

**ELENCO DELLE PUBBLICAZIONI DELLA
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- 87) Borgo C, D'Amore C, **Sarno S**, Salvi M, Ruzzene M (2021) "Protein kinase CK2: a potential therapeutic target for diverse human diseases" *Signal Transduct Target Ther* 6, 183.
doi:10.1038/s41392-021-00567-7.
- 86) Borgo C, D'Amore C, Cesaro L, **Sarno S**, Pinna LA, Ruzzene M, Salvi M (2021) "How can a traffic light properly work if it is always green? The paradox of CK2 signaling" *Crit Rev Biochem Mol Biol* 11, 1-39. doi: 10.1080/10409238.2021.1908951.
- 85) D'Amore C, Borgo C, **Sarno S**, Salvi M (2020) "Role of CK2 inhibitor CX4945 in anti-cancer combination therapy – potential clinical relevance" *Cell Oncolo (Dordr)* 43, 1003-1016.
- 84) Dalle Vedove A, Zonta F, Zanforlin E, Demitri N, Ribaldo G, Ongaro A, **Sarno S**, Zagotto G, Battistutta R, Ruzzene M, Lolli G (2020) "A novel class of selective CK2 inhibitors targeting its open hinge conformation" *European Journal of Medicinal Chemistry* 195, 112267.
- 83) Di Paolo ML, Cozza G, Milelli A, Zonta F, **Sarno S**, Minniti E, Ursini F, Rosini M, Minarini A (2019) "Benextramine and derivatives as novel human monoamine oxidases inhibitors: an integrated approach" *FEBS Journal* 286, 4995-5015.
- 82) Cozza G, Fortuna M, Meggio F, **Sarno S**, Kubbutat MHG, Totzke F, Schaechtele C, Pinna LA, Olsufyeva EN, Preobrazhenskaya MN (2018) "Hydrophobic Derivatives of Glycopeptide Antibiotics as Inhibitors of Protein Kinases" *Biochemistry (Moscow)* 83, 1222-1230.
- 81) Lolli G, Naressi D, **Sarno S**, Battistutta R (2017) "Characterization of the oligomeric states of the CK2 $\alpha_2\beta_2$ holoenzyme in solution" *Biochemical Journal* 474, 2405-2416
- 80) Krüger M, Kalbacher H, Kastritis PL, Bischof J, Barth H, Henne-Bruns D, Vorgias C, **Sarno S**, Pinna LA, Knippschild U (2016) "New potential peptide therapeutics perturbing CK1 δ / α -tubulin interaction" *Cancer Lett.* 375, 375-83.

- 79) Cozza G, Venerando A, **Sarno S** and Pinna LA (2015) "The selectivity of CK2 inhibitor Quinalizarin: a reevaluation" *Biomed Res Int.* 734127. doi: 10.1155/2015/734127
- 78) Cozza G, Zanin S, **Sarno S**, Costa E, Ribaudo G, Salvi M, Zagotto G, Ruzzene M and Pinna LA (2015) "Design, validation and efficacy of bi-substrate inhibitors specifically affecting ecto-CK2 kinase activity." *Biochemical Journal* 471, 415-430.
- 77) Foka P, Dimitriadis A, Kyrtzopoulou E, Giannimaras DA, **Sarno S**, Simos G, Georgopoulou U, Mamalaki A. (2014) "A complex signaling network involving protein kinase CK2 is required for hepatitis C virus core protein-mediated modulation of the iron-regulatory hepcidin gene expression." *Cell Mol Life Science* 71, 4243-58.
- 76) Costa R, Arrigoni G, Cozza G, Lolli G, Battistutta R, Izpisua Belmonte JC, Pinna LA and **Sarno S** (2014) "The lysine-specific demethylase 1 is a novel substrate of protein kinase CK2." *Biochim Biophys Acta* doi: 10.1016/j.bbapap.2014.01.014.
