

Curriculum Vitae

Name: Mario Chiariello
Place and date of birth: Napoli, May 30, 1969
Nationality: Italian
Affiliation: Consiglio Nazionale delle Ricerche (CNR)
Istituto di Fisiologia Clinica (IFC)
and
Istituto per lo Studio, la Prevenzione e la Rete Oncologica (ISPRO)
Core Research Laboratory (CRL)
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Education

2000 Ph.D. in "Cellular and Molecular Biology and Pathology".
1994 (1st session) Authorization ("Esame di Stato") to the profession of medical doctor.
1993 M.D. degree at the II Medical School, University of Naples, with "summa cum laude".
1987 Diploma di Maturità Scientifica at the Liceo "G. Mercalli", Napoli, Italy.

Current position

2009-to date "Primo Ricercatore" at Istituto di Fisiologia Clinica (IFC), Section of Siena, Consiglio Nazionale delle Ricerche (CNR), Siena, Italy.
2018-to date "Group Leader" at Istituto per lo Studio, la Prevenzione e la Rete Oncologica (ISPRO), Core Research Laboratory Research Unit, Siena.

Chronology of Employment

2007-2017 "Group Leader" at Istituto Toscano Tumori, Core Research Laboratory Research Unit, Azienda Ospedaliera Universitaria Senese, Siena.
2006-2009 "Primo Ricercatore" at Istituto di Endocrinologia e Oncologia Sperimentale (IEOS), CNR, Napoli, Italy.
2001-2006 "Ricercatore-III Livello" at IEOS, CNR, Napoli, Italy.
2004 (May-August) "Contractor" at National Institutes of Health (NIH), Bethesda, MD, USA, in Dr. J. Silvio Gutkind's laboratory.
2003 (January-April) "Short Term Mobility Program, CNR" spent at NIH, Bethesda, MD, USA, in Dr. J. Silvio Gutkind's laboratory.
2000-2001 "EU-Fondo Sociale Europeo" Fellow ("Assegno di Ricerca") at the Department of Cellular and Molecular Biology and Pathology, University of Napoli "Federico II".
1997-2000 "Visiting Fellow" at NIH, Bethesda, MD, USA, in Dr. J. Silvio Gutkind's laboratory.
1995-1999 "Ph.D. Fellowship", Department of Cellular and Molecular Biology and Pathology, University of Napoli "Federico II", in Dr. C. Bucci's laboratory.
1994 (July-Sept.) "Special Volunteer" at NIH, Bethesda, MD, USA, in Dr. J. Silvio Gutkind's laboratory.
1991 (March-April) "Visiting student" at European Molecular Biology Laboratory (EMBL), Heidelberg, Germany, in Dr. M. Zerial's laboratory.
1990-1993 "Undergraduate Fellow", Department of Cellular and Molecular Biology and Pathology, University of Naples "Federico II", in Dr. C. Bucci's laboratory.

Institutional and Service Activities

-*Ad-hoc reviewer*: EMBO Reports; Autophagy; The Journal of Biological Chemistry; Molecular and Cellular Biology; European Journal of Cancer; Antioxidants & Redox Signaling; The Journal of Cellular Physiology; Endocrine-Related Cancer; The Journal of Cellular Biochemistry; BMC Cell Biology; Molecular Cancer Research; Thyroid; The Scientific World Journal; PLOS ONE; ACS Medicinal Chemistry Letters; Nucleic Acid Research; American Journal of Physiology; Biomaterials; BMC Cell Biology; Matrix Biology; Cancer Letters; Current Drug Targets; Current Opinion in Pharmacology; Oncotarget.
-*Grant reviewer*: MIUR (Ministero dell'Istruzione, dell'Università e della Ricerca, Italy); MiSE (Ministero dello Sviluppo Economico, Italy); AIRC (Associazione Italiana per la Ricerca sul Cancro); REPRISE (Register of Expert Peer Reviewers for Italian Scientific Evaluation).

-2014-to date "Scientific Expert" of Animal Welfare Body (AWB), Toscana Life Sciences Foundation, Siena, Italy.

