
Andrea Venerando: Curriculum Vitae

Personal Information

Name: Andrea Venerando

Date and Place of birth: 25/06/1978, Venezia (VE), Italy

E-mail: andrea.venerando@uniud.it

Orcid: <https://orcid.org/0000-0003-0379-2309>

Education

2017: 31st March, National Scientific Qualification (ASN) for the sector 05/E1 (General Biochemistry, SSD BIO/10) for Associate Professor.

2010: PhD, Biochemistry and Biotechnologies (Biochemistry and Biophysics), Department of Biological Chemistry, University of Padova, Italy.

2005: Degree (laurea vecchio ordinamento) in Chemistry and Pharmaceutical Techniques at the University of Padova, Italy.

Research Experience

Dec.2022-to date Dept. Agrifood, Environmental and Animal Sciences, University of Udine. Associate professor in Biochemistry (BIO/10);

2022 Dept. Medicine and Surgery, University of Parma. Assistant professor in Biochemistry (BIO/10);

2021-2022 Dept. Comparative Biomedicine and Food Science, University of Padova. Research fellowship;

2018-2021 Dept. Comparative Biomedicine and Food Science, University of Padova. Assistant professor in Biochemistry (BIO/10);

2016-2018 Dept. Biomedical Sciences, University of Padova. Senior post-doc fellowship;

2014-2015 European Institute for the Research of Cystic Fibrosis (IERFC) Fondazione ONLUS, San Raffaele Hospital, Milan. Scientific consultant;

2014-2016 Dept. Biomedical Sciences, University of Padova. Senior post-doc fellowship;

2013-2014 National Research Council (CNR) Neurosciences Institute, Padova, Italy. Post-doc fellowship;

2012-2013 Dept. Biomedical Sciences, University of Padova, Italy. Post-doc fellowship;

2012; 2014	Division of Medical Sciences, University of Dundee, Ninewells Hospital, Dundee, UK. Research Associate and visiting postdoc;
2010-2012	Dept. Biological Chemistry, University of Padova, Italy. Post-doc fellowship;
2006-2009	Venetian Institute of Molecular Medicine, Padova, Italy and Dept. Biological Chemistry, University of Padova, Italy. Research fellowship;
2006	Department of Oncology and Surgical Sciences University of Padova, Italy. Research fellowship;
2005-2006	Venetian Institute of Molecular Medicine, Padova, Italy. Post-graduate internship.

Teaching activities

Lecturer for BIO/10 courses of BSc and MSc Degrees at University of Udine (from 2023-to date).

Lecturer for BIO/10 courses of BSc and MSc Degrees at University of Padova (2018-2023) and University of Parma (2022). **Guest Lecturer** for the MSc Degree in Food Science at Uşak University, Turkey (2021). **Teaching assistant** for BIO/10 courses of BSc and MSc Degrees at University of Padova (2021-2022). **Tutor** for Team based learning teaching activities for the BSc Degree in Sicurezza igienico-sanitaria degli alimenti, University of Padova (2022-2023). Master degree thesis **supervisor** (5 students), **co-supervisor** (1 student), and **opponent** (2 students) for MSc Degree in Biotechnologies for food science, University of Padova (2018-2022). Local **supervisor** (2019) for visiting Erasmus+ PhD student from Birla Institute of Technology (Mesra, India).

Open badges



<https://bestr.it/award/show/fotclp4kQCuN03P-9mAFaQ>

Institutional offices at University

Member of the "Commissione per la Ricerca Scientifica", Dept. Comparative Biomedicine and Food Science, University of Padova, from 2019 to 2021.