- 75) Cozza G, Girardi C, Ranchio A, Lolli G, **Sarno S**, Orzeszko A, Kazimierczuk Z, Battistutta R, Ruzzene M and Pinna LA (2014) "Cell-permeable dual inhibitors of protein kinases CK2 and PIM-1: structural features and pharmacological potential." *Cell Mol Life Science* 71, 3173-3185.
- 74) Cozza G, **Sarno S**, Ruzzene M, Girardi C, Orzeszko A, Kazimierczuk Z, Zagotto G, Bonaiuto E, Di Paolo ML and Pinna LA (2013) "Exploiting the repertoire of CK2 inhibitors to target DYRK and PIM kinases." *Biochim Biophys Acta* 1834, 1402-9.
- 73) Vallese F, Berto P, Ruzzene M, Cendron L, **Sarno S**, De Rosa E, Giacometti GM and Costantini P (2012) "Biochemical analysis of the interactions between the proteins involved in the [FeFe]-hydrogenase maturation process." *Journal of Biological Chemistry* 287, 36544-36555.
- 72) Lolli G, Cozza G, Mazzorana M, Tibaldi E, Cesaro L, Donella-Deana A, Meggio F, Venerando A, Franchin C, **Sarno S**, Battistutta R and Pinna LA (2012) "Inhibition of protein kinase CK2 by flavonoids and tyrphostins. A structural insight." *Biochemistry* 51, 6097-6107.

- 71) Salvi M, Trashi E, Marin O, Negro A, **Sarno S** and Pinna LA (2012) “Superiority of PLK-2 as α -synuclein phosphorylating agent relies on unique specificity determinants.” *Biochemical Biophysical Research Communications* 418, 156-160.
- 70) **Sarno S**, Mazzorana M, Traynor R, Ruzzene M, Cozza G, Pagano MA, Zagotto G, Battistutta R and Pinna LA (2012) “Structural features underlying the selectivity of the kinase inhibitors NBC and dNBC: role of a nitro group that discriminates between CK2 and DYRK1A.” *Cell Mol Life Science* 69, 449-60.
- 69) Battistutta R, Cozza G, Pierre F, Papinutto E, Lolli G, **Sarno S**, O'Brien SE, Siddiqui-Jain A, Haddach M, Anderes K, Ryckman DM, Meggio F and Pinna LA (2011) “Unprecedented selectivity and structural determinants of a new class of protein kinase CK2 inhibitors in clinical trials for the treatment of cancer.” *Biochemistry* 50, 8478-88.
- 68) Tosoni K, Costa A, **Sarno S**, D'Alessandro S, Sparla F, Pinna LA, Zottini M and Ruzzene M (2011) “The p23 co-chaperone protein is a novel substrate of CK2 in Arabidopsis.” *Molecular and Cellular Biochemistry* 356, 245-54.
- 67) **Sarno S**, Papinutto E, Franchin C, Bain J, Elliott M, Meggio F, Kazimierczuk Z, Orzeszko A, Battistutta R and Pinna LA (2011) “ATP site-directed inhibitors of protein kinase CK2: An Update” *Current Topics in Medicinal Chemistry* 11, 1340-1351.
- 66) Venerando A, Marin O, Cozza G, Bustos VH, **Sarno S** and Pinna LA (2010) “Isoform specific phosphorylation of p53 by protein kinase CK1” *Cell Mol Life Science* 67, 1105-18.
- 65) Pagano MA, Marin O, Cozza G, **Sarno S**, Meggio F, Treharne KJ, Mehta A and Pinna LA (2010) “Cystic fibrosis transmembrane regulator fragments with the Phe508 deletion exert a dual allosteric control over the master kinase CK2” *Biochemical Journal* 426, 19-29.
- 64) Salvi M, Xu D, Chen Y, Cabrelle A, **Sarno S** and Pinna LA (2009) “Programmed cell death protein 5 (PDCD5) is phosphorylated by CK2 in vitro and in 293T cells” *Biochemical Biophysical Research Communications* 387, 606-10.