-2015-to date "Faculty Board" Member for the PhD Course in "Genetics, Oncology and Clinical Medicine", Siena.

-2014-2015 "Faculty Board" Member for the PhD Course in "Biochemistry and Molecular Biology", Siena.

-2009-2011 "Faculty Board" Member for the PhD Course in "Genetics, Oncology and Clinical Medicine", Siena.

Awards

2014-2024 National Scientific Qualification ("Abilitazione Scientifica Nazionale") as Full Professor in "Applied Biology". Ministero dell'Istruzione, Università e Ricerca (MIUR), Italy.

2014-2020 National Scientific Qualification ("Abilitazione Scientifica Nazionale") as Full Professor in "Molecular Biology". Ministero dell'Istruzione, Università e Ricerca (MIUR), Italy.

2018-2024 National Scientific Qualification ("Abilitazione Scientifica Nazionale") as Associate Professor in "General and Clinical Pathology". Ministero dell'Istruzione, Università e Ricerca (MIUR), Italy.

Publications

1. Leonardi M, Perna E, Tronolone S, Colecchia D, **Chiariello M** (2018). Activated kinases screening identifies the IKBKE oncogene as a positive regulator of autophagy. *Autophagy*. In press. doi: 10.1080/15548627.2018.1517855.
2. Lubrano S, Laura Comelli, Piccirilli C, Marranci A, Dapporto F, Tantillo E, Gemignani F, Gutkind JS, Salvetti A, Chiorino G, Cozza G, **Chiariello M**, Galli A, Polisenio L, Cervelli T (2018). Development of a yeast-based system to identify new hBRAFV600E functional interactors. *Oncogene*. In press. doi: 10.1038/s41388-018-0496-5.
3. Colecchia D, Dapporto F, Tronolone S, Salvini L, **Chiariello M** (2018). MAPK15 is part of the ULK complex and controls its activity to regulate early phases of the autophagic process. *J. Biol. Chem.* 293: 15962-976. PMID: 30131341; doi: 10.1074/jbc.RA118.002527.
4. Bertuzzi G, Crotti S, Calandro P, Bonini BF, Monaco I, Locatelli E, Fochi M, Zani P, Strocchi E, Mazzanti A, **Chiariello M**, Comes Franchini M. Quinone-fused pyrazoles through regio-selective 1,3-dipolar cycloadditions: synthesis of tricyclic scaffolds and in vitro cytotoxic activity evaluation on glioblastoma cancer cells (2018). *ChemMedChem*. 13: 1744-1750. PMID: 29966045; doi: 10.1002/cmdc.201800251.
5. Calandro P, Iovenitti G, Mancini A, Zamperini C, Candita F, Dreassi E, **Chiariello M**, Schenone S, Botta M (2018). Plasmin-binding tripeptide-decorated liposomes loading pyrazolo[3,4-d]pyrimidines for the targeting to hepatocellular carcinoma. *ACS Medicinal Chemistry Letters*. 9: 646. PMID: 30034594; doi: 10.1021/acsmedchemlett.8b00062.
6. Pietrobono S, Santini R, Gagliardi S, Dapporto F, Colecchia D, **Chiariello M**, Leone C, Valoti M, Manetti F, Petricci E, Taddei M, Stecca B (2018). Targeted inhibition of Hedgehog-Gli signaling by novel acylguanidine derivatives inhibits melanoma cell growth by inducing replication stress and mitotic catastrophe. *Cell Death & Disease*. 9: 142. doi: 10.1038/s41419-017-0142-0.
7. Colecchia D, Stasi M, Leonardi M, Manganelli F, Nolano M, Veneziani BM, Santoro L, Eskelinen E-L, **Chiariello M***, Bucci C* (2018). Alterations of autophagy in the peripheral neuropathy Charcot-Marie-Tooth type 2B. *Autophagy*. 14: 930. PMID: 29130394; doi: 10.1080/15548627.2017.1388475. *Co-corresponding authors.
8. Colecchia D, Nicolato E, Ravagli C, Faraoni P, Strambi A, Rossi M, Doumet S, Mosconi E, Locatelli E, Comes Franchini M, Balzi M, Baldi G, Marzola P, **Chiariello M**. (2017). EGFR-targeted magnetic nanovectors recognize, in vivo, head and neck squamous cells carcinoma-derived tumors. *ACS Medicinal Chemistry Letters*. 8: 1230-1235. doi: 10.1021/acsmedchemlett.7b00278
9. Monaco I, Camorani S, David Colecchia D, Locatelli E, Calandro P, Oudin A, Niclou S, Arra C, **Chiariello M***, Cerchia L*, Comes Franchini M* (2017). Aptamer functionalization of nanosystems for Glioblastoma targeting through the Blood-Brain-Barrier. *Journal of Medicinal Chemistry*. 60: 4510-4516. PMID: 28471660; doi: 10.1021/acs.jmedchem.7b00527. *Co-corresponding authors.

