CV
LINA GHIBELLI
Associate Professor
Department of Biology
University of Roma Tor Vergata

Born 01/08/1954 in VENEZIA (VE)

1. BIOGRAFY

1.1 University Education:
June 1979: Laurea cum laude in Biological Science, Universita' La Sapienza (advisor Enrico Calef).
1.2 Scientific and Academic Positions
- 2015-today Associate Professor 'Dipartimento di Biologia', Università di Roma Tor Vergata
- 1984-2015: Ricercatore 'Dipartimento di Biologia', Università di Roma Tor Vergata
- 1995: Visiting Scientist at Karolinska Institutet, Dept. of Toxicology, (lab Prof. Sten Orrenius)
- 1986-88: "Visitor" at "European Molecular Biology Laboratory" Heidelberg, (lab Prof. R. Di Lauro)
- 1982-83: Research Associate, University of Chicago, Dept. of Biology (lab Prof. Susan Lindquist).
-1980-82 Research Associate, University of Chicago, Dept. of Biophysics (lab Prof. Robert Haselkorn).

2. TEACHING ACTIVITY:

2.1 front teaching:
- 1984-1998: support to "Genetics" Dipartimento di Biologia (prof. Calef e Prof. Cesareni)
- 1998-2002: "General Pathology " Facolta' di Farmacia, Universita' di Urbino" (MED04)
- 2005-2010: "Applied Biology", at he school "Tecnici della prevenzione", Facolta' di Medicina, Universita' di Roma Tor Vergata (1 credito)
- 2003-2007: "Biology" Schhol of specialization in Occupational Medicine, Facolta' di Medicina, Universita' di Roma Tor Vergata
- 2003-2010 "Cell Stress" Master courses in Molecular Cell Biology and Human and Evolutionary Biology
- 2010-2014: "Signaling, Stress e Apoptosis" Master in Bioinformatics, Universita' di Roma Tor Vergata (BIO13; 6 crediti)
- 2010-2011: "Applied Biology" in "Corso Integrato Biologia Cellulare e Molecolare, Universita' di Roma Tor Vergata
-2014-today: Nanobiotechnology, Master course in Biotechnology
2.2 thesis advisor
- 25 experimental master thesis: 23 Biology; 1 Pharmacy; 1 Material Sciences
- 6 theoretical thesis (Farmacia)
- 2 specialization thesis in Biotechnology (Dip. Biologia, Tor Vergata)
- 8 PhD thesis (7 molecular cell biology; 1 biopathology).
- 6 bachelor thesis in Biology
- Frequent activity of Referee in Biology and Pharmacy
2.3 Commissions
- >10 times member of Commision of PhD thesis: (2 Universita' della Tuscia; 1 Universita' di Parma; 2 Universita' di Urbino, 1 Universita' Tor Vergata (Scienza dei Materiali), 3 Universite' of Nancy (F); 1 Universite' of Nantes (F).

- frequent member of Commissioni di Laurea (Biologia a Tor Vergata; Farmacia ad Urbino)

2.4 Academic councils

Member of the PhD school in Molecular Cell Biology, Dipartimento di Biologia, Universita' Tor Vergata (coordinator Prof. Cesareni)

3 SCIENTIFIC ACTIVITY:

3.1 Bibliometry

> 200 publications; ~ 100 papers in International peer review journals

> 100 published abstracts; > 70 oral presentations at conferences/meetings.

- H index = 34 (ISI), 36 (Scopus)

