emergency Department. *Diagnostics (Basel)*. 2022 Aug 15;12(8):1971. doi: 10.3390/diagnostics12081971. PMID: 36010321; PMCID: PMC9406922.
78. Seraceni S, Zocca E, Cervone TE, Tomassetti F, Polidori I, Valisi M, Broccolo F, Calugi G, Bernardini S, Pieri M. T-Cell Assay after COVID-19 Vaccination Could Be a Useful Tool? A Pilot Study on Interferon-Gamma Release Assay in Healthcare Workers. *Diseases*. 2022 Jul 31;10(3):49. doi: 10.3390/diseases10030049. PMID: 35997354; PMCID: PMC9396988.
79. Costanza G, Paba P, Ciotti M, Ombres D, Di Carlo S, Marcuccilli F, Bertoli A, Di Traglia L, Mozzani M, Piredda L, Petrone V, Fanelli M, Paganelli C, Cortese B, Balestrieri E, Bernardini S, Andreoni M, Matteucci C, Minutolo A, Grelli S. Infection Rate of Respiratory Viruses in the Pandemic SARS-CoV-2 Period Considering Symptomatic Patients: Two Years of Ongoing Observations. *Biomolecules*. 2022 Jul 15;12(7):987. doi: 10.3390/biom12070987. PMID: 35883543; PMCID: PMC9313449.
80. Di Giacomo C, Pucillo L, Sevilla C, Fucci G, Massoud R, Bernardini S, Fraziano M, Gentile G. 25-Hydroxyvitamin D Plasma Levels in Natural Populations of Pigmented and Partially Pigmented Land Iguanas from Galápagos

(Conolophus spp.). Biomed Res Int. 2022 Jul 14;2022:7741397. doi: 10.1155/2022/7741397. PMID: 35872852; PMCID: PMC9303120

81. Clerico A, Zaninotto M, Aimo A, Musetti V, Perrone M, Padoan A, Dittadi R, Sandri MT, Bernardini S, Sciacovelli L, Trenti T, Malloggi L, Moretti M, Burgio MA, Manno ML, Migliardi M, Fortunato A, Plebani M. Evaluation of the cardiovascular risk in patients undergoing major non-cardiac surgery: role of cardiac-specific biomarkers. Clin Chem Lab Med. 2022 Jul 20;60(10):1525-1542. doi: 10.1515/cclm-2022-0481. PMID:
82. Gruson D, Dabla P, Stankovic S, Homsak E, Gouget B, Bernardini S, Macq B. Artificial intelligence and thyroid disease management: considerations for thyroid function tests. Biochem Med (Zagreb). 2022 Jun 15; 32(2):020601. doi: 10.11613/BM.2022.020601. PMID: 35799984; PMCID: PMC9195598.
83. Cristiano A, Pieri M, Sarubbi S, Pelagalli M, Calugi G, Tomasetti F, Bernardini S, Nuccetelli M. Evaluation of serological anti-SARS-CoV-2 chemiluminescent immunoassays correlated to live virus neutralization test, for the detection of anti-RBD antibodies as a relevant alternative in COVID-19 large-scale neutralizing activity monitoring. Clin Immunol. 2022 Jan;234:108918. doi: 10.1016/j.clim.2021.108918. Epub 2021 Dec 29. PMID: 34971839; PMCID: PMC8714258.
84. Minieri M, Di Lecce VN, Lia MS, Maurici M, Bernardini S, Legramante JM. Role of MR-proADM in the risk stratification of COVID-19 patients assessed at the triage of the Emergency Department. Crit Care. 2021 Nov 26;25(1):407. doi: 10.1186/s13054-021-03834-9. PMID: 34836547.
85. Rapanotti MC, Cugini E, Nuccetelli M, Terrinoni A, Di Raimondo C, Lombardo P, Costanza G, Cosio T, Rossi P, Orlandi A, Campione E, Bernardini S, Blot-Chabaud M, Bianchi L. MCAM/MUC18/CD146 as a Multifaceted Warning Marker of Melanoma Progression in Liquid Biopsy. Int J Mol Sci. 2021 Nov 17;22(22):12416. doi: 10.3390/ijms222212416. PMID: 34830300.
86. Kolesova O, Tomasetti F, Cerini P, Finucci D, Turchetti G, Capogreco F, Bernardini S, Calugi G, Pieri M. Evaluation of ECLIA antigen detection tests as screening methods for COVID-19 in comparison with molecular analysis. Ir J Med Sci. 2021 Nov 30. doi: 10.1007/s11845-021-02863-1. Epub ahead of print. PMID: 34850319.
87. Pieri M, Nicolai E, Ciotti M, Nuccetelli M, Sarubbi S, Pelagalli M, Bernardini S. Antibody response to COVID-19 vaccine: A point of view that can help to optimize dose distribution. Int Immunopharmacol. 2021 Nov 27:108406. doi: 10.1016/j.intimp.2021.108406. Epub ahead of print. PMID: 34862126; PMCID: PMC8626226.
88. Clerico A, Zaninotto M, Aimo A, Dittadi R, Cosseddu D, Perrone M, Padoan A, Masotti S, Belloni L, Migliardi M, Fortunato A, Trenti T, Malloggi L, Cappelletti P, Galli GA, Bernardini S, Sciacovelli L, Plebani M. Use of high-sensitivity

cardiac troponins in the emergency department for the early rule-in and rule-out of acute myocardial infarction without persistent ST-segment elevation (NSTEMI) in Italy. Clin Chem Lab Med. 2021 Dec 20. doi: 10.1515/cclm-2021-1085. Epub ahead of print. PMID: 34927403.

89. Nicolai E, Nuccetelli M, Sarubbi S, Basile V, Perrone MA, Terrinoni A, Minieri M, Pieri M, Bernardini S. Performance evaluation of the new Chemiluminescence Immunoassay CL-1200i Thyroid Panel. J Immunoassay Immunochem. 2021 Dec 18:1-13. doi: 10.1080/15321819.2021.2017301. Epub ahead of print. PMID: 34927566.
90. Alessandro De Stefano, Sabrina Caporali, Nicola Di Daniele, Valentina Rovella, Carmine Cardillo, Francesca Schinzari, Marilena Minieri, Massimo Pieri, Eleonora Candi, Bernardini S, Manfredi Tesaro, Alessandro Terrinoni (2021). Anti-Inflammatory and Proliferative Properties of Luteolin-7- O-Glucoside. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, ISSN: 1661-6596, doi:10.3390/ijms22031321
91. Massimo Pieri, Stefano Pignalosa, Marco Alfonso Perrone, Carmelo Russo, Gianluca Noce, Andrea Perrone, Alessandro Terrinoni, Renato Massoud, Bernardini S (2021). Evaluation of the Diesse Cube 30 touch erythrocyte sedimentation method in comparison with Alifax test 1 and the manual Westergren gold standard method. SCANDINAVIAN JOURNAL OF CLINICAL & LABORATORY INVESTIGATION, ISSN: 0036-5513, doi: 10.1080/00365513.2021.188199
92. Aldo Clerico, Martina Zaninotto, Claudio Passino, Nadia Aspromonte, Massimo Francesco Piepoli, Marco Migliardi, Marco Perrone, Antonio Fortunato, Andrea Padoan, Angelo Testa, Franco Dellarole, Tommaso Trenti, Bernardini S, Laura Sciacovelli, Furio Colivicchi, Domenico Gabrielli, Mario Plebani (2021). Evidence on clinical relevance of cardiovascular risk evaluation in the general population using cardio-specific biomarkers. CLINICAL CHEMISTRY AND LABORATORY MEDICINE, vol. 59, p. 79-90, ISSN: 1434-6621, doi: 10.1515/cclm-2020-0310
93. 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.
94. 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.

95. 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.
96. 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.
97. 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.
98. 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 γ Role in Myocyte Differentiation Microfilament Remodelling and Colon Cancer Progression. *Int J Mol Sci*. 2021 Sep 10;22(18):9818. doi: 10.3390/ijms22189818.
99. 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.
100. 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.
101. 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.
102. Bernardini S. Foreword: Introducing the eJIFCC Special Issue on "POCT - Making the Point". *EJIFCC*. 2021 Jun 29;32(2):116-117.
103. 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 α -Klotho in patients with Parkinson's disease. *Parkinsonism Relat Disord*. 2021 Sep;90:62-64. doi: 10.1016/j.parkreldis.2021.08.004.
104. 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.

105. 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.
106. 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.
107. 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.
108. 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.
109. 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.
110. 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.
111. Minieri M, Leoni BD, Bellincampi L, Bajo D, Agnoli A, De Angelis AM, Pieri M, Equitani F, Rossi V, Valente F, Pignatola 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.
112. 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.
113. 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.

114. 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.
115. 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.
116. 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/eurev_202103_25283.
117. 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.
118. 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.
119. 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.
120. 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.
121. 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.
122. 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.

123. 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/eurev_202110_26865.
124. 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.
125. 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.
126. Matteucci C, Minutolo A, Balestrieri E, Petrone V, Fanelli M, Malagnino V, Iannetta M, Giovino A, Barreca F, Di Cesare S, De Marco P, Miele MT, Toschi N, Mastino A, Sinibaldi Vallebbona 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.
127. 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.
128. De Stefano A, Caporali S, Di Daniele N, Rovella V, Cardillo C, Schinzari F, Minieri M, Pieri M, Candi E, Bernardini S, Tesaro 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.
129. 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.
130. 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.
131. 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.

132. 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.
133. Schirizzi T, Maffei 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.
134. 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.
135. 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.
136. 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.
137. 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.
138. 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.
139. 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.
140. 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.

141. 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.
142. 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.
143. 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.
144. 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.
145. 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.
146. 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.
147. 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 might help to identify subjects with high probability of testing positive to SARS-CoV-2. *Clin Med (Lond)*. 2020 Jul;20(4):e114-e119. doi: 10.7861/clinmed.2020-0373.
148. Cerroni R, Liguori C, Stefani A, Conti M, Garasto E, Pierantozzi M, Mercuri NB, Bernardini S, Fucci G, Massoud R. Increased Noradrenaline as an Additional Cerebrospinal Fluid Biomarker in PSP-Like Parkinsonism. *Front Aging Neurosci*. 2020 Jun 16;12:126. doi: 10.3389/fnagi.2020.00126.

149. 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- β 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.
150. 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.
151. 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.
152. 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.
153. 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) $_2$ D 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.
154. Gruson D, Bernardini S, Dabla PK, Gouget B, Stankovic S. Collaborative AI and Laboratory Medicine integration in precision cardiovascular medicine. *Clin Chim Acta.* 2020 Oct;509:67-71. doi: 10.1016/j.cca.2020.06.001. Epub 2020 Jun 4.
155. Nuccetelli M, Pieri M, Grelli S, Ciotti M, Miano R, Andreoni M, Bernardini S. SARS-CoV-2 infection serology: a useful tool to overcome lockdown? *Cell Death Discov.* 2020 May 26;6:38. doi: 10.1038/s41420-020-0275-2.
156. Spoto S, Legramante JM, Minieri M, Fogolari M, Terrinoni A, Valeriani E, Sebastiano C, Bernardini S, Ciccozzi M, Angeletti PS. How biomarkers can improve pneumonia diagnosis and prognosis: procalcitonin and mid-regional-pro-adrenomedullin. *Biomark Med.* 2020 May;14(7):549-562. doi: 10.2217/bmm-2019-0414.
157. Clerico A, Cardinale DM, Zaninotto M, Aspromonte N, Sandri MT, Passino C, Migliardi M, Perrone M, Fortunato A, Padoan A, Trenti T, Bernardini S, Sciacovelli L, Colivicchi F, Gabrielli D, Plebani M. High-sensitivity cardiac troponin I and T methods for the early detection of myocardial injury in patients on chemotherapy. *Clin Chem Lab Med.* 2020 May 22;59(3):513-521. doi: 10.1515/cclm-2020-0362.

