

Pier Paolo Di Fiore M.D. Ph.D.

Address European Institute of Oncology **e-mail** pierpaolo.difiore@ieo.it
Via Adamello 16 pierpaolo.difiore@unimi.it
Milano, Italy

Tel +39-2-94375198 **website** www.ieo.it

Education

1981 M.D., *summa cum laude*, University of Naples Federico II, Medical School, Naples, Italy
1984 Board in Oncology, *summa cum laude*, University of Naples Federico II, Medical School, Naples, Italy
1988 Ph.D. in Molecular and Cellular Biology and Pathology, University of Naples Federico II, Medical School, Naples, Italy

Employment

1977-1984 Pre- and Postdoctoral Fellow, Institute of General Pathology, University of Naples Federico II, Medical School, Naples, Italy
1982-1984 Assistant, Clinical Investigations, Department of Clinical Microbiology, University of Naples Federico II, Medical School, Naples, Italy
1984-1987 Visiting Fellow, Laboratory of Cellular & Molecular Biology, National Cancer Institute, Bethesda, MD, USA
1987-1988 Visiting Associate, Laboratory of Cellular & Molecular Biology, National Cancer Institute, Bethesda, MD, USA
1988-1994 Visiting Scientist, Laboratory of Cellular & Molecular Biology, National Cancer Institute, Bethesda, MD, USA
1994-1995 Chief, Section of Molecular Biology, Laboratory of Cellular & Molecular Biology, National Cancer Institute, Bethesda, MD, USA
1995-2001 Division Director, Department of Experimental Oncology, European Institute of Oncology (IEO), Milan, Italy
2001-2009 Scientific Director, The FIRC Institute for Molecular Oncology (IFOM), Milan, Italy
2009-2017 Member, The FIRC Institute for Molecular Oncology (IFOM), Milan, Italy
2009-2018 Director, Program of Molecular Medicine, European Institute of Oncology (IEO), Milan, Italy
2018-present Director, Novel Diagnostics Program, European Institute of Oncology (IEO), Milan, Italy
2018-present Group Leader, European Institute of Oncology (IEO), Milan, Italy

Academic Positions

1983 Lecturer in Experimental Oncology, University of Naples Federico II, Medical School, Naples, Italy
1990-1991 'Contract Professor' of General Physiology, Faculty of Biological, Mathematical and Physical Sciences, University of Genoa, Genoa, Italy
1991-1992 'Contract Professor' of Experimental Oncology, Research Doctorate Program, University of Naples Federico II, Medical School, Naples, Italy
1991-1992 'Contract Professor' of General Physiology, Faculty of Pharmacology, University of Urbino, Urbino, Italy

Curriculum Vitae

| | |
|--------------|---|
| 1992-2000 | Associate Professor of Immunopathology, University of Bari, Medical School, Bari, Italy |
| 2000-present | Full Professor of General Pathology, University of Milan, Medical School, Milan, Italy |
| 2004-present | Founder and Professor: European School of Molecular Medicine (www.semm.it) |
| 2013-present | Provost to interdisciplinary programs, University of Milan, Italy |

Honors and Awards

| | |
|------------|---|
| 1984-1987 | Fogarty Fellowship, NIH |
| 1993, 1994 | Technology Transfer Award, National Cancer Institute, NIH |
| 1997 | Armenise-Harvard Foundation Award |
| 1998 | Ferrero Foundation Award |
| 1998 | EMBO elective membership |
| 2000 | “Chiara D’Onofrio” Prize from the Italian Federation of Life Sciences |
| 2001 | “Golfo d’Oro” prize |
| 2001 | Swiss Bridge Award |
| 2002 | “Guido Venosta” prize for Cancer Research of the Italian Foundation for Cancer Research |
| 2003 | “Guglia” prize |
| 2003 | Sisal prize |
| 2004 | Prize from the “League of Human Rights” |
| 2005 | Prize from the “Italian League against Cancer” |
| 2007-2013 | President Associazione Biologia Cellulare e Differenziamento (<i>The Italian Association of Cell Biology</i>) |
| 2010 | Elected Fellow European Academy of Cancer Sciences |
| 2010 | Elected Fellow Academia Europaea |
| 2012 | Colin Thomson Memorial Medal |
| 2013 | Elected Fellow Accademia dei Lincei |

