# Maria Ruzzene

## List of Publications by Year in Descending Order



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| 110 papers | 5,237 citations | 37 h-index | 70 g-index |
| 114 ext. papers | 5,782 ext. citations | 5.4 avg, IF | 5.33 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 110 | Targeting CK2 in cancer: a valuable strategy or a waste of time?. *Cell Death Discovery*, **2021**, 7, 325 | 6.9 | 5 |
| 109 | How can a traffic light properly work if it is always green? The paradox of CK2 signaling. *Critical Reviews in Biochemistry and Molecular Biology*, **2021**, 56, 321-359 | 8.7 | 5 |
| 108 | Protein kinase CK2: a potential therapeutic target for diverse human diseases. *Signal Transduction and Targeted Therapy*, **2021**, 6, 183 | 21 | 33 |
| 107 | Protein kinase CK2 inhibition as a pharmacological strategy. *Advances in Protein Chemistry and Structural Biology*, **2021**, 124, 23-46 | 5.3 | 7 |
| 106 | Contribution of the CK2 Catalytic Isoforms  and  to the Glycolytic Phenotype of Tumor Cells. *Cells*, **2021**, 10, | 7.9 | 4 |
| 105 | A novel class of selective CK2 inhibitors targeting its open hinge conformation. *European Journal of Medicinal Chemistry*, **2020**, 195, 112267 | 6.8 | 8 |
| 104 | Biochemical and cellular mechanism of protein kinase CK2 inhibition by deceptive curcumin. *FEBS Journal*, **2020**, 287, 1850-1864 | 5.7 | 5 |
| 103 | Effects of CK2 subunit down-regulation on Akt signalling in HK-2 renal cells. *PLoS ONE*, **2020**, 15, e0227340 | 3.7 | 3 |
| 102 | PreS1 peptide-functionalized gold nanostructures with SERRS tags for efficient liver cancer cell targeting. *Materials Science and Engineering C*, **2019**, 103, 109762 | 8.3 | 14 |
| 101 | Phosphorylation of p23-1 cochaperone by protein kinase CK2 affects root development in Arabidopsis. *Scientific Reports*, **2019**, 9, 9846 | 4.9 | 3 |
| 100 | Role of protein kinase CK2 in antitumor drug resistance. *Journal of Experimental and Clinical Cancer Research*, **2019**, 38, 287 | 12.8 | 40 |
| 99 | The protein kinase CK2 contributes to the malignant phenotype of cholangiocarcinoma cells. *Oncogenesis*, **2019**, 8, 61 | 6.6 | 17 |
| 98 | Up-Regulation of the Alpha Prime Subunit of Protein Kinase CK2 as a Marker of Fast Proliferation in GL261 Cultured Cells. *Pathology and Oncology Research*, **2019**, 25, 1659-1663 | 2.6 | 4 |
| 97 | A V1143F mutation in the neuronal-enriched isoform 2 of the PMCA pump is linked with ataxia. *Neurobiology of Disease*, **2018**, 115, 157-166 | 7.5 | 10 |
| 96 | Therapeutic targeting of CK2 in acute and chronic leukemias. *Leukemia*, **2018**, 32, 1-10 | 10.7 | 53 |
| 95 | The importance of negative determinants as modulators of CK2 targeting. The lesson of Akt2 S131. *PLoS ONE*, **2018**, 13, e0193479 | 3.7 | 1 |
| 94 | Under-expression of CK2 subunit in ccRCC represents a complementary biomarker of p-STAT3 Ser727 that correlates with patient survival. *Oncotarget*, **2018**, 9, 5736-5751 | 3.3 | 7 |

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| 93 | Cross-talk between the CK2 and AKT signaling pathways in cancer. *Advances in Biological Regulation* , **2017**, 64, 1-8 | 6.2 | 30 |
| 92 | The ataxia related G1107D mutation of the plasma membrane Ca ATPase isoform 3 affects its interplay with calmodulin and the autoinhibition process. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 165-173 | 6.9 | 16 |
