

## PUBLICATIONS

- 1 S. CASANOVA, U. DONINI, N. ZINI, R. MORELLI, P. ZUCHELLI, Immunohistochemical staining on hydroxyethyl-metacrilate-embedded tissues, *J. Histochem. Cytochem.*, 31/8, 1000-1004, 1983,
- 2 N. M. MARALDI, A. GALANZI, N. ZINI, A. OGNIBENE, M. FRANCHI, S. CAPITANI, Uptake of tritiated phosphatidylcholine by isolated rat liver nuclei studied by electron microscope autoradiography in albumin embedded specimens, *Basic. Appl. Histochem.*, 29, 261-274, 1985,
- 3 N. M. MARALDI, F. MARINELLI, A. GALANZI, N. ZINI, A. OGNIBENE, R. DEL COCO, A. MATTEUCCI, S. PAPA, Ultrastructural organization of freeze-fractured interphase nuclei, *Biol. Cell.*, 56, 31-39, 1986,
- 4 N. ZINI, A. MATTEUCCI, S. SQUARZONI, A. GALANZI, R. RIZZOLI, S. PAPA, Electron microscopy microsampling of isolated nuclei sorted by flow cytometry, *Cytometry*, 7, 605-608, 1986,
- 5 P. SANTI, S. PAPA, R. DEL COCO, E. FALCIERI, N. ZINI, F. MARINELLI, N. M. MARALDI, Modifications of the chromatin arrangement induced by ethidium bromide in isolated nuclei, analyzed by electron microscopy and flow cytometry, *Biol. Cell*, 59, 43-54, 1987,
- 6 N. ZINI, G. MAZZOTTI, P. SANTI, R. RIZZOLI, A. GALANZI, R. RANA, N.M. MARALDI, Cytochemical localization of DNA loop attachment sites to the nuclear lamina and to the inner nuclear matrix, *Histochemistry*, 91, 199-204, 1989,
- 7 S. PAPA, M. VITALE, R. RIZZOLI, N. ZINI, A. MATTEUCCI, T. CECCHINI, N. M. MARALDI, Chromatin organization in rat testis nuclei. Flow cytometric detection of the morphological compaction, *Cell Biochem. Funct.*, 7, 205-212, 1989,
- 8 N. ZINI, N. M. MARALDI, A. M. MARTELLI, A. ANTONUCCI, P. SANTI, G. MAZZOTTI, R. RIZZOLI, F. A. MANZOLI, Phospholipase C digestion induced the removal of nuclear RNA: a cytochemical quantitative study, *Histochem. J.*, 21, 491-500, 1989,
- 9 G. MAZZOTTI, R. RIZZOLI, A. GALANZI, S. PAPA, M. VITALE, M. FALCONI, L. M. NERI, N. ZINI, N. M. MARALDI, High-resolution detection of newly synthesized DNA by anti-bromodeoxyuridine antibodies identifies specific chromatin domains, *J. Histochem. Cytochem.*, 38, 13-22, 1990,
- 10 S. SQUARZONI, N. ZINI, F. MARINELLI, N.M. MARALDI, Reduction of background labeling in colloidal gold-enzyme reactions, *Histochemistry*, 94, 297-301, 1990,
- 11 F. MARINELLI, E. FALCIERI, S. SQUARZONI, R. DEL COCO, N. ZINI, L. MANZOLI, N.M. MARALDI, Image analysis of the chromatin organization in the nuclear domains of freeze fractured hepatocytes and lymphocytes, *Biol. Cell.*, 70, 107-119, 1990,
- 12 C. NEGRI, R. CHIESA, A. CERINO, M. BESTAGNO, C. SALA, N. ZINI, N.M. MARALDI, G.C.B. ASTALDI RICOTTI, Monoclonal antibodies to human DNA Topoisomerase I and the two Isoforms of DNA Topoisomerase II: 170- and 180-KDa Isozymes, *Exp. Cell Res.*, 200, 452-459, 1992,
- 13 N. ZINI, A.M. MARTELLI, P. SABATELLI, S. SANTI, C. NEGRI, G.C.B. ASTALDI RICOTTI, M. MARALDI, The 180-KDa isoform of Topoisomerase II is localized in the nucleolus and belongs to the structural elements of the nucleolar remnant, *Exp. Cell Res.*, 200, 460-466, 1992,
- 14 N.M. MARALDI, G. MAZZOTTI, S. CAPITANI, R. RIZZOLI, N. ZINI, S. SQUARZONI, F.A. MANZOLI, Morphological evidence of function - related localization of phospholipids in the cell nucleus, *Adv. Enzyme Regul.*, 32, 73-90, 1992,

- 15 N.M. MARALDI, N. ZINI, S. SQUARZONI, R. DEL COCO, P. SABATELLI, F.A. MANZOLI, Intranuclear localization of phospholipids by ultrastructural cytochemistry, *J. Histochem. Cytochem.*, 40/9, 1383-1392, 1992,
- 16 B. SEVERI, M.P. LANDINI, G. CENACCHI, N. ZINI, N.M. MARALDI, Human cytomegalovirus nuclear and cytoplasmic dense bodies, *Arch. Virol.*, 123, 193-207, 1992,