Membership of editorial board

2021-2022 guest Associate Editor for Frontiers in Molecular Biosciences (Research Topic: “Casein Kinases in Human Diseases”)

2021-2022 guest Associate Editor for Pharmaceuticals section Pharmacology (Special Issue: “Emerging Therapies for the Treatment of Cystic Fibrosis”)

2022-current guest Associate Editor for Frontiers in Oncology (Research Topic: “Challenges in the prevention of Prostate Cancer”)

2023-current guest Associate Editor for Pharmaceuticals section Pharmacology (Special Issue: “Novel Therapeutic Approaches for Cystic Fibrosis”)

Research interests

The main area of interest has been protein kinases, and in particular protein kinase CK1 and CK2. The main research field regards the study of the molecular and cellular mechanisms regulating by alteration of protein kinases signalling. Other research field has been the identification, development and characterization of new compounds able to affect protein kinases as pharmacological targets. In the last ten years, he has devoted his attention to the Cystic Fibrosis and in particular to protein kinases deregulation in this pathology. He studied the cellular and molecular mechanisms that involve the F508delCFTR mutation, in particular the use of small molecules to regulate its function, stability and trafficking at plasma membrane. Currently, he is studying the use of collagen extracted from sea food waste in regenerative medicine.

Honors and Awards

2019: Winner of “Bando Iniziative di Cooperazione Universitaria anno 2020” funded by University of Padova; Project: “Bioactive compounds delivery from hydrogel embedded iron oxide nanoparticles” in collaboration with Usak University (Turkey);

2015: Winner of “Bando per il conferimento di Assegni di ricerca Senior per il sostegno di ricerche di carattere innovativo e di eccellenza proposte da giovani non strutturati nell’ambito dell’Area Scientifica di Ateneo n. 6 (Bando Senior 2015)” funded by University of Padova. Project title: “A new strategy to correct Cystic Fibrosis basic defect”;

2013: Winner of “Bando Giovani Studiosi per il conferimento di Assegni di ricerca Senior per il sostegno di ricerche di carattere innovativo e di eccellenze proposte da giovani non strutturati nell’ambito dell’Area Scientifica di Ateneo n. 06 Scienze Biologiche (Bando Giovani Studiosi 2013)” funded by University of Padova. Project title: “Functional links between protein kinase CK2 and the Cystic Fibrosis Transmembrane-Conductance Regulator (CFTR) disclose new perspectives in Cystic Fibrosis therapy”;

2012: Selected and funded (Vaincre la Mucoviscidose and Lega Italiana Fibrosi Cistica-ONLUS) for the participation to 6th European CF Young Investigator Meeting (Paris, 24-27 April 2012);

2011: Winner of young researcher fellowship (Società Italiana di Biochimica - SIB funded) for the participation to 36th FEBS Congress (Torino, 25-30 June 2011).

Patent

L. Maiuri, V. Vilella, F. Borella, G. Cozza, A. Venerando “Analogues of cystemine as therapeutic agents for Cystic Fibrosis” European Patent: EP 3656381 A1. International patent, **Inventor**.

Project Funded

- 2020: University of Padova (Bando Iniziative di Cooperazione Universitaria anno 2020, teaching and research activity at Usak University, Turkey) “Bioactive compounds delivery from hydrogel embedded iron oxide nanoparticles”. **Project Leader: Dr. Andrea Venerando**;
- 2015: Università degli Studi di Padova (Bando Senior 2015, 24 months), “A new strategy to correct Cystic Fibrosis basic defect”. **Project Leader: Dr. Andrea Venerando**;
- 2014: Fondazione per la ricerca sulla Fibrosi Cistica – ONLUS (FFC#7/2014, 24 months) “A kinase-directed approach to rescue functionality of F508del CFTR”. **Project Leader: Dr. Andrea Venerando**;
- 2013: Università degli Studi di Padova (Bando Giovani Studiosi 2013, 24 months), “Functional links between protein kinase CK2 and the Cystic Fibrosis Transmembrane-Conductance Regulator (CFTR) disclose new perspectives in Cystic Fibrosis therapy”. **Project Leader: Dr. Andrea Venerando**;