158. Ciotti M, Angeletti S, Minieri M, Giovannetti M, Benvenuto D, Pascarella S, Sagnelli C, Bianchi M, Bernardini S, Ciccozzi M. COVID-19 Outbreak: An Overview. *Chemotherapy*. 2019;64(5-6):215-223. doi: 10.1159/000507423.
159. Schirinzi T, Di Lazzaro G, Sancesario GM, Summa S, Petrucci S, Colona VL, Bernardini S, Pierantozzi M, Stefani A, Mercuri NB, Pisani A. Young-onset and late-onset Parkinson's disease exhibit a different profile of fluid biomarkers and clinical features. *Neurobiol Aging*. 2020 Jun;90:119-124. doi: 10.1016/j.neurobiolaging.2020.02.012. Epub 2020 Feb 18.
160. Romigi A, Bari M, Liguori C, Izzi F, Rapino C, Nuccetelli M, Battista N, Bernardini S, Centonze D, Mercuri NB, Placidi F, Maccarrone M. CSF Levels of the Endocannabinoid Anandamide are Reduced in Patients with Untreated Narcolepsy Type 1: A Pilot Study. *CNS Neurol Disord Drug Targets*. 2020;19(2):142-147. doi: 10.2174/1871527319666200309115602.
161. Liguori C, Spanetta M, Izzi F, Franchini F, Nuccetelli M, Sancesario GM, Di Santo S, Bernardini S, Mercuri NB, Placidi F. Sleep-Wake Cycle in Alzheimer's Disease Is Associated with Tau Pathology and Orexin Dysregulation. *J Alzheimers Dis*. 2020;74(2):501-508. doi: 10.3233/JAD-191124.
162. Calugi G, De Cagna MR, Zocca E, Quarantelli MT, Iodice C, Frassanito ML, Valentini A, Pieri M, Bernardini S. Evaluation and analytical performance of the new Roche T411 and T511 coagulation analysers. *Thromb Res*. 2020 Mar;187:166-169. doi: 10.1016/j.thromres.2020.01.018.
163. Terrinoni A, Palombo R, Pitolli C, Caporali S, De Berardinis R, Ciccarone S, Lanzillotta A, Mauramati S, Porta G, Minieri M, Melino G, Bernardini S, Bruno E. Role of the TAp63 Isoform in Recurrent Nasal Polyps. *Folia Biol (Praha)*. 2019;65(4):170-180.
164. Perrone MA, Viola FG, Minieri M, Caporali S, Copponi A, Sancesario G, Angeletti S, Massoud R, Romeo F, Bernardini S, Terrinoni A. The Von Willebrand Factor Antigen Plasma Concentration: a Monitoring Marker in the Treatment of Aortic and Mitral Valve Diseases. *Folia Biol (Praha)*. 2020;66(4):133-141.
165. Lattanzi R, Maffei D, Petrella C, Pieri M, Sancesario G, Schirinzi T, Bernardini S, Barbato C, Ralli M, Greco A, Possenti R, Sancesario G, Severini C. Involvement of the Chemokine Prokineticin-2 (PROK2) in Alzheimer's Disease: From Animal Models to the Human Pathology. *Cells*. 2019 Nov 13;8(11):1430. doi: 10.3390/cells8111430.
166. Castaman G, Santoro C, Coppola A, Mancuso ME, Santoro RC, Bernardini S, Pugliese FR, Lubrano R, Golato M, Tripodi A, Rocino A, Santagostino E; ad hoc Working Group, Biasoli C, Borchellini A, Catalano A, Contino L, Coluccia A, Cultrera D, De Cristofaro R, Di Minno G, Fabbri A, Franchini M, Gamba G, Giuffrida AC, Gresele P, Giampaolo A, Hassan HJ, Luciani M, Marchesini E, Marino R, Mazzucconi MG, Molinari AC, Morfini M,

- Notarangelo LD, Peccarisi L, Peyvandi F, Pollio B, Rivolta GF, Ruggieri MP, Sargentini V, Schiavoni M, Sciacovelli L, Serino ML, Siragusa S, Tagliaferri A, Testa S, Tosetto A, Zampogna S, Zanon E. Emergency management in patients with haemophilia A and inhibitors on prophylaxis with emicizumab: AICE practical guidance in collaboration with SIBioC, SIMEU, SIMEUP, SIPMeL and Siset. *Blood Transfus.* 2020 Mar;18(2):143-151. doi: 10.2450/2019.0186-19.
167. Bruno V, Nuccetelli M, Ticconi C, Bruno A, Martelli F, Capogna MV, Bernardini S, Piccione E, Pietropolli A. Amniotic fluid antiphospholipid antibodies: potential role in antiphospholipid syndrome-independent aberrant implantation process. *Reprod Biol Endocrinol.* 2019 Oct 15;17(1):79. doi: 10.1186/s12958-019-0527-2.
 168. Krashia P, Cordella A, Nobili A, La Barbera L, Federici M, Leuti A, Campanelli F, Natale G, Marino G, Calabrese V, Vedele F, Ghiglieri V, Picconi B, Di Lazzaro G, Schirinzi T, Sancesario G, Casadei N, Riess O, Bernardini S, Pisani A, Calabresi P, Viscomi MT, Serhan CN, Chiurchiù V, D'Amelio M, Mercuri NB. Author Correction: Blunting neuroinflammation with resolvin D1 prevents early pathology in a rat model of Parkinson's disease. *Nat Commun.* 2019 Oct 14;10(1):4725. doi: 10.1038/s41467-019-12538-2.
 169. Perrone M, Donatucci B, Salvati A, Gualtieri P, De Lorenzo A, Romeo F, Bernardini S. Inflammation, oxidative stress and gene expression: the postprandial approach in professional soccer players to reduce the risk of muscle injuries and early atherosclerosis. *Medicina dello Sport* 2019 June;72(2):234-43 DOI: 10.23736/S0025-7826.19.03531-2
 170. Perrone MA, Gualtieri P, Gratteri S, Ali W, Sergi D, Muscoli S, Cammarano A, Bernardini S, Di Renzo L, Romeo F. Effects of postprandial hydroxytyrosol and derivatives on oxidation of LDL, cardiometabolic state and gene expression: a nutrigenomic approach for cardiovascular prevention. *J Cardiovasc Med (Hagerstown).* 2019 Jul;20(7):419-426. doi: 10.2459/JCM.0000000000000816.
 171. Spoto S, Fogolari M, De Florio L, Minieri M, Vicino G, Legramante J, Lia MS, Terrinoni A, Caputo D, Costantino S, Bernardini S, Ciccozzi M, Angeletti S. Procalcitonin and MR-proAdrenomedullin combination in the etiological diagnosis and prognosis of sepsis and septic shock. *Microb Pathog.* 2019 Dec;137:103763. doi: 10.1016/j.micpath.2019.103763. Epub 2019 Sep 28.
 172. Plebani M, Banfi G, Bernardini S, Bondanini F, Conti L, Dorizzi R, Ferrara FE, Mancini R, Trenti T. Serum or plasma? An old question looking for new answers. *Clin Chem Lab Med.* 2020 Jan 28;58(2):178-187. doi: 10.1515/cclm-2019-0719.
 173. Krashia P, Cordella A, Nobili A, La Barbera L, Federici M, Leuti A, Campanelli F, Natale G, Marino G, Calabrese V, Vedele F, Ghiglieri V, Picconi B, Di Lazzaro G, Schirinzi T, Sancesario G, Casadei N, Riess O, Bernardini S, Pisani A, Calabresi P, Viscomi MT, Serhan CN, Chiurchiù V, D'Amelio M,

Mercuri NB. Blunting neuroinflammation with resolvin D1 prevents early pathology in a rat model of Parkinson's disease. *Nat Commun.* 2019 Sep 2;10(1):3945. doi: 10.1038/s41467-019-11928-w.

174. Sancesario G, Bernardini S. AD biomarker discovery in CSF and in alternative matrices. *Clin Biochem.* 2019 Oct;72:52-57. doi: 10.1016/j.clinbiochem.2019.08.008.
175. Di Renzo L, Cioccoloni G, Bernardini S, Abenavoli L, Aiello V, Marchetti M, Cammarano A, Alipourfard I, Ceravolo I, Gratteri S. A Hazelnut-Enriched Diet Modulates Oxidative Stress and Inflammation Gene Expression without Weight Gain. *Oxid Med Cell Longev.* 2019 Jul 4;2019:4683723. doi: 10.1155/2019/4683723.
176. Saeed K, Wilson DC, Bloos F, Schuetz P, van der Does Y, Melander O, Hausfater P, Legramante JM, Claessens YE, Amin D, Rosenqvist M, White G, Mueller B, Limper M, Callejo CC, Brandi A, Macchi MA, Cortes N, Kutz A, Patka P, Yañez MC, Bernardini S, Beau N, Dryden M, van Gorp ECM, Minieri M, Chan L, Rood PPM, Del Castillo JG. Correction to: The early identification of disease progression in patients with suspected infection presenting to the emergency department: a multi-centre derivation and validation study. *Crit Care.* 2019 Jul 15;23(1):255. doi: 10.1186/s13054-019-2536-0.
177. Perrone MA, Pieri M, Marchei M, Sergi D, Bernardini S, Romeo F. Serum free light chains in patients with ST elevation myocardial infarction (STEMI): A possible correlation with left ventricle dysfunction. *Int J Cardiol.* 2019 Oct 1;292:32-34. doi: 10.1016/j.ijcard.2019.06.016.
178. Clerico A, Ripoli A, Zaninotto M, Masotti S, Musetti V, Ciaccio M, Aloe R, Rizzardi S, Dittadi R, Carrozza C, Fasano T, Perrone M, de Santis A, Prontera C, Riggio D, Guiotto C, Migliardi M, Bernardini S, Plebani M. Head-to-head comparison of plasma cTnI concentration values measured with three high-sensitivity methods in a large Italian population of healthy volunteers and patients admitted to emergency department with acute coronary syndrome: A multi-center study. *Clin Chim Acta.* 2019 Sep;496:25-34. doi: 10.1016/j.cca.2019.06.012.
179. Fenouil T, Fourier A, Quadrio I, Streichenberger N, Bernardini S, Zima T, Perret-Liaudet A, Meyronet D. The standardization of cerebrospinal fluid markers and neuropathological diagnoses brings to light the frequent complexity of concomitant pathology in Alzheimer's disease: The next challenge for biochemical markers? *Clin Biochem.* 2019 Oct;72:15-23. doi: 10.1016/j.clinbiochem.2019.06.004.
180. Palombo R, Caporali S, Falconi M, Iacovelli F, Morozzo Della Rocca B, Lo Surdo A, Campione E, Candi E, Melino G, Bernardini S, Terrinoni A. Luteolin-7-O- β -d-Glucoside Inhibits Cellular Energy Production Interacting with HEK2 in Keratinocytes. *Int J Mol Sci.* 2019 May 31;20(11):2689. doi: 10.3390/ijms20112689.

181. Greaves RF, Bernardini S, Ferrari M, Fortina P, Gouget B, Gruson D, Lang T, Loh TP, Morris HA, Park JY, Roessler M, Yin P, Kricka LJ. Key questions about the future of laboratory medicine in the next decade of the 21st century: A report from the IFCC-Emerging Technologies Division. *Clin Chim Acta*. 2019 Aug;495:570-589. doi: 10.1016/j.cca.2019.05.021.
182. Bernardini S, Zima T. Alzheimer's disease: Making the point. *Clin Biochem*. 2019 Oct;72:1-2. doi: 10.1016/j.clinbiochem.2019.05.007.
183. Clerico A, Masotti S, Musetti V, Ripoli A, Aloe R, Di Pietro M, Rizzardi S, Dittadi R, Carrozza C, Belloni L, Perrone M, Fasano T, Canovi S, de Santis A, Prontera C, Guiotto C, Cosseddu D, Migliardi M, Bernardini S. Evaluation of 99th percentile and reference change values of the hs-cTnI method using ADVIA Centaur XPT platform: A multicenter study. *Clin Chim Acta*. 2019 Aug;495:161-166. doi: 10.1016/j.cca.2019.04.056.
184. Ialongo C, Bernardini S. Total laboratory automation has the potential to be the field of application of artificial intelligence: the cyber-physical system and "Automation 4.0". *Clin Chem Lab Med*. 2019 Oct 25;57(11):e279-e281. doi: 10.1515/cclm-2019-0226.
185. Terrinoni A, Calabrese C, Basso D, Aita A, Caporali S, Plebani M, Bernardini S. The circulating miRNAs as diagnostic and prognostic markers. *Clin Chem Lab Med*. 2019 Jun 26;57(7):932-953. doi: 10.1515/cclm-2018-0838.
186. Clerico A, Ripoli A, Masotti S, Musetti V, Aloe R, Dipalo M, Rizzardi S, Dittadi R, Carrozza C, Storti S, Belloni L, Perrone M, Fasano T, Canovi S, Correale M, Prontera C, Guiotto C, Cosseddu D, Migliardi M, Bernardini S. Evaluation of 99th percentile and reference change values of a high-sensitivity cTnI method: A multicenter study. *Clin Chim Acta*. 2019 Jun;493:156-161. doi: 10.1016/j.cca.2019.02.029.
187. Liguori C, Mercuri NB, Nuccetelli M, Izzi F, Cordella A, Bernardini S, Placidi F. Obstructive sleep apnea may induce orexinergic system and cerebral β -amyloid metabolism dysregulation: is it a further proof for Alzheimer's disease risk? *Sleep Med*. 2019 Apr;56:171-176. doi: 10.1016/j.sleep.2019.01.003.
188. Tripodi A, Santoro RC, Testa S, Molinari AC, Bernardini S, Golato M, Lippi G, Ageno W, Santagostino E. Position paper on laboratory testing for patients with haemophilia. A consensus document from SISET, AICE, SIBioC and SIPMeL. *Blood Transfus*. 2019 May;17(3):229-236. doi: 10.2450/2019.0241-18.
189. Alwardat M, Schirinzi T, Di Lazzaro G, Sancesario GM, Franco D, Imbriani P, Sinibaldi Salimei P, Bernardini S, Mercuri NB, Pisani A. Association between physical activity and dementia's risk factors in patients with Parkinson's disease. *J Neural Transm (Vienna)*. 2019 Mar;126(3):319-325. doi: 10.1007/s00702-019-01979-0.