| 91 | Targeting Protein Kinase CK2: Evaluating CX-4945 Potential for GL261 Glioblastoma Therapy in Immunocompetent Mice. *Pharmaceuticals*, **2017**, 10, | 5.2 | 20 |
| 90 | Protein kinase CK2 modulates HSJ1 function through phosphorylation of the UIM2 domain. *Human Molecular Genetics*, **2017**, 26, 611-623 | 5.6 | 6 |
| 89 | A chemogenomic screening identifies CK2 as a target for pro-senescence therapy in PTEN-deficient tumours. *Nature Communications*, **2015**, 6, 7227 | 17.4 | 29 |
| 88 | Chimeric peptides as modulators of CK2-dependent signaling: Mechanism of action and off-target effects. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2015**, 1854, 1694-707 | 4 | 12 |
| 87 | Effects of CK2 inhibition in cultured fibroblasts from Type 1 Diabetic patients with or without nephropathy. *Growth Factors*, **2015**, 33, 259-66 | 1.6 | 3 |
| 86 | Different Persistence of the Cellular Effects Promoted by Protein Kinase CK2 Inhibitors CX-4945 and TDB. *BioMed Research International*, **2015**, 2015, 185736 | 3 | 8 |
| 85 | CK2 Function in the Regulation of Akt Pathway **2015**, 125-140 | | |
| 84 | Design, validation and efficacy of bisubstrate inhibitors specifically affecting ecto-CK2 kinase activity. *Biochemical Journal*, **2015**, 471, 415-30 | 3.8 | 24 |
| 83 | Cell-permeable dual inhibitors of protein kinases CK2 and PIM-1: structural features and pharmacological potential. *Cellular and Molecular Life Sciences*, **2014**, 71, 3173-85 | 10.3 | 36 |
| 82 | Casein kinase: the triple meaning of a misnomer. *Biochemical Journal*, **2014**, 460, 141-56 | 3.8 | 76 |
| 81 | Differential phosphorylation of Akt1 and Akt2 by protein kinase CK2 may account for isoform specific functions. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2014**, 1843, 1865-74 | 4.9 | 22 |
| 80 | Helicobacter pylori periplasmic receptor CeuE (HP1561) modulates its nickel affinity via organic metallophores. *Molecular Microbiology*, **2014**, 91, 724-35 | 4.1 | 30 |
| 79 | Synthesis and properties of a selective inhibitor of homeodomain-interacting protein kinase 2 (HIPK2). *PLoS ONE*, **2014**, 9, e89176 | 3.7 | 17 |
| 78 | Aberrant signalling by protein kinase CK2 in imatinib-resistant chronic myeloid leukaemia cells: biochemical evidence and therapeutic perspectives. *Molecular Oncology*, **2013**, 7, 1103-15 | 7.9 | 30 |
| 77 | Inhibition of protein kinase CK2 with the clinical-grade small ATP-competitive compound CX-4945 or by RNA interference unveils its role in acute myeloid leukemia cell survival, p53-dependent apoptosis and daunorubicin-induced cytotoxicity. *Journal of Hematology and Oncology*, **2013**, 6, 78 | 22.4 | 35 |
| 76 | Exploiting the repertoire of CK2 inhibitors to target DYRK and PIM kinases. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2013**, 1834, 1402-9 | 4 | 15 |

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| 75 | Pyrvinium pamoate does not activate protein kinase CK1, but promotes Akt/PKB down-regulation and GSK3 activation. *Biochemical Journal*, **2013**, 452, 131-7 | 3.8 | 38 |
| 74 | Structural features underlying the selectivity of the kinase inhibitors NBC and dNBC: role of a nitro group that discriminates between CK2 and DYRK1A. *Cellular and Molecular Life Sciences*, **2012**, 69, 449-60 | 10.3 | 24 |
