

**CURRICULUM VITAE et STUDIORUM**

**Prof.ssa Cecilia Bucci**

## DATI

Nome e Cognome Cecilia BUCCI  
Indirizzo Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali (DiSTeBA) Università del Salento,  
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### Titoli di studio conseguiti, carriera e attività gestionali

**1986** Laurea in Scienze Biologiche, 110/110 e lode, Università della Calabria  
**1989** Abilitazione a biologo (150/150).  
**2000** Professore universitario di ruolo di II fascia non confermato (dal 1 novembre) per il settore scientifico-disciplinare BIO/13 – Biologia Applicata, presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università degli Studi di Lecce (ora Università del Salento).  
**2003** Professore universitario di ruolo di II fascia confermato (dal 1 novembre) per il settore scientifico-disciplinare BIO/13 – Biologia Applicata, presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università di Lecce (ora Università del Salento).  
**2011 - 2014** Professore straordinario del settore scientifico-disciplinare BIO/13 – Biologia Applicata, presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università del Salento.  
**2012 - 2020** Membro del Senato Accademico dell'Università del Salento  
**2013** Delegato del Rettore alla Ricerca  
**2013 – 2021** Consigliere di Amministrazione del Distretto Tecnologico Pugliese High Tech (DHitech scarl)  
**2013 - 2018** Componente della Commissione per la Valorizzazione della Ricerca  
**2014 – ad oggi** Professore ordinario del settore scientifico-disciplinare BIO/13 – Biologia Applicata, presso il Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali dell'Università del Salento.

### Società scientifiche

**1994 ad oggi** Membro dell'American Society of Cell Biology (ASCB).  
**1998 ad oggi** Membro dell'Associazione Biologia Cellulare e Differenziamento (ABCD).  
**2000 ad oggi** Membro dell'Associazione Italiana di Biologia e Genetica Generale e Molecolare (AIBG).  
**2004 ad oggi** Membro dell'American Society of Microbiology (ASM).  
**2006 - 2008** Componente del **Direttivo** della Associazione di Biologia Cellulare e del Differenziamento (ABCD).  
**2008 - 2010** Componente del **Direttivo** dell'Associazione Italiana di Biologia e Genetica Generale e Molecolare (AIBG).  
**2014 ad oggi** Membro della Biochemical Society (UK)  
**2015 ad oggi** Membro dell'Associazione Italiana per lo Studio del Sistema Nervoso Periferico (ASNP)  
**2019 ad oggi** Membro della Società Italiana per le Vescicole Extracellulari (EVITA)  
**2020 ad oggi** Segretario tesoriere dell'Associazione Italiana di Biologia e Genetica Generale e Molecolare (AIBG)

### Periodi di ricerca svolti in laboratori esteri

<b>Settembre 1985-Luglio 1986</b>	Predoctoral Fellow, Department of Genetics, Stanford University, Medical School, Palo Alto, CA, USA sotto la guida del Prof. L. L. Cavalli-Sforza
<b>Ottobre 1990-Ottobre 1993</b>	Postdoctoral Fellow, European Molecular Biology Laboratory (EMBL), Heidelberg, Germania, sotto la guida del Prof. Marino Zerial
<b>Giugno 1996-Settembre 1996</b>	Visiting scientist, European Molecular Biology Laboratory (EMBL), Heidelberg, Germania, nel laboratorio del Prof. Marino Zerial.
<b>Giugno 1998</b>	Visiting scientist, European Molecular Biology Laboratory (EMBL), Heidelberg, Germania, nel laboratorio del Prof. Marino Zerial.
<b>Agosto-Dicembre 1998</b>	Visiting Scientist, University of Copenhagen, nel laboratorio del Prof. Bo Van Deurs

## Premi

Premio "Notte di Note" alle eccellenze nel Salento: Premio per la cultura 2012.