190. Saeed K, Wilson DC, Bloos F, Schuetz P, van der Does Y, Melander O, Hausfater P, Legramante JM, Claessens YE, Amin D, Rosenqvist M, White G, Mueller B, Limper M, Callejo CC, Brandi A, Macchi MA, Cortes N, Kutz A, Patka P, Yañez MC, Bernardini S, Beau N, Dryden M, van Gorp ECM, Minieri M, Chan L, Rood PPM, Del Castillo JG. The early identification of disease progression in patients with suspected infection presenting to the emergency department: a multi-centre derivation and validation study. *Crit Care*. 2019 Feb 8;23(1):40. doi: 10.1186/s13054-019-2329-5.
191. Perrone MA, Babu Dasari J, Intorcia A, Morgagni R, Sergi D, Battaini F, De Lorenzo A, Bernardini S, Merra G, Romeo F. Efficacy and safety of dronedarone in patients with amiodarone-induced hyperthyroidism: a clinical study. *Eur Rev Med Pharmacol Sci*. 2018 Dec;22(23):8502-8508. doi: 10.26355/eurrev_201812_16551.
192. Liguori C, Mercuri NB, Nuccetelli M, Izzi F, Bernardini S, Placidi F. Cerebrospinal Fluid Orexin Levels and Nocturnal Sleep Disruption in Alzheimer's Disease Patients Showing Neuropsychiatric Symptoms. *J Alzheimers Dis*. 2018;66(3):993-999. doi: 10.3233/JAD-180769.
193. Schirinzi T, Sancesario GM, Di Lazzaro G, Biticchi B, Colona VL, Mercuri NB, Bernardini S, Pisani A. CSF α -synuclein inversely correlates with non-motor symptoms in a cohort of PD patients. *Parkinsonism Relat Disord*. 2019 Apr;61:203-206. doi: 10.1016/j.parkreldis.2018.10.018.
194. Sancesario GM, Bernardini S. Diagnosis of neurodegenerative dementia: where do we stand, now? *Ann Transl Med*. 2018 Sep;6(17):340. doi: 10.21037/atm.2018.08.04.
195. Mazzeo M, Di Raimondo C, Gurnari C, Rapanotti MC, Giunta A, Franceschini L, Rizzo M, Minieri M, Provenzano I, Bernardini S, Cantonetti M, Bianchi L. Early detection of IgH monoclonal rearrangement in follicular spicules of the nose preceding multiple myeloma diagnosis. *G Ital Dermatol Venereol*. 2020 Jun;155(3):364-366. doi: 10.23736/S0392-0488.18.06016-9.
196. Pieri M, Zenobi R, Morello M, Storto M, Buttari F, Centonze D, Bernardini S, Dessi M. Multiple Sclerosis: kFLC index values related to gender. *Mult Scler Relat Disord*. 2018 Nov;26:58-60. doi: 10.1016/j.msard.2018.08.018.
197. Mion MM, Bragato G, Zaninotto M, Alessandrini J, Bernardini S, Plebani M. Analytical performance evaluation of the new GEM® Premier™ 5000 analyzer in comparison to the GEM® Premier™ 4000 and the RapidPoint® 405 systems. *Clin Chim Acta*. 2018 Nov;486:313-319. doi: 10.1016/j.cca.2018.08.019.
198. Khashoggi H, Pignalosa S, Russo C, Pieri M, Bernardini S. New HPLC instrument performance evaluation in HbA_{1c} determination and comparison with capillary electrophoresis. *Scand J Clin Lab Invest*. 2018 Sep;78(5):393-397. doi: 10.1080/00365513.2018.1487072.

199. Schirinzi T, Sancesario GM, Di Lazzaro G, Scalise S, Colona VL, Imbriani P, Mercuri NB, Bernardini S, Lang AE, Pisani A. Clinical value of CSF amyloid-beta-42 and tau proteins in Progressive Supranuclear Palsy. *J Neural Transm (Vienna)*. 2018 Sep;125(9):1373-1379. doi: 10.1007/s00702-018-1893-1.
200. Pieri M, Pignalosa S, Franceschini L, Rizzo M, Cantonetti M, Zenobi R, Bernardini S, Dessi M. Nephelometric assay of urine free light chains: an alternative and early clinical test for Bence-Jones protein quantification. *Clin Chem Lab Med*. 2018 Nov 27;56(12):e313-e315. doi: 10.1515/cclm-2018-0402.
201. Sancesario GM, Bernardini S. Alzheimer's disease in the omics era. *Clin Biochem*. 2018 Sep;59:9-16. doi: 10.1016/j.clinbiochem.2018.06.011.
202. Ialongo C, Bernardini S. Long story short: an introduction to the short-term and longterm Six Sigma quality and its importance in laboratory medicine for the management of extra-analytical processes. *Clin Chem Lab Med*. 2018 Oct 25;56(11):1838-1845. doi: 10.1515/cclm-2018-0310.
203. Terrinoni A, Didona B, Caporali S, Chillemi G, Lo Surdo A, Paradisi M, Annichiarico-Petruzzelli M, Candi E, Bernardini S, Melino G. Role of the keratin 1 and keratin 10 tails in the pathogenesis of ichthyosis hystrix of Curth Macklin. *PLoS One*. 2018 Apr 24;13(4):e0195792. doi: 10.1371/journal.pone.0195792.
204. Terracciano C, Farina O, Esposito T, Lombardi L, Napolitano F, Blasiis P, Ciccone G, Todisco V, Tuccillo F, Bernardini S, Di Iorio G, Melone MAB, Sampaolo S. Successful long-term therapy with flecainide in a family with paramyotonia congenita. *J Neurol Neurosurg Psychiatry*. 2018 Nov;89(11):1232-1234. doi: 10.1136/jnnp-2017-317615.
205. Innaurato S, Brierley GV, Grasso V, Massimi A, Gaudino R, Sileno S, Bernardini S, Semple R, Barbetti F. Severe insulin resistance in disguise: A familial case of reactive hypoglycemia associated with a novel heterozygous INSR mutation. *Pediatr Diabetes*. 2018 Jun;19(4):670-674. doi: 10.1111/pedi.12632.
206. Sancesario GM, Nuccetelli M, Cerri A, Zegeer J, Severini C, Ciotti MT, Pieri M, Martorana A, Caltagirone C, Nistico R, Bernardini S. Bromelain Degrades A β 1-42 Monomers and Soluble Aggregates: An In Vitro Study in Cerebrospinal Fluid of Alzheimer's Disease Patients. *Curr Alzheimer Res*. 2018;15(7):628-636. doi: 10.2174/1567205015666180123124851.
207. Pascarella A, Terracciano C, Farina O, Lombardi L, Esposito T, Napolitano F, Franzese G, Panella G, Tuccillo F, la Marca G, Bernardini S, Boffo S, Giordano A, Di Iorio G, Melone MAB, Sampaolo S. Vacuolated PAS-positive lymphocytes as an hallmark of Pompe disease and other myopathies related to impaired autophagy. *J Cell Physiol*. 2018 Aug;233(8):5829-5837. doi: 10.1002/jcp.26365.

208. Legramante JM, Mastropasqua M, Susi B, Porzio O, Mazza M, Miranda Agrippino G, D Agostini C, Brandi A, Giovagnoli G, Di Lecce VN, Bernardini S, Minieri M. Prognostic performance of MR-pro-adrenomedullin in patients with community acquired pneumonia in the Emergency Department compared to clinical severity scores PSI and CURB. *PLoS One*. 2017 Nov 21;12(11):e0187702. doi: 10.1371/journal.pone.0187702.
209. Liguori C, Chiaravalloti A, Izzi F, Nuccetelli M, Bernardini S, Schillaci O, Mercuri NB, Placidi F. Sleep apnoeas may represent a reversible risk factor for amyloid- β pathology. *Brain*. 2017 Dec 1;140(12):e75. doi: 10.1093/brain/awx281.
210. Ialongo C, Bernardini S. Validation of the Six Sigma Z-score for the quality assessment of clinical laboratory timeliness. *Clin Chem Lab Med*. 2018 Mar 28;56(4):595-601. doi: 10.1515/cclm-2017-0642.
211. Liguori C, Romigi A, Izzi F, Placidi F, Nuccetelli M, Cordella A, Bernardini S, Biagio MN. Complement system dysregulation in patients affected by Idiopathic Generalized Epilepsy and the effect of antiepileptic treatment. *Epilepsy Res*. 2017 Nov;137:107-111. doi: 10.1016/j.eplepsyres.2017.09.005.
212. Liguori C, Chiaravalloti A, Nuccetelli M, Izzi F, Sancesario G, Cimini A, Bernardini S, Schillaci O, Mercuri NB, Fabio P. Hypothalamic dysfunction is related to sleep impairment and CSF biomarkers in Alzheimer's disease. *J Neurol*. 2017 Nov;264(11):2215-2223. doi: 10.1007/s00415-017-8613-x.
213. De Stefano A, Mannucci L, Massoud R, Bernardini S, Cortese C. Performance characteristics of lipoprotein-associated phospholipase A2 activity assay on the Dimension Vista analyser and preliminary study of a healthy Italian population. *Biochem Med (Zagreb)*. 2017 Oct 15;27(3):030701. doi: 10.11613/BM.2017.030701.
214. Colica C, Di Renzo L, Trombetta D, Smeriglio A, Bernardini S, Cioccoloni G, Costa de Miranda R, Gualtieri P, Sinibaldi Salimei P, De Lorenzo A. Antioxidant Effects of a Hydroxytyrosol-Based Pharmaceutical Formulation on Body Composition, Metabolic State, and Gene Expression: A Randomized Double-Blinded, Placebo-Controlled Crossover Trial. *Oxid Med Cell Longev*. 2017;2017:2473495. doi: 10.1155/2017/2473495.
215. Budini F, Laudani L, Bernardini S, Macaluso A. Local vibration inhibits H-reflex but does not compromise manual dexterity and does not increase tremor. *Hum Mov Sci*. 2017 Oct;55:221-228. doi: 10.1016/j.humov.2017.08.018.
216. Martello S, Pieri M, Ialongo C, Pignalosa S, Noce G, Vernich F, Russo C, Mineo F, Bernardini S, Marsella LT. Levamisole in Illicit Trafficking Cocaine Seized: A One-Year Study. *J Psychoactive Drugs*. 2017 Nov-Dec;49(5):408-412. doi: 10.1080/02791072.2017.1361558.

217. Onorati M, Sancesario G, Pastore D, Bernardini S, Cruz M, Carrión JE, Carosi M, Vignoli L, Lauro D, Gentile G. Effects of parasitic infection and reproduction on corticosterone plasma levels in Galápagos land iguanas, *Conolophus marthae* and *C. subcristatus*. *Ecol Evol.* 2017 Jul 5;7(15):6046-6055. doi: 10.1002/ece3.3077.
218. Ialongo C, Mozzi AF, Bernardini S. An LC-MS Assay with Isocratic Separation and On-line Solid Phase Extraction to Improve the Routine Therapeutic Drug Monitoring of Busulfan in Plasma. *J Med Biochem.* 2017 Apr 22;36(2):113-121. doi: 10.1515/jomb-2016-0031.
219. Pieri M, Storto M, Pignalosa S, Zenobi R, Buttari F, Bernardini S, Centonze D, Dessi M. KFLC Index utility in multiple sclerosis diagnosis: Further confirmation. *J Neuroimmunol.* 2017 Aug 15;309:31-33. doi: 10.1016/j.jneuroim.2017.05.007.
220. Cento V, Nguyen THT, Di Carlo D, Biliotti E, Gianserra L, Lenci I, Di Paolo D, Calvaruso V, Teti E, Cerrone M, Romagnoli D, Melis M, Danieli E, Menzaghi B, Polilli E, Siciliano M, Nicolini LA, Di Biagio A, Magni CF, Bolis M, Antonucci FP, Di Maio VC, Alfieri R, Sarmati L, Casalino P, Bernardini S, Micheli V, Rizzardini G, Parruti G, Quirino T, Puoti M, Babudieri S, D'Arminio Monforte A, Andreoni M, Craxì A, Angelico M, Pasquazzi C, Taliani G, Guedj J, Perno CF, Ceccherini-Silberstein F. Improvement of ALT decay kinetics by all-oral HCV treatment: Role of NS5A inhibitors and differences with IFN-based regimens. *PLoS One.* 2017 May 18;12(5):e0177352. doi: 10.1371/journal.pone.0177352.
221. Colica C, Merra G, Gasbarrini A, De Lorenzo A, Cioccoloni G, Gualtieri P, Perrone MA, Bernardini S, Bernardo V, Di Renzo L, Marchetti M. Efficacy and safety of very-low-calorie ketogenic diet: a double blind randomized crossover study. *Eur Rev Med Pharmacol Sci.* 2017 May;21(9):2274-2289.
222. Ialongo C, Bernardini S. Preanalytical investigations of phlebotomy: methodological aspects, pitfalls and recommendations. *Biochem Med (Zagreb).* 2017 Feb 15;27(1):177-191. doi: 10.11613/BM.2017.020.
223. Lippi G, Panteghini M, Bernardini S, Bonfanti L, Carraro P, Casagrande I, Cavazza M, Ceriotti F, Ciaccio M, Coen D, Giavarina D, Giostra F, Paolillo C, Plebani M, Ricci G, Cervellin G. Laboratory testing in the emergency department: an Italian Society of Clinical Biochemistry and Clinical Molecular Biology (SIBioC) and Academy of Emergency Medicine and Care (AcEMC) consensus report. *Clin Chem Lab Med.* 2018 Sep 25;56(10):1655-1659. doi: 10.1515/cclm-2017-0077.
224. Rapanotti MC, Campione E, Spallone G, Orlandi A, Bernardini S, Bianchi L. Minimal residual disease in melanoma: circulating melanoma cells and predictive role of MCAM/MUC18/MelCAM/CD146. *Cell Death Discov.* 2017 Mar 6;3:17005. doi: 10.1038/cddiscovery.2017.5.