- 63) Cozza G, Mazzorana M, Papinutto E, Bain J, Elliott M, Di Maira G, Gianoncelli A, Pagano M A, **Sarno S**, Ruzzene M, Battistutta R, Meggio F, Moro S, Zagotto G and Pinna LA (2009) “Quinalizarin as a potent, selective and cell-permeable inhibitor of protein kinase CK2” *Biochemical Journal* 421, 387-95.
- 62) Salvi M, **Sarno S**, Cesaro L, Nakamura H and Pinna LA (2009) “Extraordinary pleiotropy of protein kinase CK2 revealed by weblogo phosphoproteome analysis” *Biochimica and Biophysica Acta – Molecular Cell Research* 1793, 847-59.
- 61) **Sarno S** and Pinna LA (2008) “Protein kinase CK2 as a druggable target” *Molecular BioSystems* 4, 889-94.
- 60) Vilk G, Weber JE, Turowec JP, Duncan JS, Wu C, Derksen DR, Zien P, **Sarno S**, Donella-Deana A, Lajoie G, Pinna LA, Li SS and Litchfield DW (2008) “Protein kinase CK2 catalyzes tyrosine phosphorylation in mammalian cells” *Cellular Signalling* 20, 1942-51.
- 59) Poletto G, Vilardell J, Marin O, Pagano MA, Cozza G, **Sarno S**, Falqués A, Itarte E, Pinna LA and Meggio F (2008) “The regulatory beta subunit of protein kinase CK2 contributes to the recognition of the substrate consensus sequence. A study with an eIF2 beta-derived peptide” *Biochemistry* 47, 8317-25.
- 58) Pagano MA, Arrigoni G, Marin O, **Sarno S**, Meggio F, Treharne KJ, Mehta A and Pinna LA (2008) “Modulation of protein kinase CK2 activity by fragments of CFTR encompassing F508 may reflect functional links with cystic fibrosis pathogenesis” *Biochemistry* 47, 7925-36.
- 57) Pagano MA, Bain J, Kazimierczuk Z, **Sarno S**, Ruzzene M, Di Maira G, Elliott M, Orzeszko A, Cozza G, Meggio F and Pinna LA (2008) “The selectivity of inhibitors of protein kinase CK2: an update” *Biochemical Journal* 415, 353-65.
- 56) Arrigoni G, Pagano MA, **Sarno S**, Cesaro L, James P and Pinna LA (2008) “Mass spectrometry analysis of a protein kinase CK2beta subunit interactome isolated from mouse brain by affinity chromatography” *Journal of Proteome Research* 7, 990-1000.

- 55) Battistutta R, Mazzorana M, Cendron L, Bortolato A, **Sarno S**, Kazimierczuk Z, Zanotti G, Moro S and Pinna LA (2007) "The ATP-Binding site of protein kinase CK2 holds a positive electrostatic area and conserved water molecules" *ChemBioChem* 8, 1804-1809.
- 54) Pagano MA, Poletto G, Di Maira G, Cozza G, Ruzzene M, **Sarno S**, Bain J, Elliott M, Moro S, Zagotto G, Meggio F and Pinna LA (2007) "Tetrabromocinnamic acid (TBCA) and related compounds represent a new class of specific protein kinase CK2 inhibitors" *ChemBioChem* 8, 129-39.
- 53) Salvi M, **Sarno S**, Marin O, Meggio F, Itarte E and Pinna LA (2006) "Discrimination between the activity of protein kinase CK2 holoenzyme and its catalytic subunits" *FEBS Letters* 580, 3948-52.
- 52) Cozza G, Bonvini P, Zorzi E, Poletto G, Pagano MA, **Sarno S**, Donella-Deana A, Zagotto G, Rosolen A, Pinna LA, Meggio F and Moro S (2006) "Identification of ellagic acid as potent inhibitor of protein kinase CK2: a successful example of a virtual screening application" *Journal of Medicinal Chemistry* 49, 2363-66.