## Progetti e finanziamenti

<b>1996-2000</b>	<b>Responsabile scientifico</b> di una unità operativa del progetto dal titolo "Molecular mechanisms of intracellular protein transport in mammalian cells" nel programma "TMR" finanziato dalla Comunità Europea.
<b>2001-2003</b>	<b>Responsabile scientifico</b> di una unità operativa del Programma di Ricerca Scientifica di Rilevante Interesse Nazionale ( <b>Cofin 2001</b> ) dal titolo: Basi molecolari della fagocitosi: identificazione del ruolo di proteine Rab e loro regolatori tramite lo studio degli effetti causati da batteri patogeni sui normali processi di traffico di membrana.
<b>2002- 2004</b>	<b>Responsabile scientifico</b> di una unità operativa del Programma di Ricerca Scientifica di Rilevante Interesse Nazionale ( <b>Cofin 2002</b> ) dal titolo: Interazioni molecolari tra proteine Rab e loro effettori nelle diverse vie endocitiche: studio degli effetti sull'internalizzazione, la degradazione e lo smistamento delle proteine.
<b>2004-2006</b>	<b>Responsabile scientifico</b> di un'unità operativa del Programma di Ricerca Scientifica di Rilevante Interesse Nazionale ( <b>Cofin 2004</b> ) dal titolo: Basi molecolari della fagocitosi: identificazione di fattori importanti nella biogenesi del fagolisosoma attraverso lo studio dell'interazione tra cellule eucariotiche e microrganismi patogeni.
<b>2005-2008</b>	<b>Responsabile scientifico</b> di un Progetto <b>Telethon</b> dal titolo: Role of the Rab7 protein in hereditary sensory ulcero-mutilating neuropathies.
<b>2008-2010</b>	<b>Responsabile scientifico</b> di un progetto <b>AIRC</b> dal titolo: Role of Rab7 and RILP on signaling receptor trafficking and telomere length.
<b>2009-2013</b>	<b>Responsabile scientifico</b> di un Progetto <b>Telethon</b> dal titolo: Molecular basis of Charcot-Marie-tooth type 2B disease.
<b>2011-2013</b>	<b>Responsabile scientifico</b> di un progetto <b>AIRC</b> dal titolo: Role of Rab7 proteins and their effectors in the acquisition of cell tumorigenic properties.
<b>2013-2016</b>	<b>Responsabile scientifico</b> di un'unità operativa del Programma di Ricerca Scientifica di Rilevante Interesse Nazionale ( <b>PRIN 2010-2011</b> ) dal titolo: Determinanti della polarità cellulare: ruolo degli stimoli polarizzanti extracellulari nell'attivazione e mantenimento di programmi genetici e funzionali in organismi multicellulari.
<b>2014-2016</b>	<b>Responsabile scientifico</b> di un progetto <b>AIRC</b> dal titolo: Gaining tumorigenic properties: involvement of the small GTPase Rab7 and of the Rab-interacting lysosomal protein (RILP).

- 2017-2021**                    **Responsabile scientifico** di un progetto **AIRC** dal titolo: Gaining tumorigenic properties: involvement of the small GTPase Rab7 and of its effector proteins.
- 2017-2021**                    **Responsabile scientifico** di un progetto **Telethon** dal titolo: Charcot-Marie-Tooth type 2B: Role of the RAB7 GTPase and of RAB7 interacting proteins.
- 2020-2022**                    **Responsabile scientifico** del progetto intitolato: "Sviluppo di una terapia genica personalizzata per la cura della SLA" (GenTeSLA) finanziato dalla Regione Puglia.

## **Revisioni e valutazioni**

-La prof.ssa Bucci ha svolto il compito di revisore ad hoc per numerose riviste internazionali tra cui: Acta Neuropathologica, Acta Neuropathologica Communications, Advanced Science, Autophagy, Biochemical Journal, Biochimica and Biophysica Acta, BMC Cell Biology, BMC Microbiology, Cell Death and Disease, Cells, Cellular Microbiology, Cellular Signalling, Cytotechnology, Cytogenetics and Cell Genetics, Electrophoresis, European Journal of Pharmaceutical Sciences, Experimental and Molecular Pathology, Experimental Cell Research, FEBS Letters, Frontiers in Cell and Developmental Biology, Frontiers in Microbiology, Journal of Cell Science, Journal of Cellular Physiology, International Journal of Molecular Sciences, Journal of the Peripheral Nervous system, Nature Communications, Neuromuscular disorders, Orphanet Journal of Rare Diseases, PLoS ONE, Protist, Scientific Reports, The International Journal of Biochemistry and Cell Biology, Traffic.