- 17 M. SERRA, M.C. MORINI, K. SCOTLANDI, W.L. FISHER, N. ZINI, M.P. COLOMBO, M. CAMPANACCI, N.M. MARALDI, S. OLIVARI, N. BALDINI, Evaluation of Osteonectin as a diagnostic marker of osteogenic bone tumors, *Human Path.*, 23, 1326-1331, 1992,
- 18 N.M. MARALDI, S. SANTI, N. ZINI, A. OGNIBENE, R. RIZZOLI, G. MAZZOTTI, R. DI PRIMIO, R. BAREGGI, V. BERTAGNOLO, C. PAGLIARINI, S. CAPITANI, Decrease in nuclear phospholipids associated with DNA replication, *J. Cell Sci.*, 104, 853-859, 1993,
- 19 N. ZINI, A.M. MARTELLI, L. COCCO, F.A. MANZOLI, N.M. MARALDI, Phosphoinositidase C isoforms are specifically localized in the nuclear matrix and cytoskeleton of Swiss 3T3 cells, *Exp. Cell Res.*, 208, 257-269, 1993,
- 20 N.M. MARALDI, N. ZINI, S. SANTI, A. BAVELLONI, A. VALMORI, S. MARMIROLI, A. OGNIBENE, Phosphoinositidase C isozyme in SaOS-2 cells: immunocytochemical detection in nuclear and cytoplasmic compartments, *Biol. Cell.*, 79, 243-250, 1993,
- 21 N. ZINI, S. SANTI, A. OGNIBENE, A. BAVELLONI, L.M. NERI, A. VALMORI, E. MARIANI, C. NEGRI, G.C.B. ASTALDI-RICOTTI, N.M. MARALDI, Discrete localization of different DNA Topoisomerases in HeLa and K562 cell nuclei and subnuclear fractions, *Exp. Cell Res.*, 210, 336-348, 1994,
- 22 A. DEGRASSI, A. DE MARIA, G. LISIGNOLI, N. ZINI, P. SABATELLI, L. CIRILLO, M.C.G. MONACO, D.M. HILBERT, F.S. AMBESI-IMPIOMBATO, N.M. MARALDI, A. FACCHINI, Transfer of HIV-1 to human tonsillar stromal cells following cocultivation with infected lymphocytes, *AIDS Res. Hum. Retrov.*, 10/6, 675-682, 1994,
- 23 N. ZINI, M. MAZZONI, L.M. NERI, A. BAVELLONI, S. MARMIROLI, S. CAPITANI, N.M. MARALDI, Immunocytochemical detection of the specific association of different PIC isoforms with cytoskeletal and nuclear matrix compartments in PC12 cells, *Eur. J. Cell Biol.*, 65, 206-213, 1994,
- 24 N. ZINI, G. MAZZOTTI, A. VALMORI, M. BARBIERI, N.M. MARALDI, Immunocytochemical detection of phosphatidylinositol 4,5-bisphosphate in epon embedded specimens, *J. Submicr. Cytol. Path.*, 27, 115,118, 1995,
- 25 G. MAZZOTTI, N. ZINI, E. RIZZI, R. RIZZOLI, A. GALANZI, A. OGNIBENE, S. SANTI, A. MATTEUCCI, A.M. MARTELLI, N.M. MARALDI, Immunocytochemical detection of phosphatidylinositol 4,5-Bisphosphate localization sites within the nucleus, *J. Histochem. Cytochem.*, 43/2, 181-191, 1995,
- 26 N. ZINI, A.M. MARTELLI, L.M. NERI, A. BAVELLONI, P. SABATELLI, S. SANTI, N.M. MARALDI, Immunocytochemical evaluation of protein Kinase C translocation to the inner nuclear matrix in 3T3 mouse fibroblasts after IGF-I treatment, *Histochemistry*, 103, 447-457, 1995,
- 27 N. ZINI, A. OGNIBENE, S. MARMIROLI, A. BAVELLONI, M.C. MALTARELLO, I. FAENZA, A. VALMORI, N.M. MARALDI, The intranuclear amount of phospholipase C beta1 decreases following cell differentiation in Friend cells, whereas gamma1 isoform is not affected, *Eur. J. Cell Biol.*, 68, 25-34, 1995,
- 28 N.M. MARALDI, N. ZINI, A. OGNIBENE, A.M. MARTELLI, M. BARBIERI, G. MAZZOTTI, F.A. MANZOLI, Immunocytochemical detection of the intranuclear variations of phosphatidylinositol 4,5-bisphosphate amount associated with changes of activity and amount of phospholipase C Beta1 in cells exposed to mitogenic or differentiating agonists, *Biol. Cell*, 83, 201-210, 1995,

- 29 N. BALDINI, K. SCOTLANDI, M. SERRA, T. SHIKITA, N. ZINI, A. OGNIBENE, S. SANTI, R. FERRACINI, N.M. MARALDI, Nuclear immunolocalization of P-glycoprotein in multidrug-resistant cell lines showing similar mechanisms of doxorubicin distribution, *Eur. J. Cell Biol.*, 68, 226-239, 1995,