10. Vignaroli G, Iovenitti G, Zamperini C, Coniglio F, Calandro P, Molinari A, Fallacara AL, Sartucci A, Calgani A, Colecchia D, Mancini A, Festuccia C, Dreassi E, Valoti M, Musumeci F, **Chiariello M**, Angelucci A, Botta M, Schenone S (2017). Prodrugs of pyrazolo[3,4-d]pyrimidines: from library synthesis to evaluation as potential anticancer agents in an orthotopic glioblastoma model. *Journal of Medicinal Chemistry*. 60: 6305-6320. PMID: 28650650; DOI: 10.1021/acs.jmedchem.7b00637
11. Fallacara AL, Mancini A, Zamperini C, Marianelli S, **Chiariello M**, Pozzie G, Santoro F, Botta M, Schenone S (2017). Pyrazolo[3,4-d]pyrimidines-loaded human serum albumin (HSA) nanoparticles: preparation, characterization and cytotoxicity evaluation against neuroblastoma cell line. *Bioorganic & Medicinal Chemistry Letters*. 27: 3196-3200. PMID: 28558969; DOI: 10.1016/j.bmcl.2017.05.015.
12. Vitiello M, Tuccoli A, D'Aurizio R, Sarti S, Giannecchini L, Lubrano S, Marranci A, Evangelista M, Peppicelli S, Ippolito C, Barravecchia I, Guzzolino E, Montagnani V, Gowen M, Mercoledi E, Mercatanti A, Comelli L, Gurrieri S, Wu LW, Ope O, Flaherty K, Boland GM, Hammond MR, Kwong L, **Chiariello M**, Stecca B, Zhang G, Salvetti A, Angeloni D, Pitto L, Calorini L, Chiorino G, Pellegrini M, Herlyn M, Osman I and Poliseno L (2017). Context-dependent miR-204 and miR-211 differentially affect the biological properties of amelanotic and melanotic melanoma cells. *Oncotarget*. 8: 25395-25417. PMID: 28445987; DOI: 10.18632/oncotarget.15915.
13. Botta L, Maccari G, Calandro P, Tiberi M, Brai A, Zamperini C, Canducci F, **Chiariello M**, Martí-Centelles R, Falomir E, Carda M (2017). One drug for two targets: Biological evaluation of antiretroviral agents endowed with antiproliferative activity. *Bioorganic & Medicinal Chemistry Letters*. 27: 2502-2505. PMID: 28408224; DOI: 10.1016/j.bmcl.2017.03.097.
14. Musumeci F, Fallacara AL, Brullo C, Grossi G, Botta L, Calandro P, **Chiariello M**, Kissova M, Crespan E, Maga G and Schenone S (2017). Identification of new pyrrolo[2,3-d]pyrimidines as Src tyrosine kinase inhibitors *in vitro* active against Glioblastoma. *European Journal of Medicinal Chemistry*. 127: 369-378. PMID: 28076826; DOI: 10.1016/j.ejmech.2016.12.036.
15. Rossi M, Colecchia D, Ilardi G, Acunzo M, Nigita G, Sasdelli F, Celetti A, Strambi A, Staibano S, Croce CM and **Chiariello M** (2016). MAPK15 upregulation promotes cell proliferation and prevents DNA damage in male germ cell tumors. *Oncotarget*. 7: 20981-98. PMID: 26988910; DOI: 10.18632/oncotarget.8044.