-La prof.ssa Bucci è nell'editorial board di Frontiers in Cell and Developmental Biology come Review Editor.

La prof.ssa Bucci ha svolto incarichi di revisione anche per:

- CIVR (Comitato di Indirizzo per la Valutazione della Ricerca)
- ANVUR (Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca)
- MIUR per Progetti PRIN/COFIN e per progetti FIRB
- NSF (National Science Foundation) per progetti di ricerca e di didattica di Università americane
- Wellcome Trust per progetti scientifici
- CRDC (Clinical Research and Development Committee) per University College London Hospital (National Health Service Foundation Trust) per progetti scientifici e clinici
- French Muscular Dystrophy Association (AFM Telethon) per progetti scientifici
- French Research Association on ALS per progetti scientifici
- Breakthrough Cancer Research (BCR, an Irish Medical charity focused on funding research into poor prognosis cancers) per progetti scientifici.
- Research Council KU Leuven per progetti scientifici.
- Stazione Zoologica Anton Dohrn per progetti scientifici.
- Swiss National Science Foundation per progetti scientifici.

La prof.ssa Bucci è stata inoltre membro del GEV05 (Gruppo Esperti Valutatori della Area 05 – Biologia) per il settore scientifico-disciplinare BIO/13 - Biologia Applicata dal 2012 al 2013 per la valutazione dei prodotti scientifici per l'ANVUR nell'ambito della VQR2004-2010.

## **Attività scientifica**

Dal 2000 la prof.ssa Bucci coordina un proprio gruppo di ricerca costituito da borsisti e dottorandi, presso il Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali dell'Università del Salento, che si occupa di individuare i meccanismi cellulari e molecolari alla base del traffico di membrana. In particolare, l'attività di ricerca della prof.ssa Bucci riguarda lo studio delle proteine RAB, piccole GTPasi che controllano le diverse tappe del traffico vescicolare, e dei loro effettori nell'endocitosi. In questo ambito, si occupa anche di studiare i meccanismi cellulari e molecolari alla base di patologie ereditarie (ad esempio la neuropatia periferica

Charcot-Marie Tooth di tipo 2b) ed acquisite (come malattie infettive e cancro) legate ad alterazioni del traffico di membrana dovute a malfunzionamento delle proteine RAB e loro interattori.

## Publicazioni

La prof.ssa Bucci è autrice di più di 250 pubblicazioni di cui circa **130** pubblicazioni in extenso su riviste peer-review con comitato di redazione internazionale. L'impact factor totale di queste pubblicazioni è circa **750** mentre le citazioni totali sono più di **12.000** (fonte Google Scholar Citations). Con un fattore h di **51** (cioè 51 pubblicazioni con più di 51 citazioni; fonte Google Scholar Citations) la prof.ssa Bucci è entrata nella classifica dei Top Italian Scientists (TIS) stilata dalla VIA-academy ([http://www.topitalianscientists.org/Top\\_italian\\_scientists\\_VIA-Academy.aspx](http://www.topitalianscientists.org/Top_italian_scientists_VIA-Academy.aspx)).