- 30 N. ZINI, K. SCOTLANDI, N. BALDINI, G. NINI, P. SABATELLI, N.M. MARALDI, Multidrug-resistance (MDR) phenotype of human osteosarcoma cells evaluated by quantitative morphological and electron microscopy analyses, *Biol. Cell*, 84, 195-204, 1995,
- 31 N.M. MARALDI, N. ZINI, P. SABATELLI, A. VALMORI, K. SCOTLANDI, M. SERRA, N. BALDINI, Ultrastructural features and P-glycoprotein immunolocalization in Saos-2/DX580 multidrug-resistant human osteosarcoma cells, *J. Submicr. Cytol. Path.*, 28/1, 93-100, 1996,
- 32 W. ZOLI, L. RONCUZZI, A. FLAMIGNI, R. GRUPPIONI, A. SENSI, N. ZINI, D. AMADORI, A. GASPARI-CAMPANI, A new cell line from human infiltrating ductal carcinoma of the breast: establishment and characterization, *J. Cancer Res. Clin. Oncol.*, 122, 237-242, 1996,
- 33 N. ZINI P. SABATELLI, G. SILVESTRINI, E. BONUCCI, N.M. MARALDI, Influence of specimen preparation on the identification of phospholipids by the phospholipase A2-gold method in mineralizing cartilage and bone, *Histochem. Cell Biol.*, 105, 283-296, 1996,
- 34 N. ZINI, P. SABATELLI, I. FAENZA, A. OGNIBENE, N.M. MARALDI, Interleukin-1 alfa induces variations of the intranuclear amount of phosphatidylinositol 4,5-bisphosphate and phospholipase C Beta1 in human osteosarcoma Saos-2 cells, *Histochem. J.*, 28, 495-504, 1996,
- 35 S. MARMIROLI, N. ZINI, A. BAVELLONI, I. FAENZA, A. OGNIBENE, N.M. MARALDI, Transfected Saos-2 cells overexpressing phosphoinositidase C Beta1 isoform accumulate it within the nucleus, *Biol. Cell.*, 86, 121-126, 1996,
- 36 E. CARAMELLI, A. MATTEUCCI, N. ZINI, C. CARINI, L. GUIDOTTI, D. RICCI, N.M. MARALDI, S. CAPITANI, Nuclear phosphoinositide-specific phospholipase C, phosphatidylinositol 4,5-bisphosphate and protein kinase C during rat spermatogenesis, *Eur. J. Cell Biol.*, 71, 154-164, 1996,
- 37 G. SILVESTRINI, N. ZINI, P. SABATELLI, P. MOCETTI, N.M. MARALDI, E. BONUCCI, Combined use of malachite green fixation and PLA2-Gold complex technique to localize phospholipids in areas of early calcification of rat epiphyseal cartilage and bone, *Bone*, 18/6, 559-565, 1996,
- 38 N. ZINI, A. OGNIBENE, A. BAVELLONI, S. SANTI, P. SABATELLI, N. BALDINI, K. SCOTLANDI, M. SERRA, N.M. MARALDI, Cytoplasmic and nuclear localization sites of phosphatidylinositol 3-kinase in human osteosarcoma sensitive and multidrug-resistant Saos-2 cells, *Histochem. Cell Biol.*, 106, 457-464, 1996,
- 39 N. ZINI, L.M. NERI, A. OGNIBENE, K. SCOTLANDI, N. BALDINI, N.M. MARALDI, Increase of nuclear phosphatidylinositol 4,5-bisphosphate and phospholipase C beta1 is not associated to variations of protein kinase C in multidrug-resistant Saos-2 cells, *Microsc. Res. Tech.*, 36, 172-178, 1997,
- 40 N. ZINI, A. MATTEUCCI, P. SABATELLI, A. VALMORI, E. CARAMELLI, N.M. MARALDI, Protein kinase C isoforms undergo quantitative variations during rat spermatogenesis and are selectively retained at specific spermatozoon sites, *Eur. J. Cell Biol.*, 72, 142-150, 1997,
- 41 W. ZOLI, L. RONCUZZI, N. ZINI, L. LENZI, R. GRUPPIONI, F. BARZANTI, A. SENSI, D. AMADORI, A. GASPERI CAMPANI, Establishment and characterization of two new cell lines derived from human metastatic breast carcinomas, *Breast Cancer Res. Tr.*, 43, 141-151, 1997,
- 42 A. GASPARI-CAMPANI, L. RONCUZZI, W. ZOLI, L. LENZI, R. GRUPPIONI, A. SENSI, N. ZINI, F. FARABEGOLI, D. AMADORI, Chromosomal alterations, biological features and In Vitro chemosensitivity of SCLC-R1, a new cell line from human metastatic small cell lung carcinoma, *Eur. J. Cancer.*, 34/5 724-730, 1998,

- 43 W. ZOLI, L. RICOTTI, L. LENZI, L. RONCUZZI, N. ZINI, D. AMADORI, R. GRUPPIONI, A. SENSI, A. GASPARI-CAMPANI, Molecular genetics and in vitro sensitivity of a new human cell line, KKP, from a gastric adenocarcinoma, *Cancer Genet. Cytogen.*, 105, 43-49, 1998,