225. Merra G, Gratteri S, De Lorenzo A, Barrucco S, Perrone MA, Avolio E, Bernardini S, Marchetti M, Di Renzo L. Effects of very-low-calorie diet on body composition, metabolic state, and genes expression: a randomized double-blind placebo-controlled trial. *Eur Rev Med Pharmacol Sci*. 2017 Jan;21(2):329-345.
226. Campione E, Botta A, Di Prete M, Rastelli E, Gibellini M, Petrucci A, Bernardini S, Novelli G, Bianchi L, Orlandi A, Massa R, Terracciano C. Cutaneous features of myotonic dystrophy types 1 and 2: Implication of premature aging and vitamin D homeostasis. *Neuromuscul Disord*. 2017 Feb;27(2):163-169. doi: 10.1016/j.nmd.2016.11.004.
227. Sancesario GM, Toniolo S, Chiasserini D, Di Santo SG, Zegeer J, Bernardi G; SIBioC-Study Group of Clinical Biochemistry of Biological Fluids other than Blood, Musicco M; SINDem-ITALPLANED, Caltagirone C, Parnetti L, Bernardini S. The Clinical Use of Cerebrospinal Fluid Biomarkers for Alzheimer's Disease Diagnosis: The Italian Selfie. *J Alzheimers Dis*. 2017;55(4):1659-1666. doi: 10.3233/JAD-160975.
228. Pieri M, Pignatola S, Zenobi R, Callà C, Martino FG, Menichella G, Mancina F, Moscato U, Nocca G, Khashoggi H, Bernardini S, Dessì M, Di Daniele N. Reference intervals for HbA1c partitioned for gender and age: a multicenter study. *Acta Diabetol*. 2016 Dec;53(6):1053-1056. doi: 10.1007/s00592-016-0932-3.
229. De Lorenzo A, Bernardini S, Gualtieri P, Cabibbo A, Perrone MA, Giambini I, Di Renzo L. Mediterranean meal versus Western meal effects on postprandial ox-LDL, oxidative and inflammatory gene expression in healthy subjects: a randomized controlled trial for nutrigenomic approach in cardiometabolic risk. *Acta Diabetol*. 2017 Feb;54(2):141-149. doi: 10.1007/s00592-016-0917-2.
230. Ticconi C, Pietropolli A, Borelli B, Bruno V, Piccione E, Bernardini S, Di Simone N. Antinuclear autoantibodies and pregnancy outcome in women with unexplained recurrent miscarriage. *Am J Reprod Immunol*. 2016 Nov;76(5):396-399. doi: 10.1111/aji.12560.
231. Godos J, Zappalà G, Bernardini S, Giambini I, Bes-Rastrollo M, Martinez-Gonzalez M. Adherence to the Mediterranean diet is inversely associated with metabolic syndrome occurrence: a meta-analysis of observational studies. *Int J Food Sci Nutr*. 2017 Mar;68(2):138-148. doi: 10.1080/09637486.2016.1221900.
232. Ialongo C, Marano M, Bertucci PF, Marsella LT, De Zorzi A, Bernardini S. The importance of the toxicological analysis in newborns: clearing the case of a tetralogy of Fallot with a paradoxical reaction to 1-hydroxymidazolam. *Journal of Pediatric and Neonatal Individualized Medicine* 2016;5:e1-7.
233. Onorati M, Sancesario G, Pastore D, Bernardini S, Carrión JE, Carosi M, Vignoli L, Lauro D, Gentile G. Plasma concentrations of progesterone and

estradiol and the relation to reproduction in Galápagos land iguanas, *Conolophus marthae* and *C. subcristatus* (Squamata, Iguanidae). *Anim Reprod Sci.* 2016 Sep;172:105-13. doi: 10.1016/j.anireprosci.2016.07.007.

234. Roselli M, Ferroni P, Riondino S, Mariotti S, Portarena I, Alessandrini J, Ialongo C, Massoud R, Costarelli L, Cavaliere F, Bernardini S, Guadagni F. Functional impairment of activated protein C in breast cancer - relationship to survival outcomes. *Am J Cancer Res.* 2016 Jun 1;6(6):1450-7.
235. Ialongo C, Pieri M, Bernardini S. Smart management of sample dilution using an artificial neural network to achieve streamlined processes and saving resources: the automated nephelometric testing of serum free light chain as case study. *Clin Chem Lab Med.* 2017 Feb 1;55(2):231-236. doi: 10.1515/cclm-2016-0263.
236. Fintini D, Cappa M, Brufani C, Bernardini S, Barbetti F. Prevalence of elevated 1-h plasma glucose and its associations in obese youth. *Diabetes Res Clin Pract.* 2016 Jun;116:202-4. doi: 10.1016/j.diabres.2016.04.045.
237. Petropoulos K, Piermarini S, Bernardini S, Palleschi G, Moscone D. Development of a disposable biosensor for lactate monitoring in saliva. *Sensor and Actuators B: Chemical* 2016;237:8-15.
238. Barbetti F, Colombo C, Haataja L, Cras-Méneur C, Bernardini S, Arvan P. Hyperglucagonemia in an animal model of insulin- deficient diabetes: what therapy can improve it? *Clin Diabetes Endocrinol.* 2016 May 2;2:11. doi: 10.1186/s40842-016-0029-5.
239. Bizzarri C, Massimi A, Federici L, Cualbu A, Loche S, Bellincampi L, Bernardini S, Cappa M, Porzio O. A New Homozygous Frameshift Mutation in the HSD3B2 Gene in an Apparently Nonconsanguineous Italian Family. *Horm Res Paediatr.* 2016;86(1):53-61. doi: 10.1159/000444712.
240. Ialongo C, Bernardini S. Timeliness “at a glance”: assessing the turnaround time through the six sigma metrics. *Biochem Med (Zagreb).* 2016;26(1):98-102. doi: 10.11613/bm.2016.010.
241. Ialongo C, Bernardini S. Phlebotomy, a bridge between laboratory and patient. *Biochem Med (Zagreb).* 2016;26(1):17-33. doi: 10.11613/BM.2016.002.
242. Liguori C, Nuccetelli M, Izzi F, Sancesario G, Romigi A, Martorana A, Amoroso C, Bernardini S, Marciani MG, Mercuri NB, Placidi F. Rapid eye movement sleep disruption and sleep fragmentation are associated with increased orexin-A cerebrospinal-fluid levels in mild cognitive impairment due to Alzheimer's disease. *Neurobiol Aging.* 2016 Apr;40:120-126. doi: 10.1016/j.neurobiolaging.2016.01.007.

243. Ialongo C, Pieri M, Bernardini S. Artificial Neural Network for Total Laboratory Automation to Improve the Management of Sample Dilution. *SLAS Technol.* 2017 Feb;22(1):44-49. doi: 10.1177/2211068216636635.
244. Pieri M, Pignalosa S, Dinallo V, Crisanti A, Casalino P, Bernardini S, Dessi M, Rossella Z. Free light chains nephelometric assay: human urine stability in different storage conditions. *Clin Chem Lab Med.* 2016 Sep 1;54(9):e273-4. doi: 10.1515/cclm-2015-1174.
245. Liguori C, Placidi F, Izzi F, Nuccetelli M, Bernardini S, Sarpa MG, Cum F, Marciani MG, Mercuri NB, Romigi A. Beta-amyloid and phosphorylated tau metabolism changes in narcolepsy over time. *Sleep Breath.* 2016 Mar;20(1):277-83; discussion 283. doi: 10.1007/s11325-015-1305-9.
246. Pieri M, De Stefano A, Franceschini L, Rizzo M, Duranti F, Bernardini S, Cantonetti M, Zenobi R, Dessi M. Minimal tumour burden in haematological diseases: a step forward with quantitative assessment of Bence-Jones in nephelometry? *Br J Haematol.* 2016 Nov;175(4):733-735. doi: 10.1111/bjh.13878.
247. Sancesario GM, Bernardini S. How many biomarkers to discriminate neurodegenerative dementia? *Crit Rev Clin Lab Sci.* 2015;52(6):314-26. doi: 10.3109/10408363.2015.1051658.
248. Chimenti MS, Triggianese P, Nuccetelli M, Terracciano C, Crisanti A, Guarino MD, Bernardini S, Perricone R. Auto-reactions, autoimmunity and psoriatic arthritis. *Autoimmun Rev.* 2015 Dec;14(12):1142-6. doi: 10.1016/j.autrev.2015.08.003.
249. Booth RA, Bernardini S. The IFCC-Siemens Specialized Conference: Biomarkers in neuropsychiatric disorders. *Clin Chim Acta.* 2015 Sep 20;449:1-2. doi: 10.1016/j.cca.2015.06.018.
250. Liguori C, Dinallo V, Pieri M, Izzi F, Romigi A, Ialongo C, Marciani MG, Bernardini S, Mercuri NB, Placidi F. MicroRNA expression is dysregulated in narcolepsy: a new evidence? *Sleep Med.* 2015 Aug;16(8):1027-8. doi: 10.1016/j.sleep.2015.03.016.
251. Ialongo C, Porzio O, Giambini I, Bernardini S. Total Automation for the Core Laboratory: Improving the Turnaround Time Helps to Reduce the Volume of Ordered STAT Tests. *J Lab Autom.* 2016 Jun;21(3):451-8. doi: 10.1177/2211068215581488.
252. Pieroni L, Levi Mortera S, Greco V, Sirolli V, Ronci M, Felaco P, Fucci G, De Fulviis S, Massoud R, Condò S, Capria A, Di Daniele N, Bernardini S, Urbani A, Bonomini M. Biocompatibility assessment of haemodialysis membrane materials by proteomic investigations. *Mol Biosyst.* 2015 Jun;11(6):1633-43. doi: 10.1039/c5mb00058k.

253. Capuani B, Della-Morte D, Donadel G, Caratelli S, Bova L, Pastore D, De Canio M, D'Aguanno S, Coppola A, Pacifici F, Arriga R, Bellia A, Ferrelli F, Tesauro M, Federici M, Neri A, Bernardini S, Sbraccia P, Di Daniele N, Sconocchia G, Orlandi A, Urbani A, Lauro D. Liver protein profiles in insulin receptor-knockout mice reveal novel molecules involved in the diabetes pathophysiology. *Am J Physiol Endocrinol Metab*. 2015 May 1;308(9):E744-55. doi: 10.1152/ajpendo.00447.2014.
254. Gentile A, Mori F, Bernardini S, Centonze D. Role of amyloid- β CSF levels in cognitive deficit in MS. *Clin Chim Acta*. 2015 Sep 20;449:23-30. doi: 10.1016/j.cca.2015.01.035.
255. Davoli A, Greco V, Spalloni A, Guatteo E, Neri C, Rizzo GR, Cordella A, Romigi A, Cortese C, Bernardini S, Sarchielli P, Cardaioli G, Calabresi P, Mercuri NB, Urbani A, Longone P. Evidence of hydrogen sulfide involvement in amyotrophic lateral sclerosis. *Ann Neurol*. 2015 Apr;77(4):697-709. doi: 10.1002/ana.24372.
256. Liguori C, Romigi A, Nuccetelli M, Zannino S, Sancesario G, Martorana A, Albanese M, Mercuri NB, Izzi F, Bernardini S, Nitti A, Sancesario GM, Sica F, Marciani MG, Placidi F. Orexinergic system dysregulation, sleep impairment, and cognitive decline in Alzheimer disease. *JAMA Neurol*. 2014 Dec;71(12):1498-505. doi: 10.1001/jamaneurol.2014.2510.
257. Liguori C, Placidi F, Izzi F, Albanese M, Nuccetelli M, Bernardini S, Marciani MG, Mercuri NB, Romigi A. May CSF beta-amyloid and tau proteins levels be influenced by long treatment duration and stable medication in narcolepsy? *Sleep Med*. 2014 Nov;15(11):1424. doi: 10.1016/j.sleep.2014.07.002.
258. Croce N, Bernardini S, Caltagirone C, Angelucci F. Lithium/Valproic acid combination and L-glutamate induce similar pattern of changes in the expression of miR-30a-5p in SH-SY5Y neuroblastoma cells. *Neuromolecular Med*. 2014 Dec;16(4):872-7. doi: 10.1007/s12017-014-8325-7.
259. Liguori C, Romigi A, Mercuri NB, Nuccetelli M, Izzi F, Albanese M, Sancesario G, Martorana A, Sancesario GM, Bernardini S, Marciani MG, Placidi F. Cerebrospinal-fluid orexin levels and daytime somnolence in frontotemporal dementia. *J Neurol*. 2014 Sep;261(9):1832-6. doi: 10.1007/s00415-014-7455-z.
260. Greco V, Pieragostino D, Piras C, Aebersold R, Wiltfang J, Caltagirone C, Bernardini S, Urbani A. Direct analytical sample quality assessment for biomarker investigation: qualifying cerebrospinal fluid samples. *Proteomics*. 2014 Sep;14(17-18):1954-62. doi: 10.1002/pmhc.201300565.
261. Doldo E, Costanza G, Ferlosio A, Passeri D, Bernardini S, Scioli MG, Mazzaglia D, Agostinelli S, Del Bufalo D, Czernobilsky B, Orlandi A. CRBP-1 expression in ovarian cancer: a potential therapeutic target. *Anticancer Res*. 2014 Jul;34(7):3303-12.