- 51) **Sarno S**, Ruzzene F, Frascella P, Pagano MA, Zambon A, Mazzorana M, Di Maira G, Lucchini V and Pinna LA (2005) "Development and exploitation of CK2 inhibitors" *Molecular and Cellular Biochemistry* 274, 69-76.
- 50) Llorens F, **Sarno S**, Sarro E, Duarri A, Roher N, Meggio F, Plana M, Pinna LA and Itarte E (2005) "Cross talk between protein kinase CK2 and eukaryotic translation initiation factor eIF2beta subunit" *Molecular and Cellular Biochemistry* 274, 53-61.
- 49) Pagano MA, **Sarno S**, Poletto G, Cozza G, Pinna LA and Meggio F (2005) "Autophosphorylation at the regulatory beta subunit reflects the supramolecular organization of protein kinase CK2" *Molecular and Cellular Biochemistry* 274, 23-29.
- 48) Battistutta R, Mazzorana M, **Sarno S**, Kazimierczuk Z, Zanotti G and Pinna LA (2005) "Inspecting the structure-activity relationship of protein kinase CK2 inhibitors derived from tetrabromo-benzimidazole" *Chemistry and Biology (continued as Cell Chemical Biology)* 12, 1211-19.

- 47) **Sarno S**, Salvi M, Battistutta R, Zanotti G and Pinna LA (2005) "Features and potentials of ATP-site directed CK2 inhibitors" *Biochim Biophys Acta* 1754, 263-70.
- 46) Di Maira G, Salvi M, Arrigoni G, Marin O, **Sarno S**, Brustolon F, Pinna LA and Ruzzene M (2005) "Protein kinase CK2 phosphorylates and upregulates Akt/PKB" *Cell Death and Differentiation* 12, 668-77.
- 45) Battistutta R, **Sarno S** and Zanotti G. Inhibitors of protein kinase CK2: structural aspects. In Handbook of Experimental Pharmacology 167 (LA Pinna and TW Cohen Eds) p. 125-155, (2005).
- 44) Barberis M, De Gioia L, Ruzzene M, **Sarno S**, Coccetti P, Fantucci P, Vanoni M and Alberghina L (2005) "The yeast cyclin-dependent kinase inhibitor Sic1 and the mammalian p27(Kip1) are functional homologues with a structurally conserved inhibitory domain." *Biochemical Journal* 387, 639-47.
- 43) Pagano MA, Andrzejewska M, Ruzzene M, **Sarno S**, Cesaro L, Bain J, Elliott M, Meggio F, Kazimierczuk Z and Pinna LA (2004) "Optimization of protein kinase CK2 inhibitors derived from 4,5,6,7-tetrabromobenzimidazole." *Journal of Medicinal Chemistry* 47, 6239-47.
- 42) Meggio F, Pagano MA, Moro S, Zagotto G, Ruzzene M, **Sarno S**, Cozza G, Bain J, Elliott M, Deana AD, Brunati AM and Pinna LA (2004) "Inhibition of protein kinase CK2 by condensed polyphenolic derivatives. An in vitro and in vivo study." *Biochemistry* 43, 12931-6.
- 41) Marchetta M, Gamberi T, **Sarno S**, Magherini F, Raugei G, Camici G, Pinna LA and Modesti A (2004) "Expression of the Stp1 LMW-PTP and inhibition of protein CK2 display a cooperative effect on immunophilin Fpr3 tyrosine phosphorylation and *Saccharomyces cerevisiae* growth." *Cell Mol Life Science* 61, 1176-84.
- 40) Loizou JI, Khamisky SF, Zlatanou A, Moore DJ, Chan DW, Qin J, **Sarno S**, Meggio F, Pinna LA and Cladecott KW (2004) "The protein kinase CK2 facilitates repair of chromosomal DNA single-strand breaks" *Cell* 117, 17-28.