16. Bertuzzi G, Locatelli E, Colecchia D, Calandro P, Bonini BF, Chandanshive JZ, Mazzanti A, Zani P, **Chiariello M** and Comes Franchini M (2016). Straightforward synthesis of a novel ring-fused pyrazole-lactam and *in vitro* cytotoxic activity on cancer cell lines. *European Journal of Medicinal Chemistry*. 117: 1-7. PMID: 27081742; DOI: 10.1016/j.ejmech.2016.04.006.
17. Vignaroli G, Calandro P, Zamperini C, Coniglio F, Glovenitti G, Tavanti M, Colecchia D, Dreassi E, Valoti M, Schenone S, **Chiariello M** and Botta M (2016). Improvement of pyrazolo[3,4-d]pyrimidines pharmacokinetic properties: nanosystem approaches for drug delivery. *Scientific Reports*. 6: 21509. PMID: 26898318; DOI: 10.1038/srep21509.
18. Bellelli R, Federico G, Mattè A, Colecchia D, Iolascon A, **Chiariello M**, Santoro M, De Franceschi L and Carlomagno F (2016). NCOA4 deficiency impairs systemic iron homeostasis. *Cell Reports*. 14, 1–11. PMID: 26776506; DOI: 10.1016/j.celrep.2015.12.065.
19. Klionsky DJ, et al. (2016). Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*. 12: 1-222. PMID: 26799652; DOI: 10.1080/15548627.2015.1100356.
20. Valensin D, Cau Y, Calandro P, Vignaroli G, Dello Iacono L, **Chiariello M**, Mori M and Botta M (2016). Molecular insights to the bioactive form of BV02, a reference inhibitor of 14-3-3 σ protein–protein interactions. *Bioorg. Med. Chem. Lett*. 26: 894-898. PMID: 26774582; DOI: 10.1016/j.bmcl.2015.12.066.
21. Colecchia D, Rossi M, Sasdelli F, Sanzone S, Strambi A and **Chiariello M** (2015). MAPK15 mediates BCR-ABL-induced autophagy and regulates oncogene-dependent cell proliferation and tumor formation. *Autophagy*. 11: 1790-1802. PMID: 26291129; DOI: 10.1080/15548627.2015.1084454.
22. Camorani S, Crescenzi E, Colecchia D, Carpentieri A, Amoresano A, Fedele M, **Chiariello M** and Cerchia L (2015). Aptamer targeting EGFRvIII mutant hampers its constitutive autophosphorylation and affects migration, invasion and proliferation of glioblastoma cells. *Oncotarget*. 6: 37570-37587. PMID: 26461476; DOI: 10.18632/oncotarget.6066.
23. Morra F, Luise C, Merolla F, Poser I, Visconti R, Ilardi G, Paladino S, Inuzuka H, Guggino G, Monaco R, Colecchia D, Monaco G, Cerrato A, **Chiariello M**, Claudio PP, Staibano S and Celetti A (2015). FBXW7 and USP7 regulate CCDC6 turnover during the cell cycle and affect