3.2 Invitations at Conferences/meetings

- APOPTOSIS 1995, Lecce (L. Dini e Donelli; part of the Organizing Commitee)
- APOPTOSIS 2003 - From signaling pathways to therapeutic tools. January 29 to Saturday February 1st 2003 European Conference Center-Luxembourg
- 8TH INTERNATIONAL CONGRESS ON AMINO ACIDS AND PROTEINS. Rome, Italy, September 5-9, 2003.
- CELL SIGNALING WORLD 2006 Signal Transduction Pathways as therapeutic targets; Luxembourg, European Conference Center January 25th to 28th, 2006 Kirchberg
- NANOSCIENCE AND NANOTECHNOLOGY 2006 - Villa Mondragone November 5-9 Monte Porzio Catone (Rome), Italy
- NANOSCIENCE AND NANOTECHNOLOGY 2007 - October 15-16, Villa Mondragone, Monte Porzio Catone (Rome), Italy
- APOPTOSIS WORLD 2008, From Mechanisms to Applications, European Conference Center, Luxembourg, January 23rd to January 26th, 2008
- XLIII Symposium of thy Polish Society for Histochemistry and Cytochemistry, eptember 21st-23rd, 2009 Bydgoszcz, Poland
- MAC'09: Mitochondria, Apoptosis & Cancer; 1 - 3 October, 2009 Prague, Czech Republic
- Inflammation 2010 Conference on Inflammatory cell signaling mechanisms as therapeutic targets, 27-30 January 2010, Luxembourg.
- 1st Italian-Swedish Workshop on Health Impacts of Engineered Nanomaterials, Tor Vergata University, Rome, Italy, October 14_15, 2010
- "International Symposium on the Social Acceptance of Nanomaterials", 20th MRS-Japan Academic Symposium, Yokohama, December 20-22, 2010
- 2012 Redox and Inflammation signaling 2012 - RedCat Meeting on Redox Catalysis from Chemistry to Biology (Luxembourg, January 25th to 27th, 2012).
- Symposium "Rare-Earth-based Materials", 2012 Spring Meeting of the Materials Research Society, S. Francisco, April 9-13, 2012.
- 2nd Italian-Swedish Workshop on Health Impacts of Engineered Nanomaterials, Karolinska Institutet, June 14-16, Stockholm, Sweden
- FASEB meeting on Melatonin (Lisbon, July 2015)
- SNUCRI Symposium on Cancer 29-3 3-4 2015 (South Korea)

3.3 Seminars:

> 30 invitation sto give seminars; among them:

- 1994 Hopital Saint-Louis (Paris, F) Dr. Lanotte
- 1995 Karolinska Insitutet (Stockholm, SW) Prof. Orrenius
- 2001 University of Guilford (Surrey, UK) Prof. Kass
- 2005 National Institute of Health (Bethesda, MD, USA) Dr. Youle
- 2005 MD Anderson Cancer Center, Houston (TX, USA) Dr. Meyn
- 2010 National Institute for Materials Science (Tsukuba, JP) Prof. Traversa
- 2010 University of Tsukuba (Tsukuba, JP) Prof. Nagasaki

- 2011 LBMCC, Hopital Kirchberg (Luxembourg) Prof. Diederich
-2015 University Hospital Regensburg (Regensburg, Germany) Prof. Reichle

3.4 Conference organization:

- ABCD: XIII Incontro Stress Cellulare 2003 (Villa Mondragone)
- XV Incontro Gruppo Italiano ADP-ribosilazione 2002 (Urbino)
- FISV 2004: session Stress ossidativo (co-organizer: Arturo Leone)
- FISV 2005: session Mitocondri e Apoptosi (co-organizer: Ivana Scovassi)
- FISV 2006: session in memory of Arturo Leone
- 2nd Workshop on Apotosis (European Society of Haematology and European Cell Death Organization) 1998, Lecce (co-organizer Luciana Dini)
- Apoptosis 1995, Lecce (Dini and Donelli; part of the Organizing Commitee)
- 8th International Congress on Amino Acids and Proteins. Rome, Italy, September 5-9, 2003 (chairperson of the "glutathione" session"
- First Conference on Anakoinosis (Roma) March 2016

3.5 Peer Review activity

- Peer reviewer of many Journals, including: FASEB Journal, Biochemical Pharmacology, FEBS, Toxicology and Applied Pharmacology, Experimental Cell Research, Toxicology, Leukemia, Bioelectromagnetic, Archives Biochemistry Biophysics, BBA, Drug Development Research, Antiviral Therapy, Journal of Nanoparticle Research, etc.
- Peer reviewer of grant proposals (Italia: PRIN; FIRB; Universita' di Siena. Abroad: Private foundations in UK, F, L)

RESPONSIBLE OF FINANCED GRANT PROPOSAL

PRIN 2002: Ruolo della melatonina nel controllo dell'apoptosi: aspetti morfologici, biochimici e prospettive farmacologiche.

PRIN 2003: Impatto dei nanotubi sulla salute umana

PRIN 2008: MiRNA nella diagnosi e nella terapia sperimentale mediata da nanovettori del mesotelioma maligno della pleura.