Committees

| | |
|--------------|--|
| 1997-2000 | Scientific Committee, Italian Association for Cancer Research (AIRC). |
| 2000-2003 | Scientific Advisory Board, Cancer Research Ventures, London, UK |
| 2000 | Award Committee Pezcoller Prize, American Association for Cancer Research |
| 2001-2006 | Scientific Committee, Association for International Cancer Research |
| 2001-present | Scientific Advisor, INSERM |
| 2002-2005 | Italian Scientific Advisory Committee, Armenise-Harvard Foundation |
| 2006-present | Scientific Advisory Board, Umberto Veronesi Foundation |
| 2007-2011 | Scientific Director, Fondazione Ottavio e Pupa Ferrari |
| 2007-2017 | Chairman, Scientific Advisory Board, AIRC |
| 2007-present | Scientific Advisory Board, American-Italian Cancer Foundation |
| 2009-present | Scientific Advisor, CABIMER, Seville, Spain |
| 2009-2015 | Scientific Advisor (review panel), Harvard-Portugal Medical School Program in Translational Research and Information |
| 2011-present | Advisory Board COSBI, the Microsoft Center for Computational and Systems Biology |
| 2013 | Scientific Review Board, Pasteur Institute-AERES, France |
| 2017 | Scientific Review Board, Gustave Roussy Institute, France |

Editorial Boards

Senior Editor: The Journal of Cell Biology
Associate Editor: Cell
Editorial Boards: Cancer Research, Experimental Cell Research, Molecular Oncology, Targeted Proteins Database UPS Virtual Faculty, The Open Endocrinology Journal, Small GTPases, Genes & Cancer, eCancerMedicalScience.

Memberships

- American Association for Cancer Research
- American Association for the Advancement of Science
- New York Academy of Sciences
- European Molecular Biology Organization
- American Society for Cell Biology
- Italian Association for Cell Biology and Differentiation (ABCD)
- Italian Federation of Life Sciences (FiSV)
- European Academy of Cancer Sciences
- Academia Europaea
- Accademia dei Lincei

Patents

- Polinucleotides and substrate for the epidermal growth factor receptor kinase (eps8). US Patent 5,378,809
- DNA encoding human and murine eps15, a substrate for the epidermal growth factor receptor. US Patent 5,487,979
- Intracellular interactors and binding specificity of the EH domain. Patent deposited (Italy). Serial MI97A 000868.
- Substrate for the epidermal growth factor receptor kinase. US Patent 5,717,067
- A substrate for the epidermal growth factor receptor kinase. WO Patent 1,994,004,571
- Antibodies drawn to the eps15 substrate for epidermal growth factor kinase. US Patent 5,872,219
- Substrate for the epidermal growth factor receptor kinase, antibodies thereto and methods of use thereof. US Patent 5,610,018
- Intracellular interactors and binding specificity of the EH domain. WO Patent 1,998,046,744
- Mammalian ubiquitin-isopeptidases that control cell proliferation. WO Patent WO/1998/048,020
- Cancer Markers. PTC/EP2005/010153
- Materials and methods Relating to Cancer Diagnosis, Prognosis and Treatment based on Determination of Novel Molecular Markers in Tumours. PTC/GB2007/001599
- Cancer Markers. PTC/GB2007/001343
- Cancer Markers. US Patent 7,901,876
- Cancer Markers. US Patent App. 12/576,812
- Cancer Markers. Application n. EP 10006758.6
- Cancer Markers. Application n. EP 05787481.0
- Cancer Markers. EP Patent 2,249,155
- Cancer Markers. EP Patent 1,802,971
- Cancer Markers. WO Patent WO/2008/125,791
- Cancer Markers. WO Patent 2,006,037,462