- cancer drugs susceptibility in NSCLC. *Oncotarget*. 20: 12697-709. PMID: 25885523; DOI: 10.18632/oncotarget.3708.
24. Naddaka M, Locatelli E, Colecchia D, Sambri L, Monaco I, Baschieri A, Sasdelli F, **Chiariello M**, Matteucci E, Zani P and Comes Franchini M (2015). Hybrid Cholesterol-based nanocarriers containing phosphorescent Ir complexes. In vitro imaging on glioblastoma cell line. *RSC Adv*. 5: 1091-1096. DOI: 10.1039/c4ra12936a
25. Carlomagno F and **Chiariello M** (2014). Growth factor transduction pathways: paradigm of anti-neoplastic targeted therapy. *J. Mol. Med.* 92: 723-733. PMID: 24906458; DOI: 10.1007/s00109-014-1177-7.
26. Locatelli E, Matteini P, Sasdelli F, Pucci A, **Chiariello M**, Molinari V, Pini R and Comes Franchini M. (2014). Surface chemistry and entrapment of magnesium nanoparticles into polymeric micelles: a highly biocompatible tool for photothermal therapy. *Chem. Commun.* 50: 7783-7786 PMID: 24901445; DOI: 10.1039/c4cc01513d.
27. Mori M, Vignaroli G, Cau Y, Dinić J, Hill R, Rossi M, Colecchia D, Pešić M, Link W, **Chiariello M**, Ottmann C and Botta M (2014). Discovery of 14-3-3 protein-protein interaction inhibitors that sensitize multidrug resistant cancer cells to Doxorubicin and the Akt inhibitor GSK690693. *ChemMedChem*. 9: 973-983. PMID: 24715717; DOI: 10.1002/cmdc.201400044.
28. Acunzo M, Romano G, Palmieri D, Laganá A, Garofalo M, Balatti V, Drusco A, **Chiariello M**, Nana-Sinkam P and Croce CM (2013). The cross-talk between MET and EGFR in Non Small Cell Lung Cancer involves miR-27a and Sprouty2. *Proc. Natl. Acad. Sci. USA*. 110: 8573-8578. PMID: 23650389; DOI: 10.1073/pnas.1302107110.
29. Strambi A, Mori M, Rossi M, Colecchia D, Manetti F, Carlomagno F, Botta M and **Chiariello M** (2013). Structure prediction and validation of the ERK8 kinase domain. *PLoS ONE* 8(1): e52011. PMID: 23326322; DOI: 10.1371/journal.pone.0052011.
30. Colecchia D, Strambi A, Sanzone S, Iavarone C, Rossi M, Dall'armi C, Piccioni F, Verrotti di Pianella A and **Chiariello M** (2012). MAPK15/ERK8 stimulates autophagy by interacting with LC3 and GABARAP proteins. *Autophagy*. 8: 1724-1740. PMID: 22948227; DOI: 10.4161/auto.21857.
31. Acunzo M, Visone R, Romano G, Veronese A, Lovat F, Palmieri D, Bottoni A, Garofalo M, Gasparini P, Condorelli G, **Chiariello M** and Croce CM (2012). miR-130a targets MET and induces TRAIL-sensitivity in NSCLC by downregulating miR-221 and 222. *Oncogene*. 31: 634-642. PMID: 21706050; DOI: 10.1038/onc.2011.260.
32. Rossi M, Colecchia D, Iavarone C, Strambi A, Piccioni F, Verrotti di Pianella A and **Chiariello M** (2011). Extracellular signal-regulated kinase 8 (Erk8) controls estrogen-related receptor α (ERR α) cellular localization and inhibits its transcriptional activity. *J. Biol. Chem.* 286: 8507-8522. PMID: 21190936; DOI: 10.1074/jbc.M110.179523.
33. Iavarone C, Acunzo M, Carlomagno F, Catania A, Melillo RM, Carlomagno MS, Santoro M and **Chiariello M** (2006). Activation of the Erk8 MAP kinase by RET/PTC3, a constitutively active form of the RET proto-oncogene. *J. Biol Chem.* 281:10567-10576. PMID: 16484222; DOI: 10.1074/jbc.M513397200.
34. Bucci C and **Chiariello M** (2006). Signal transduction gRABs attention. *Cellular Signalling*. 18: 1-8. PMID: 16084065; DOI: 10.1016/j.cellsig.2005.07.001
35. Catania A, Iavarone C, Carlomagno MS and **Chiariello M** (2006). Selective transcription and cellular proliferation induced by PDGF require histone deacetylase activity. *Biochem. Biophys. Res. Commun.* 343: 544-554. PMID: 16554031; DOI: 10.1016/j.bbrc.2006.03.013.
36. Marinissen MJ, **Chiariello M**, Tanos T, Bernard O, Narumiya S, and Gutkind JS (2004). The small GTP-binding protein RhoA regulates c-Jun by a ROCK-JNK signaling axis. *Molecular Cell*. 13: 29-41. PMID: 15068801. DOI: 10.1016/S1097-2765(04)00153-4
37. Iavarone C, Catania A, Marinissen MJ, Visconti R, Acunzo M, Tarantino C, Carlomagno MS, Bruni CB, Gutkind JS and **Chiariello M** (2003). The platelet-derived growth factor controls c-myc expression through a JNK- and AP-1-dependent signaling pathway. *J. Biol. Chem.* 278: 50024-50030. PMID: 14523011; DOI: 10.1074/jbc.M308617200.
38. **Chiariello M**, and Gutkind JS (2002). Regulation of MAP Kinases by G Protein-Coupled Receptors. *Methods in Enzymology*. 345: 437-447. PMID: 11665627.
39. **Chiariello M**, Marinissen MJ and Gutkind JS (2001). Regulation of c-myc expression by PDGF through the Src-mediated activation of Vav2 and Rho GTPases. *Nat. Cell. Biol.* 3: 580-586. PMID: 11389443; DOI: 10.1038/35078555.

