

CURRICULUM VITAE

PERSONAL INFORMATION

Family name, First name: **Sigismund Sara**

Researcher unique identifier(s): ResearcherID: H-3687-2017, <https://orcid.org/0000-0002-1396-4453>

Date of birth: 9 December 1974

Nationality: Italian

Affiliation: Università degli Studi di Milano, Dipartimento di Oncologia ed Emato-oncologia, Via Santa Sofia 9/1, 20122, Milano

c/o Istituto Europeo di Oncologia, Via Adamello 16, 20139, Milan, Italy

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• EDUCATION

2000-2004 **PhD**, Open University, Oxford, UK and IFOM-IEO Campus, Milan, Italy

Thesis: “The role of monoubiquitination in endocytosis”

Internal supervisor: Dr. Simona Polo (IFOM-IEO Campus, Milan, Italy);

External supervisor: Prof. Marino Zerial (Max Planck, 200 Dresden, Germany)

1998-2000 **Master’s in Biology with honours** (110/110 cum laude), Dept. of Genetics and Microbiology, University of Milan, Milan, Italy.

Thesis: “Identification of new interactors of Sox21, a transcription factor involved in neural system development”

Supervisor: Prof. Marco E. Bianchi (University of Milan, Milan Italy)

• CURRENT POSITION(S)

2021 – present Associate Professor of Applied Biology, Dept. of Oncology and Hemato-Oncology, University of Milan, Milan, Italy c/o IEO, European Institute of Oncology, Milan, Italy

• PREVIOUS POSITIONS

2018 – 2020 Assistant Professor (RTD-B), Dept. of Oncology and Hemato-Oncology, University of Milan, Milan, Italy c/o IEO, European Institute of Oncology, Milan, Italy

2010 – 2017 Head of the Endocytosis Research Team, Laboratory of Cellular Logistics of Cancer directed by Prof. Pier Paolo Di Fiore, IFOM, The FIRC Institute of Molecular Oncology, Milan, Italy

2004 – 2010 Post-doc, Laboratory of Prof. Pier Paolo Di Fiore, IFOM, The FIRC Institute of Molecular Oncology, Milan, Italy

2000 – 2004 Ph.D. student, IFOM-IEO Campus, Milan, Italy

1998 – 2000 Master’s thesis student, Laboratory of Prof. Marco E. Bianchi, Dept. of Genetics and Microbiology, University of Milan, Milan, Italy

• GRANTS

2023 – 2025 **PRIN2022, MIUR**, “Proximity Ligation and Nanopore Sequencing for the characterization of native RNA-protein interactions”, Co-applicant

2021 – 2027 **ERC Consolidator Grant**, (101002280) “EGFR signalling talks to mitochondria through contact sites”, EGFRtoMITO, Principal Investigator

2021 – 2025 **AIRC Investigator Grant** (24415) “Role of Epsin3-mediated endocytosis in cell plasticity, breast cancer progression and metastasis”, Principal Investigator

2020 – 2021 **Worldwide Cancer Research Grant** (20-0094) “Contact sites between the plasma membrane, endoplasmic reticulum and mitochondria: connecting EGFR signalling to cell metabolism”, Principal Investigator

2019 – 2022 **PRIN2017, MIUR**, “Discovering how signalling pathways coordinate intracellular organelle communication”, Co-applicant

2019 – 2020 **PSR2019 Research Grant**, University of Milan, “Role of EGFR endocytosis in the regulation of migration, invasion and morphogenesis processes”, Principal Investigator

- 2018– 2019 **PSR2018 Research Grant**, University of Milan, “Role of endocytosis and EGFR signaling in breast cancer: Development of predictive mathematical models and their experimental validation”, Principal Investigator
- 2016-2019 **Worldwide Cancer Research Grant (16-1245)** “Role of Endoplasmic Reticulum-Plasma Membrane Contact Sites in Long-term Attenuation of EGFR Signaling”, Principal Investigator

• **AWARDS**

- 2022 EMBO Member
- 2007 Keystone Scholarship, Ubiquitin and Signaling, Big Sky, Montana, USA
- 2005 Cecilia Cioffrese Award, Carlo Erba, Italy, assigned for the best Italian research on cancer and viral disease
- 2004 Upstate Young Cell Signaller Award, Upstate, Dundee, UK
- 2004 SIBBM Award, Italian Society of Biophysics and Molecular Biology

• **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2023-present President of ABCD Society (Italian Association of Cell Biology and Differentiation)
- 2021-present Member of ERC in Italy Society (2021- Pres)
- 2021-present Member of EMBO Catalyst Programme
- 2018 – 2022 Council Member and Treasurer of ABCD Society
- 2009 – 2014 Member of Inproteolys, European Intracellular Proteolysis Network

• **PANEL MEMBER**

- ERC Examination Panel Member
- Panel Member for "MY FIRST SEED GRANT", University of Milan, Call 2023
- Internal Panel Member at University of Milan, for Young Researchers' Grant MIUR ERC, MSCA Seal of Excellence – SoE

• **TEACHING ACTIVITIES**

- 2021 – present Lecturer, Experimental Design Course, Biomedical Omics Studies, University of Milan, Italy
- 2020 – present Lecturer, Biology Course in Medical Studies, Rho Hospital, University of Milan, Italy
- 2019 – present Lecturer, Biology Course in Medical Studies, Istituto Tumori, University of Milan, Italy
- 2018 – 2019 Lecturer, Biochemistry Course in Medical Studies, University of Milan, Italy
- 2015 – present Lecturer, Biochemistry Course, European School of Molecular Medicine (SEMM), Milan, Italy
- 2008 – 2012 Instructor at “EMBO Practical Course on Ubiquitin and Sumo”, 2008, 2010 and 2012
- 2005 Instructor at “EMBO Practical Course on Endocytosis and Signaling during Development”, Dresden, Germany, 2005