- 39) Llorens F, Roher N, Miro FA, **Sarno S**, Ruiz FX, Meggio F, Plana M, Pinna LA and Itarte E (2003) "Eukaryotic translation-initiation factor eIF2beta binds to protein kinase CK2: effects on CK2alpha activity" *Biochemical Journal* 375, 623-31.
- 38) **Sarno S**, De Moliner E, Ruzzene M, Pagano MA, Battistutta R, Bain J, Fabbro D, Schoepfer J, Elliott M, Furet P, Meggio F, Zanotti G and Pinna LA (2003) "Biochemical and 3D-structural data on the specific inhibition of protein kinase CK2 by (5-oxo-5,6-dihydro-indolo(1,2-a)quinazolin-7-yl)acetic acid) (IQA)" *Biochemical Journal* 374, 639-646.
- 37) Donella-Deana A, Cesaro L, **Sarno S**, Ruzzene M, Brunati AM, Marin O, Vilk G, Doherty-Kirby A, Lajoie G, Litchfield DW and Pinna LA (2003) "Tyrosine phosphorylation of protein kinase CK2 by Src-related tyrosine kinases correlates with increased catalytic activity" *Biochemical Journal* 372, 841-9.
- 36) De Moliner E, Moro S, **Sarno S**, Zagotto G, Zanotti G, Pinna LA and Battistutta R (2003) "Inhibition of protein kinase CK2 by anthraquinone-related compounds. A structural insight" *Journal of Biological Chemistry* 278, 1831-36.
- 35) Facchin S, **Sarno S**, Marin O, Lopreiato R, Sartori G and Pinna LA (2002) "Acidophilic character of yeast PID261/BUD32, a putative ancestor of eukaryotic protein kinases" *Biochemical and Biophysical Research Communications* 296, 1366-71.
- 34) **Sarno S**, Ghisellini P and Pinna LA (2002) "Unique activation mechanism of protein kinase CK2. The N-terminal segment is essential for constitutive activity of the catalytic subunit but not of the holoenzyme" *Journal of Biological Chemistry* 277, 22509-14.
- 33) **Sarno S**, Moro S, Meggio F, Zagotto G, Dal Ben D and Pinna LA (2002) "Toward the rational design of protein kinase CK2 inhibitors" *Pharmacology and Therapeutics* 93, 159-168.
- 32) Meggio F, Marin O, Boschetti M, **Sarno S** and Pinna LA (2001) "HIV-1 Rev transactivator: a beta-subunit directed substrate and effector of protein kinase CK2" *Molecular and Cellular Biochemistry* 227, 145-51.

- 31) **Sarno S**, Ghisellini P, Cesaro L, Battistutta R and Pinna LA (2001) "Generation of mutants of CK2alpha which are dependent on the beta-subunit for catalytic activity" *Molecular and Cellular Biochemistry* 227, 13-9.
- 30) Battistutta R, De Moliner E, **Sarno S**, Zanotti G and Pinna LA (2001) "Structural features underlying selective inhibition of protein kinase CK2 by ATP site-directed tetrabromo-2-benzotriazole." *Protein Science* 10, 2200-6.
- 29) Roher N, **Sarno S**, Miro F, Ruzzene M, Llorens F, Meggio F, Itarte E, Pinna LA and Plana M (2001) "The carboxy-terminal domain of Grp94 binds to protein kinase CK2 alpha but not to CK2 holoenzyme." *FEBS Letters* 505, 42-46.
- 28) Donella-Deana A, Cesaro L, **Sarno S**, Brunati AM, Ruzzene M and Pinna LA (2001) "Autocatalytic tyrosine-phosphorylation of protein kinase CK2 alpha and alpha' subunits: implication of Tyr182." *Biochemical Journal* 357, 563-7.