Progetto Strategico "ciclo cellulare e apoptosi", 1997, Consiglio Nazionale delle Ricerche, coordinatore nazionale Prof. Maria Ciriolo, Universita' di Chieti

Editorial Activity:

Member of editorial boards

-Lead Guest Editor, Special Issue "OASP", International Journal of Cell Biology
- Guest Editor MRS bulletin November 2014 “Biological interaction of oxide nanoparticles”
-Editorial Board of Conference Papers in Pharmacology (http://www.hindawi.com/cpis/pharmacology/editors/)

Peer reviewed published studies in international Journals

1. Ghibelli L, Usala SJ, Mukhopadhyay R, Haselkorn R.
Polyadenylation and reverse transcription of bacteriophage phi 6 double-stranded RNA.
Virology. 1982 30;120:318-28.

2. Civitareale D, Ghibelli L, Di Lauro R.
Partial purification of a thyroid specific nuclear protein recognizing the thyroglobulin promoter.
Horm Metab Res Suppl. 1987;17:73-7.

3. Sinclair AJ, Lonigro R, Civitareale D, Ghibelli L, Di Lauro R.
The tissue-specific expression of the thyroglobulin gene requires interaction between thyroid-specific and ubiquitous factors.
Eur J Biochem. 1990;193:311-8.

4. Piacentini M, Autuori F, Dini L, Farrace MG, Ghibelli L, Piredda L, Fesus L.
"Tissue" transglutaminase is specifically expressed in neonatal rat liver cells undergoing apoptosis upon epidermal growth factor-stimulation.
Cell Tissue Res. 1991;263:227-35.

5. Piacentini M, Fesus L, Farrace MG, Ghibelli L, Piredda L, Melino G.
The expression of "tissue" transglutaminase in two human cancer cell lines is related with the programmed cell death (apoptosis).
Eur J Cell Biol. 1991;54:246-54.

6. Ghibelli L, Nosseri C, Oliverio S, Piacentini M, Autuori F.
Cycloheximide can rescue heat-shocked L cells from death by blocking stress-induced apoptosis.
Exp Cell Res. 1992;201:436-43.

7. Nosseri C, Coppola S, Ghibelli L.
Possible involvement of poly(ADP-ribosyl) polymerase in triggering stress-induced apoptosis.
Exp Cell Res. 1994;212:367-73.

8. Ghibelli L, Coppola S, Nosseri C, Bergamini A, Beninati S.
A protein produced by a monocytic human cell line can induce apoptosis on tumor cells.
FEBS Lett. 1994;344:35-40.

9. Bergamini A, Capozzi M, Ghibelli L, Dini L, Salanitro A, Milanese G, Wagner T, Beninati S, Pesce CD, Amici C, et al.
Cystamine potently suppresses in vitro HIV replication in acutely and chronically infected human cells.
J Clin Invest. 1994;93:2251-7.

10. Coppola S, Nosseri C, Maresca V, Ghibelli L.
Different basal NAD levels determine opposite effects of poly(ADP-ribosyl)polymerase inhibitors on H2O2-induced apoptosis.
Exp Cell Res. 1995;221:462-9.

11. Ghibelli L, Nosseri C, Coppola S, Maresca V, Dini L.
The increase in H2O2-induced apoptosis by ADP-ribosylation inhibitors is related to cell blebbing.
Exp Cell Res. 1995;221:470-7.

12. Ghibelli L, Maresca V, Coppola S, Gualandi G.
Protease inhibitors block apoptosis at intermediate stages: a compared analysis of DNA fragmentation and apoptotic nuclear morphology.
FEBS Lett. 1995;377:9-14.

13. Ghibelli L, Coppola S, Rotilio G, Lafavia E, Maresca V, Ciriolo MR.
Non-oxidative loss of glutathione in apoptosis via GSH extrusion.
Biochem Biophys Res Commun. 1995;216:313-20.

14. Bergamini A, Dini L, Capozzi M, Ghibelli L, Placido R, Faggioli E, Salanitro A, Bonanno E, Cappannoli L, Ventura L, Cepparulo M, Falasca L, Rocchi G.
Human immunodeficiency virus-induced cell death in cytokine-treated macrophages can be prevented by compounds that inhibit late stages of viral replication.
J Infect Dis. 1996;173:1367-78.

15. Dini L, Coppola S, Ruzittu MT, Ghibelli L.
Multiple pathways for apoptotic nuclear fragmentation.
Exp Cell Res. 1996;223:340-7.

16. Frabetti F, Musiani D, Marini M, Fanelli C, Coppola S, Ghibelli L, Tazzari PL, Bontadini A, Tassi C, Conte R.
White cell apoptosis in packed red cells.
Transfusion. 1998;38:1082-9.