Project participation

- 2021: Fondazione per la ricerca sulla Fibrosi Cistica – ONLUS (FFC#04/2021, 24 months) “Oxidative stress and autophagy in Cystic Fibrosis: Novel biochemical characterizations and drug discovery approaches” (Project Leader: Prof. Giorgio Cozza);
- 2019: University of Padova (COZZ_STARS20_01, 24 months) “F508delCFTR RESCUE”. (Project Leader: Prof. Giorgio Cozza);
- 2019: Fondazione per la ricerca sulla Fibrosi Cistica – ONLUS (FFC#04/2019, 24 months) “Restoring defective proteostasis in Cystic Fibrosis: novel strategies for F508del-CFTR repair” (Project Leader: Prof. Giorgio Cozza);
- 2016/2017: Fondazione per la ricerca sulla Fibrosi Cistica – ONLUS (FFC#10/2016 and FFC#12/2017, tot 24 months) “Modulation of protein kinases in the regulation of chaperone machinery leading F508delCFTR fate” (Project Leader: Prof. Mauro Salvi);
- 2016/2017: Fondazione per la ricerca sulla Fibrosi Cistica – ONLUS (FFC#2/2016 and FFC#10/2017, tot 24 months) “Alternative strategies for F508delCFTR repair: novel targets for drug discovery approach in Cystic Fibrosis” (Project Leader: Dr. Giorgio Cozza);
- 2014: ERA-NET for research programmes on rare diseases (RescueCFTRpreclinic, 36 months) “Cysteamine for the treatment of cystic fibrosis: a translational research project” (Project Leader: Prof. Luigi Maiuri);

- 2013: Fondazione AIRC per la Ricerca sul Cancro (AIRC IG14180, 24 months), “Exploiting tumor addiction to protein kinase CK2 to develop new anti-cancer strategies” (Project Leader: Prof Lorenzo A. Pinna);
- 2011: Fondazione per la ricerca sulla Fibrosi Cistica – ONLUS (FFC#3/2011, 24 months) “Subverted signalling by protein kinase CK2 in Δ F508 CFTR expressing cells. Functional aspects and prospects in therapy” (Project Leader: Prof. Lorenzo A. Pinna);
- 2010: Fondazione AIRC per la Ricerca sul Cancro (AIRC IG10312, 24 months), “Cancer addiction to protein kinase CK2: mechanistic features and therapeutic perspectives” (Project Leader Prof. Lorenzo A. Pinna).

Invited Speaker

- 6th International Conference on Polyamines Biochemical Physiological and Clinical Perspectives, Tivoli, Rome, Italy 4-9 September 2022;
- Dept. Agrifood, Environmental and Animal Science Seminars, University of Udine, Udine, Italy, 5 October 2021;
- Dept. Comparative Biomedicine and Food Science Seminars, University of Padova, Legnaro (PD), Italy, 24 September 2018;
- Dept. Biomedical Sciences Seminars, University of Padova, Padova, Italy, 26 July 2016;
- XIV Convention d’Autunno dei Ricercatori in Fibrosi Cistica, Garda, Italy, 24-26 November 2016;
- XIII Convention d’Autunno dei Ricercatori in Fibrosi Cistica, Garda, Italy, 26-28 November 2015;
- Chairperson: 1st Italian Young Investigator Meeting in Cystic Fibrosis, Rome, Italy, 16-17 January 2015;
- X Convention d’Autunno dei Ricercatori in Fibrosi Cistica, Verona, Italy, Nov. 29 - Dec. 1, 2012
- 6th European CF Young Investigator Meeting, Paris, France, 24-27 April 2012

Poster presentations

- 5th Annual VIMM Retreat, Dec. 1-2, 2006, Bertinoro (FC), Italy
- 52° Congresso Nazionale Società Italiana di Biochimica e Biologia Molecolare (SIB), Sept. 26-28 2007, Riccione (RN), Italy
- 6th Annual VIMM Retreat, Nov. 16-17, 2007, Marostica (VI), Italy
- 21a Riunione Nazionale “A. Castellani” dei Dottorandi di Ricerca in Discipline Biochimiche, Jun. 10-13, 2008, Brallo di Pregola (PV), Italy
- 7th Annual VIMM Retreat, Nov. 21-22, 2008, Bassano (VI), Italy
- 53° Congresso Nazionale della Società Italiana di Biochimica e Biologia Molecolare (SIB), Sept. 23-26 2008, Riccione (RN), Italy
- BioPhD Day, Apr. 3 2009, Padova, Italy
- 6th International Conference Inhibitors of Protein Kinases (IPK-2009) – Insights into Protein Kinases, Jun. 27-Jul. 1, 2009, Warsaw, Poland
- 8th Annual VIMM Retreat, Oct. 23-24, 2009, Marostica (VI), Italy