262. Rapanotti MC, Suarez Viguria TM, Costanza G, Ricozzi I, Pierantozzi A, Di Stefani A, Campione E, Bernardini S, Chimenti S, Orlandi A, Bianchi L. Sequential molecular analysis of circulating MCAM/MUC18 expression: a promising disease biomarker related to clinical outcome in melanoma. *Arch Dermatol Res.* 2014 Aug;306(6):527-37. doi: 10.1007/s00403-014-1473-7.
263. Amadoro G, Corsetti V, Sancesario GM, Lubrano A, Melchiorri G, Bernardini S, Calissano P, Sancesario G. Cerebrospinal fluid levels of a 20-22 kDa NH2 fragment of human tau provide a novel neuronal injury biomarker in Alzheimer's disease and other dementias. *J Alzheimers Dis.* 2014;42(1):211-26. doi: 10.3233/JAD-140267.
264. Croce N, Mathé AA, Gelfo F, Caltagirone C, Bernardini S, Angelucci F. Effects of lithium and valproic acid on BDNF protein and gene expression in an in vitro human neuron-like model of degeneration. *J Psychopharmacol.* 2014 Oct;28(10):964-72. doi: 10.1177/0269881114529379.
265. Dessì M, Noce A, Bertucci P, Noce G, Rizza S, De Stefano A, Manca di Villahermosa S, Bernardini S, De Lorenzo A, Di Daniele N. Plasma and erythrocyte membrane phospholipids and fatty acids in Italian general population and hemodialysis patients. *Lipids Health Dis.* 2014 Mar 21;13:54. doi: 10.1186/1476-511X-13-54.
266. Liguori C, Placidi F, Albanese M, Nuccetelli M, Izzi F, Marciani MG, Mercuri NB, Bernardini S, Romigi A. CSF beta-amyloid levels are altered in narcolepsy: a link with the inflammatory hypothesis? *J Sleep Res.* 2014 Aug;23(4):420-4. doi: 10.1111/jsr.12130.
267. Rossi S, Bozzali M, Bari M, Mori F, Studer V, Motta C, Buttari F, Cercignani M, Gravina P, Mastrangelo N, Castelli M, Mancino R, Nucci C, Sottile F, Bernardini S, Maccarrone M, Centonze D. Association between a genetic variant of type-1 cannabinoid receptor and inflammatory neurodegeneration in multiple sclerosis. *PLoS One.* 2013 Dec 31;8(12):e82848. doi: 10.1371/journal.pone.0082848.
268. Matteucci C, Sorrentino R, Bellis L, Ettorre GM, Svicher V, Santoro R, Vennarecci G, Biasiolo A, Pontisso P, Scacciarelli D, Beneduce L, Sarrecchia C, Casalino P, Bernardini S, Pierimarchi P, Garaci E, Puoti C, Rasi G. Detection of high levels of Survivin-immunoglobulin M immune complex in sera from hepatitis C virus infected patients with cirrhosis. *Hepatol Res.* 2014 Sep;44(9):1008-18. doi: 10.1111/hepr.12239.
269. Angelucci F, Gelfo F, Fiore M, Croce N, Mathé AA, Bernardini S, Caltagirone C. The effect of neuropeptide Y on cell survival and neurotrophin expression in in-vitro models of Alzheimer's disease. *Can J Physiol Pharmacol.* 2014 Aug;92(8):621-30. doi: 10.1139/cjpp-2014-0099.
270. Massimi A, Malaponti M, Federici L, Vinciguerra D, Manca Bitti ML, Vottero A, Ghizzoni L, Maccarrone M, Cappa M, Bernardini S, Porzio O.

Functional and structural analysis of four novel mutations of CYP21A2 gene in Italian patients with 21-hydroxylase deficiency. *Horm Metab Res.* 2014 Jun;46(7):515-20. doi: 10.1055/s-0034-1371864.

271. Duranti F, Pieri M, Centonze D, Buttari F, Bernardini S, Dessi M. Determination of κ FLC and κ Index in cerebrospinal fluid: a valid alternative to assess intrathecal immunoglobulin synthesis. *J Neuroimmunol.* 2013 Oct 15;263(1-2):116-20. doi: 10.1016/j.jneuroim.2013.07.006.
272. Santone C, Dinallo V, Paci M, D'Ottavio S, Barbato G, Bernardini S. Saliva metabolomics by NMR for the evaluation of sport performance. *J Pharm Biomed Anal.* 2014 Jan;88:441-6. doi: 10.1016/j.jpba.2013.09.021.
273. Rossi S, Motta C, Studer V, Barbieri F, Buttari F, Bergami A, Sancesario G, Bernardini S, De Angelis G, Martino G, Furlan R, Centonze D. Tumor necrosis factor is elevated in progressive multiple sclerosis and causes excitotoxic neurodegeneration. *Mult Scler.* 2014 Mar;20(3):304-12. doi: 10.1177/1352458513498128.
274. Noce A, Fabrini R, Dessì M, Bocedi A, Santini S, Rovella V, Pastore A, Tesauro M, Bernardini S, Di Daniele N, Ricci G. Erythrocyte glutathione transferase activity: a possible early biomarker for blood toxicity in uremic diabetic patients. *Acta Diabetol.* 2014 Apr;51(2):219-24. doi: 10.1007/s00592-013-0497-3.
275. Formosa A, Markert EK, Lena AM, Italiano D, Finazzi-Agro' E, Levine AJ, Bernardini S, Garabadgiu AV, Melino G, Candi E. MicroRNAs, miR-154, miR-299-5p, miR-376a, miR-376c, miR-377, miR-381, miR-487b, miR-485-3p, miR-495 and miR-654-3p, mapped to the 14q32.31 locus, regulate proliferation, apoptosis, migration and invasion in metastatic prostate cancer cells. *Oncogene.* 2014 Oct 30;33(44):5173-82. doi: 10.1038/onc.2013.451.
276. Bonmassar L, Marchesi F, Pascale E, Franzese O, Margison GP, Bianchi A, D'Atri S, Bernardini S, Lattuada D, Bonmassar E, Aquino A. Triazene compounds in the treatment of acute myeloid leukemia: a short review and a case report. *Curr Med Chem.* 2013;20(19):2389-401. doi: 10.2174/0929867311320190001
277. Mattsson N, Andreasson U, Persson S, Carrillo MC, Collins S, Chalbot S, Cutler N, Dufour-Rainfray D, Fagan AM, Heegaard NH, Robin Hsiung GY, Hyman B, Iqbal K, Kaeser SA, Lachno DR, Lleó A, Lewczuk P, Molinuevo JL, Parchi P, Regeniter A, Rissman RA, Rosenmann H, Sancesario G, Schröder J, Shaw LM, Teunissen CE, Trojanowski JQ, Vanderstichele H, Vandijck M, Verbeek MM, Zetterberg H, Blennow K; Alzheimer's Association QC Program Work Group. CSF biomarker variability in the Alzheimer's Association quality control program. *Alzheimers Dement.* 2013 May;9(3):251-61. doi: 10.1016/j.jalz.2013.01.010.
278. Sancesario G, Esposito Z, Mozzi AF, Sancesario GM, Martorana A, Giordano A, Sorge R, Mari B, Spalletta G, Marciani MG, Bernardini S. Transient

global amnesia: linked to a systemic disorder of amino acid catabolism? *J Neurol*. 2013 May;260(5):1429-32. doi: 10.1007/s00415-013-6927-x.

279. Croce N, Bernardini S, Di Cecca S, Caltagirone C, Angelucci F. Hydrochloric acid alters the effect of L-glutamic acid on cell viability in human neuroblastoma cell cultures. *J Neurosci Methods*. 2013 Jul 15;217(1-2):26-30. doi: 10.1016/j.jneumeth.2013.04.009.
280. Koch G, Belli L, Giudice TL, Lorenzo FD, Sancesario GM, Sorge R, Bernardini S, Martorana A. Frailty among Alzheimer's disease patients. *CNS Neurol Disord Drug Targets*. 2013 Jun;12(4):507-11. doi: 10.2174/1871527311312040010.
281. Sacchetti C, Motamedchaboki K, Magrini A, Palmieri G, Mattei M, Bernardini S, Rosato N, Bottini N, Bottini M. Surface polyethylene glycol conformation influences the protein corona of polyethylene glycol-modified single-walled carbon nanotubes: potential implications on biological performance. *ACS Nano*. 2013 Mar 26;7(3):1974-89. doi: 10.1021/nn400409h.
282. Croce N, Gelfo F, Ciotti MT, Federici G, Caltagirone C, Bernardini S, Angelucci F. NPY modulates miR-30a-5p and BDNF in opposite direction in an in vitro model of Alzheimer disease: a possible role in neuroprotection? *Mol Cell Biochem*. 2013 Apr;376(1-2):189-95. doi: 10.1007/s11010-013-1567-0.
283. Formosa A, Lena AM, Markert EK, Cortelli S, Miano R, Mauriello A, Croce N, Vandesompele J, Mestdagh P, Finazzi-Agrò E, Levine AJ, Melino G, Bernardini S, Candi E. DNA methylation silences miR-132 in prostate cancer. *Oncogene*. 2013 Jan 3;32(1):127-34. doi: 10.1038/onc.2012.14.
284. Angeletti S, Battistoni F, Fioravanti M, Bernardini S, Dicuonzo G. Procalcitonin and mid-regional pro-adrenomedullin test combination in sepsis diagnosis. *Clin Chem Lab Med*. 2013 May;51(5):1059-67. doi: 10.1515/cclm-2012-0595.
285. Lettieri Barbato D, Aquilano K, Baldelli S, Cannata SM, Bernardini S, Rotilio G, Ciriolo MR. Proline oxidase-adipose triglyceride lipase pathway restrains adipose cell death and tissue inflammation. *Cell Death Differ*. 2014 Jan;21(1):113-23. doi: 10.1038/cdd.2013.137.
286. Spalletta G, Piras F, Gravina P, Bello ML, Bernardini S, Caltagirone C. Glutathione S-transferase alpha 1 risk polymorphism and increased bilateral thalamus mean diffusivity in schizophrenia. *Psychiatry Res*. 2012 Aug-Sep;203(2-3):180-3. doi: 10.1016/j.psychres.2011.12.016.
287. Sirolli V, Rossi C, Di Castelnuovo A, Felaco P, Amoroso L, Zucchelli M, Ciavardelli D, Di Ilio C, Sacchetta P, Bernardini S, Arduini A, Bonomini M, Urbani A. Toward personalized hemodialysis by low molecular weight amino-containing compounds: future perspective of patient metabolic fingerprint. *Blood Transfus*. 2012 May;10 Suppl 2(Suppl 2):s78-88. doi: 10.2450/2012.012S.

288. Urbani A, Sirolli V, Lupisella S, Levi-Mortera S, Pavone B, Pieroni L, Amoroso L, Di Vito R, Bucci S, Bernardini S, Sacchetta P, Bonomini M. Proteomic investigations on the effect of different membrane materials on blood protein adsorption during haemodialysis. *Blood Transfus.* 2012 May;10 Suppl 2(Suppl 2):s101-12. doi: 10.2450/2012.014S.
289. Croce N, Ciotti MT, Gelfo F, Cortelli S, Federici G, Caltagirone C, Bernardini S, Angelucci F. Neuropeptide Y protects rat cortical neurons against β -amyloid toxicity and re-establishes synthesis and release of nerve growth factor. *ACS Chem Neurosci.* 2012 Apr 18;3(4):312-8. doi: 10.1021/cn200127e.
290. Sancesario GM, Cencioni MT, Esposito Z, Borsellino G, Nuccetelli M, Martorana A, Battistini L, Sorge R, Spalletta G, Ferrazzoli D, Bernardi G, Bernardini S, Sancesario G. The load of amyloid- β oligomers is decreased in the cerebrospinal fluid of Alzheimer's disease patients. *J Alzheimers Dis.* 2012;31(4):865-78. doi: 10.3233/JAD-2012-120211.
291. Gelfo F, Tirassa P, De Bartolo P, Croce N, Bernardini S, Caltagirone C, Petrosini L, Angelucci F. NPY intraperitoneal injections produce antidepressant-like effects and downregulate BDNF in the rat hypothalamus. *CNS Neurosci Ther.* 2012 Jun;18(6):487-92. doi: 10.1111/j.1755-5949.2012.00314.x.
292. Martorana A, Sancesario GM, Esposito Z, Nuccetelli M, Sorge R, Formosa A, Dinallo V, Bernardi G, Bernardini S, Sancesario G. Plasmin system of Alzheimer's disease patients: CSF analysis. *J Neural Transm (Vienna).* 2012 Jul;119(7):763-9. doi: 10.1007/s00702-012-0778-y.
293. Martorana A, Esposito Z, Di Lorenzo F, Giacobbe V, Sancesario GM, Bucci G, Bonni S, Bernardini S, Sorge R, Sancesario G, Bernardi G, Caltagirone C, Koch G. Cerebrospinal fluid levels of A β 42 relationship with cholinergic cortical activity in Alzheimer's disease patients. *J Neural Transm (Vienna).* 2012 Jul;119(7):771-8. doi: 10.1007/s00702-012-0780-4.
294. D'Aguzzo S, D'Agnano I, De Canio M, Rossi C, Bernardini S, Federici G, Urbani A. Shotgun proteomics and network analysis of neuroblastoma cell lines treated with curcumin. *Mol Biosyst.* 2012 Apr;8(4):1068-77. doi: 10.1039/c2mb05498a.
295. Adornetto G, Volpe G, De Stefano A, Martini S, Gallucci G, Manzoni A, Bernardini S, Mascini M, Moscone D. An ELIME assay for the rapid diagnosis of coeliac disease. *Anal Bioanal Chem.* 2012 May;403(4):1191-4. doi: 10.1007/s00216-011-5702-z.
296. Monteleone G, Fantini MC, Onali S, Zorzi F, Sancesario G, Bernardini S, Calabrese E, Viti F, Monteleone I, Biancone L, Pallone F. Phase I clinical trial of Smad7 knockdown using antisense oligonucleotide in patients with

active Crohn's disease. *Mol Ther.* 2012 Apr;20(4):870-6. doi: 10.1038/mt.2011.290.