17. Galli F, Rovidati S, Ghibelli L, Canestrari F.
S-nitrosylation of glyceraldehyde-3-phosphate dehydrogenase decreases the enzyme affinity to the erythrocyte membrane.
Nitric Oxide. 1998;2:17-27.

18. Ghibelli L, Fanelli C, Rotilio G, Lafavia E, Coppola S, Colussi C, Civitareale P, Ciriolo MR.
Rescue of cells from apoptosis by inhibition of active GSH extrusion.
FASEB J. 1998;12:479-86.

19. Fanelli C, Coppola S, Barone R, Colussi C, Gualandi G, Volpe P, Ghibelli L.
Magnetic fields increase cell survival by inhibiting apoptosis via modulation of Ca2+ influx.
FASEB J. 1999;13:95-102.

20. Ghibelli L, Coppola S, Fanelli C, Rotilio G, Civitareale P, Scovassi AI, Ciriolo MR.
Glutathione depletion causes cytochrome c release even in the absence of cell commitment to apoptosis.
FASEB J. 1999 13:2031-6.

21. Buoncristiani U, Galli F, Benedetti S, Errico R, Beninati S, Ghibelli L, Floridi A, Canestrari F.
Quantitative and qualitative assessment and clinical meaning of molecules removed with BK membranes.
Contrib Nephrol. 1999;125:133-58. Review.

22. Colussi C, Albertini MC, Coppola S, Rovidati S, Galli F, Ghibelli L.
H2O2-induced block of glycolysis as an active ADP-ribosylation reaction protecting cells from apoptosis.
FASEB J. 2000 14:2266-76.

23. Coppola S, Ghibelli L.
GSH extrusion and and the mitochondrial pathway of apoptotic signalling.
Biochem Soc Trans. 2000 2:56-61. Review.

24. Teodori L, Göhde W, Valente MG, Tagliaferri F, Coletti D, Perniconi B, Bergamaschi A, Cerella C, Ghibelli L.
Static magnetic fields affect calcium fluxes and inhibit stress-induced apoptosis in human glioblastoma cells.
Cytometry. 2002;49:143-9.

25. Teodori L, Grabarek J, Smolewski P, Ghibelli L, Bergamaschi A, De Nicola M, Darzynkiewicz Z.
Exposure of cells to static magnetic field accelerates loss of integrity of plasma membrane during apoptosis.
Cytometry. 2002;49:113-8.

26. D'Alessio M, Cerella C, De Nicola M, Bergamaschi A, Magrini A, Gualandi G, Alfonsi AM, Ghibelli L.
Apoptotic GSH extrusion is associated with free radical generation.
Ann N Y Acad Sci. 2003;1010:449-52.

27. Liuzzi F, Fanelli C, Ciriolo MR, Cerella C, D'Alessio M, Denicola M, Magrini A, Bergamaschi A, Ghibelli L.
Rescue of cells from apoptosis by antioxidants occurs downstream from GSH extrusion.
Ann N Y Acad Sci. 2003;1010:441-5.

28. De Nicola M, Liuzzi F, Cerella C, D'Alessio M, Bergamaschi A, Magrini A, Ghibelli L.
Hypoxic stress stably alters apoptotic parameters on U937 cells.
Ann N Y Acad Sci. 2003;1010:426-9.

29. Cerella C, D'Alessio M, De Nicola M, Magrini A, Bergamaschi A, Ghibelli L.
Cytosolic and endoplasmic reticulum Ca2+ concentrations determine the extent and the morphological type of apoptosis, respectively.
Ann N Y Acad Sci. 2003;1010:74-7.

30. Ghibelli L, Teodori L, Cerella C, De Nicola M, D'Alessio M, Clavarino G, Cordisco S, Albertini MC, Accorsi A, Magrini A, Bergamaschi A.
Epigenetic role of magnetic field exposure in tumor progression: fine-tuning experimental models

G Ital Med Lav Ergon. 2003;25 Suppl(3):277-8.

31. Ghibelli L, Mengoni F, Lichtner M, Coppola S, De Nicola M, Bergamaschi A, Mastroianni C, Vullo V.
Anti-apoptotic effect of HIV protease inhibitors via direct inhibition of calpain.
Biochem Pharmacol. 2003;66:1505-12.

32. Galli F, Ghibelli L, Buoncristiani U, Bordoni V, D'Intini V, Benedetti S, Canestrari F, Ronco C, Floridi A.
Mononuclear leukocyte apoptosis in haemodialysis patients: the role of cell thiols and vitamin E.
Nephrol Dial Transplant. 2003;18:1592-600.