- 6th International Conference on Protein Kinase CK2 “Protein Kinase CK2 – a catalyst for biology, medicine and structural biochemistry”, Sep. 07-10, 2010, Koln, Germany
- 36th FEBS Congress, Jun. 25-30, 2011, Torino, Italy
- 10th Annual VIMM Retreat, Oct. 21-22, 2011, Marostica (VI), Italy.
- IX Convention d’Autunno dei Ricercatori in Fibrosi Cistica, Dec. 1-3, 2011, Verona, Italy
- 7th International Conference on Protein Kinase CK2, Sept. 10-13, 2013, Lublin, Poland
- 8th International Conference on Protein kinase CK2, Sept. 6-9, 2016, Homburg, Germany

Publications

- (1) Venerando, A.; Bustos, V. H.; Pinna, L. A.; Cozza, G. Editorial: Casein Kinases in Human Diseases. *Frontiers in Molecular Biosciences* **2022**, *9*. <https://doi.org/10.3389/fmolb.2022.1094922>.
- (2) Bergamasco, E.; Peron, G.; Venerando, A.; Polash, S. A.; Shukla, R.; Sut, S.; Dall’Acqua, S.; Masi, A. Investigation of Sulfur-Containing Compounds in Spears of Green and White Asparagus *Officinalis* through LC-MS and HS-GC–MS. *Food Research International* **2022**, *162*, 111992. <https://doi.org/10.1016/j.foodres.2022.111992>.
- (3) Rilievo, G.; Cecconello, A.; Molinari, S.; Venerando, A.; Rutigliano, L.; Govardhan, G. T.; Kariyawasam, D. H.; Arusei, R. J.; Zennaro, L.; Paolo, M. L. D.; Agostinelli, E.; Vianello, F.; Magro, M. Acidic Shift of Optimum PH of Bovine Serum Amine Oxidase upon Immobilization onto Nanostructured Ferric Tannates. *International Journal of Molecular Sciences* **2022**, *23* (20), 12172. <https://doi.org/10.3390/ijms232012172>.
- (4) Otero-Sabio, C.; Giacomello, M.; Centelleghes, C.; Caicci, F.; Bonato, M.; Venerando, A.; Graic, J.-M.; Mazzariol, S.; Finos, L.; Corain, L.; Peruffo, A. Cell Cycle Alterations Due to Perfluoroalkyl Substances PFOS, PFOA, PFBS, PFBA and the New PFAS C6O4 on Bottlenose Dolphin (*Tursiops Truncatus*) Skin Cell. *Ecotoxicology and Environmental Safety* **2022**, *244*, 113980. <https://doi.org/10.1016/j.ecoenv.2022.113980>.
- (5) *Biopolymers in Nutraceuticals and Functional Foods*; Gopi, S., Balakrishnan, P., Bracic, M., Eds.; Royal Society of Chemistry, 2022. <https://doi.org/10.1039/9781839168048>.
- (6) Fasolato, L.; Magro, M.; Cozza, G.; Sbarra, F.; Molinari, S.; Novelli, E.; Vianello, F.; Venerando, A. An Iron Shield to Protect Epigallocatechin-3-Gallate from Degradation: Multifunctional Self-Assembled Iron Oxide Nanocarrier Enhances Protein Kinase CK2 Intracellular Targeting and Inhibition. *Pharmaceutics* **2021**, *13* (8), 1266. <https://doi.org/10.3390/pharmaceutics13081266>.
- (7) Magro, M.; Venerando, A.; Macone, A.; Canettieri, G.; Agostinelli, E.; Vianello, F. Nanotechnology-Based Strategies to Develop New Anticancer Therapies. *Biomolecules* **2020**, *10* (5), 735. <https://doi.org/10.3390/biom10050735>.
- (8) Magro, M.; Baratella, D.; Venerando, A.; Nalotto, G.; Basso, C. R.; Molinari, S.; Salviulo, G.; Ugolotti, J.; Pedrosa, V. A.; Vianello, F. Enzyme Immobilization on Maghemite Nanoparticles with Improved Catalytic Activity: An Electrochemical Study for Xanthine. *Materials* **2020**, *13* (7), 1776. <https://doi.org/10.3390/ma13071776>.
- (9) Zanin, S.; Molinari, S.; Cozza, G.; Magro, M.; Fedele, G.; Vianello, F.; Venerando, A. Intracellular Protein Kinase CK2 Inhibition by Ferulic Acid-Based Trimodal Nanodevice. *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES* **2020**, *165* (Pt A), 701–712. <https://doi.org/10.1016/j.ijbiomac.2020.09.207>.
- (10) Venerando, A.; Magro, M.; Baratella, D.; Ugolotti, J.; Zanin, S.; Malina, O.; Zboril, R.; Lin, H.; Vianello, F. Biotechnological Applications of Nanostructured Hybrids of Polyamine Carbon Quantum Dots and Iron Oxide Nanoparticles. *Amino Acids* **2020**, *52* (2), 301–311.
- (11) Magro, M.; Molinari, S.; Venerando, A.; Baratella, D.; Zoppellaro, G.; Salviulo, G.; Zboril, R.; Vianello, F. Colloidal Maghemite Nanoparticles with Oxyhydroxide-like Interface and Chiroptical Properties. *APPLIED SURFACE SCIENCE* **2020**, *534*. <https://doi.org/10.1016/j.apsusc.2020.147567>.
- (12) Magro, M.; Cozza, G.; Molinari, S.; Venerando, A.; Baratella, D.; Miotto, G.; Zennaro, L.; Rossetto, M.;