- 44 N.M. MARALDI, N. ZINI, S. SANTI, A. OGNIBENE, R. RIZZOLI, G. MAZZOTTI, F.A. MANZOLI, Cytochemistry of the functional domains of the nucleus in normal and in pathologic conditions, *Eur. J. Histochem.*, 42, 41-53, 1998,
- 45 A. GASPERI-CAMPANI, L. RONCUZZI, L. RICOTTI, L. LENZI, R. GRUPPIONI, A. SENSI, N. ZINI, W. ZOLI, D. AMADORI, Molecular and biological features of two new human squamous and adenocarcinoma of the lung cell lines, *Cancer Genet. Cytogen.*, 107, 11-20, 1998,
- 46 N. ZINI, M.C. BATTISTA, S. SANTI, M. RICCIO, G. BERGAMINI, M.P. LANDINI, N.M. MARALDI, The novel structural protein of human cytomegalovirus, pUL25, is localized in the viral tegument, *J. Virol.*, 73, 6073-6075, 1999,
- 47 N.M. MARALDI, N. ZINI, S. SANTI, K. SCOTLANDI, M. SERRA, N. BALDINI, P-glycoprotein subcellular localization and cell morphotype in MDR1 gene-transfected human osteosarcoma cells, *Biol. Cell*, 91, 17-28, 1999,
- 48 A. BAVELLONI, S. SANTI, A. SIRRI, M. RICCIO, I.FAENZA, N. ZINI, S. CECCHI, A. FERRI, P. AURON, N.M. MARALDI, S. MARMIROLI, Phosphatidylinositol 3-kinase translocation to the nucleus is induced by interleukin 1 and prevented by mutation of interleukin 1 receptor in human osteosarcoma Saos - 2 cells, *J. Cell Sci.*, 112, 631-640, 1999,
- 49 N.M. MARALDI, N. ZINI, S. SANTI, F.A. MANZOLI, Topology of inositol lipid signal transduction in the nucleus, *J. Cell. Physiol.*, 181, 203-217, 1999,
- 50 N.M. MARALDI, N. ZINI, S. SANTI, M. RICCIO, M. FALCONI, S. CAPITANI, F.A. MANZOLI, Nuclear domains involved in inositol lipid signal transduction, *Adv. Enzyme Regul.*, 40, 219-253, 2000,
- 51 N. ZINI, S. SANTI, M. RICCIO, M.P. LANDINI, M.C. BATTISTA, N.M. MARALDI, pUL25 immunolocalization in human cytomegalovirus-infected and gene-transfected cells, *Arch. Virol.*, 145, 795-803, 2000,
- 52 N.M. MARALDI, N. ZINI, S. SANTI, F.A. MANZOLI, Intranuclear domains involved in inositol lipid signal transduction, *Eur. J. Histochem.*, 44, 81-87, 2000,
- 53 P. SANTI, N. ZINI, S. SANTI, M. RICCIO, G. GIULIANI PICCARI, A.DE POL, N.M. Increased activity and nuclear localisation of inositol lipid signal transduction enzymes in rat hepatoma cells, *Int. J. Oncol.*, 18, 165-174, 2001,
- 54 G. LISIGNOLI, N. ZINI, G. REMIDDI, A. PIACENTINI, A. PUGGIOLI, C. TRIMARCHI, M. FINI, N.M. MARALDI, A. FACCHINI, Basic fibroblast growth factor enhances in vitro mineralization of rat bone marrow stromal cells grown on non-woven hyaluronic acid based polymer scaffold, *Biomaterials*, 22, 2095-2105, 2001,
- 55 N. ZINI, C. TRIMARCHI, P.P. CLAUDIO, P. STIEGLER, F. MARINELLI, M.C. MALTARELLO, D. LA SALA, G. DE FALCO, G. RUSSO, G. AMMIRATI, N.M. MARALDI, A. GIORDANO, C. CINTI, pRb2/p130 and p107 control cell growth by multiple strategies and in association with different compartments within the nucleus, *J. Cell. Physiol.*, 189, 34-44, 2001,
- 56 G. LISIGNOLI, G. REMIDDI, L. CATTINI B. COCCHINI, N. ZINI, M. FINI, F. GRASSI, A. PIACENTINI, A. FACCHINI, An elevated number of differentiated osteoblast colonies can be obtained from rat bone marrow stromal cells using a gradient isolation procedure, *Connect. Tissue Res.*, 42, 49-58, 2001,

- 57 G. LISIGNOLI, F. GRASSI, N. ZINI, S. TONEGUZZI, A. PIACENTINI, D. GUIDOLIN, C. BEVILACQUA, A. FACCHINI, Anti-Fas-induced apoptosis in chondrocytes reduced by hyaluronan: evidence for CD44 and CD54 (intercellular adhesion molecule 1), *Arthritis. Rheum.*, 44, 1800-1807, 2001,
- 58 S. PIGNATELLI, P. DAL MONTE, N. ZINI, A. VALMORI, N.M. MARALDI, M.P. LANDINI Immunoelectron microscopy analysis of HCMV gpUL73 (gN) localization, *Arch. Virol.*, 147/6, 1247-1256, 2002,