### Lista di pubblicazioni selezionate

#### A. Peer-reviewed research articles

- A1. LL Cavalli-Sforza, JR Kidd, KK Kidd, C Bucci, AM Bowcock, J. S. Friedlander. DNA markers and genetic variation in the human species. *Cold Spring Harb Symp Quant Biol* 11:411-417 (1986).
- A2. AM Bowcock, C Bucci, JM Hebert, JR Kidd, KK Kidd, JS Friedlander, LL Cavalli-Sforza. Study of 47 DNA markers in five populations from four continents. *Gene Geog* 1:47-64 (1987).
- A3. C. Bucci, R. Frunzio, L. Chiariotti, A. L. Brown, M. M. Rechler, C.B. Bruni. A new member of the ras gene superfamily identified in a rat liver cell line. *Nucleic Acids Res* 16:9979-9993 (1988).
- A4. C. Bucci, P. Mallucci, C. T. Roberts, R. Frunzio, C. B. Bruni. Nucleotide sequence of a genomic fragment of the rat IGF-I gene spanning an alternate 5' non coding exon. *Nucleic Acid Res* 17:3596-3596 (1989).
- A5. S Alberti, C Bucci, M Fornaro, A Robotti, M Stella. Immunofluorescence Analysis in flow cytometry: Better selection of antibody labeled cells after fluorescence overcompensation in the red channel. *J Histochem Cytochem* 39:701-706 (1991).
- A6. P. Lalor, C. Bucci, M. Fornaro, M. C. Rattazzi, H. Nakauchi, L. A. Herzemberg, S. Alberti. Molecular cloning, reconstruction and expression of the gene encoding the alpha chain of the bovine CD8. Definition of three peptide regions conserved across species. *Immunology* 76:95-102 (1992).
- A7. C. Bucci, R. Parton, I. Mather, H. Stunnenberg, K. Simons, M. Zerial. The small GTP-ase Rab5 functions as a regulatory factor in the early endocytic pathway. *Cell* 70:715-728 (1992).
- A8. R Parton, P Schrotz, C Bucci, J Gruenberg. Plasticity of early endosomes. *J Cell Sci* 103:335-348 (1992).
- A9. L Vermeer, N Bos, F Kroese, C Bucci, S Alberti. Molecular cloning of the rat CD5 gene. *Ann N Y Acad Sci* 651:82-83 (1992).
- A10. LA Vermeer, NK de Boer, C Bucci, NA Bos, FG Kroese, S Alberti. MRC OX19 recognizes the rat CD5 surface glycoprotein, but does not provide evidence for the presence of a distinct CD5 positive B cell population in the rat. *Eur J Immunol* 24:585-592 (1994).
- A11. O Ulrich, H Horiuchi, C Bucci, M Zerial. Rab GDI-mediated membrane association of Rab5 is accompanied by nucleotide exchange. *Nature* 368: 157-160 (1994).
- A12. C Bucci, A Wandinger-Ness, A Luetcke, M. Chiariello, C. B. Bruni, M. Zerial. Rab5a is a common component of the apical and basolateral endocytic machinery in polarized epithelial cells. *Proc. Natl. Acad. Sci. USA* 91: 5061-5065 (1994).
- A13. V Pizon, M. Desjardins, C Bucci, R. G. Parton, M. Zerial. Association of Rap1a and Rap1b proteins with late endocytic/phagocytic compartments. *J. Cell Sci.* 107: 1661-1670 (1994).
- A14. H. Horiuchi, O. Ulrich, C Bucci, M. Zerial. Purification of posttranslationally modified and unmodified Rab5s expressed in Sf9 cells. *Method Enzymol.* 257: 9-14 (1995).
- A15. H. Stenmark, C Bucci, M. Zerial. Expression of Rab GTPases with recombinant vaccinia virus. *Method Enzymol.* 257: 155-164 (1995).
- A16. C Bucci, A. Luetcke, O. Steele Mortimer, V. Olkkonen, P. Dupree, M. Chiariello, C. B. Bruni, K. Simons, M. Zerial. Co-operative regulation of endocytosis by three rab5 isoforms. *FEBS Lett.* 366: 65-71 (1995).
- A17. M. Fornaro, R. Dell'Arciprete, M. Stella, C. Bucci, M. Nutini, M. G. Capri, S. Alberti. Cloning of the gene encoding TROP2, a cell surface glycoprotein expressed by human carcinomas. *Int J Cancer* 62: 610-618

(1995).

A18. R. Vitelli, M. Chiariello, C. B. Bruni, C. Bucci. Cloning and expression analysis of the murine Rab7 cDNA. *Biochim. Biophys. Acta - (Gene struct. Express)* 1264:268-270 (1995).