- Frommel, J.; Kopecna, M.; Sebela, M.; Salviulo, G.; Vianello, F. Role of Carboxylic Group Pattern on Protein Surface in the Recognition of Iron Oxide Nanoparticles: A Key for Protein Corona Formation. *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES* **2020**, *164*, 1715–1728. <https://doi.org/10.1016/j.ijbiomac.2020.07.295>.
- (13) Magro, M.; Baratella, D.; Colò, V.; Vallese, F.; Nicoletto, C.; Santagata, S.; Sambo, P.; Molinari, S.; Salviulo, G.; Venerando, A.; Basso, C. R.; Pedrosa, V. A.; Vianello, F. Electrocatalytic Nanostructured Ferric Tannate as Platform for Enzyme Conjugation: Electrochemical Determination of Phenolic Compounds. *Bioelectrochemistry* **2020**, *132*.
- (14) D'Amore, C.; Borgo, C.; Bosello-Travain, V.; Vilardell, J.; Salizzato, V.; Pinna, L. A.; Venerando, A.; Salvi, M. Deciphering the Role of Protein Kinase CK2 in the Maturation/Stability of F508del-CFTR. *Biochimica et Biophysica Acta - Molecular Basis of Disease* **2020**, *1866* (3).
- (15) Bortoletti, M.; Molinari, S.; Fasolato, L.; Ugolotti, J.; Tolosi, R.; Venerando, A.; Radaelli, G.; Bertotto, D.; De Liguoro, M.; Salviulo, G.; Zboril, R.; Vianello, F.; Magro, M. Nano-Immobilized Flumequine with Preserved Antibacterial Efficacy. *Colloids and Surfaces B: Biointerfaces* **2020**, *191*.
- (16) Villella, V. R.; Venerando, A.; Cozza, G.; Esposito, S.; Ferrari, E.; Monzani, R.; Spinella, M. C.; Oikonomou, V.; Renga, G.; Tosco, A.; Rossin, F.; Guido, S.; Silano, M.; Garaci, E.; Chao, Y.-K.; Grimm, C.; Luciani, A.; Romani, L.; Piacentini, M.; Raia, V.; Kroemer, G.; Maiuri, L. A Pathogenic Role for Cystic Fibrosis Transmembrane Conductance Regulator in Celiac Disease. *EMBO Journal* **2019**, *38* (2).
- (17) Magro, M.; Baratella, D.; Molinari, S.; Venerando, A.; Salviulo, G.; Chemello, G.; Olivotto, I.; Zoppellaro, G.; Ugolotti, J.; Aparicio, C.; Tucek, J.; Fifi, A. P.; Radaelli, G.; Zboril, R.; Vianello, F. Biologically Safe Colloidal Suspensions of Naked Iron Oxide Nanoparticles for in Situ Antibiotic Suppression. *Colloids and Surfaces B: Biointerfaces* **2019**, *181*, 102–111.
- (18) Cozza, G.; Zonta, F.; Dalle Vedove, A.; Venerando, A.; Dall'Acqua, S.; Battistutta, R.; Ruzzene, M.; Lolli, G. Biochemical and Cellular Mechanism of Protein Kinase CK2 Inhibition by Deceptive Curcumin. *FEBS Journal* **2019**.