33. Honda T, Coppola S, Ghibelli L, Cho SH, Kagawa S, Spurgers KB, Brisbay SM, Roth JA, Meyn RE, Fang B, McDonnell TJ.
GSH depletion enhances adenoviral Bax-induced apoptosis in lung cancer cells.
Cancer Gene Ther. 2004;11:249-55.

34. Cioffi N, Torsi L, Ditaranto N, Sabbatini L, Zambonin PG, Tantillo G, Ghibelli L, D'Alessio M
Antifungal activity of polymer-based copper nanocomposite coatings
Appl. Phys. Lett. 2004;85:2417 DOI:10.1063/1.1794381

35. D'Alessio M, Cerella C, Amici C, Pesce C, Coppola S, Fanelli C, De Nicola M, Cristofanon S, Clavarino G, Bergamaschi A, Magrini A, Gualandi G, Ghibelli L.
Glutathione depletion up-regulates Bcl-2 in BSO-resistant cells.
FASEB J. 2004;18:1609-11.

36. Ghibelli L, De Nicola M, Somma G, Cerella C, D'Alessio M, Romeo E, Magrini A, Bergamaschi A.
Lack of direct cytotoxic effect of intracellular nanotubes
G Ital Med Lav Ergon. 2005;27:383-4.

37. D'Alessio M, De Nicola M, Coppola S, Gualandi G, Pugliese L, Cerella C, Cristofanon S, Civitareale P, Ciriolo MR, Bergamaschi A, Magrini A, Ghibelli L.
Oxidative Bax dimerization promotes its translocation to mitochondria independently of apoptosis.
FASEB J. 2005;19:1504-6.

38. Turella P, Cerella C, Filomeni G, Bullo A, De Maria F, Ghibelli L, Ciriolo MR, Cianfriglia M, Mattei M, Federici G, Ricci G, Caccuri AM.
Proapoptotic activity of new glutathione S-transferase inhibitors.
Cancer Res. 2005;65:3751-61.

39. Cioffi N, Torsi L, Ditaranto N, Tantillo G, Ghibelli L, Sabbatini L, Bleve-Zacheo T, D'Alessio M, Zambonin PG, Traversa E
Copper Nanoparticle/Polymer Composites with Antifungal and Bacteriostatic Properties
Chem. Mater., 2005 17 (21), 5255 '5262.

40. Radogna F, Paternoster L, Albertini MC, Accorsi A, Cerella C, D'Alessio M, De Nicola M, Nuccitelli S, Magrini A, Bergamaschi A, Ghibelli L.
Melatonin as an apoptosis antagonist.
Ann N Y Acad Sci. 2006;1090:226-33.

41. Nuccitelli S, Cerella C, Cordisco S, Albertini MC, Accorsi A, De Nicola M, D'Alessio M, Radogna F, Magrini A, Bergamaschi A, Ghibelli L.
Hyperpolarization of plasma membrane of tumor cells sensitive to antiapoptotic effects of magnetic fields.
Ann N Y Acad Sci. 2006;1090:217-25.

42. De Nicola M, Cerella C, D'Alessio M, Coppola S, Magrini A, Bergamaschi A, Ghibelli L.
The cleavage mode of apoptotic nuclear vesiculation is related to plasma membrane blebbing and depends on actin reorganization.
Ann N Y Acad Sci. 2006;1090:69-78.

43. De Nicola M, Cordisco S, Cerella C, Albertini MC, D'Alessio M, Accorsi A, Bergamaschi A, Magrini A, Ghibelli L.
Magnetic fields protect from apoptosis via redox alteration.
Ann N Y Acad Sci. 2006;1090:59-68.

44. Cerella C, Mearelli C, Ammendola S, De Nicola M, D'Alessio M, Magrini A, Bergamaschi A, Ghibelli L.
Molecular determinants involved in the increase of damage-induced apoptosis and delay of secondary necrosis due to inhibition of mono(ADP-ribosyl)ation.
Ann N Y Acad Sci. 2006;1090:50-8.

45. Albertini MC, Radogna F, Accorsi A, Uguccioni F, Paternoster L, Cerella C, De Nicola M, D'Alessio M, Bergamaschi A, Magrini A, Ghibelli L.
Intracellular pro-oxidant activity of melatonin deprives U937 cells of reduced glutathione without affecting glutathione peroxidase activity.
Ann N Y Acad Sci. 2006;1091:10-6.