297. D'Alessandro A, D'Aguanno S, Cencioni MT, Pieroni L, Diamantini A, Battistini L, Longone P, Spalloni A, De Laurenzi V, Bernardini S, Federici G, Urbani A.J Protein repertoire impact of Ubiquitin-Proteasome System impairment: insight into the protective role of beta-estradiol. *Proteomics.* 2012 Feb 2;75(4):1440-53. doi: 10.1016/j.jprot.2011.11.014.
298. Kalimutho M, Minutolo A, Grelli S, Federici G, Bernardini S. Platinum-(IV)-derivative satraplatin induced G2/M cell cycle perturbation via p53-p21(waf1/cip1)-independent pathway in human colorectal cancer cells. *Acta Pharmacol Sin.* 2011 Nov;32(11):1387-96. doi: 10.1038/aps.2011.107.
299. Formosa A, Piro MC, Docimo R, Maturo P, Sollecito DR, Kalimutho M, Sancesario G, Barlattani A, Melino G, Candi E, Bernardini S. Salivary miRNAome profiling uncovers epithelial and proliferative miRNAs with differential expression across dentition stages. *Cell Cycle.* 2011 Oct 1;10(19):3359-68. doi: 10.4161/cc.10.19.17647.
302. Kalimutho M, Del Vecchio Blanco G, Di Cecilia S, Sileri P, Cretella M, Pallone F, Federici G, Bernardini S. Differential expression of miR-144* as a novel fecal-based diagnostic marker for colorectal cancer. *J Gastroenterol.* 2011 Dec;46(12):1391-402. doi: 10.1007/s00535-011-0456-0.
303. Mattsson N, Andreasson U, Persson S, Arai H, Batish SD, Bernardini S, Bocchio-Chiavetto L, Blankenstein MA, Carrillo MC, Chalbot S, Coart E, Chiasserini D, Cutler N, Dahlfors G, Duller S, Fagan AM, Forlenza O, Frisoni GB, Galasko D, Galimberti D, Hampel H, Handberg A, Heneka MT, Herskovits AZ, Herukka SK, Holtzman DM, Humpel C, Hyman BT, Iqbal K, Jucker M, Kaeser SA, Kaiser E, Kapaki E, Kidd D, Klivenyi P, Knudsen CS, Kummer MP, Lui J, Lladó A, Lewczuk P, Li QX, Martins R, Masters C, McAuliffe J, Mercken M, Moghekar A, Molinuevo JL, Montine TJ, Nowatzke W, O'Brien R, Otto M, Paraskevas GP, Parnetti L, Petersen RC, Prvulovic D, de Reus HP, Rissman RA, Scarpini E, Stefani A, Soininen H, Schröder J, Shaw LM, Skinningsrud A, Skrogstad B, Spreer A, Talib L, Teunissen C, Trojanowski JQ, Tumani H, Umek RM, Van Broeck B, Vanderstichele H, Vecsei L, Verbeek MM, Windisch M, Zhang J, Zetterberg H, Blennow K. The Alzheimer's Association external quality control program for cerebrospinal fluid biomarkers. *Alzheimers Dement.* 2011 Jul;7(4):386-395.e6. doi: 10.1016/j.jalz.2011.05.2243.
304. Rossi S, Mancino R, Bergami A, Mori F, Castelli M, De Chiara V, Studer V, Mataluni G, Sancesario G, Parisi V, Kusayanagi H, Bernardi G, Nucci C, Bernardini S, Martino G, Furlan R, Centonze D. Potential role of IL-13 in neuroprotection and cortical excitability regulation in multiple sclerosis. *Mult Scler.* 2011 Nov;17(11):1301-12. doi: 10.1177/1352458511410342.
305. Kalimutho M, Di Cecilia S, Del Vecchio Blanco G, Roviello F, Sileri P, Cretella M, Formosa A, Corso G, Marrelli D, Pallone F, Federici G, Bernardini S. Epigenetically silenced miR-34b/c as a novel faecal-based screening marker

- for colorectal cancer. *Br J Cancer*. 2011 May 24;104(11):1770-8. doi: 10.1038/bjc.2011.82.
306. Viticchiè G, Lena AM, Latina A, Formosa A, Gregersen LH, Lund AH, Bernardini S, Mauriello A, Miano R, Spagnoli LG, Knight RA, Candi E, Melino G. MiR-203 controls proliferation, migration and invasive potential of prostate cancer cell lines. *Cell Cycle*. 2011 Apr 1;10(7):1121-31. doi: 10.4161/cc.10.7.15180.
 307. Croce N, Dinallo V, Ricci V, Federici G, Caltagirone C, Bernardini S, Angelucci F. Neuroprotective effect of neuropeptide Y against β -amyloid 25-35 toxicity in SH-SY5Y neuroblastoma cells is associated with increased neurotrophin production. *Neurodegener Dis*. 2011;8(5):300-9. doi: 10.1159/000323468.
 308. Cerasa A, Quattrone A, Gioia MC, Magariello A, Muglia M, Assogna F, Bernardini S, Caltagirone C, Bossù P, Spalletta G. MAO A VNTR polymorphism and amygdala volume in healthy subjects. *Psychiatry Res*. 2011 Feb 28;191(2):87-91. doi: 10.1016/j.psychresns.2010.11.002.
 309. Kalimutho M, Del Vecchio Blanco G, Cretella M, Mannisi E, Sileri P, Formosa A, Pallone F, Federici G, Bernardini S. A simplified, non-invasive fecal-based DNA integrity assay and iFOBT for colorectal cancer detection. *Int J Colorectal Dis*. 2011 May;26(5):583-92. doi: 10.1007/s00384-010-1128-x.
 310. Angelucci F, Croce N, Spalletta G, Dinallo V, Gravina P, Bossù P, Federici G, Caltagirone C, Bernardini S. Paroxetine rapidly modulates the expression of brain-derived neurotrophic factor mRNA and protein in a human glioblastoma-astrocytoma cell line. *Pharmacology*. 2011;87(1-2):5-10. doi: 10.1159/000322528.
 311. Ticconi C, Mancinelli F, Gravina P, Federici G, Piccione E, Bernardini S. Beta-fibrinogen G-455A polymorphisms and recurrent miscarriage. *Gynecol Obstet Invest*. 2011;71(3):198-201. doi: 10.1159/000317522.
 312. Rossi S, Buttari F, Studer V, Motta C, Gravina P, Castelli M, Mantovani V, De Chiara V, Musella A, Fiore S, Masini S, Bernardi G, Maccarrone M, Bernardini S, Centonze D. The (AAT)_n repeat of the cannabinoid CB1 receptor gene influences disease progression in relapsing multiple sclerosis. *Mult Scler*. 2011 Mar;17(3):281-8. doi: 10.1177/1352458510388680.
 313. D'Aguzzo S, D'Alessandro A, Pieroni L, Roveri A, Zaccarin M, Marzano V, De Canio M, Bernardini S, Federici G, Urbani A. New insights into neuroblastoma cisplatin resistance: a comparative proteomic and meta-mining investigation. *J Proteome Res*. 2011 Feb 4;10(2):416-28. doi: 10.1021/pr100457n.
 314. Gravina P, Spoletini I, Masini S, Valentini A, Vanni D, Paladini E, Bossù P, Caltagirone C, Federici G, Spalletta G, Bernardini S. Genetic polymorphisms of glutathione S-transferases GSTM1, GSTT1, GSTP1 and GSTA1 as risk

factors for schizophrenia. *Psychiatry Res.* 2011 May 30;187(3):454-6. doi: 10.1016/j.psychres.2010.10.008.

315. Ricci V, Pomponi M, Martinotti G, Bentivoglio A, Loria G, Bernardini S, Caltagirone C, Bria P, Angelucci F. Antidepressant treatment restores brain-derived neurotrophic factor serum levels and ameliorates motor function in Parkinson disease patients. *J Clin Psychopharmacol.* 2010 Dec;30(6):751-3. doi: 10.1097/JCP.0b013e3181fc2ec7.
316. Mori F, Rossi S, Sancesario G, Codecà C, Mataluni G, Monteleone F, Buttari F, Kusayanagi H, Castelli M, Motta C, Studer V, Bernardi G, Koch G, Bernardini S, Centonze D. Cognitive and cortical plasticity deficits correlate with altered amyloid- β CSF levels in multiple sclerosis. *Neuropsychopharmacology.* 2011 Feb;36(3):559-68. doi: 10.1038/npp.2010.187.
317. Donohoe G, Rose E, Frodl T, Morris D, Spoletini I, Adriano F, Bernardini S, Caltagirone C, Bossù P, Gill M, Corvin AP, Spalletta G. ZNF804A risk allele is associated with relatively intact gray matter volume in patients with schizophrenia. *Neuroimage.* 2011 Feb 1;54(3):2132-7. doi: 10.1016/j.neuroimage.2010.09.089.
318. D'Aguanno S, Franciotta D, Lupisella S, Barassi A, Pieragostino D, Lugaresi A, Centonze D, D'Eril GM, Bernardini S, Federici G, Urbani A. Protein profiling of Guillain-Barré syndrome cerebrospinal fluid by two-dimensional electrophoresis and mass spectrometry. *Neurosci Lett.* 2010 Nov 12;485(1):49-54. doi: 10.1016/j.neulet.2010.08.060.
319. Kalimutho M, Minutolo A, Grelli S, Formosa A, Sancesario G, Valentini A, Federici G, Bernardini S. Satraplatin (JM-216) mediates G2/M cell cycle arrest and potentiates apoptosis via multiple death pathways in colorectal cancer cells thus overcoming platinum chemo-resistance. *Cancer Chemother Pharmacol.* 2011 Jun;67(6):1299-312. doi: 10.1007/s00280-010-1428-4.
320. Sayan BS, Yang AL, Conforti F, Tucci P, Piro MC, Browne GJ, Agostini M, Bernardini S, Knight RA, Mak TW, Melino G. Differential control of TAp73 and DeltaNp73 protein stability by the ring finger ubiquitin ligase PIR2. *Proc Natl Acad Sci U S A.* 2010 Jul 20;107(29):12877-82. doi: 10.1073/pnas.0911828107.
321. Kalimutho M, Blanco Gdel V, Gravina P, Cretella M, Mannucci L, Mannisi E, Formosa A, Pallone F, Federici G, Bernardini S. Quantitative denaturing high performance liquid chromatography (Q-dHPLC) detection of APC long DNA in faeces from patients with colorectal cancer. *Clin Chem Lab Med.* 2010 Sep;48(9):1303-11. doi: 10.1515/CCLM.2010.245.
322. Ticconi C, Rotondi F, Veglia M, Pietropolli A, Bernardini S, Ria F, Caruso A, Di Simone N. Antinuclear autoantibodies in women with recurrent pregnancy loss. *Am J Reprod Immunol.* 2010 Dec;64(6):384-92. doi: 10.1111/j.1600-0897.2010.00863.x.

323. Liguori PF, Valentini A, Palma M, Bellusci A, Bernardini S, Ghedini M, Panno ML, Pettinari C, Marchetti F, Crispini A, Pucci D. Non-classical anticancer agents: synthesis and biological evaluation of zinc(II) heteroleptic complexes. *Dalton Trans.* 2010 May 7;39(17):4205-12. doi: 10.1039/b922101h.
324. Gaziev J, Nguyen L, Puozzo C, Mozzi AF, Casella M, Perrone Donnorso M, Gravina P, Sodani P, Marziali M, Isgrò A, Simone MD, Andreani M, Formosa A, Testi M, Federici G, Bernardini S, Lucarelli G. Novel pharmacokinetic behavior of intravenous busulfan in children with thalassemia undergoing hematopoietic stem cell transplantation: a prospective evaluation of pharmacokinetic and pharmacodynamic profile with therapeutic drug monitoring. *Blood.* 2010 Jun 3;115(22):4597-604. doi: 10.1182/blood-2010-01-265405.
325. Fusco FR, Pompa A, Bernardi G, Ottaviani F, Giampà C, Laurenti D, Morello M, Bernardini S, Nuccetelli M, Sabatini U, Paolucci S. A case of PANDAS treated with tetrabenazine and tonsillectomy. *J Child Neurol.* 2010 May;25(5):614-5. doi: 10.1177/0883073809355824.
326. Sayan BS, Yang AL, Conforti F, Bernardini S, Tucci P, Vasa-Nicotera M, Knight RA, Melino G. Induction of TAp63 by histone deacetylase inhibitors. *Biochem Biophys Res Commun.* 2010 Jan 22;391(4):1748-51. doi: 10.1016/j.bbrc.2009.12.147.
327. Gravina P, Angelini F, Chianca M, Valentini A, Bellincampi L, Iannini R, Pierantozzi A, Moschese V, Mrak E, Federici G, Chini L, Bernardini S. GSTP1*B allele increases the risk for asthma in children. *Clin Chem Lab Med.* 2009;47(11):1451-3. doi: 10.1515/CCLM.2009.314.
328. Sancesario GM, Esposito Z, Nuccetelli M, Bernardini S, Sorge R, Martorana A, Federici G, Bernardi G, Sancesario G. Abeta1-42 Detection in CSF of Alzheimer's disease is influenced by temperature: indication of reversible Abeta1-42 aggregation? *Exp Neurol.* 2010 Jun;223(2):371-6. doi: 10.1016/j.expneurol.2009.07.028.
329. Spalletta G, Morris DW, Angelucci F, Rubino IA, Spoletini I, Bria P, Martinotti G, Siracusano A, Bonaviri G, Bernardini S, Caltagirone C, Bossù P, Donohoe G, Gill M, Corvin AP. BDNF Val66Met polymorphism is associated with aggressive behavior in schizophrenia. *Eur Psychiatry.* 2010 Oct;25(6):311-3. doi: 10.1016/j.eurpsy.2009.10.008.
330. De Canio M, D'Aguzzo S, Sacchetti C, Petrucci F, Cavagni G, Nuccetelli M, Federici G, Urbani A, Bernardini S. Novel IgE recognized components of *Lolium perenne* pollen extract: comparative proteomics evaluation of allergic patients sensitization profiles. *J Proteome Res.* 2009 Sep;8(9):4383-91. doi: 10.1021/pr900315a.
331. Rapanotti MC, Bianchi L, Ricozzi I, Campione E, Pierantozzi A, Orlandi A, Chimenti S, Federici G, Bernardini S. Melanoma-associated markers

expression in blood: MUC-18 is associated with advanced stages in melanoma patients. *Br J Dermatol*. 2009 Feb;160(2):338-44. doi: 10.1111/j.1365-2133.2008.08929.x.