| 73 | Protein kinase CK2 in hematologic malignancies: reliance on a pivotal cell survival regulator by oncogenic signaling pathways. *Leukemia*, **2012**, 26, 1174-9 | 10.7 | 80 |
| 72 | Effects of the CK2 inhibitors CX-4945 and CX-5011 on drug-resistant cells. *PLoS ONE*, **2012**, 7, e49193 | 3.7 | 39 |
| 71 | Biochemical analysis of the interactions between the proteins involved in the [FeFe]-hydrogenase maturation process. *Journal of Biological Chemistry*, **2012**, 287, 36544-55 | 5.4 | 30 |
| 70 | Protein kinase CK2 protects multiple myeloma cells from ER stress-induced apoptosis and from the cytotoxic effect of HSP90 inhibition through regulation of the unfolded protein response. *Clinical Cancer Research*, **2012**, 18, 1888-900 | 12.9 | 61 |
| 69 | Phosphoproteomic profiling of NSCLC cells reveals that ephrin B3 regulates pro-survival signaling through Akt1-mediated phosphorylation of the EphA2 receptor. *Journal of Proteome Research*, **2011**, 10, 2566-78 | 5.6 | 26 |
| 68 | Protein kinase CK2 accumulation in "oncophilic" cells: causes and effects. *Molecular and Cellular Biochemistry*, **2011**, 356, 5-10 | 4.2 | 19 |
| 67 | The p23 co-chaperone protein is a novel substrate of CK2 in Arabidopsis. *Molecular and Cellular Biochemistry*, **2011**, 356, 245-54 | 4.2 | 10 |
| 66 | Functional protein network activation mapping reveals new potential molecular drug targets for poor prognosis pediatric BCP-ALL. *PLoS ONE*, **2010**, 5, e13552 | 3.7 | 38 |
| 65 | Assessment of CK2 constitutive activity in cancer cells. *Methods in Enzymology*, **2010**, 484, 495-514 | 1.7 | 34 |
| 64 | Enhancing chemosensitivity to gemcitabine via RNA interference targeting the catalytic subunits of protein kinase CK2 in human pancreatic cancer cells. *BMC Cancer*, **2010**, 10, 440 | 4.8 | 37 |
| 63 | Addiction to protein kinase CK2: a common denominator of diverse cancer cells?. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2010**, 1804, 499-504 | 4 | 253 |
| 62 | Dephosphorylation and inactivation of Akt/PKB is counteracted by protein kinase CK2 in HEK 293T cells. *Cellular and Molecular Life Sciences*, **2009**, 66, 3363-73 | 10.3 | 52 |
| 61 | Quinalizarin as a potent, selective and cell-permeable inhibitor of protein kinase CK2. *Biochemical Journal*, **2009**, 421, 387-95 | 3.8 | 127 |
| 60 | The selectivity of inhibitors of protein kinase CK2: an update. *Biochemical Journal*, **2008**, 415, 353-65 | 3.8 | 193 |
| 59 | Lamin A Ser404 is a nuclear target of Akt phosphorylation in C2C12 cells. *Journal of Proteome Research*, **2008**, 7, 4727-35 | 5.6 | 64 |
| 58 | pLG72 modulates intracellular D-serine levels through its interaction with D-amino acid oxidase: effect on schizophrenia susceptibility. *Journal of Biological Chemistry*, **2008**, 283, 22244-56 | 5.4 | 123 |

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| 57 | Comparative analysis of CK2 expression and function in tumor cell lines displaying sensitivity vs. resistance to chemical induced apoptosis. *Molecular and Cellular Biochemistry*, **2008**, 316, 155-61 | 4.2 | 27 |
| 56 | Phosphorylation of the Saccharomyces cerevisiae Grx4p glutaredoxin by the Bud32p kinase unveils a novel signaling pathway involving Sch9p, a yeast member of the Akt / PKB subfamily. *FEBS Journal*, **2008**, 275, 5919-33 | 5.7 | 14 |
| 55 | Tetrabromocinnamic acid (TBCA) and related compounds represent a new class of specific protein kinase CK2 inhibitors. *ChemBioChem*, **2007**, 8, 129-39 | 3.8 | 104 |