46. Cristofanon S, Nuccitelli S, D'Alessio M, Radogna F, De Nicola M, Bergamaschi A, Cerella C, Magrini A, Diederich M, Ghibelli L.
Oxidative upregulation of Bcl-2 in healthy lymphocytes.
Ann N Y Acad Sci. 2006;1091:1-9.

47. De Nicola M, Gualandi G, Alfonsi A, Cerella C, D'Alessio M, Bergamaschi A, Magrini A, Ghibelli L.
Different fates of intracellular glutathione determine different modalities of apoptotic nuclear vesiculation.
Biochem Pharmacol. 2006;72:1405-16.

48. Ghibelli L, Cerella C, Cordisco S, Clavarino G, Marazzi S, De Nicola M, Nuccitelli S, D'Alessio M, Magrini A, Bergamaschi A, Guerrisi V, Porfiri LM.
NMR exposure sensitizes tumor cells to apoptosis.
Apoptosis. 2006;11:359-65.

49. Lichtner M, Mengoni F, Mastroianni CM, Sauzullo I, Rossi R, De Nicola M, Vullo V, Ghibelli L.

HIV protease inhibitor therapy reverses neutrophil apoptosis in AIDS patients by direct calpain inhibition.
Apoptosis. 2006;11:781-7.

50. Alfieri RR, Bonelli MA, Pedrazzi G, Desenzani S, Ghillani M, Fumarola C, Ghibelli L, Borghetti AF, Petronini PG.
Increased levels of inducible HSP70 in cells exposed to electromagnetic fields.
Radiat Res. 2006;165:95-104.

51. De Nicola M, Mirabile Gattia D, Bellucci S, De Bellis G, Micciulla F, Pastore R, Tiberia A, Cerella C, D'Alessio M, Vittori Antisari M, Marazzi R, Traversa E, Magrini A, Bergamaschi A, Ghibelli L
Effect of different carbon nanotubes on cell viability and proliferation
J. Phys.: Condens. Matter 2007 19 395013 (7pp) doi: 10.1088/0953-8984/19/39/395013

52. Cerella C, Mearelli C, Coppola S, D'Alessio M, De Nicola M, Diederich M, Ghibelli L.
Sequential phases of Ca2+ alterations in pre-apoptotic cells.
Apoptosis. 2007;12:2207-19.

53. Radogna F, Paternoster L, Albertini MC, Cerella C, Accorsi A, Bucchini A, Spadoni G, Diamantini G, Tarzia G, De Nicola M, D'Alessio M, Ghibelli L.
Melatonin antagonizes apoptosis via receptor interaction in U937 monocytic cells.
J Pineal Res. 2007;43:154-62.

54. Dorio A, Cerella C, De Nicola M, D'Alessio M, Gualandi G, Ghibelli L.
Non-apoptogenic Ca2+-related extrusion of mitochondria in anoxia/reoxygenation stress.
Ann N Y Acad Sci. 2007;1099:512-5.

55. Cerella C, Mearelli C, De Nicola M, D'Alessio M, Magrini A, Bergamaschi A, Ghibelli L.
Analysis of calcium changes in endoplasmic reticulum during apoptosis by the fluorescent indicator chlortetracycline.
Ann N Y Acad Sci. 2007;1099:490-3.

56. Cerella C, Coppola S, D'Alessio M, De Nicola M, Magrini A, Bergamaschi A, Ghibelli L.
Redox modulation of the apoptogenic activity of thapsigargin.
Ann N Y Acad Sci. 2007;1099:469-72.

57. Belfiore MC, Natoni A, Barzellotti R, Merendino N, Pessina G, Ghibelli L, Gualandi G.
Involvement of 5-lipoxygenase in survival of Epstein-Barr virus (EBV)-converted B lymphoma cells.
Cancer Lett. 2007;254:236-43.

58. Radogna F, Cristofanon S, Paternoster L, D'Alessio M, De Nicola M, Cerella C, Dicato M, Diederich M, Ghibelli L.
Melatonin antagonizes the intrinsic pathway of apoptosis via mitochondrial targeting of Bcl-2.
J Pineal Res. 2008;44:316-25.

59. Oxidation-dependent maturation and survival of explanted blood monocytes via Bcl-2 up-regulation.

Cristofanon S, Nuccitelli S, D'Alessio M, Dicato M, Diederich M, Ghibelli L.
Biochem Pharmacol. 2008;76:1533-43.