- Cancer Markers. WO Patent WO/2006/037,462
- Cancer Markers. CA 2581041
- Materials and methods relating to cancer diagnosis, prognosis and treatment based on the determination of novel molecular markers in tumors. WO Patent 2,007,132,156
- A method to identify asymptomatic high-risk individuals with early stage lung cancer by means of detecting miRNAs in biologic fluids. WO Patent 2,012,089,630
- A method to identify asymptomatic high-risk individuals with early stage lung cancer by means of detecting miRNAs in biologic fluids. Application n. PCT/EP2011/073868
- Methods for lung cancer detection. CT/EP2015/070664 (Publication No. WO 2016/038119). Priority Filing: US prov 62/047932
- Methods and kits comprising gene signatures for stratifying breast cancer patients. Priority filing: EP16175354.6.

Publications (last 5 years)

1. Caldieri G, Malabarba MG, **Di Fiore PP**, Sigismund S. EGFR Trafficking in Physiology and Cancer. *Prog Mol Subcell Biol.* 2018;57:235-272. doi: 10.1007/978-3-319-96704-2_9.
2. Zobel M, Disanza A, Senic-Matuglia F, Franco M, Colaluca IN, Confalonieri S, Bisi S, Barbieri E, Caldieri G, Sigismund S, Pece S, Chavrier P, **Di Fiore PP**, Scita G. A NUMB-EFA6B-ARF6 recycling route controls apically restricted cell protrusions and mesenchymal motility. *J Cell Biol.* 2018. Sep 3;217(9):3161-3182. doi: 10.1083/jcb.201802023. Epub 2018 Jul 30.
3. Lusito E, Felice B, D'Ario G, Ogier A, Montani F, **Di Fiore PP**, Bianchi F. Unraveling the role of low-frequency mutated genes in breast cancer. *Bioinformatics.* 2018. Jun 29. doi: 10.1093/bioinformatics/bty520. [Epub ahead of print]
4. Avanzato D, Pupo E, Ducano N, Isella C, Bertalot G, Luise C, Pece S, Bruna A, Rueda OM, Caldas C, **Di Fiore PP**, Sapino A, Lanzetti L. High USP6NL Levels in Breast Cancer Sustain Chronic AKT Phosphorylation and GLUT1 Stability Fueling Aerobic Glycolysis. *Cancer Res.* 2018. Jul 1;78(13):3432-3444. doi: 10.1158/0008-5472.CAN-17-3018. Epub 2018 Apr 24.
5. Corallino S, Malinverno C, Neumann B, Tischer C, Palamidessi A, Frittoli E, Panagiotakopoulou M, Disanza A, Malet-Engra G, Nastaly P, Galli C, Luise C, Bertalot G, Pece S, **Di Fiore PP**, Gauthier N, Ferrari A, Maiuri P, Scita G. A RAB35-p85/PI3K axis controls oscillatory apical protrusions required for efficient chemotactic migration. *Nat Commun.* 2018 Apr16;9(1):1475.doi: 10.1038/s41467-018-03571-8. Erratum in: *Nat Commun.* 2018 May 22;9(1):2085.
6. Guarize J, Bianchi F, Marino E, Belloni E, Vecchi M, Donghi S, Lo Iacono G, Casadio C, Cuttano R, Barberis M, **Di Fiore PP**, Petrella F, Spaggiari L. *J Thorac Dis.* 2018 Jan;10(1):408-415. doi: 10.21037/jtd.2017.12.69.
7. Monterisi S, Lo Riso P, Russo K, Bertalot G, Vecchi M, Testa G, **Di Fiore PP**, Bianchi F. HOXB7 overexpression in lung cancer is a hallmark of acquired stem-like phenotype. *Oncogene.* 2018. Jun; 37(26):3575-3588. doi: 10.1038/s41388-018-0229-9. Epub 2018 Mar 26.
8. Reiterer V, Figueras-Puig C, Le Guerroue F, Confalonieri S, Vecchi M, Jalapothu D, Kanse SM, Deshaies RJ, **Di Fiore PP**, Behrends C, Farhan H. The pseudophosphatase STYX targets the F-box of FBXW7 and inhibits SCFFBXW7 function. *EMBO J.* 2018. Mar 15;37(6). pii: e99170. doi: 10.15252/embj.201899170.
9. Colaluca IN, Basile A, Freiburger L, D'Uva V, Disalvatore D, Vecchi M, Confalonieri S, Tosoni D, Cecatiello V, Malabarba MG, Yang CJ, Kainosho M, Sattler M, Mapelli M, Pece S, **Di Fiore PP**. A Numb-Mdm2 fuzzy complex reveals an isoform-specific involvement of Numb in breast cancer. *J Cell Biol.* 2018. Feb 5;217(2):745-762. doi:

10.1083/jcb.201709092. Epub 2017 Dec 21.

10. Gulluni F, Martini M, De Santis MC, Campa CC, Ghigo A, Margaria JP, Ciraolo E, Franco I, Ala U, Annaratone L, Disalvatore D, Bertalot G, Viale G, Noatynska A, Compagno M, Sigismund S, Montemurro F, Thelen M, Fan F, Meraldi P, Marchiò C, Pece S, Sapino A, Chiarle R, **Di Fiore PP**, Hirsch E. Mitotic Spindle Assembly and Genomic Stability in Breast Cancer Require PI3K-C2 α Scaffolding Function. *Cancer Cell*. 2017. Oct 9;32(4):444-459.e7. doi: 10.1016/j.ccell.2017.09.002.
11. Caldieri G, Barbieri E, Nappo G, Raimondi A, Bonora M, Conte A, Verhoef LGGC, Confalonieri S, Malabarba MG, Bianchi F, Cuomo A, Bonaldi T, Martini E, Mazza D, Pinton P, Tacchetti C, Polo S, **Di Fiore PP**, Sigismund S. Reticulon 3-dependent ER-PM contact sites control EGFR nonclathrin endocytosis. *Science*. 2017. May 12;356(6338):617-624. doi: 10.1126/science.aah6152.
12. Lanzetti L, **Di Fiore PP**. Behind the scenes: Endo/Exocytosis in the acquisition of metastatic traits. *Cancer Res*. 2017. Apr 15;77(8):1813-1817, doi: 10.1158/0008-5472.CAN-16-3403. Epub 2017 Apr 3.
13. Grasso S, Chapelle J, Salemme V, Aramu S, Russo I, Vitale N, Verdun di Cantogno L, Dallaglio K, Castellano I, Amici A, Centonze G, Sharma N, Lunardi S, Cabodi S, Cavallo F, Lamolinara A, Stramucci L, Moiso E, Provero P, Albini A, Sapino A, Staaf J, **Di Fiore PP**, Bertalot G, Pece S, Tosoni D, Confalonieri S, Iezzi M, Di Stefano P, Turco E, Defilippi P. The scaffold protein p140Cap limits ERBB2-mediated breast cancer progression interfering with Rac GTPase-controlled circuitries. *Nat Commun*. 2017. Mar 16;8:14797. doi: 10.1038/ncomms14797.
14. Tosoni D, Pambianco S, Ekalle Soppo B, Zecchini S, Bertalot G, Pruneri G, Viale G, **Di Fiore PP**, Pece S. Pre-clinical validation of a selective anti-cancer stem cell therapy for Numb-deficient human breast cancers. *EMBO Mol Med*. 2017. May;9(5):655-671. doi: 10.15252/emmm.201606940.
15. Reiterer V, Figueras-Puig C, Le Guerroue F, Confalonieri S, Vecchi M, Jalapothu D, Kanse SM, Deshaies RJ, **Di Fiore PP**, Behrends C, Farhan H. The pseudophosphatase STYX targets the F-box of FBXW7 and inhibits SCFFBXW7 function. *EMBO J*. Feb 1;36(3):260-273. doi: 10.15252/emj.201694795. Epub 2016 Dec 22. Erratum in: *EMBO J*. 2018 Mar 15;37(6).
16. Sanchini V, Bonizzi G, Disalvatore D, Monturano M, Pece S, Viale G, **Di Fiore PP**, Boniolo G. A Trust-Based Pact in Research Biobanks. From Theory to Practice. *Bioethics*. 2016 May;30(4):260-71. doi: 10.1111/bioe.12184. Epub 2015 Aug 26.
17. Calcagnì A, Kors L, Verschuren E, De Cegli R, Zampelli N, Nusco E, Confalonieri S, Bertalot G, Pece S, Settembre C, Malouf GG, Leemans JC, de Heer E, Salvatore M, Peters DJ, **Di Fiore PP**, Ballabio A. Modelling TFE renal cell carcinoma in mice reveals a critical role of WNT signaling. *Elife*. 2016 Sep 26;5. pii: e17047. doi: 10.7554/eLife.17047.
18. Dama E, Melocchi V, Dezi F, Pirroni S, Carletti RM, Brambilla D, Casiraghi M, Bertalot G, Maisonneuve P, Barberis M, Viale G, Vecchi M, Spaggiari L, Bianchi F, **Di Fiore PP**. An aggressive subtype of stage I lung adenocarcinoma with molecular and prognostic characteristics typical of advanced lung cancers. *Clin Cancer Res*. 2017 Jan 1;23(1):62-72. doi: 10.1158/1078-0432.CCR-15-3005. Epub 2016 Jun 29.
19. Kajiho H, Kajiho Y, Frittoli E, Confalonieri S, Bertalot G, Viale G, **Di Fiore PP**, Oldani A, Garre M, Beznoussenko GV, Palamidessi A, Vecchi M, Chavrier P, Perez F, Scita G. RAB2A controls MT1-MMP endocytic and E-cadherin polarized Golgi trafficking to promote invasive breast cancer programs. *EMBO Rep*. 2016 Jul;17(7):1061-80. doi: 10.15252/embr.201642032. Epub 2016 Jun 2.
20. Dama E, Tillhon M, Bertalot G, de Santis F, Troglio F, Pessina S, Passaro A, Pece S, de Marinis F, Dell'Orto P, Viale G, Spaggiari L, **Di Fiore PP**, Bianchi F, Barberis M, Vecchi M. Sensitive and affordable diagnostic assay for the quantitative detection of anaplastic

