

Curriculum Vitae of Nicoletta Zini

PERSONAL DATA

Name: Nicoletta

Surname: Zini

Date of birth: December 04, 1958

Position: First Researcher

EDUCATION AND TRAINING

From/to	Degree/training	Field of study	Institution	City
1981	Degree	Biological Sciences	University of Bologna	Bologna

RESEARCH AND PROFESSIONAL EXPERIENCE

From/to	Position	Institution	City	Country
2007/present	First Researcher	CNR Institute of Molecular Genetics Bologna	Bologna	Italy
2002/2006	First Researcher	CNR Institute of Organ Transplant and Immunocytology	Bologna	Italy
1983/2001	Researcher	CNR Institute of Normal and Pathologic Cytomorphology	Bologna	Italy

NARRATIVE BIOSKETCH

The scientific activity has concerned the study of ultrastructure and function of interphasic nucleus, and functional analysis of intranuclear distribution of inositide-dependent signal transduction system elements. More recently, osteogenic and chondrogenic differentiation of cell progenitors grown on biocompatible materials have been investigated by electron microscopy, in order to clarify some aspects of cells/extracellular matrix and biomaterials used in osteo-reparative process, interaction. Further studies have been conducted to study the behavior of cells grown on 3-D biocompatible scaffolds which reproduce part of the adult organ morphology (organomorphic scaffold). Research projects: 2011-2014 involved in Firb (MIUR) project (RBAP10MLK7_004); 2010-2012 coordinator of PRIN 2008(MIUR) project research unit (2008ZCCJX4_005)(€ 24000); 2007-2012 involved in Firb (MIUR) project (RBIP068JL9); 1984-2006 coordinator of 4 and involved in 7 CNR multi-year scientific projects; involved in numerous Istituto Ortopedico Rizzoli-Bologna projects, and in 5 MIUR projects. Teaching activities: 1991-2002 lecturer at numerous courses of scientific and technical training. Total number of publications: 94 publications in scientific journals with Impact Factor. h index 25.

BEST 10 PUBLICATIONS

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.

Impact Factor: 4.254
Times Cites: 0

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.

ZINI N corresponding author Impact Factor: 2.379
Times Cites: 0

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

Impact Factor: 3.368
Times Cites: 7

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 osteoblas.
J Cell Biochem., 103,547-555,2008.

Impact Factor: 3.368
Times Cites: 4

ZINI N, TRIMARCHI C, CLAUDIO PP, STIEGLER P, MARINELLI F, MALTARELLO MC, LA SALA D, DE FALCO G, RUSSO G, AMMIRATI G, MARALDI NM, GIORDANO A, CINTI C
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

Impact Factor: 3.874
Times Cites: 27

ZINI N, BATTISTA MC, SANTI S, RICCIO M, BERGAMINI G, LANDINI MP, MARALDI NM
The novel structural protein of human cytomegalovirus, pUL25, is localized in the viral tegument
J. Virol., 73, 6073-6075, 1999

Impact Factor: 4.648
Times Cites : 16

ZINI N, MATTEUCCI A, SABATELLI P, VALMORI A, CARAMELLI E, MARALDI NM
Protein kinase C isoforms undergo quantitative variations during rat spermatogenesis
and are selectively retained at specific spermatozoon sites
Eur. J. Cell Biol., 2, 142-150, 1997

Impact Factor: 3.699
Times Cites : 13

ZINI N, SCOTLANDI K, BALDINI N, NINI G, SABATELLI P, MARALDI NM
Multidrug-resistance (MDR) phenotype of human osteosarcoma cells evaluated by
quantitative morphological and electron microscopy analyses
Biol. Cell, 84, 195-204, 1995

Impact Factor: 3.872
Times Cites : 5

**ZINI N, OGNIBENE A, MARMIROLI S, BAVELLONI A, MALTARELLO MC, FAENZA I,
VALMORI A, MARALDI NM**
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

Impact Factor: 3.699
Times Cites : 28

**ZINI N, MAZZONI M, NERI LM, BAVELLONI A, MARMIROLI S, CAPITANI S,
MARALDI NM**
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

Impact Factor: 3.699
Times Cites : 21

LIST OF ALL PEER - REVIEWED PUBLICATIONS IN THE LAST 5 YEARS

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

Impact Factor: 4.254
Times Cites: 0

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

Impact Factor: 2.843
Times Cites: 0

KOPPERS-LALIC D, HACKENBERG M, BIJNSDORP IV, VAN EIJNDHOVEN 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

Impact Factor: 7.207
Times Cites: 0

TORREGGIANI E, PERUT F, RONCUZZI L, **ZINI N**, BAGLÌO SR, BALDINI N.

Exosomes: novel effectors of human platelet lysate activity.

Eur Cells Mater, 28,137-151, 2014

Impact Factor: 4.887
Times Cites: 0

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

ZINI N corresponding author

Impact Factor: 2.379
Times Cites: 0

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

Impact Factor: 4.254
Times Cites: 1

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-Mol Basis Dis, 1832, 1105-1116, 2013

Impact Factor: 5.089
Times Cites: 6

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, 2013 Mar 12. doi: 10.1002/term.1723

Impact Factor: 4.428
Times Cites: 0

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

Impact Factor: 4.602
Times Cites: 0

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

Impact Factor: 2.841
Times Cites: 2

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, S53-62, 2011

Impact Factor: 2.406
Times Cites: 0

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, S3-13, 2011

Impact Factor: 2.406

Times Cites: 0

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

Impact Factor: 3.874

Times Cites: 4

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

Impact Factor: 2.075

Times Cites: 5

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

Impact Factor: 3.874

Times Cites: 3

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

Impact Factor: 3.582

Times Cites: 21

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

Impact Factor: 8.312

Times Cites: 12