- 59 P. DAL MONTE, S. PIGNATELLI, N. ZINI, N.M. MARALDI, E. PERRET, M.C. PREVOST, M.P. LANDINI, Analysis of intracellular and intraviral localization of the human cytomegalovirus UL53 protein, *J. Gen. Virol.*, 83/Pt5, 1005-1012, 2002,
- 60 P. SANTI, L. SOLIMANDO, N. ZINI, S. SANTI, M. RICCIO, L. GUIDOTTI, Inositol-specific phospholipase C in low and fast proliferating hepatoma cell lines, *Int. J. Oncol.*, 22, 1147-1153, 2003,
- 61 E. ALBI, G. ROSSI, N.M. MARALDI, M.V. MAGNI, S. CATALDI, L. SOLIMANDO, N. ZINI, Involvement of nuclear phosphatidylinositol-dependent phospholipases C in cell cycle progression during rat liver regeneration, *J. Cell. Physiol.*, 197, 181-188, 2003,
- 62 N. ZINI, G. LISIGNOLI, L. SOLIMANDO, A. BAVELLONI, F. GRASSI, L. GUIDOTTI, C. TRIMARCHI, A. FACCHINI, N.M. MARALDI, IL1-beta and TNF-alpha induce changes in the nuclear polyphosphoinositide signalling system in osteoblasts similar to that occurring in patients with rheumatoid arthritis: an immunochemical and immunocytochemical study, *Histochem. Cell. Biol.*, 120, 243-250, 2003,
- 63 N. ZINI, G. LISIGNOLI, L. SOLIMANDO, A. BAVELLONI, A. VALMORI, S. CRISTINO, A.M. MARTELLI, A. FACCHINI, N.M. MARALDI, Quantitative immunodetection of key elements of polyphosphoinositide signal transduction in Osteoblasts from arthritic patients shows a direct correlation with cell proliferation, *Histochem. Cell Biol.*, 124, 131-137, 2005,
- 64 A. RUGGERI Jr, L. MONTEBUGNOLI, A. MATTEUCCI, N. ZINI, L. SOLIMANDO, D. SERVIDIO, P. SUPPA, M. CADENARO, L. COCCO, L. BRESCHI, Cyclosporin A specifically affects nuclear PLC  $\beta$  in immunodepressed heart transplant patients with Gingival overgrowth, *J. Dent. Res.* 84,747-751, 2005,
- 65 G. LISIGNOLI, S. CRISTINO, A. PIACENTINI, S. TONEGUZZI, F. GRASSI, C. CAVALLO, N. ZINI, L. SOLIMANDO, N.M. MARALDI, A. FACCHINI, Cellular and molecular events during chondrogenesis of human mesenchymal stromal cells grown in a three-dimensional hyaluronan based scaffold, *Biomaterials*, 26,5677-5686, 2005,
- 66 G. LISIGNOLI, S. CRISTINO, A. PIACENTINI, N. ZINI, D. NOEL, C. JORGENSEN, A. FACCHINI, Chondrogenic differentiation of murine and human mesenchymal stromal cells in a hyaluronic acid scaffold: differences in gene expression and cell morphology, *J. Biomed. Mater. Res. A.*, 77, 497-506, 2006,
- 67 S. AVNET, A. LAMOLINARA, N. ZINI, L. SOLIMANDO, G. QUACQUARUCCIO, D. GRANCHI, N.M. MARALDI, A. GIUNTI, N. BALDINI, Effects of antisense mediated inhibition of cathepsin K on human osteoclasts obtained from peripheral blood, *J. Orthop. Res.*, 24, 1699-1708, 2006,
- 68 C. EVANGELISTI, M. RICCIO, I. FAENZA, N. ZINI, Y. HOZUMI, K. GOTO, L. COCCO, A.M. MARTELLI, Subnuclear localization and differentiation-dependent increased expression of DGK- $\zeta$  in C2C12 mouse myoblasts, *J. Cell. Physiol.*, 209, 370-378, 2006,
- 69 ZINI N, BAVELLONI A, LISIGNOLI G, GHISU S, VALMORI A, MARTELLI AM, FACCHINI A, MARALDI NM. PKC-zeta expression is lower in osteoblasts from arthritic patients: IL1-beta and TNF-alpha induce a similar decrease in non-arthritic human osteoblasts, *J Cell Biochem.*, 103,547-555,2008,

- 70 ZINI N, AVNET S, GHISU S, MARALDI NM, SQUARZONI S, BALDINI N, LATTANZI G, Effects of prelamin A processing inhibitors on the differentiation and activity of human osteoclasts, *J Cell Biochem.*, 105,34-40, 2008
- 71 TRUBIANI O, ORSINI G, ZINI N, DI IORIO D, PICCIRILLI M, PIATTELLI A, CAPUTI S, Regenerative potential of human periodontal ligament derived stem cells on three-dimensional biomaterials: a morphological report, *J Biomed Mater Res A.*, 87,986-993, 2008,