A19. R. Vitelli, M. Chiariello, D. Lattero, C. B. Bruni, C. Bucci. Molecular cloning and expression analysis of the human Rab7 GTP-ase complementary deoxyribonucleic acid. *Biochem Biophys Res Comm* 229:887-890 (1996).

A20. E. Papini, B. Satin, C. Bucci, M. de Bernard, J. Telford, R. Manetti, R. Rappuoli, M. Zerial, C. Montecucco. The small GTP-binding protein Rab7 is essential for cellular vacuolation induced by Helicobacter pylori cytotoxin. *EMBO J* 16:15-24 (1997).

A21. A. D'Arrigo, C. Bucci, B. Toh, H. Stenmark. Involvement of microtubules in baflomycin A1-induced tubulation and Rab5-dependent vacuolation of early endosomes. *Eur. J. Cell Biol.* 72: 95-103 (1997).

A22. R. Vitelli, M. Santillo, D. Lattero, M. Chiariello, M. Bifulco, C. B. Bruni, C. Bucci. Role of the small GTP-ase Rab7 in the late endocytic pathway. *J. Biol. Chem.* 272: 4391-4397 (1997).

A23. C. Bucci, R. Serù, T. Annella, R. Vitelli, D. Lattero, M. Bifulco, P. Mondola, M. Santillo. Free fatty acids modulate LDL receptor activity in BHK-21 cells. *Atherosclerosis* 137: 329-340 (1998).

A24. M. Chiariello, R. Visconti, F. Carlomagno, R. M. Melillo, C. Bucci, V. de Franciscis, G. M. Fox, S. Jing, O. A. Coso, J. S. Gutkind, A. Fusco, M. Santoro. 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 (1998).

A25. M. Chiariello, L. De Gregorio, R. Vitelli, P. Alifano, T. Dragani, C. B. Bruni, C. Bucci. Genetic mapping of the mouse Rab7 gene and pseudogene and of the human RAB7 homolog. *Mamm genome* 9: 448-452 (1998).

A26. L. Carrano, C. Bucci, R. de Pascalis, A. Lavitola, F. Manna, E. Corti, C. B. Bruni, P. Alifano. Effects of Bicyclomycin on RNA- and ATP-binding activities of transcription termination factor Rho. *Antimicrob. agents chem.* 42: 571-578 (1998).

A27. C. Laezza, C. Bucci, M. Santillo, C. B. Bruni, M. Bifulco. Control of Rab5 and Rab7 expression by the isoprenoid pathway. *Biochem. Biophys. Res. Comm.* 248: 469-472 (1998).

A28. C. Bucci, A. Lavitola, P. Salvatore, L. Del Giudice, DR Massardo, C. B. Bruni, P. Alifano. Hypermutation in pathogenic bacteria: frequent phase variation in meningococci is a phenotypic trait of a specialized mutator biotype. *Mol. Cell* 3:435-445 (1999).

A29. A. Lavitola, C. Bucci, P. Salvatore, G. Maresca, C. B. Bruni, P. Alifano. Intracistronic transcription termination in polysialyltransferase gene (siaD) affects phase variation in Neisseria meningitidis. *Mol Microbiol* 33:119-127 (1999).

A30. C. Bucci, M. Chiariello, D. Lattero, M. Maiorano, C. B. Bruni. Interaction cloning and characterization of the cDNA encoding the Human Prenylated Rab Acceptor (Pra1). *Biochem Biophys Res Comm* 258:657-662 (1999).

A31. M. Chiariello, C. B. Bruni, C. Bucci. The small GTP-ases Rab5a, Rab5b and Rab5c are differentially phosphorylated in vitro. *FEBS Lett.* 453: 20-24 (1999).

A32. J. Callaghan, S. Nixon, C. Bucci, B.-H. Toh, H. Stenmark. Direct interaction of EEA1 with Rab5b. *Eur. J. Biochem* (now FEBS journal) 265:361-366 (1999).

A33. C. Bucci, P. Thomsen, P. Nicoziani, J. McCarthy, B. van Deurs. Rab7: a key to lysosome biogenesis. *Mol. Biol. Cell* 11: 467-480 (2000).