- (19) Cozza, G.; Moro, E.; Black, M.; Marin, O.; Salvi, M.; Venerando, A.; Tagliabracci, V. S.; Pinna, L. A. The Golgi ?Casein Kinase? Fam20C Is a Genuine ?Phosphatase Kinase? And Phosphorylates Polyserine Stretches Devoid of the Canonical Consensus. *FEBS Journal* **2018**, *285* (24), 4674–4683.
- (20) Borgo, C.; Vilardell, J.; Bosello-Travain, V.; Pinna, L. A.; Venerando, A.; Salvi, M. Dependence of HSP27 Cellular Level on Protein Kinase CK2 Discloses Novel Therapeutic Strategies. *Biochimica et Biophysica Acta - General Subjects* **2018**, *1862* (12), 2902–2910.
- (21) Venerando, A.; Cesaro, L.; Pinna, L. A. From Phosphoproteins to Phosphoproteomes: A Historical Account. *FEBS Journal* **2017**, *284* (13), 1936–1951.
- (22) Ibrahim, S. H.; Turner, M. J.; Saint-Criq, V.; Garnett, J.; Haq, I. J.; Brodrie, M.; Ward, C.; Borgo, C.; Salvi, M.; Venerando, A.; Gray, M. A. CK2 Is a Key Regulator of SLC4A2-Mediated Cl⁻/HCO₃⁻ Exchange in Human Airway Epithelia. *Pflügers Archiv European Journal of Physiology* **2017**, *469* (9), 1073–1091.
- (23) Cozza, G.; Venerando, A.; Sarno, S.; Pinna, L. A. The Selectivity of CK2 Inhibitor Quinalizarin: A Reevaluation. *BioMed Research International* **2015**, *2015*.
- (24) Venerando, A.; Ruzzene, M.; Pinna, L. A. Casein Kinase: The Triple Meaning of a Misnomer. *Biochemical Journal* **2014**, *460* (2), 141–156.
- (25) Venerando, A.; Cesaro, L.; Marin, O.; Donella-Deana, A.; Pinna, L. A. A “SYDE” Effect of Hierarchical Phosphorylation: Possible Relevance to the Cystic Fibrosis Basic Defect. *Cellular and Molecular Life Sciences* **2014**, *71* (12), 2193–2196.
- (26) De Stefano, D.; Villella, V. R.; Esposito, S.; Tosco, A.; Sepe, A.; De Gregorio, F.; Salvadori, L.; Grassia, R.; Leone, C. A.; De Rosa, G.; Maiuri, M. C.; Pettoello-Mantovani, M.; Guido, S.; Bossi, A.; Zolin, A.; Venerando, A.; Pinna, L. A.; Mehta, A.; Bona, G.; Kroemer, G.; Maiuri, L.; Raia, V. Restoration of CFTR Function in Patients with Cystic Fibrosis Carrying the F508del-CFTR Mutation. *Autophagy* **2014**, *10* (11), 2053–2074.
- (27) Venerando, A.; Girardi, C.; Ruzzene, M.; Pinna, L. A. Pyrvinium Pamoate Does Not Activate Protein Kinase CK1, but Promotes Akt/PKB down-Regulation and GSK3 Activation. *Biochemical Journal* **2013**, *452* (1), 131–137.