| 54 | Pharmacological inhibition of protein kinase CK2 reverts the multidrug resistance phenotype of a CEM cell line characterized by high CK2 level. *Oncogene*, **2007**, 26, 6915-26 | 9.2 | 77 |
| 53 | Phosphorylation and activation of the atypical kinase p53-related protein kinase (PRPK) by Akt/PKB. *Cellular and Molecular Life Sciences*, **2007**, 64, 2680-9 | 10.3 | 21 |
| 52 | Salicylic acid activates nitric oxide synthesis in Arabidopsis. *Journal of Experimental Botany*, **2007**, 58, 1397-405 | 7 | 145 |
| 51 | Heterogeneity of CK2 phosphorylation sites in the NS5A protein of different hepatitis C virus genotypes. *Journal of Hepatology*, **2007**, 47, 768-76 | 13.4 | 14 |
| 50 | Role of Protein Kinase CK2 in the Retinoic Acid-Induced Differentiation of Acute Promyelocytic Leukemia Cells.. *Blood*, **2007**, 110, 879-879 | 2.2 | 0 |
| 49 | Multiple myeloma cell survival relies on high activity of protein kinase CK2. *Blood*, **2006**, 108, 1698-707 | 2.2 | 113 |
| 48 | The yeast cyclin-dependent kinase inhibitor Sic1 and mammalian p27Kip1 are functional homologues with a structurally conserved inhibitory domain. *Biochemical Journal*, **2005**, 387, 639-47 | 3.8 | 60 |
| 47 | Protein kinase CK2 phosphorylates and upregulates Akt/PKB. *Cell Death and Differentiation*, **2005**, 12, 668-77 | 12.7 | 244 |
| 46 | Development and exploitation of CK2 inhibitors. *Molecular and Cellular Biochemistry*, **2005**, 274, 69-76 | 4.2 | 83 |
| 45 | Optimization of protein kinase CK2 inhibitors derived from 4,5,6,7-tetrabromobenzimidazole. *Journal of Medicinal Chemistry*, **2004**, 47, 6239-47 | 8.3 | 151 |
| 44 | 2-Dimethylamino-4,5,6,7-tetrabromo-1H-benzimidazole: a novel powerful and selective inhibitor of protein kinase CK2. *Biochemical and Biophysical Research Communications*, **2004**, 321, 1040-4 | 3.4 | 160 |
| 43 | Inhibition of protein kinase CK2 by condensed polyphenolic derivatives. An in vitro and in vivo study. *Biochemistry*, **2004**, 43, 12931-6 | 3.2 | 82 |
| 42 | Analysis of the interaction between piD261/Bud32, an evolutionarily conserved protein kinase of Saccharomyces cerevisiae, and the Grx4 glutaredoxin. *Biochemical Journal*, **2004**, 377, 395-405 | 3.8 | 55 |
| 41 | Multiple Myeloma Cells Survival and Proliferation Rely on High Levels and Activity of the Serine-Threonine Kinase CK2.. *Blood*, **2004**, 104, 643-643 | 2.2 | 1 |
| 40 | Tyrosine phosphorylation of protein kinase CK2 by Src-related tyrosine kinases correlates with increased catalytic activity. *Biochemical Journal*, **2003**, 372, 841-9 | 3.8 | 42 |

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|---|---|---|---|
| 39 | Functional homology between yeast piD261/Bud32 and human PRPK: both phosphorylate p53 and PRPK partially complements piD261/Bud32 deficiency. *FEBS Letters*, **2003**, 549, 63-6 | 3.8 | 30 |
| 38 | Biochemical and three-dimensional-structural study of the specific inhibition of protein kinase CK2 by [5-oxo-5,6-dihydroindolo-(1,2-a)quinazolin-7-yl]acetic acid (IQA). *Biochemical Journal*, **2003**, 374, 639-46 | 3.8 | 127 |
| 37 | Protein kinase CK2 inhibitor 4,5,6,7-tetrabromobenzotriazole (TBB) induces apoptosis and caspase-dependent degradation of haematopoietic lineage cell-specific protein 1 (HS1) in Jurkat cells. *Biochemical Journal*, **2002**, 364, 41-7 | 3.8 | 200 |