40. Marinissen MJ, **Chiariello M**, and Gutkind JS (2001). Regulation of gene expression by the small GTPase Rho through the ERK6 (p38gamma) MAP kinase pathway. *Genes Dev.* 15: 535-553. PMID: 11238375; DOI: 10.1101/gad.855801.
41. **Chiariello M**, Gomez E and Gutkind JS (2000). Regulation of cyclin-dependent kinase (Cdk) 2 Thr-160 phosphorylation and activity by mitogen-activated protein kinase in late G1 phase. *Biochem. J.* 349: 869-876. PMID: 10903150.
42. **Chiariello M**, Marinissen MJ and Gutkind JS (2000). Multiple Mitogen-Activated Protein Kinase Signaling Pathways Connect the Cot Oncoprotein to the c-jun Promoter and to Cellular Transformation. *Mol. Cell. Biol.* 20: 1747-1758. PMID: 10669751.
43. Fukuhara S, Marinissen MJ, **Chiariello M** and Gutkind JS (2000). Signaling from G protein-coupled receptors to ERK5/BMK1 involves Galphaq and Galpha12/13 families of heterotrimeric G proteins: Evidence for the existence of a novel Ras and Rho-independent pathway. *J. Biol. Chem.* 275: 21730-21736. PMID: 10781600; DOI: 10.1074/jbc.M002410200.
44. Visconti R, Gadina M, **Chiariello M**, Chen EH, Stancato LF, Gutkind JS and O'Shea JJ (2000). Importance of the MKK6/p38 pathway for interleukin-12-induced STAT4 serine phosphorylation and transcriptional activity. *Blood.* 96: 1844-1852. PMID: 10961885.
45. Bucci C, **Chiariello M**, Lattero D, Maiorano M and Bruni CB (1999). Interaction cloning and characterization of the cDNA encoding the human Prenylated Rab Acceptor (PRA1). *Biochem. Biophys. Res. Commun.* 258: 657-662. PMID: 10329441; DOI: 10.1006/bbrc.1999.0651.
46. Marinissen MJ, **Chiariello M**, Pallante M and Gutkind JS (1999). A network of mitogen-activated protein kinases links G protein-coupled receptors to the c-jun promoter: a role for c-jun NH2-terminal kinase, p38s, and extracellular signal-regulated kinase 5. *Mol. Cell. Biol.* 19: 4289-4301. PMID: 10330170.
47. Pece S, **Chiariello M**, Murga C and Gutkind JS (1999). Activation of the protein kinase Akt/PKB by formation of E-cadherin-mediated cell-cell junctions. Evidence for the association of phosphatidylinositol 3-kinase with the E-cadherin adhesion complex. *J. Biol. Chem.* 274: 19347-19351. PMID: 10383446.
48. **Chiariello M**, Bruni CB and Bucci C (1999). The small GTPases Rab5a, Rab5b and Rab5c are differentially phosphorylated in vitro. *FEBS Lett.* 453: 20-24. PMID: 10403367.
49. **Chiariello M**, Visconti R, Carlomagno F, Melillo RM, Bucci C, de Franciscis V, Fox GM, Jing, SQ, Coso OA, Gutkind JS, Fusco A and Santoro M (1998). Signalling of the Ret receptor tyrosine kinase through the c-Jun NH2-terminal protein kinases (JNKs): evidence for a divergence of the ERKs and JNKs pathways induced by Ret. *Oncogene.* 16: 2435-2445. PMID: 9627110; DOI: 10.1038/sj.onc.1201778.
50. **Chiariello M**, De Gregorio L, Vitelli R, Alifano P, Dragani TA, Bruni CB and Bucci C (1998). Genetic mapping of the mouse Rab7 gene and pseudogene and of the human RAB7 homolog. *Mammalian Genome.* 9: 448-452. PMID: 9585432.
51. Vitelli R, Santillo M, Lattero D, **Chiariello M**, Bifulco M, Bruni CB and Bucci C (1997). Role of the small GTPase RAB7 in the late endocytic pathway. *J. Biol. Chem.* 272: 4391-4397. PMID: 9020161.
52. Vitelli R, **Chiariello M**, Lattero D, Bruni CB and Bucci C (1996). Molecular cloning and expression analysis of the human Rab7 GTP-ase complementary deoxyribonucleic acid. *Biochem. Biophys. Res. Commun.* 229: 887-890. PMID: 8954989; DOI: 10.1006/bbrc.1996.1897.
53. Coso OA, **Chiariello M**, Yu, J-C, Teramoto, H, Crespo P, Xu, N, Miki T and Gutkind JS (1995). The small GTP-binding proteins rac1 and cdc42 regulate the activity of the JNK/SAPK signaling pathway. *Cell* 81: 1137-1146. PMID: 7600581.
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55. Bucci C, Lütcke A, Steele-Mortimer O, Olkkonen, VM, Dupree P, **Chiariello M.**, Bruni CB, Simons K, and Zerial M (1995). Co-operative regulation of endocytosis by three rab5 isoforms. *FEBS Lett.* 366: 65-71. PMID: 7789520.
56. Vitelli R, **Chiariello M**, Bruni CB, Bucci C (1995). Cloning and expression analysis of the murine Rab7 cDNA. *Biochim. Biophys. Acta* 1264: 268-270. PMID: 8547311.