A34. P. Salvatore, G. Cantalupo, C. Pagliarulo, M. Tredici, A. Lavitola, C. Bucci, C. B. Bruni, P. Alifano. A new plasmid vector for insertion of any DNA fragment into the chromosome of Neisseria. *Plasmid* 44:275-279 (2000).

A35. G. Cantalupo, P. Alifano, V. Roberti, C. B. Bruni, C. Bucci. Rab interacting lysosomal protein (RILP): the Rab7 effector required for transport to lysosomes. *EMBO J.* 20: 683-693 (2001).

A36. M.W. McCaffrey, A. Bielli, G. Cantalupo, S. Mora, V. Roberti, M. Santillo, F. Drummond, C. Bucci. Rab4 affects both recycling and degradative endosomal trafficking. *FEBS Lett.* 495:21-30 (2001).

A37. G. Cantalupo, C. Bucci, P. Salvatore, C. Pagliarulo, V. Roberti, A. Lavitola, C. B. Bruni, P. Alifano. Evolution and function of the neisserial dam-replacing gene. *FEBS Lett.* 495:178-183 (2001).

A38. P. Salvatore, C. Pagliarulo, R. Colicchio, P. Zecca, G. Cantalupo, M. Tredici, A. Lavitola, C. Bucci, C. B.