- 72 TRUBIANI O, ISGRO A, ZINI N, ANTONUCCI I, AIUTI F, DI PRIMIO R, NANCI A, CAPUTI S, PAGANELLI R., Functional interleukin-7/interleukin-7Ralpha, and SDF-1alpha/CXCR4 are expressed by human periodontal ligament derived mesenchymal stem cells. *J Cell Physiol.* 214,706-713, 2008,
- 73 TONNARELLI B, MANFERDINI C, PIACENTINI A, CODELUPPI K, ZINI N, GHISU S, FACCHINI A, LISIGNOLI G., Surface-dependent modulation of proliferation, bone matrix molecules, and inflammatory factors in human osteoblasts. *J Biomed Mater Res A.*, 89,687-696, 2009,
- 74 LISIGNOLI G, CODELUPPI K, TODOERTI K, MANFERDINI C, PIACENTINI A, ZINI N, GRASSI F, CATTINI L, PIVA R, RIZZOLI V, FACCHINI A, GIULIANI N, NERI A., Gene array profile identifies collagen type XV as a novel human osteoblast-secreted matrix protein, *J Cell Physiol.*, 220, 401-409, 2009,
- 75 MANFERDINI C, GUARINO V, ZINI N, RAUCCI MG, FERRARI A, GRASSI F, GABUSI E, SQUARZONI S, FACCHINI A, AMBROSIO L, LISIGNOLI G., Mineralization behavior with mesenchymal stromal cells in a biomimetic hyaluronic acid-based scaffold., *Biomaterials*, 31,3986-3996, 2010,
- 76 SALERNO M, CENNI E, FOTIA C, AVNET S, GRANCHI D, CASTELLI F, MICIELI D, PIGNATELLO R, CAPULLI M, RUCCI N, ANGELUCCI A, DEL FATTORE A, TETI A, ZINI N, GIUNTI A, BALDINI N. Bone-targeted doxorubicin-loaded nanoparticles as a tool for the treatment of skeletal metastases, *Curr Cancer Drug Targets*, 10, 649-659, 2010,
- 77 MANFERDINI C, GABUSI E, GRASSI F, PIACENTINI A, CATTINI L, ZINI N, FILARDO G, FACCHINI A, LISIGNOLI G., Evidence of specific characteristics and osteogenic potentiality in bone cells from tibia, *J Cell Physiol.*, 226, 2675-2682,2011,
- 78 TONI R, TAMPIERI A, ZINI N, STRUSI V, SANDRI M, DALLATANA D, SPALETTA G, BASSOLI E, GATTO A, FERRARI A, MARTIN I., Ex situ bioengineering of bioartificial endocrine glands: a new frontier in regenerative medicine of soft tissue organs, *Ann Anat.* , 193, 381-394, 2011,
- 79 GRIGOLO B, DESANDO G, CAVALLO C, ZINI N, GHISU S, FACCHINI A., Evaluation of chondrocyte behavior in a new equine collagen scaffold useful for cartilage repair., *J Biol Regul Homeost Agents*, 25(2 Suppl):S53-62,2011,
- 80 GRIGOLO B, FIORINI M, MANFERDINI C, CAVALLO C, GABUSI E, ZINI N, DOLCINI L, NICOLETTI A, PRESSATO D, FACCHINI A, LISIGNOLI G., Chemical-physical properties and in vitro cell culturing of a novel biphasic bio-mimetic scaffold for osteo-chondral tissue regeneration., *J Biol Regul Homeost Agents*, 25(2 Suppl):S3-13, 2011,
- 81 GABUSI E, MANFERDINI C, GRASSI F, PIACENTINI A, CATTINI L, FILARDO G, LAMBERTINI E, PIVA R, ZINI N, FACCHINI A, LISIGNOLI G., Extracellular calcium chronically induced human osteoblasts effects: specific modulation of osteocalcin and collagen type XV. *J Cell Physiol.*, 227, 3151-3161, 2012,
- 82 CAVALLO C, DESANDO G, COLUMBARO M, FERRARI A, ZINI N, FACCHINI A, GRIGOLO B., Chondrogenic differentiation of bone marrow concentrate grown onto a hylauronan scaffold: rationale for its use in the treatment of cartilage lesions, *J Biomed Mater Res A*, 101, 1559-1570, 2013,

- 83 AVNET S, SALERNO M, ZINI N, ALBERGHINI M, GIBELLINI D, BALDINI N, Sustained autocrine induction and impaired negative feedback of osteoclastogenesis in CD14(+) cells of giant cell tumor of bone, *Am J Pathol*, 182, 1357-1366, 2013,
- 84 AVNET S, DI POMPO G, LEMMA S, SALERNO M, PERUT F, BONUCCELLI G, GRANCHI D, ZINI N, BALDINI N, V-ATPase is a candidate therapeutic target for Ewing sarcoma., *Biochim Biophys Acta*, 1832, 1105-1116, 2013,