- 27) **Sarno S**, Reddy H, Meggio F, Ruzzene M, Davies SP, Donella-Deana A, Shugar D and Pinna LA (2001) "Selectivity of 4,5,6,7-tetrabromobenzotriazole, an ATP site-directed inhibitor of protein kinase CK2 ("casein kinase-2")" *FEBS Letters* 496, 44-48.
- 26) Meggio F, Negro A, **Sarno S**, Ruzzene M, Bertoli A, Sorgato MC and Pinna LA (2000) "Bovine prion protein as modulator of protein kinase CK2" *Biochemical Journal* 352, 191-6.
- 25) **Sarno S**, Marin O, Boschetti M, Pagano MA, Meggio F and Pinna LA (2000) "Cooperative modulation of protein kinase CK2 by separate domains of its regulatory β subunit" *Biochemistry* 39, 12324-12329.
- 24) Marin O, **Sarno S**, Boschetti M, Pagano MA, Meggio F, Ciminale V, D'Agostino DM and Pinna LA (2000) "Unique features of HIV-1 Rev protein phosphorylation by protein kinase CK2 ("casein kinase-2")" *FEBS Letters* 481, 63-67.
- 23) Battistutta R, **Sarno S**, De Moliner E, Papinutto E, Zanotti G and Pinna LA (2000) "The replacement of ATP by the competitive inhibitor emodin induces conformational modifications in the catalytic site of protein kinase CK2" *Journal of Biological Chemistry* 275, 29618-22.

- 22) Battistutta R, **Sarno S**, De Moliner E, Marin O, Issinger O-G, Zanotti G and Pinna LA (2000) "The crystal structure of the complex of *Zea mays* α subunit with a fragment of human β subunit provides the clue to the architecture of protein kinase CK2 holoenzyme" *European Journal of Biochemistry (continued as FEBS Journal)* 267, 5184-90.
- 21) Ruzzene M, Brunati AM, **Sarno S**, Marin O, Donella-Deana A and Pinna LA (2000) "Ser/Thr phosphorylation of hematopoietic specific protein 1 (HS1). Implication of protein kinase CK2" *European Journal of Biochemistry (continued as FEBS Journal)* 267, 1-9.
- 20) Meggio F, Ruzzene M, **Sarno S**, Pagano MA and Pinna LA (2000) "pCMB Treatment Reveals the Essential Role of Cysteiny Residues in Conferring Functional Competence to the Regulatory Subunit of Protein Kinase CK2" *Biochemical Biophysical Research Communications* 267, 427-432.
- 19) Ruzzene M, Brunati AM, **Sarno S**, Donella-Deana A and Pinna LA (1999) "Hematopoietic lineage cell specific protein 1 associates with and down-regulates protein kinase CK2" *FEBS Letters* 461, 32-36.
- 18) Guerra B, Boldyreff B, **Sarno S**, Cesaro L, Issinger O-G and Pinna LA (1999) "CK2: A Protein Kinase in Need of Control" *Pharmacology and Therapeutics* 82, 303-313.
- 17) Meggio F, Marin O, **Sarno S** and Pinna LA (1999) "Functional analysis of CK2 β -derived synthetic fragments" *Molecular and Cellular Biochemistry* 191, 35-42.
- 16) Marin O, Meggio F, **Sarno S**, Cesaro L, Pagano MA and Pinna LA (1999) "Tyrosine Versus Serine/Threonine Phosphorylation by Protein Kinase Casein Kinase-2" *Journal of Biological Chemistry* 274, 29260-29265.
- 15) **Sarno S**, Vaglio P, Cesaro L, Marin O and Pinna LA (1999) "A multifunctional network of basic residues confers unique properties to protein kinase CK2" *Molecular and Cellular Biochemistry* 191, 13-19.

- 14) **Sarno S**, Marin O, Ghisellini P, Meggio F and Pinna LA (1998) "Biochemical evidence that the N-terminal segments of the α subunit and the β subunit play interchangeable roles in the activation of protein kinase CK2" *FEBS Letters* 441, 29-33.