- lymphoma kinase (ALK) alteration in patients with non-small cell lung cancer. *Oncotarget*. 2016 Jun 14;7(24):37160-37176. doi: 10.18632/oncotarget.9471.
21. Pozzi C, Cuomo A, Spadoni I, Magni E, Silvola A, Conte A, Sigismund S, Ravenda PS, Bonaldi T, Zampino MG, Cancelliere C, **Di Fiore PP**, Bardelli A, Penna G, Rescigno M. The EGFR-specific antibody Cetuximab combined with chemotherapy triggers immunogenic cell death. *Nat Med*. 2016 Jun;22(6):624-31. doi: 10.1038/nm.4078. Epub 2016 May 2.
 22. Marzi MJ, Montani F, Carletti RM, Dezi F, Dama E, Bonizzi G, Sandri MT, Rampinelli C, Bellomi M, Maisonneuve P, Spaggiari L, Veronesi G, Bianchi F, **Di Fiore PP**, Nicassio F. Optimization and standardization of circulating microRNA for clinical application: the miR-Test case. *Clin Chem*. 2016 May;62(5):743-54. doi: 10.1373/clinchem.2015.251942
 23. Barbieri E, **Di Fiore PP**, Sigismund S. Endocytic control of signaling at the plasma membrane. *Curr Opin Cell Biol*. 2016 Feb 9;39:21-27. doi: 10.1016/j.ceb.2016.01.012.
 24. Savio MG, Wollscheid N, Cavallaro E, Algisi V, **Di Fiore PP**, Sigismund S, Maspero E, Polo S. USP9X controls EGFR fate by deubiquitinating the endocytic adaptor Eps15. *Curr Biol*. 2016 Jan 25;26(2):173-83. doi: 10.1016/j.cub.2015.11.050.
 25. Tosoni D, Zecchini S, Cozzoli M, Colaluca I, Mazzarol G, Rubio A, Caccia M, Villa E, Zilian O, **Di Fiore PP**, Pece S. The Numb/p53 circuitry couples replicative self-renewal and tumor suppression in mammary epithelial cells. *J Cell Biol*. 2015 Nov 23;211(4):845-62. doi: 10.1083/jcb.201505037.
 26. Giampietro C, Deflorian G, Gallo S, Di Matteo A, Pradella D, Bonomi S, Belloni E, Nyqvist D, Quaranta V, Confalonieri S, Bertalot G, Orsenigo F, Pisati F, Ferrero E, Biamonti G, Fredrickx E, Taveggia C, Wyatt CD, Irimia M, **Di Fiore PP**, Blencowe BJ, Dejana E, Ghigna C. The alternative splicing factor Nova2 regulates vascular development and lumen formation. *Nat Commun*. 2015 Oct 8;6:8479. doi: 10.1038/ncomms9479.