| 36 | Increased activity of c-Src and Csk in fibroblasts transformed by v-src oncogene. *Biochemical and Biophysical Research Communications*, **2002**, 290, 790-5 | 3.4 | 3 |
| 35 | Autocatalytic tyrosine-phosphorylation of protein kinase CK2 alpha and alpha' subunits: implication of Tyr182. *Biochemical Journal*, **2001**, 357, 563-7 | 3.8 | 24 |
| 34 | Autocatalytic tyrosine-phosphorylation of protein kinase CK2 □ and □ subunits: implication of Tyr182. *Biochemical Journal*, **2001**, 357, 563-567 | 3.8 | 33 |
| 33 | Selectivity of 4,5,6,7-tetrabromobenzotriazole, an ATP site-directed inhibitor of protein kinase CK2 (□asein kinase-2□ *FEBS Letters*, **2001**, 496, 44-8 | 3.8 | 290 |
| 32 | The carboxy-terminal domain of Grp94 binds to protein kinase CK2 alpha but not to CK2 holoenzyme. *FEBS Letters*, **2001**, 505, 42-6 | 3.8 | 9 |
| 31 | Bovine prion protein as a modulator of protein kinase CK2. *Biochemical Journal*, **2000**, 352, 191 | 3.8 | 14 |
| 30 | Ser/Thr phosphorylation of hematopoietic specific protein 1 (HS1): implication of protein kinase CK2. *FEBS Journal*, **2000**, 267, 3065-72 | | 17 |
| 29 | pCMB treatment reveals the essential role of cysteinyl residues in conferring functional competence to the regulatory subunit of protein kinase CK2. *Biochemical and Biophysical Research Communications*, **2000**, 267, 427-32 | 3.4 | 8 |
| 28 | Hematopoietic lineage cell specific protein 1 associates with and down-regulates protein kinase CK2. *FEBS Letters*, **1999**, 461, 32-6 | 3.8 | 25 |
| 27 | Phosphatidylinositol 3-kinase is recruited to a specific site in the activated IL-1 receptor I. *FEBS Letters*, **1998**, 438, 49-54 | 3.8 | 62 |
| 26 | Spontaneous autophosphorylation of Lyn tyrosine kinase at both its activation segment and C-terminal tail confers altered substrate specificity. *Biochemistry*, **1998**, 37, 1438-46 | 3.2 | 31 |
| 25 | Src homology-2 domains protect phosphotyrosyl residues against enzymatic dephosphorylation. *Biochemical and Biophysical Research Communications*, **1998**, 243, 700-5 | 3.4 | 10 |
| 24 | Sequence specificity of C-terminal Src kinase (CSK)--a comparison with Src-related kinases c-Fgr and Lyn. *FEBS Journal*, **1997**, 246, 433-9 | | 28 |
| 23 | Specific stimulation of c-Fgr kinase by tyrosine-phosphorylated (poly)peptides--possible implication in the sequential mode of protein phosphorylation. *FEBS Journal*, **1997**, 245, 701-7 | | 4 |
| 22 | SH2 domains mediate the sequential phosphorylation of HS1 protein by p72syk and Src-related protein tyrosine kinases. *Biochemistry*, **1996**, 35, 5327-32 | 3.2 | 51 |

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|---|---|---|---|
| 21 | CD45 regulates apoptosis induced by extracellular adenosine triphosphate and cytotoxic T lymphocytes. *Biochemical and Biophysical Research Communications*, **1996**, 226, 769-76 | 3.4 | 12 |
| 20 | How do protein kinases recognize their substrates?. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1996**, 1314, 191-225 | 4.9 | 362 |
| 19 | Isolation from spleen of a 57-kDa protein substrate of the tyrosine kinase Lyn. Identification as a protein related to protein disulfide-isomerase and localisation of the phosphorylation sites. *FEBS Journal*, **1996**, 235, 18-25 | | 38 |