332. Rivetti di Val Cervo P, Tucci P, Majid A, Lena AM, Agostini M, Bernardini S, Candi E, Cohen G, Nicotera P, Dyer MJ, Melino G. p73, miR106b, miR34a, and Itch in chronic lymphocytic leukemia. *Blood*. 2009 Jun 18;113(25):6498-9; author reply 6499-500. doi: 10.1182/blood-2009-02-203174.
333. Angelucci F, Bernardini S, Gravina P, Bellincampi L, Trequattrini A, Di Iulio F, Vanni D, Federici G, Caltagirone C, Bossù P, Spalletta G. Delusion symptoms and response to antipsychotic treatment are associated with the 5-HT2A receptor polymorphism (102T/C) in Alzheimer's disease: a 3-year follow-up longitudinal study. *J Alzheimers Dis*. 2009;17(1):203-11. doi: 10.3233/JAD-2009-1031.
334. Valentini A, Conforti F, Crispini A, De Martino A, Condello R, Stelitano C, Rotilio G, Ghedini M, Federici G, Bernardini S, Pucci D. Synthesis, oxidant properties, and antitumoral effects of a heteroleptic palladium(II) complex of curcumin on human prostate cancer cells. *J Med Chem*. 2009 Jan 22;52(2):484-91. doi: 10.1021/jm801276a.
335. Pucci D, Bellusci A, Bernardini S, Bloise R, Crispini A, Federici G, Liguori P, Lucas MF, Russo N, Valentini A. Bioactive fragments synergically involved in the design of new generation Pt(II) and Pd(II)-based anticancer compounds. *Dalton Trans*. 2008 Nov 21;(43):5897-904. doi: 10.1039/b808093c.
336. Ciotti M, Marzano V, Giuliani L, Nuccetelli M, D'Aguzzo S, Azzimonti B, Bernardini S, Perno CF, Urbani A, Favalli C, Federici G. Proteomic investigation in A549 lung cell line stably infected by HPV16E6/E7 oncogenes. *Respiration*. 2009;77(4):427-39. doi: 10.1159/000176209.
337. Bernardini S, Gravina P, Croce N, Perricone R, Knight RA, Valentini A, Melino G, Federici G. Itch gene polymorphisms in healthy population and in patients affected by rheumatoid arthritis and atopic dermatitis. *Cell Cycle*. 2008 Nov 15;7(22):3607-9. doi: 10.4161/cc.7.22.6968.
338. Primavera A, Fustinoni S, Biroccio A, Ballerini S, Urbani A, Bernardini S, Federici G, Capucci E, Manno M, Lo Bello M. Glutathione transferases and glutathionylated hemoglobin in workers exposed to low doses of 1,3-butadiene. *Cancer Epidemiol Biomarkers Prev*. 2008 Nov;17(11):3004-12. doi: 10.1158/1055-9965.EPI-08-0443.
339. Masini S, Ticconi C, Gravina P, Tomassini M, Pietropolli A, Forte V, Federici G, Piccione E, Bernardini S. Thrombin-activatable fibrinolysis inhibitor polymorphisms and recurrent pregnancy loss. *Fertil Steril*. 2009 Aug;92(2):694-702. doi: 10.1016/j.fertnstert.2008.07.015.

340. Federici G, Bernardini S. The new Italian course of post-graduate education in laboratory medicine. *Clin Chim Acta*. 2008 Jul 1;393(1):31-2. doi: 10.1016/j.cca.2008.03.023.
341. Perricone R, Galante V, Bernardini S, Guarino M, Cervelli V. Fillers and biocompatibility: lack of human complement activating capacity. *Plast Reconstr Surg*. 2008 Mar;121(3):154e-155e. doi: 10.1097/01.prs.0000300218.62940.5a.
342. Gravina P, Ciotti M, Masini S, Valentini A, Marcuccilli F, Croce N, Federici G, Perno CF, Bernardini S. Impact of storage conditions on genetic analysis or viral load determination in clinical specimens. *Clin Chem Lab Med*. 2008;46(2):280-2. doi: 10.1515/cclm.2008.038.
343. Valentini A, Bernardini S. Editorial comment on: ADAM9 expression is a significant and independent prognostic marker of PSA relapse in prostate cancer. *Eur Urol*. 2008 Nov;54(5):1106-7. doi: 10.1016/j.eururo.2007.11.035.
344. D'Aguanno S, Barassi A, Lupisella S, d'eril GM, Del Boccio P, Pieragostino D, Pallotti F, Carelli V, Valentino ML, Liguori R, Avoni P, Bernardini S, Gambi D, Urbani A, Federici G. Differential cerebro spinal fluid proteome investigation of Leber hereditary optic neuropathy (LHON) and multiple sclerosis. *J Neuroimmunol*. 2008 Jan;193(1-2):156-60. doi: 10.1016/j.jneuroim.2007.10.004.
345. Bossù P, Ciaramella A, Salani F, Bizzoni F, Varsi E, Di Iulio F, Giubilei F, Gianni W, Trequattrini A, Moro ML, Bernardini S, Caltagirone C, Spalletta G. Interleukin-18 produced by peripheral blood cells is increased in Alzheimer's disease and correlates with cognitive impairment. *Brain Behav Immun*. 2008 May;22(4):487-92. doi: 10.1016/j.bbi.2007.10.001.
346. Spalletta G, Bernardini S, Bellincampi L, Federici G, Trequattrini A, Ciappi F, Bria P, Caltagirone C, Bossù P. Glutathione S-transferase P1 and T1 gene polymorphisms predict longitudinal course and age at onset of Alzheimer disease. *Am J Geriatr Psychiatry*. 2007 Oct;15(10):879-87. doi: 10.1097/JGP.0b013e3180547076.PMID: 17911365
347. Biancolella M, Valentini A, Minella D, Vecchione L, D'Amico F, Chillemi G, Gravina P, Bueno S, Prosperini G, Desideri A, Federici G, Bernardini S, Novelli G. Effects of dutasteride on the expression of genes related to androgen metabolism and related pathway in human prostate cancer cell lines. *Invest New Drugs*. 2007 Oct;25(5):491-7. doi: 10.1007/s10637-007-9070-7.
348. Centonze D, Bari M, Rossi S, Prosperetti C, Furlan R, Fezza F, De Chiara V, Battistini L, Bernardi G, Bernardini S, Martino G, Maccarrone M. The endocannabinoid system is dysregulated in multiple sclerosis and in experimental autoimmune encephalomyelitis. *Brain*. 2007 Oct;130(Pt 10):2543-53. doi: 10.1093/brain/awm160.
349. Pucci D, Bloise R, Bellusci A, Bernardini S, Ghedini M, Pirillo S, Valentini A, Crispini A. Curcumin and cyclopalladated complexes: a recipe for

- bifunctional biomaterials. *J Inorg Biochem.* 2007 Jul;101(7):1013-22. doi: 10.1016/j.jinorgbio.2007.03.006.
350. D'Aguanno S, Del Boccio P, Bernardini S, Ballone E, Di Ilio C, Federici G, Urbani A. Electrophoretic separations of cerebrospinal fluid proteins in clinical investigations. *Clin Chem Lab Med.* 2007;45(4):437-49. doi: 10.1515/CCLM.2007.106.
351. Valentini A, Biancolella M, Amati F, Gravina P, Miano R, Chillemi G, Farcomeni A, Bueno S, Vespasiani G, Desideri A, Federici G, Novelli G, Bernardini S. Valproic acid induces neuroendocrine differentiation and UGT2B7 up-regulation in human prostate carcinoma cell line. *Drug Metab Dispos.* 2007 Jun;35(6):968-72. doi: 10.1124/dmd.107.014662.
352. Bossù P, Ciaramella A, Moro ML, Bellincampi L, Bernardini S, Federici G, Trequattrini A, Macciardi F, Spoletini I, Di Iulio F, Caltagirone C, Spalletta G. Interleukin 18 gene polymorphisms predict risk and outcome of Alzheimer's disease. *J Neurol Neurosurg Psychiatry.* 2007 Aug;78(8):807-11. doi: 10.1136/jnnp.2006.103242.
353. Valentini A, Gravina P, Federici G, Bernardini S. Valproic acid induces apoptosis, p16INK4A upregulation and sensitization to chemotherapy in human melanoma cells. *Cancer Biol Ther.* 2007 Feb;6(2):185-91. doi: 10.4161/cbt.6.2.3578.
354. Stefani A, Martorana A, Bernardini S, Panella M, Mercati F, Orlacchio A, Pierantozzi M. CSF markers in Alzheimer disease patients are not related to the different degree of cognitive impairment. *J Neurol Sci.* 2006 Dec 21;251(1-2):124-8. doi: 10.1016/j.jns.2006.09.014.
355. Angelucci A, Valentini A, Millimaggi D, Gravina GL, Miano R, Dolo V, Vicentini C, Bologna M, Federici G, Bernardini S. Valproic acid induces apoptosis in prostate carcinoma cell lines by activation of multiple death pathways. *Anticancer Drugs.* 2006 Nov;17(10):1141-50. doi: 10.1097/01.cad.0000236302.89843.fc.
356. Del Boccio P, Pieragostino D, Lugaresi A, Di Ioia M, Pavone B, Travaglini D, D'Aguanno S, Bernardini S, Sacchetta P, Federici G, Di Ilio C, Gambi D, Urbani A. Cleavage of cystatin C is not associated with multiple sclerosis. *Ann Neurol.* 2007 Aug;62(2):201-4; discussion 205. doi: 10.1002/ana.20968.
357. Valentini A, Pucci D, Crispini A, Federici G, Bernardini S. Acridine Orange based platinum(II) complexes inducing cytotoxicity and cell cycle perturbation in spite of GSTP1 up-regulation. *Chem Biol Interact.* 2006 Jul 10;161(3):241-50. doi: 10.1016/j.cbi.2006.03.011.
358. Bernardini S, Nuccetelli M, Noguera NI, Bellincampi L, Lunghi P, Bonati A, Mann K, Miller WH Jr, Federici G, Lo Coco F. Role of GSTP1-1 in mediating

the effect of As₂O₃ in the Acute Promyelocytic Leukemia cell line NB4. *Ann Hematol.* 2006 Oct;85(10):681-7. doi: 10.1007/s00277-006-0139-8.

359. Biroccio A, Del Boccio P, Panella M, Bernardini S, Di Ilio C, Gambi D, Stanzone P, Sacchetta P, Bernardi G, Martorana A, Federici G, Stefani A, Urbani A. Differential post-translational modifications of transthyretin in Alzheimer's disease: a study of the cerebral spinal fluid. *Proteomics.* 2006 Apr;6(7):2305-13. doi: 10.1002/pmic.200500285.
360. Monteleone G, Del Vecchio Blanco G, Monteleone I, Fina D, Caruso R, Gioia V, Ballerini S, Federici G, Bernardini S, Pallone F, MacDonald TT. Post-transcriptional regulation of Smad7 in the gut of patients with inflammatory bowel disease. *Gastroenterology.* 2005 Nov;129(5):1420-9. doi: 10.1053/j.gastro.2005.09.005.
361. Carnicer MJ, Bernardini S, Bellincampi L, Noguera NI, Nuccetelli M, Ammatuna E, Breccia M, Lo-Coco F, Federici G. Role of gamma-glutamyl cysteine synthetase (gamma-GCS) gene expression as marker of drug sensitivity in acute myeloid leukemias. *Clin Chim Acta.* 2006 Mar;365(1-2):342-5. doi: 10.1016/j.cca.2005.09.012.
362. Spalletta G, Bernardini S, Bellincampi L, Federici G, Trequattrini A, Caltagirone C. Delusion symptoms are associated with ApoE epsilon4 allelic variant at the early stage of Alzheimer's disease with late onset. *Eur J Neurol.* 2006 Feb;13(2):176-82. doi: 10.1111/j.1468-1331.2006.01165.x.
363. Stefani A, Bernardini S, Panella M, Pierantozzi M, Nuccetelli M, Koch G, Urbani A, Giordano A, Martorana A, Orlacchio A, Federici G, Bernardi G. AD with subcortical white matter lesions and vascular dementia: CSF markers for differential diagnosis. *J Neurol Sci.* 2005 Oct 15;237(1-2):83-8. doi: 10.1016/j.jns.2005.05.016.
364. Rapanotti MC, Caruso R, Bernardini S, Coletti V, Lo-Coco F, De Rossi G. Idiopathic hypereosinophilic syndrome: a case evolving in B-lymphoblastic lymphoma. *Leuk Res.* 2005 Aug;29(8):975-9. doi: 10.1016/j.leukres.2005.01.010.
365. Poland J, Wandschneider S, Urbani A, Bernardini S, Federici G, Sinha P. Use of proteomics to study chemosensitivity. *Methods Mol Med.* 2005;111:267-81. doi: 10.1385/1-59259-889-7:267.
366. Bernardini S, Bellincampi L, Ballerini S, Federici G, Iori R, Trequattrini A, Ciappi F, Baldinetti F, Bossù P, Caltagirone C, Spalletta G. Glutathione S-transferase P1 *C allelic variant increases susceptibility for late-onset Alzheimer disease: association study and relationship with apolipoprotein E epsilon4 allele. *Clin Chem.* 2005 Jun;51(6):944-51. doi: 10.1373/clinchem.2004.045955.