 27. Capuani F, Conte A, Argenzio E, Marchetti L, Priami C, Polo S, **Di Fiore PP**, Sigismund S, Ciliberto A. Quantitative analysis reveals how EGFR activation and downregulation are coupled in normal but not in cancer cells. *Nat Commun*. 2015 Aug 12;6:7999. doi: 10.1038/ncomms8999.
 28. Chiaradonna F, Barozzi I, Miccolo C, Bucci G, Palorini R, Fornasari L, Bortrugno OA, Pruneri G, Masullo M, Passafaro A, Galimberti VE, Fantin VR, Richon VM, Pece S, Viale G, **Di Fiore PP**, Draetta G, Pelicci P, Minucci S, Chiocca S. Redox mediated suberoylanilide hydroxamic acid (SAHA) sensitivity in breast cancer. *Antioxid Redox Signal*. 2015 Jul 1;23(1):15-29. doi: 10.1089/ars.2014.6189. Epub 2015 May 27.
 29. Belloni E, Veronesi G, Rotta L, Volorio S, Sardella D, Bernard L, Pece S, **Di Fiore PP**, Fumagalli C, Barberis M, Spaggiari L, Pelicci PG, Riva L. Whole exome sequencing identifies driver mutations in asymptomatic computed tomography detected lung cancers with normal karyotype. *Cancer Genet*. 2015 Apr;208(4):152-5. doi: 10.1016/j.cancergen.2015.02.004. Epub 2015 Feb 20.
 30. Montani F, Marzi MJ, Dezi F, Dama E, Carletti RM, Bonizzi G, Bertolotti R, Bellomi M, Rampinelli C, Maisonneuve P, Spaggiari L, Veronesi G, Nicassio F, **Di Fiore PP**, Bianchi F. miR-Test: a blood test for lung cancer early detection. *J Natl Cancer Inst*. 2015 Mar 19;107(6). pii: djv063. doi: 10.1093/jnci/djv063. Print 2015 Jun.
 31. Tordonato C, **Di Fiore PP**, Nicassio F. The role of non-coding RNAs in the regulation of stem cells and progenitors in the normal mammary gland and in breast tumors. *Front Genet*. 2015 Feb 27;6:72. doi: 10.3389/fgene.2015.00072.
 32. Corallino S, Malabarba MG, Zobel M, **Di Fiore PP**, Scita G. Epithelial-to-Mesenchymal plasticity harnesses endocytic circuitries. *Front Oncol*. 2015 Feb 26;5:45. doi: 10.3389/fonc.2015.00045.
 33. Monterisi S, D'Ario G, Dama E, Rotmensz N, Confalonieri S, Tordonato C, Troglio F, Bertalot G, Maisonneuve P, Viale G, Nicassio F, Vecchi M, **Di Fiore PP**, Bianchi F. Mining cancer expression datasets for latent information on intronic miRNAs. *Mol Oncol*. 2015