- 85 LISIGNOLI G, MANFERDINI C, LAMBERTINI E, ZINI N, ANGELOZZI M, GABUSI E, GAMBARI L, PENOLAZZI L, LOLLI A, FACCHINI A, PIVA R ,Chondrogenic potential of Slug-depleted human mesenchymal stem cells, *Tissue Eng Part A*, 20, 2795-2805, 2014,
- 86 ZAMPARELLI A, ZINI N, CATTINI L, SPALETTA G, DALLATANA D, BASSI E, BARBARO F, IAFISCO M, MOSCA S, PARRILLI A, FINI M, GIARDINO R, SANDRI M, SPRIO S, TAMPIERI A, MARALDI NM, TONI R. Growth on poly(L-lactic acid) porous scaffold preserves CD73 and CD90 immunophenotype markers of rat bone marrow mesenchymal stromal cells, *J Mater Sci Mater Med*, 25, 2421-2436, 2014,
- 87 TORREGGIANI E, PERUT F, RONCUZZI L, ZINI N, BAGLIO SR, BALDINI N, Exosomes: novel effectors of human platelet lysate activit, *Eur Cell Mater*, 28, 137-51, 2014,
- 88 KOPPERS-LALIC D, HACKENBERG M, BIJNSDORP IV, VAN EIJDHOVEN MA, SADEK P, SIE D, ZINI N, MIDDELDORP JM, YLSTRA B, DE MENEZES RX, WÜRDINGER T, MEIJER GA, PEGTEL DM, Nontemplated nucleotide additions distinguish the small RNA composition in cells from exosomes, *Cell Rep*, 8, 1649-1658, 2014,
- 89 ZULIAN A, TAGLIAVINI F, RIZZO E, PELLEGRINI C, SARDONE F, ZINI N, MARALDI NM, SANTI S, FALDINI C, MERLINI L, PETRONILLI V, BERNARDI P, SABATELLI P, Melanocytes from Patients Affected by Ullrich Congenital Muscular Dystrophy and Bethlem Myopathy have Dysfunctional Mitochondria That Can be Rescued with Cyclophilin Inhibitors, *Front Aging Neurosci*, 6, 324, 2014,
- 90 GRIGOLO B, CAVALLO C, DESANDO G, MANFERDINI C, LISIGNOLI G, FERRARI A, ZINI N, FACCHINI A, Novel nano-composite biomimetic biomaterial allows chondrogenic and osteogenic differentiation of bone marrow concentrate derived cells, *J Mater Sci Mater Med*, 26, 173, 2015,
- 91 LAMBERTINI E, PENOLAZZI L, MORGANTI C, LISIGNOLI G, ZINI N, ANGELOZZI M, BONORA M, FERRONI L, PINTON P, ZAVAN B, PIVA R, Osteogenic differentiation of human MSCs: Specific occupancy of the mitochondrial DNA by NFATc1 transcription factor, *Int J Biochem Cell Biol*, 64, 212-219, 2015,
- 92 BAGLIO SR, ROOIJERS K, KOPPERS-LALIC D, VERWEIJ FJ, PÉREZ LANZÓN M, ZINI N, NAAIJKENS B, PERUT F, NIESSEN HW, BALDINI N, PEGTEL DM, Human bone marrow- and adipose-mesenchymal stem cells secrete exosomes enriched in distinctive miRNA and tRNA species, *Stem Cell Res Ther*, 6, 127, 2015,
- 93 TRUBIANI O, PIATTELLI A, GATTA V, MARCHISIO M, DIOMEDE F, D'AURORA M, MERCIARO I, PIERDOMENICO L, MARALDI NM, ZINI N, Assessment of an efficient xeno-free culture system of human periodontal ligament stem cells, *Tissue Eng Part C Methods*, 21, 52-64, 2015,
- 94 MANFERDINI C, CAVALLO C, GRIGOLO B, FIORINI M, NICOLETTI A, GABUSI E, ZINI N, PRESSATO D, FACCHINI A, LISIGNOLI G, Specific inductive potential of a novel nanocomposite biomimetic biomaterial for osteochondral tissue regeneration, *J Tissue Eng Regen Med*, 10, 374-391, 2016,

- 95 MANESCU A, GIULIANI A, MOHAMMADI S, TROMBA G, MAZZONI S, DIOMEDE F, ZINI N, PIATTELLI A, TRUBIANI O, Osteogenic potential of dualblocks cultured with human periodontal ligament stem cells: in vitro and synchrotron microtomography study, *J Periodontal Res*, 51, 112-124, 2016,
- 96 KOPPERS-LALIC D, HACKENBERG M, DE MENEZES R, MISOVIC B, WACHALSKA M, GELDOLF A, ZINI N, DE REIJE T, WURDINGER T, VIS A, VAN MOORSELAAR J, PEGTEL M, BIJNSDORP I, Non-invasive prostate cancer detection by measuring miRNA variants (isomiRs) in urine extracellular vesicles, *Oncotarget*, 7, 22566-22578, 2016,
- 97 TORREGGIANI E, RONCUZZI L, PERUT F, ZINI N, BALDINI N, Multimodal transfer of MDR by exosomes in human osteosarcoma, *Int J Oncol*, 49, 189-96, 2016,
- 98 CAVALLO C, DESANDO G, FERRARI A, ZINI N, MARIANI E, GRIGOLO B, Hyaluronan scaffold supports osteogenic differentiation of bone marrow concentrate cells, *J Biol Regul Homeost Agents*, 30, 409-20, 2016,