60. Milena De Nicola, Stefano Bellucci, Enrico Traversa, Ghibelli L., Federico Micciulla and Lina Ghibelli.
Carbon Nanotubes On Jurkat Cells: Effects On Cell Viability And Plasma Membrane Potential.
Journal of Physics: Condensed Matter, (2008)Vol. 20, Issn: 0953-8984

61. Oxidative, multistep activation of the noncanonical NF-kappaB pathway via disulfide Bcl-3/p50 complex.
Cristofanon S, Morceau F, Scovassi AI, Dicato M, Ghibelli L, Diederich M.
FASEB J. 2009;23:45-57.

62. Rapid and transient stimulation of intracellular reactive oxygen species by melatonin in normal and tumor leukocytes.
Radogna F, Paternoster L, De Nicola M, Cerella C, Ammendola S, Bedini A, Tarzia G, Aquilano K, Ciriolo M, Ghibelli L.
Toxicol Appl Pharmacol. 2009 238:161-169.

63. Lipoxygenase-mediated pro-radical effect of melatonin via stimulation of arachidonic acid metabolism.
Radogna F, Sestili P, Martinelli C, Paolillo M, Paternoster L, Albertini MC, Accorsi A, Gualandi G, Ghibelli L.
Toxicol Appl Pharmacol. 2009;238:170-7.

64. Effects of carbon nanotubes on human monocytes.
De Nicola M, Nuccitelli S, Gattia DM, Traversa E, Magrini A, Bergamaschi A, Ghibelli L.
Ann N Y Acad Sci. 2009;1171:600-5.

65. Subapoptogenic oxidative stress strongly increases the activity of the glycolytic key enzyme glyceraldehyde 3-phosphate dehydrogenase.
Cerella C, D'Alessio M, Cristofanon S, De Nicola M, Radogna F, Dicato M, Diederich M, Ghibelli L.
Ann N Y Acad Sci. 2009;1171:583-90.

66. Multiple mechanisms for hydrogen peroxide-induced apoptosis.
Cerella C, Coppola S, Maresca V, De Nicola M, Radogna F, Ghibelli L.
Ann N Y Acad Sci. 2009;1171:559-63.

67. Neuroprotection by melatonin on astrocytoma cell death.
Radogna F, Nuccitelli S, Mengoni F, Ghibelli L.
Ann N Y Acad Sci. 2009;1171:509-13.

68. Intracellular prooxidant activity of melatonin induces a survival pathway involving NF-kappaB activation.
Cristofanon S, Uguccioni F, Cerella C, Radogna F, Dicato M, Ghibelli L, Diederich M.
Ann N Y Acad Sci. 2009;1171:472-8.

69. Melatonin as a modulator of apoptosis in B-lymphoma cells.

Paternoster L, Radogna F, Accorsi A, Cristina Albertini M, Gualandi G, Ghibelli L.
Ann N Y Acad Sci. 2009;1171:345-9.

70. Multistep and multitask Bax activation.
Ghibelli L, Diederich M.
Mitochondrion. 2010;10:604-13.

71. Melatonin: a pleiotropic molecule regulating inflammation.
Radogna F, Diederich M, Ghibelli L.
Biochem Pharmacol. 2010;80:1844-52.

72. The role of cyclooxygenase-2 in cell proliferation and cell death in human malignancies.
Sobolewski C, Cerella C, Dicato M, Ghibelli L, Diederich M.
Int J Cell Biol. 2010; 215158.

73. The dual role of calcium as messenger and stressor in cell damage, death, and survival.
Cerella C, Diederich M, Ghibelli L.
Int J Cell Biol. 2010;546163.

74. Magnetic fields promote a pro-survival non-capacitative Ca(2+) entry via phospholipase C signaling.
Cerella C, Cordisco S, Albertini MC, Accorsi A, Diederich M, Ghibelli L.
Int J Biochem Cell Biol. 2011 43, 393-400

75. Celardo I, Traversa E, Ghibelli L.
Cerium oxide nanoparticles: a promise for applications in therapy.
J Exp Ther Oncol. 2011;9(1):47-51. Review.

76. Ce^{3+} Ions Determine Redox-Dependent Anti-apoptotic Effect of Cerium Oxide Nanoparticles
Celardo, Ivana; De Nicola, Milena; Mandoli, Corrado; Pedersen JZ, Traversa E, Ghibelli L
ACS NANO 2011, 5: 4537-4549

77. Pharmacological potential of cerium oxide nanoparticles
Celardo, Ivana; Pedersen, Jens Z.; Traversa, Enrico; Ghibelli Lina
NANOSCALE 2011, 3: 1411-1420

78. Caputo F, Vegliante R, Ghibelli L.
Redox modulation of the DNA damage response
Biochemical Pharmacology 2012, 84, 1292–1306

79. Cerium oxide nanoparticles, combining antioxidant and UV shielding properties, prevent UV-induced cell damage and mutagenesis.
Caputo F, De Nicola M, Sienkiewicz A, Giovanetti A, Bejarano I, Licoccia S, Traversa E, Ghibelli L.
Nanoscale. 2015,7(38):15643-56. doi: 10.1039/c5nr03767k. Epub 2015 Sep 9.