- Feb;9(2):473-87. doi: 10.1016/j.molonc.2014.10.001. Epub 2014 Oct 15.
34. Marchesi S, Montani F, Deflorian G, D'Antuono R, Cuomo A, Bologna S, Mazzoccoli C, Bonaldi T, **Di Fiore PP**, Nicassio F. DEPDC-1B coordinates de-adhesion events and cell-cycle progression at mitosis. *Dev Cell*. 2014 Nov 24;31(4):420-33. doi: 10.1016/j.devcel.2014.09.009. Epub 2014 Nov 24.
 35. Baschieri F, Confalonieri S, Bertalot G, **Di Fiore PP**, Dietmaier W, Leist M, Crespo P, Macara IG, Farhan H. Spatial control of Cdc42 signalling by a GM130-RasGRF complex regulates polarity and tumorigenesis. *Nat Commun*. 2014 Sep 11;5:4839. doi: 10.1038/ncomms5839.
 36. Rolland Y, Marighetti P, Malinverno C, Confalonieri S, Luise C, Ducano N, Palamidessi A, Bisi S, Kajihō H, Troglio F, Shcherbakova OG, Dunn AR, Oldani A, Lanzetti L, **Di Fiore PP**, Disanza A, Scita G. The CDC42-Interacting Protein 4 Controls Epithelial Cell Cohesion and Tumor Dissemination. *Dev Cell*. 2014 Sep 8;30(5):553-68. doi: 10.1016/j.devcel.2014.08.006.
 37. Risolino M, Mandia N, Iavarone F, Dardaei L, Longobardi E, Fernandez S, Talotta F, Bianchi F, Pisati F, Spaggiari L, Harter PN, Mittelbronn M, Schulte D, Incoronato M, **Di Fiore PP**, Blasi F, Verde P. Transcription factor PREP1 induces EMT and metastasis by controlling the TGF- β -SMAD3 pathway in non-small cell lung adenocarcinoma. *Proc Natl Acad Sci U S A*. 2014 Sep 9;111(36):E3775-84. doi: 10.1073/pnas.1407074111. Epub 2014 Aug 25.
 38. **Di Fiore PP**, Von Zastrow M. Endocytosis, Signaling, and Beyond. *Cold Spring Harb Perspect Biol*. 2014 Aug 1;6(8). pii: a016865.
 39. Frittoli E, Palamidessi A, Marighetti P, Confalonieri S, Bianchi F, Malinverno C, Mazzarol G, Viale G, Martin-Padura I, Garré M, Parazzoli D, Mattei V, Cortellino S, Bertalot G, **Di Fiore PP**, Scita G. A RAB5/RAB4 recycling circuitry induces a proteolytic invasive program and promotes tumor dissemination. *J Cell Biol*. 2014 Jul 21;206(2):307-28. doi: 10.1083/jcb.201403127
 40. MacDonald G, Nalvarte I, Smirnova T, Vecchi M, Aceto N, Dolemeyer A, Frei A, Lienhard S, Wyckoff J, Hess D, Seebacher J, Keusch JJ, Gut H, Salaun D, Mazzarol G, Disalvatore D, Bentires-Alj M, **Di Fiore PP**, Badache A, Hynes NE. Memo is a copper-dependent redox protein with an essential role in migration and metastasis. *Sci Signal*. 2014 Jun 10;7(329):ra56. doi: 10.1126/scisignal.2004870.
 41. De Luca M, Cogli L, Progida C, Nisi V, Pascolutti R, Sigismund S, **Di Fiore PP**, Bucci C. 2014. The Rab-interacting lysosomal protein (RILP) regulates vacuolar ATPase acting on the V1G1 subunit. *J Cell Sci*. 2014 Jun 15;127(Pt 12):2697-708. doi: 10.1242/jcs.142604. Epub 2014 Apr 24. Erratum in: *J Cell Sci*. 2015 Jul 15;128(14):2565.
 42. Rambaldi D, Pece S, **Di Fiore PP**. 2014. flowFit: a Bioconductor package to estimate proliferation in cell-tracking dye studies. *Bioinformatics* 2014. Jul 15;30(14):2060-5. doi: 10.1093/bioinformatics/btu127. Epub 2014 Mar 27.
 43. Polo S, **Di Fiore PP**, Sigismund S. 2014. Keeping EGFR signaling in check: Ubiquitin is the guardian. *Cell Cycle*. 2014 Mar 1;13(5):681-2. Epub 2014 Jan 21.
 44. D'Antonio M, Guerra RF, Cereda M, Marchesi S, Montani F, Nicassio F, **Di Fiore PP**, Ciccarelli FD. 2013. Recessive cancer genes engage in negative genetic interactions with their functional paralogs. *Cell Rep*. 2013 Dec 26;5(6):1519-26. Epub 2013 Dec 19.
 45. Bossi D, Carlomagno F, Pallavicini I, Pruneri G, Trubia M, Raviele PR, Marinelli A, Anaganti S, Cox MC, Viale G, Santoro M, **Di Fiore PP**, Minucci S. 2013. Functional characterization of a novel FGFR1OP-RET rearrangement in hematopoietic malignancies. *Mol Oncol*. 2014 Mar;8(2):221-31. Epub: 2013 Nov 19
 46. Palamidessi A, Frittoli E, Ducano N., Offenhauser N, Sigismund S, Kajihō H, Parazzoli D, Oldani A, Gobbi M, Serini G, **Di Fiore PP**, Scita G, Lanzetti L. 2013. The GTPase activating