- 99 AVNET S, LEMMA S, CORTINI M, PELLEGRINI P, PERUT F, ZINI N, KUSUZAKI K, CHANO T, GRISENDI G, DOMINICI M, DE MILITO A, BALDINI N, Altered pH gradient at the plasma membrane of osteosarcoma cells is a key mechanism of drug resistance, *Oncotarget*, 7, 63408-63423, 2016,
- 100 LEMMA S, SBOARINA M, PORPORATO PE, ZINI N, SONVEAUX P, DI POMPO G, BALDINI N, AVNET S, Energy metabolism in osteoclast formation and activity, *Int J Biochem Cell Biol*, 79, 168-180, 2016,
- 101 DIOMEDE F, ZINI N, GATTA V, FULLE S, MERCIARO I, D'AURORA M, LA ROVERE RM, TRAINI T, PIZZICANNELLA J, BALLERINI P, CAPUTI S, PIATTELLI A, TRUBIANI O, Human periodontal ligament stem cells cultured onto cortico-cancellous scaffold drive bone regenerative process, *Eur Cell Mater*, 32, 181-201, 2016
- 102 MANARA MC, TERRACCIANO M, MANCARELLA C, SCIANDRA M, GUERZONI C, PASELLO M, GRILLI A, ZINI N, PICCI P, COLOMBO MP, MORRIONE A, SCOTLANDI K, CD99 triggering induces methuosis of Ewing sarcoma cells through IGF-1R/RAS/Rac1 signaling, *Oncotarget*, 7, 79925-79942, 2016,
- 103 BAGLIO SR, LAGERWEIJ T, PÉREZ-LANZÓN M, HO XD, LÉVEILLÉ N, MELO SA, CLETON-JANSEN AM, JORDANOVA ES, RONCUZZI L, GRECO M, VAN EIJNDHOVEN MAJ, GRISENDI G, DOMINICI M, BONAFEDE R, LOUGHEED SM, DE GRUIJL TD, ZINI N, CERVO S, STEFFAN A, CANZONIERI V, MARTSON A, MAASALU K, KÖKS S, WURDINGER T, BALDINI N, PEGTEL DM, Blocking Tumor-Educated MSC Paracrine Activity Halts Osteosarcoma Progression, *Clin Cancer Res*, 23, 3721-3733, 2017, Erratum in: *Clin Cancer Res*, 24, 724, 2018,
- 104 BORIANI F, FAZIO N, FOTIA C, SAVARINO L, NICOLI ALDINI N, MARTINI L, ZINI N, BERNARDINI M, BALDINI N, A novel technique for decellularization of allogenic nerves and in vivo study of their use for peripheral nerve reconstruction, *J Biomed Mater Res A*, 105, 2228-2240, 2017,
- 105 MANFERDINI C, ZINI N, GABUSI E, PAOLELLA F, LAMBERTINI E, PENOLAZZI L, PIVA R, LISIGNOLI G, Immunoelectron microscopic localization of Collagen type XV during human mesenchymal stem cells mineralization, *Connect Tissue Res*, 59, 42-45, 2018,
- 106 BALDINI N, TORREGGIANI E, RONCUZZI L, PERUT F, ZINI N, AVNET S, Exosome-like nanovesicles isolated from Citrus limon L. exert antioxidative effect, *Curr Pharm Biotechnol*, 19, 877-885, 2018,
- 107 DIOMEDE F, ZINI N, PIZZICANNELLA J, MERCIARO I, PIZZICANNELLA G, D'ORAZIO M, PIATTELLI A, TRUBIANI O, 5-Aza Exposure Improves Reprogramming Process Through Embryoid Body Formation in Human Gingival Stem Cells, *Front Genet*, 8, 9:419, 2018,



- 108 MANFERDINI C, GABUSI E, SARTORE L, DEY K, AGNELLI S, ALMICI C, BIANCHETTI A, ZINI N, RUSSO D, RE F, MARIANI E, LISIGNOLI G, Chitosan-based scaffold counteracts hypertrophic and fibrotic markers in chondrogenic differentiated mesenchymal stromal cell, *J Tissue Eng Regen Med*, 13, 1896-1911, 2019,
- 109 BORIANI F, SAVARINO L, FAZIO N, PEDRINI FA, FINI M, NICOLI ALDINI N, MARTINI L, ZINI N, BERNARDINI M, BOLOGNESI F, MARCHETTI C, BALDINI N, Auto-Allo Graft Parallel Juxtaposition for Improved Neuroregeneration in Peripheral Nerve Reconstruction Based on Acellular Nerve Allografts. *Ann Plast Surg*, 83, 318-325, 2019,
- 110 PERUT F, RONCUZZI L, ZINI N, MASSA A, BALDINI N, Extracellular Nanovesicles Secreted by Human Osteosarcoma Cells Promote Angiogenesis. *Cancers*, 11(6), 2019,
- 111 BARBARO F, CONSOLINI E, TOSCANI G, ZINI N, DALLATANA D, SETTI P, MOSCA S, DI CONZA G, BASSI E, QUARANTINI E, QUARANTINI M, RAPOSIO E, GORRERI M, PORRO A, TONI R, The masks of Lorenzo Tenchini: their anatomy and surgical/bioengineering clues. *J Anat.*, 235,1036-1044, 2019,