- 13) **Sarno S**, Vaglio P, Marin O, Issinger O-G, Ruffato K and Pinna LA (1997) "Mutational analysis of residues implicated in the interaction between protein kinase CK2 and peptide substrates" *Biochemistry* 36, 11717-11724.
- 12) **Sarno S**, Vaglio P, Marin O, Meggio F, Issinger O-G and Pinna LA (1997) "Basic residues in the catalytic subunit are implicated in negative but not in positive regulation by the β -subunit" *European Journal of Biochemistry (continued as FEBS Journal)* 248, 290-295.
- 11) Marin O, Meggio F, **Sarno S** and Pinna LA (1997) "Physical dissection of the structural elements responsible for regulatory properties and intersubunit interactions of protein kinase CK2- β -subunit" *Biochemistry* 36, 7192-7198.
- 10) Vaglio P, **Sarno S**, Marin O, Meggio F, Issinger O-G and Pinna LA (1996) "Mapping the residues of protein kinase CK2 α subunit responsible for responsiveness to polyanionic inhibitors" *FEBS Letters* 380, 25-28.
- 9) **Sarno S**, Vaglio P, Meggio F, Issinger O-G and Pinna LA (1996) "Protein kinase CK2 mutants defective in substrate recognition. Purification and kinetic analysis" *Journal of Biological Chemistry* 271, 10595-10601.
- 8) Agostinis P, Donella-Deana A, Cuveele J, Vandenberghe A, **Sarno S**, Merlevede W and De Witte P (1996) "A comparative analysis of the photosensitized inhibition of growth-factor regulated protein kinases by hypericin-derivatives" *Biochemical and Biophysical Research Communications* 220, 613-617.
- 7) Pinna LA, Meggio F and **Sarno S** (1995) "Casein kinase-2 and cell signaling" *Biochemistry of Cell Membranes. A compendium of selected papers (Papa S and Tager JM Eds)* Basel, Birkhauser Verlag Basel/Switzerland, 15-27.

- 6) **Sarno S**, Boldyreff B, Marin O, Guerra B, Meggio F, Issinger O-G and Pinna LA (1995) "Mapping the residues of protein kinase CK2 implicated in substrate recognition: mutagenesis of conserved basic residues in the α -subunit" *Biochemical and Biophysical Research Communications* 206, 171-179.
- 5) **Sarno S**, Meggio F and Pinna LA (1994) "Regulation of casein kinase-2 (CK2) by polyamines and other polycationic effectors" in *Polyamines: Biological and Clinical Aspects* (CM Caldarera, C Clo, MS Moruzzi) CLUEB, Bologna, Italy, 105-109.
- 4) Marin O, Meggio F, **Sarno S**, Andretta M and Pinna LA (1994) "Phosphorylation of synthetic fragments of inhibitor-2 of protein phosphatase-1 by casein kinase-1 and 2" *European Journal of Biochemistry (continued as FEBS Journal)* 223, 647-653.
- 3) **Sarno S**, Marin O, Meggio F and Pinna LA (1993) "Polyamines as negative regulators of casein kinase 2: The phosphorylation of calmodulin triggered by polylysine and by the $\alpha(66-86)$ peptide is prevented by spermine" *Biochemical and Biophysical Research Communications* 194, 83-90.
- 2) Agostinis P, Derua R, **Sarno S**, Goris J and Merlevede W (1992) "Specificity of the polycation-stimulated (type-2A) and ATP, Mg-dependent (type-1) protein phosphatases toward substrates phosphorylated by p34^{cdc2} kinase" *European Journal of Biochemistry (continued as FEBS Journal)* 205, 241-248.
- 1) Agostinis P, Van Lint J, **Sarno S**, De Witte P, Vandenneede JR and Merlevede W (1992) "Rapid Stimulation of Ser/Thr Protein Kinases following treatment of Swiss 3T3 cells with Bombesin" *Journal of Biological Chemistry* 267, 9732-9737.