- Bruni, P. Alifano. Identification, characterization, and variable expression of a naturally occurring inhibitor protein of IS1106 transposase in clinical isolates of *Neisseria meningitidis*. *Infect. Immun.* 69:7425-36 (2001).
- A39. C. Bucci, L. De Gregorio, C.B. Bruni. Expression analysis and chromosomal assignment of PRA1 and RILP genes. *Biochem. Biophys. Res. Commun.* 286:815-9 (2001).
- A40. A.J. Lindsay, A.G. Hendrick, G. Cantalupo, F. Senic-Matuglia, B. Goud, C. Bucci, M.W. McCaffrey. Rab Coupling Protein (RCP), a novel Rab4 and Rab11 Effector protein. *J. Biol. Chem.* 277:12190-12199 (2002).
- A41. P. Salvatore, C. Bucci, C. Pagliarulo, M. Tredici, R. Colicchio, G. Cantalupo, M. Bardaro, L. Del Giudice, D.R. Massardo, A. Lavitola, C.B. Bruni, P. Alifano. Phenotypes of a Naturally Defective recB Allele in *Neisseria meningitidis* Clinical Isolates. *Infect Immun.* 70:4185-4195 (2002).
- A42. L. Carrano, P. Alifano, E. Corti, C. Bucci, S. Donadio. A new inhibitor of the transcription-termination factor Rho. *Biochem Biophys Res Commun.* 302:219-225 (2003).
- A43. O.V.Vieira, C. Bucci, R. Harrison, W.S. Trimble, P.P. di Fiore, J. Gruenberg, A. Schreiber, P.D. Stahl, S. Grinstein. Modulation of Rab5 and Rab7 recruitment to phagosomes by phosphatidylinositol 3-kinase. *Mol. Cell Biol.* 23: 2501-2514 (2003).
- A44. R.E. Harrison\*, C. Bucci\*, O.V. Vieira, T.A. Schroer, S. Grinstein. Phagosomes fuse with lysosomes by extension of membrane protrusions along microtubules: role of Rab7 and RILP. *Mol. Cell Biol.* 23: 6494-6506 (2003). \*equal contribution
- A45. M.C. Pascale, F. Belleudi, O. Moltedo, S. Franceschelli, M.R. Torrisi, C. Bucci, J.F.B. Mercer, A. Leone. Endosomal trafficking of the Menkes copper ATPase ATP7A is mediated by vesicles containing the Rab7 and Rab5 GTPase proteins. *Exp. Cell Res.* 291: 377-385 (2003).
- A46. J. Guignot, E. Caron, C. Beuzon, C. Bucci, J. Kagan, C. Roy, D. W. Holden. Microtubule motors control membrane dynamics of Salmonella-containing vacuoles. *J. Cell Sci.* 117: 1033-1045 (2004).
- A47. RE Harrison, JH Brummel, A Khandani, C Bucci, CC Scott, X Jiang, BB Finlay, S Grinstein. Salmonella impairs RILP recruitment to Rab7 during maturation of invasion vacuoles. *Mol. Biol. Cell* 15: 3146-3154 (2004).
- A48. S Jager, C. Bucci, I. Tanida, T. Ueno, E. Kominami, P. Saftig, E.L. Eskelinen. Role for Rab7 in maturation of late autophagic vacuoles. *J. Cell Sci* 117:4837-48 (2004).
- A49. L.E. Soni, C.M. Warren, C. Bucci, D.J. Orten, T. Hasson. The unconventional myosin-VIIa associates with lysosomes. *Cell Motil Cytoskeleton* 62:13-26 (2005).
- A50. A.M.R. Colucci, M.C. Campana, M. Bellopede, C. Bucci. The Rab-interacting lysosomal protein, a Rab7 and Rab34 effector, is capable of self-interaction. *Biochem Biophys Res Commun* 334:128-33 (2005).
- A51. S. Saxena, C. Bucci, J.Weis, A. Kruttgen. The Small GTPase Rab7 Controls the Endosomal Trafficking and Neuritogenic Signaling of the Nerve Growth Factor Receptor TrkA. *J. Neurosci.* 25:10930-10940 (2005).
- A52. A.M.R. Colucci, M.R. Spinosa, C. Bucci. Expression, assay and functional properties of RILP. *Method Enzymol* 403:664-675 (2005).
- A53. C. Monaco, A. Talà, M.R. Spinosa, C. Progida, E. De Nitto, A. Gaballo, C.B. Bruni, C. Bucci, P. Alifano. Identification of a meningococcal L-glutamate ABC Transporter Operon essential for growth in low-sodium environments. *Infect Immun.* 74:1725-1740 (2006).
- A54. C. Progida, M.R. Spinosa, A. De Luca, C. Bucci. RILP interacts with the VPS22 component of the ESCRT-II complex. *Biochem. Biophys. Res. Commun.* 347:1074-1079 (2006).
- A55. K Deinhardt, S Salinas, C Verastegui, R Watson, D Worth, S Hanrahan, C Bucci, G Schiavo. Rab5 and Rab7 Control Endocytic Sorting along the Axonal Retrograde Transport Pathway. *Neuron* 52:293-305 (2006).
- A56. G Seeböhm, N Strutz-Seeböhm, R Birkin, G Dell, C Bucci, MR Spinosa, R Baltaev, AF Mack, G Korniychuk, A Choudhury, D Marks, RE Pagano, B Attali, A Pfeufer, RS Kass, MC Sanguinetti, JM Tavare, F Lang. Regulation of Endocytic Recycling of KCNQ1/KCNE1 Potassium Channels. *Circ Res* 100:686-692 (2007).
- A57. M.R. Spinosa, C. Progida, A. Tala, L. Cogli, P. Alifano, C. Bucci. The *Neisseria meningitidis* Capsule Is Important for Intracellular Survival in Human Cells. *Infect Immun.* 75:3594-603 (2007).
- A58. F Boero, C Bucci, AMR Colucci, C Gravili, L Stabili. Obelia (Cnidaria, Hydrozoa Campanulariidae): a microphagous, filterfeeding medusa. *Mar. Ecol.-Evol. Persp.* 28: 178-183 (2007).
- A59. C Progida, L Malerød, S Stuffer, A Brech, C Bucci, H. Stenmark. RILP is required for proper morphology and function of late endosomes. *J. Cell Sci.* 120:3729-2738 (2007).

- A60. J. Sun, A.E. Deghmane, H. Soualhia, T. Hong, C. Bucci, A. Solodkin, Z. Hmama. Mycobacterium Bovis BCG disrupts the interaction of Rab7 with RILP contributing to inhibition of phagosome maturation. *J. Leukoc Biol.*: 82:1437-1445 (2007).
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