80. Anakoinosis: Communicative Reprogramming of Tumor Systems - for Rescuing from Chemorefractory Neoplasia.

Hart C, Vogelhuber M, Wolff D, Klobuch S, Ghibelli L, Foell J, Corbacioglu S, Rehe K, Haegeman G, Thomas S, Herr W, Reichle A.
Cancer Microenviron. 2015 Aug;8(2):75-92.

81. Catalytic Properties and Biomedical Applications of Cerium Oxide Nanoparticles.
Walkey C, Das S, Seal S, Erlichman J, Heckman K, Ghibelli L, Traversa E, McGinnis JF, Self WT.
Environ Sci Nano. 2015 Feb 1;2(1):33-53.

82. Multiparameter analysis of apoptosis in puromycin-treated Saccharomyces cerevisiae.
Citterio B, Albertini MC, Ghibelli L, Falcieri E, Battistelli M, Canonico B, Rocchi MB, Teodori L, Ciani M, Piatti E.
Arch Microbiol. 2015 Aug;197(6):773-80.

83. Melatonin promotes Bax sequestration to mitochondria reducing cell susceptibility to apoptosis via the lipoxygenase metabolite 5-hydroxyeicosatetraenoic acid.
Radogna F, Albertini MC, De Nicola M, Diederich M, Bejarano I, Ghibelli L.
Mitochondrion. 2015 Mar;21:113-21.

84. Glutathione depletion in survival and apoptotic pathways.
De Nicola M, Ghibelli L.
Front Pharmacol. 2014 Dec 4;5:267. doi: 10.3389/fphar.2014.00267. eCollection 2014.

85. Pharmacological potential of bioactive engineered nanomaterials.
Caputo F, De Nicola M, Ghibelli L.
Biochem Pharmacol. 2014 Nov 1;92(1):112-30.

86. Nanoceria protects from alterations in oxidative metabolism and calcium overloads induced by TNFα and cycloheximide in U937 cells: pharmacological potential of nanoparticles.
González-Flores D, De Nicola M, Bruni E, Caputo F, Rodríguez AB, Pariente JA, Ghibelli L.
Mol Cell Biochem. 2014 Dec;397(1-2):245-53. doi: 10.1007/s11010-014-2192-2.

87. Organelle cross-talk in apoptotic and survival pathways.
Ghibelli L, Grzanka A.
Int J Cell Biol. 2012;2012:968586. doi: 10.1155/2012/968586.

88. A novel synthetic approach of cerium oxide nanoparticles with improved biomedical activity.
Caputo F, Mameli M, Sienkiewicz A, Licoccia S, Stellacci F, Ghibelli L, Traversa E.
Sci Rep. 2017 Jul 5;7(1):4636. doi: 10.1038/s41598-017-04098-6.

89. Slow release of etoposide from dextran conjugation shifts etoposide activity from cytotoxicity to differentiation: A promising tool for dosage control in anticancer metronomic therapy.
De Nicola M, Bruni E, Traversa E, Ghibelli L.
Nanomedicine. 2017 Aug;13(6):2005-2014. doi: 10.1016/j.nano.2017.05.004

90. Communicative reprogramming non-curative hepatocellular carcinoma with low-dose metronomic chemotherapy, COX-2 inhibitor and PPAR-gamma agonist: a phase II trial.

Walter I, Schulz U, Vogelhuber M, Wiedmann K, Endlicher E, Klebl F, Andreesen R, Herr W, Ghibelli L, Hackl C, Wiest R, Reichle A.
Med Oncol. 2017 Nov 2;34(12):192. doi: 10.1007/s12032-017-1040-0.

91. Cerium oxide nanoparticles inhibit differentiation of neural stem cells.
Gliga AR, Edoff K, Caputo F, Källman T, Blom H, Karlsson HL, Ghibelli L, Traversa E, Ceccatelli S, Fadeel B.
Sci Rep. 2017 7(1):9284. doi: 10.1038/s41598-017-09430-8.