- (28) Venerando, A.; Franchin, C.; Cant, N.; Cozza, G.; Pagano, M. A.; Tosoni, K.; Al-Zahrani, A.; Arrigoni, G.; Ford, R. C.; Mehta, A.; Pinna, L. A. Detection of Phospho-Sites Generated by Protein Kinase CK2 in CFTR: Mechanistic Aspects of Thr1471 Phosphorylation. *PLoS ONE* **2013**, *8* (9).
- (29) Tosoni, K.; Stobbart, M.; Cassidy, D. M.; Venerando, A.; Pagano, M. A.; Luz, S.; Amaral, M. D.; Kunzelmann, K.; Pinna, L. A.; Farinha, C. M.; Mehta, A. CFTR Mutations Altering CFTR Fragmentation. *Biochemical Journal* **2013**, *449* (1), 295–305.
- (30) Cesaro, L.; Marin, O.; Venerando, A.; Donella-Deana, A.; Pinna, L. A. Phosphorylation of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Serine-511 by the Combined Action of Tyrosine Kinases and CK2: The Implication of Tyrosine-512 and Phenylalanine-508. *Amino Acids* **2013**, *45* (6), 1423–1429.
- (31) Lolli, G.; Cozza, G.; Mazzorana, M.; Tibaldi, E.; Cesaro, L.; Donella-Deana, A.; Meggio, F.; Venerando, A.; Franchin, C.; Sarno, S.; Battistutta, R.; Pinna, L. A. Inhibition of Protein Kinase CK2 by Flavonoids and Tyrophostins. a Structural Insight. *Biochemistry* **2012**, *51* (31), 6097–6107.
- (32) Venerando, A.; Pagano, M. A.; Tosoni, K.; Meggio, F.; Cassidy, D.; Stobbart, M.; Pinna, L. A.; Mehta, A. Understanding Protein Kinase CK2 Mis-Regulation upon F508del CFTR Expression. *Naunyn-Schmiedeberg's Archives of Pharmacology* **2011**, *384* (4–5), 473–488.
- (33) Tibaldi, E.; Venerando, A.; Zonta, F.; Bidoia, C.; Magrin, E.; Marin, O.; Toninello, A.; Bordin, L.; Martini, V.; Pagano, M. A.; Brunati, A. M. Interaction between the SH3 Domain of Src Family Kinases and the Proline-Rich Motif of HTLV-1 P13: A Novel Mechanism Underlying Delivery of Src Family Kinases to Mitochondria. *Biochemical Journal* **2011**, *439* (3), 505–516.
- (34) Venerando, A.; Marin, O.; Cozza, G.; Bustos, V. H.; Sarno, S.; Pinna, L. A. Isoform Specific Phosphorylation of P53 by Protein Kinase CK1. *Cellular and Molecular Life Sciences* **2010**, *67* (7), 1105–1118.
- (35) Silic-Benussi, M.; Cannizzaro, E.; Venerando, A.; Cavallari, I.; Petronilli, V.; La Rocca, N.; Marin, O.; Chieco-Bianchi, L.; Di Lisa, F.; D'Agostino, D. M.; Bernardi, P.; Ciminale, V. Modulation of Mitochondrial K⁺ Permeability and Reactive Oxygen Species Production by the P13 Protein of Human T-Cell Leukemia Virus Type 1. *Biochimica et Biophysica Acta - Bioenergetics* **2009**, *1787* (7), 947–954.
- (36) Cozza, G.; Gianoncelli, A.; Montopoli, M.; Caparrotta, L.; Venerando, A.; Meggio, F.; Pinna, L. A.; Zagotto, G.; Moro, S. Identification of Novel Protein Kinase CK1 Delta (CK1δ) Inhibitors through Structure-Based Virtual Screening. *Bioorganic and Medicinal Chemistry Letters* **2008**, *18* (20), 5672–5675.
- (37) Ferrarese, A.; Marin, O.; Bustos, V. H.; Venerando, A.; Antonelli, M.; Allende, J. E.; Pinna, L. A. Chemical Dissection of the APC Repeat 3 Multistep Phosphorylation by the Concerted Action of Protein Kinases CK1 and GSK3. *Biochemistry* **2007**, *46* (42), 11902–11910.
- (38) Bustos, V. H.; Ferrarese, A.; Venerando, A.; Marin, O.; Allende, J. E.; Pinna, L. A. The First Armadillo Repeat Is Involved in the Recognition and Regulation of beta-Catenin Phosphorylation by Protein Kinase CK1. *Proceedings of the National Academy of Sciences of the United States of America* **2006**, *103* (52), 19725–19730.

Udine, 11 Aprile 2023