367. Marfia GA, Pachatz C, Terracciano C, Leone G, Bernardini S, Bernardi G, Massa R. Subacute demyelinating polyneuropathy in B-cell lymphoma with IgM antibodies against glycolipid GD1b. *Neurol Sci.* 2005 Dec;26(5):355-7. doi: 10.1007/s10072-005-0500-z.
368. Urbani A, Poland J, Bernardini S, Bellincampi L, Biroccio A, Schnölzer M, Sinha P, Federici G. A proteomic investigation into etoposide chemoresistance of neuroblastoma cell lines. *Proteomics.* 2005 Feb;5(3):796-804. doi: 10.1002/pmic.200401147.
369. Biroccio A, Urbani A, Massoud R, di Ilio C, Sacchetta P, Bernardini S, Cortese C, Federici G. A quantitative method for the analysis of glycosylated and glutathionylated hemoglobin by matrix-assisted laser desorption/ionization-time of flight mass spectrometry. *Anal Biochem.* 2005 Jan 15;336(2):279-88. doi: 10.1016/j.ab.2004.10.002.
370. Bernardini S, Infantino M, Bellincampi L, Nuccetelli M, Afeltra A, Lori R, Biroccio A, Urbani A, Federici G. Screening of antinuclear antibodies: comparison between enzyme immunoassay based on nuclear homogenates, purified or recombinant antigens and immunofluorescence assay. *Clin Chem Lab Med.* 2004;42(10):1155-60. doi: 10.1515/CCLM.2004.235.
371. Bernardini S, Miano R, Iori R, Finazzi-Agrò E, Palmieri G, Ballerini S, Angeloni C, Orlandi A, Bellincampi L, Cortese C, Federici G. Hypermethylation of the CpG islands in the promoter region of the GSTP1 gene in prostate cancer: a useful diagnostic and prognostic marker? *Clin Chim Acta.* 2004 Dec;350(1-2):181-8. doi: 10.1016/j.cccn.2004.07.022.
372. Tacconi S, Perri R, Balestrieri E, Grelli S, Bernardini S, Annichiarico R, Mastino A, Caltagirone C, Macchi B. Increased caspase activation in peripheral blood mononuclear cells of patients with Alzheimer's disease. *Exp Neurol.* 2004 Nov;190(1):254-62. doi: 10.1016/j.expneurol.2004.07.009.
373. Tagliacozzi D, Mozzi AF, Casetta B, Bertucci P, Bernardini S, Di Ilio C, Urbani A, Federici G. Quantitative analysis of bile acids in human plasma by liquid chromatography-electrospray tandem mass spectrometry: a simple and rapid one-step method. *Clin Chem Lab Med.* 2003 Dec;41(12):1633-41. doi: 10.1515/CCLM.2003.247.
374. Ballerini S, Bellincampi L, Bernardini S, Iori R, Cortese C, Federici G. Analysis of GSTP1-1 polymorphism using real-time polymerase chain reaction. *Clin Chim Acta.* 2003 Mar;329(1-2):127-32. doi: 10.1016/s0009-8981(02)00422-9.
375. Gnasso A, Motti C, Irace C, Di Gennaro I, Pujia A, Leto E, Ciamei M, Crivaro A, Bernardini S, Federici G, Cortese C. The Arg allele in position 192 of PON1 is associated with carotid atherosclerosis in subjects with elevated HDLs. *Atherosclerosis.* 2002 Oct;164(2):289-95. doi: 10.1016/s0021-9150(02)00070-9.

376. Ballerini S, Bellincampi L, Bernardini S, Casciani S, Motti C, Cortese C, Federici G. Apolipoprotein E genotyping: a comparative study between restriction endonuclease mapping and allelic discrimination with the LightCycler. *Clin Chim Acta*. 2002 Mar;317(1-2):71-6. doi: 10.1016/s0009-8981(01)00769-0.
377. Bernardini S, Bellincampi L, Ballerini S, Ranalli M, Pastore A, Cortese C, Federici G. Role of GST P1-1 in mediating the effect of etoposide on human neuroblastoma cell line Sh-Sy5y. *J Cell Biochem*. 2002;86(2):340-7. doi: 10.1002/jcb.10219.
378. Tozzi G, Nuccetelli M, Lo Bello M, Bernardini S, Bellincampi L, Ballerini S, Gaeta LM, Casali C, Pastore A, Federici G, Bertini E, Piemonte F. Antioxidant enzymes in blood of patients with Friedreich's ataxia. *Arch Dis Child*. 2002 May;86(5):376-9. doi: 10.1136/adc.86.5.376.
379. Bellincampi L, Ballerini S, Bernardini S, Inserra A, Marchetti P, Boglino C, Donfrancesco A, Federici G. Glutathione transferase P1 polymorphism in neuroblastoma studied by endonuclease restriction mapping. *Clin Chem Lab Med*. 2001 Sep;39(9):830-5. doi: 10.1515/CCLM.2001.138.
380. Motti C, Dessì M, Gnasso A, Irace C, Indigeno P, Angelucci CB, Bernardini S, Fucci G, Federici G, Cortese C. A multiplex PCR-based DNA assay for the detection of paraoxonase gene cluster polymorphisms. *Atherosclerosis*. 2001 Sep;158(1):35-40. doi: 10.1016/s0021-9150(00)00765-6.
381. Bernardini S, Bernassola F, Cortese C, Ballerini S, Melino G, Motti C, Bellincampi L, Iori R, Federici G. Modulation of GST P1-1 activity by polymerization during apoptosis. *J Cell Biochem*. 2000 Apr;77(4):645-53. PMID: 10771520.
382. Pastore A, Bernardini S, Dello Strologo L, Rizzoni G, Cortese C, Federici G. Simultaneous determination of inulin and p-aminohippuric acid in plasma and urine by reversed-phase high-performance liquid chromatography. *J Chromatogr B Biomed Sci Appl*. 2001 Feb 10;751(1):187-91. doi: 10.1016/s0378-4347(00)00444-8.
383. Bellincampi L, Simone ML, Motti C, Cortese C, Bernardini S, Bertolini S, Calandra S. Identification of an alternative transcript of ABCA1 gene in different human cell types. *Biochem Biophys Res Commun*. 2001 May 11;283(3):590-7. doi: 10.1006/bbrc.2001.4823.
384. Gnasso A, Motti C, Irace C, Carallo C, Liberatoscioli L, Bernardini S, Massoud R, Mattioli PL, Federici G, Cortese C. Genetic variation in human stromelysin gene promoter and common carotid geometry in healthy male subjects. *Arterioscler Thromb Vasc Biol*. 2000 Jun;20(6):1600-5. doi: 10.1161/01.atv.20.6.1600.

385. Bernardini S, Melino G, Cortese C, Ballerini S, Annicchiarico-Petruzzelli M, Bernassola F, Corazzari M, Federici G. Modulation of glutathione transferase P1-1 activity by retinoic acid in neuroblastoma cells. *J Cell Biochem.* 1999 Dec 1;75(3):375-81. doi: 10.1002/(sici)1097-4644(19991201)75:3<375::aid-jcb3>3.3.co;2-9.
386. Motti C, Gnasso A, Bernardini S, Massoud R, Pastore A, Rampa P, Federici G, Cortese C. Common mutation in methylenetetrahydrofolate reductase. Correlation with homocysteine and other risk factors for vascular disease. *Atherosclerosis.* 1998 Aug;139(2):377-83. doi: 10.1016/s0021-9150(98)00079-3.
387. Melino G, Draoui M, Bellincampi L, Bernassola F, Bernardini S, Piacentini M, Reichert U, Cohen P. Retinoic acid receptors alpha and gamma mediate the induction of "tissue" transglutaminase activity and apoptosis in human neuroblastoma cells. *Exp Cell Res.* 1997 Aug 25;235(1):55-61. doi: 10.1006/excr.1997.3656.
388. Bernardini S, Melino G, Saura F, Annicchiarico-Petruzzelli M, Motti C, Cortese C, Federici G. Expression of co-factors (SMRT and Trip-1) for retinoic acid receptors in human neuroectodermal cell lines. *Biochem Biophys Res Commun.* 1997 May 8;234(1):278-82. doi: 10.1006/bbrc.1997.6626.
389. Melino G, Draoui M, Bernardini S, Bellincampi L, Reichert U, Cohen P. Regulation by retinoic acid of insulin-degrading enzyme and of a related endoprotease in human neuroblastoma cell lines. *Cell Growth Differ.* 1996 Jun;7(6):787-96.
390. Cappa M, Setzu S, Bernardini S, Carta D, Federici G, Grossi A, Loche S. Exogenous growth hormone administration does not inhibit the growth hormone response to hexarelin in normal men. *J Endocrinol Invest.* 1995 Nov;18(10):762-6. doi: 10.1007/BF03349808.
391. Bernardini S, Cianfarani S, Pianca C, Massoud R, Germani D, Federici M, Melino G. Insulin-like growth factor binding protein-1 serum levels in neuroblastoma. *Clinical Chemistry and Enzymology Communications* 1996; 6(6):359-363.
392. Cianfarani S, Vaccaro F, Pasquino AM, Marchione SA, Passeri F, Spadoni GL, Bernardini S, Spagnoli A, Boscherini B. Reduced growth hormone secretion in Turner syndrome: is body weight a key factor? *Horm Res.* 1994;41(1):27-32. doi: 10.1159/000183873.
393. Bernardini S, Cianfarani S, Spagnoli A, Annicchiarico-Petruzzelli M, Melino G, Massoud R, Boscherini B, Finazzi-Agró A, Rosenfeld RG, Federici G. Expression and down-regulation by retinoic acid of IGF binding protein-2 and -4 in medium from human neuroblastoma cells. *J Neuroendocrinol.* 1994 Aug;6(4):409-13. doi: 10.1111/j.1365-2826.1994.tb00601.x

394. Pasquino AM, Bernardini S, Cianfarani S, Mancuso G, Marchione SA, Passèri F, Pucarelli I, Spadoni GL. GH assessment and three years' hGH therapy in girls with Turner syndrome. *Horm Res.* 1992;38(3-4):120-4. doi: 10.1159/000182526.
395. Bernardini S, Spadoni GL, Pòvoa G, Boscherini B, Hall K. Plasma levels of insulin-like growth factor binding protein-1, and growth hormone binding protein activity from birth to the third month of life. *Acta Endocrinol (Copenh).* 1992 Oct;127(4):313-8. doi: 10.1530/acta.0.1270313.
396. Cianfarani S, Holly JM, Pasquino AM, Vaccaro F, Spadoni GL, Bernardini S, Segni M, Boscherini B. Insulin-like growth factor binding protein 1 (IGFBP-1) levels in Turner syndrome. *Horm Metab Res.* 1992 Nov;24(11):537-40. doi: 10.1055/s-2007-1003383.
397. Bernardini S, Spadoni GL, Cianfarani S, Vaccaro F, Pasquino AM, Boscherini B. Growth Hormone Secretion in Noonan's Syndrome. *J Pediatr Endocr Met* 1991: 4(4): 217-222. doi:10.1515/JPEM.1991.4.4.217.
398. Spadoni GL, Cianfarani S, Bernardini S, Vaccaro F, Galasso C, Boscherini B. How far should indications for growth hormone expand? *Lancet.* 1990 Jun 2;335(8701):1351. doi: 10.1016/0140-6736(90)91236-4.
399. Spadoni GL, Cianfarani S, Bernardini S, Fabrizio V, Galasso C, Boscherini B. Growth hormone treatment in children with sporadic primary microcephaly. *Am J Dis Child.* 1989 Nov;143(11):1282-3. doi: 10.1001/archpedi.1989.02150230040019.
400. Spadoni GL, Cianfarani S, Bernardini S, Vaccaro F, Galasso C, Manca Bitti ML, Costa F, Boscherini B. Twelve-hour spontaneous nocturnal growth hormone secretion in growth retarded patients. *Clin Pediatr (Phila).* 1988 Oct;27(10):473-8. doi: 10.1177/000992288802701002.

i. H index: 60

ii. Citations: 14457

Rome, May 25th , 2025

F.to Prof. Sergio Bernardini

Riproduzione in formato privacy del documento originale depositato agli atti.