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Book chapters

1. **Chiariello M**, Vaqué JP, Crespo P, Gutkind JS (2010). Activation of Ras and Rho GTPases and MAP Kinases by G-protein-coupled receptors. *Methods Mol Biol*. 661: 137-50.
2. Marinissen MJ and **Chiariello M**. Targeting MAP kinase signaling pathways for the treatment of cancer (2006). In: "Signaling molecules as targets in cancer therapy" by Nova Science Publishers Inc. ISBN: 1600212433.
3. Fukuhara S, Marinissen MJ, **Chiariello M** and Gutkind JS. The pathway linking G protein-coupled receptors to the nucleus (2000). In: *Signaling Networks and Cell Cycle Control*. J.S. Gutkind ed., Humana Press, 5: p. 83-98. ISBN: 9780896037106.
4. Bucci C, **Chiariello M**, and Bruni CB. "Rab7" (1995). In: *Guidebook to the Small GTPases (Guidebook Series)*. Zerial M and Huber L ed., Oxford University Press, p. 336-338. ISBN: 0198599447.
5. Murphy C, Orioli D, Lütcke A, Bucci C, **Chiariello M**, Lehtonen E and Zerial M. Rab proteins and the regulation of vesicular traffic in polarized cells (1995). In: *GTPase controlled molecular machines, Serono Symposia Series Advances in experimental medicine: Frati L and Aaronson A ed.*, Raven Press, New York, 7: p. 187-195. ISBN: 8885974279.
6. Murphy C, Orioli D, Lütcke A, Bucci C, **Chiariello M**, Lehtonen E and Zerial M. Rab proteins and the regulation of vesicular traffic in polarized cells (1994). In: *GTPase-controlled molecular machines. Book Series: Challenges of modern medicine*. 6: 187-195.