| 18 | A comparative study of the phosphotyrosyl phosphatase specificity of protein phosphatase type 2A and phosphotyrosyl phosphatase type 1B using phosphopeptides and the phosphoproteins p50/HS1, c-Fgr and Lyn. *FEBS Journal*, **1996**, 236, 548-57 | | 14 |
| 17 | The spleen protein-tyrosine kinase TPK-IIB is highly similar to the catalytic domain of p72syk. *FEBS Journal*, **1996**, 240, 400-7 | | 25 |
| 16 | Site specificity of p72syk protein tyrosine kinase: efficient phosphorylation of motifs recognized by Src homology 2 domains of the Src family. *FEBS Letters*, **1995**, 367, 149-52 | 3.8 | 66 |
| 15 | Different susceptibility of protein kinases to staurosporine inhibition. Kinetic studies and molecular bases for the resistance of protein kinase CK2. *FEBS Journal*, **1995**, 234, 317-22 | | 222 |
| 14 | Hierarchical phosphorylation of a 50-kDa protein by protein tyrosine kinases TPK-IIB and C-Fgr, and its identification as HS1 hematopoietic-lineage cell-specific protein. *FEBS Journal*, **1995**, 229, 164-70 | | 19 |
| 13 | Efficient Fmoc/solid-phase peptide synthesis of O-phosphotyrosyl-containing peptides and their use as phosphatase substrates. *International Journal of Peptide and Protein Research*, **1994**, 43, 39-46 | | 25 |
| 12 | Psoralen-fatty acid cycloadducts activate protein kinase C (PKC) in human platelets. *Journal of Photochemistry and Photobiology B: Biology*, **1994**, 22, 253-6 | 6.7 | 12 |
| 11 | Dephosphorylation of phosphopeptides by calcineurin (protein phosphatase 2B). *FEBS Journal*, **1994**, 219, 109-17 | | 68 |
| 10 | Specificity of T-cell protein tyrosine phosphatase toward phosphorylated synthetic peptides. *FEBS Journal*, **1993**, 211, 289-95 | | 52 |
| 9 | Purification and characterization of two casein kinases from ejaculated bovine spermatozoa. *Journal of Biochemistry*, **1992**, 112, 768-74 | 3.1 | 5 |
| 8 | The antioxidant butylated hydroxytoluene (BHT) inhibits the dioctanoylglycerol-evoked platelet response but potentiates that elicited by ionomycin. *Archives of Biochemistry and Biophysics*, **1992**, 294, 724-30 | 4.1 | 2 |
| 7 | The antioxidant butylated hydroxytoluene stimulates platelet protein kinase C and inhibits subsequent protein phosphorylation induced by thrombin. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1991**, 1094, 121-9 | 4.9 | 9 |
| 6 | Platelet activation by diacylglycerol or ionomycin is inhibited by nitroprusside. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1991**, 1094, 323-9 | 4.9 | 16 |
| 5 | Platelet responses promoted by the activation of protein kinase C or the increase of cytosolic Ca2+ are potentiated by adrenaline. Effects of cAMP and staurosporine. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1991**, 1092, 72-8 | 4.9 | 10 |
| 4 | A procedure allowing measurement of cytosolic Ca2+ in rat platelets. Inhibition of a plasma lipoprotein on fura 2-AM loading. *Thrombosis Research*, **1991**, 63, 47-57 | 8.2 | 7 |

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| 3 | Cyclic GMP and nitroprusside inhibit the activation of human platelets by fluoroaluminate. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1989**, 1014, 203-6 | 4.9 | 27 |
| 2 | Effects of calcium chelators, divalent cations and sulfhydryl reagents on calcium uptake and motility of bovine spermatozoa. *Cell Calcium*, **1988**, 9, 121-8 | 4 | 2 |
| 1 | Addiction of Cancer Cells to CK2: Survival at All Costs or AchillesQHeel?305-318 | | 1 |