protein RN-tre controls focal adhesion turn over and cell migration. *Curr Biol.* 2013 Dec 2;23(23):2355-64 . Epub: 2013 Nov 13

47. Furness DN, Johnson SL, Manor U, Rüttiger L, Tocchetti A, Offenhauser N, Olt J, Goodyear RJ, Vijayakumar S, Dai Y, Hackney CM, Franz C, **Di Fiore PP**, Masetto S, Jones SM, Knipper M, Holley MC, Richardson GP, Kachar B, Marcotti W. 2013. Progressive hearing loss and gradual deterioration of sensory hair bundles in the ears of mice lacking the actin-binding protein Eps8L2. *Proc Natl Acad Sci U S A.* 110:13898-13893.
48. Sigismund S, Algisi V, Nappo G, Conte A, Pascolutti R, Cuomo A, Bonaldi T, Argenzio E, Verhoef LG, Maspero E, Bianchi F, Capuani F, Ciliberto A, Polo S, **Di Fiore, PP.** 2013. Threshold-controlled ubiquitination of the EGFR directs receptor fate. *EMBO J.* 32:2140-2157.
49. Amson R, Pece S, Marine JC, **Di Fiore PP**, Telerman A. 2013. TPT1/ TCTP-regulated pathways in phenotypic reprogramming. *Trends Cell Biol.* 23:37-46.
50. Tsushima H, Malabarba MG, Confalonieri S., Senic-Matuglia F, Verhoef LG, Bartocci C, D'Ario G, Cocito A, **Di Fiore PP**, Salcini AE. 2013. A snapshot of the physical and functional wiring of the Eps15 homology domain network in the nematode. *PLoS One.* 8:e56383.