• **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2025 Organizing Committee, ABCD National Meeting, Paestum, Italy
- 2023 Chair, EMBO Endocytosis Meeting, Venice, Italy
<https://meetings.embo.org/event/21-endocytosis>
- 2023 Organizing Committee, ABCD National Meeting, Paestum, Italy
<https://abcd2023.azuleon.org/>
- 2022 Organizer, National PhD meeting, Salerno, Italy
<https://dott2020.azuleon.org/>
- 2019 Organizer, National ABCD Congress 2019,
<https://abcd2019.azuleon.org/>
- 2018 Co-chair, National PhD meeting, Salerno, Italy
<http://abcd-it.org/meetings/detail/340/national-phd.-meeting>
- 2014 Chair, ABCD meeting, Mechanism of Signal Transduction, Padova, Italy
<http://abcd-it.org/meetings/detail/40/mechanisms-of-signal-transduction>
- 2012 Co-chair, ABCD meeting, Mechanism of Signal Transduction, Florence, Italy
<http://abcd-it.org/meetings/detail/39/mechanisms-of-signal-transduction>

- **INVITED SPEAKER AT SCIENTIFIC MEETINGS**

- 2025 Jacques Monod Conference, Roscoff, France
- 2025 EMBO Workshop, From Molecules to Organisms, Radstadt, Austria
- 2025 EMBO Cancer Signaling and Therapeutics Conference, Cavtat, Croatia
- 2024 French Society for Cell Biology Meeting, From Cells to Organisms, Paris, France
- 2024 128th International Titisee Conference "Organelle communication: from fundamental understanding to therapeutics", Titisee, Black Forest, Germany.
- 2023 EMBO "Annaberg" workshop "From molecules to organisms: An integrative view of cell biology", Goldegg, Austria_postponed to 2025
- 2023 EMBO Workshop, "Interorganellar Contacts Biology", Fiuggi, Italy
- 2023 Tarone Day Symposium, Molecular Biotechnology Center "Guido Tarone", University of Torino
- 2023 Dynamic Cell V, Biochemical Society, Loughborough University, UK
- 2023 PhD examiner and Invited Seminar at University of Copenhagen
- 2023 Invited Seminar at Beatson Cancer Institute
- 2022 EMBO Members' Meeting, EMBL, Heidelberg, Germany.
- 2022 International Symposium on Chemical Biology, Geneva, Switzerland
- 2021 Virtual ABCD Distinguished Lectures Series, Italy
- 2021 Virtual meeting, 23rd Annual Club Exocytose-Endocytose Meeting, France
- 2021 Virtual Seminars at the University of Rome, (Italy) University of Genova (Biomedical Research Seminar Series, Italy), University of Sheffield (BMS Seminar Series, UK), CanCell Center in OSLO (Norway)
- 2019 Cell Signaling and Intracellular Trafficking in Cancer Biology: Interplay, Targeting and Therapy, Molecular Biotechnology Centre, Turin, Italy, <https://biochemistry.org/events/cell-signaling-and-intracellular-trafficking-in-cancer-biology-interplay-targeting-and-therapy/>
- 2019 EMBO Workshop, The physics and chemistry of endocytosis at multiple scales, Ischia, Italy, <http://events.embo.org/coming-soon/index.php?EventID=w19-45>
- 2017 National ABCD meeting, Bologna, Italy, <https://abcd2017.azuleon.org/programme.php>
- 2016 Gordon Research Conference, Lysosome & Endocytosis, Proctor Academy, Andover, NH, United States, <https://www.grc.org/lysosomes-and-endocytosis-conference/2016/>
- 2015 EMBO Conference, The multidisciplinary era of endocytic mechanics and functions 2015, Mandelieu-la-Napoule, France, <http://events.embo.org/15-endocytic/>
- 2010 Rubicon Network of Excellence, Plenary Meeting, Sant Feliu de Guixols, Barcelona, Spain
- 2009 EMBO Conference, Ubiquitin and ubiquitin-like modifiers in health and disease, Riva del Garda, Italy, <http://cwp.embo.org/cfs2-09-12/programme.html>
- 2009 Inproteolys Proteasome Meeting, 4th Intracellular Proteolysis meeting focusing on the ubiquitin-proteasome system, dynamics and targeting, Barcelona, Spain

- **REVIEWING ACTIVITIES**

Ad hoc reviewer for: Science, Nature Communications, Journal of Cell Biology, eLife, Developmental Cell, EMBO Journal, EMBO Reports

- **EDITORIAL ACTIVITIES**

Associate Editor of Cellular and Molecular Life Science (CMLS, IF =8)

- **CAREER BREAKS**

- 2007-2008 Maternity leave for my first child
- 2011-2012 Maternity leave for my second child
- 2013-2014 Maternity leave for my third child

PUBLICATIONS

1. García Casas P, Rossini M, Pávénus L, Saeed M, Arnst N, Sonda S, Fernandes T, D'Arsiè I, Bruzzone M, Berno V, Raimondi A, Sassano ML, Naia L, Barbieri E, **Sigismund S**, Agostinis P, Sturlese M, Niemeyer BA, Brismar H, Ankarcrona M, Gautier A, Pizzo P, Filadi R. Simultaneous

- detection of membrane contact dynamics and associated Ca²⁺ signals by reversible chemogenetic reporters. **Nature Communications** 15(1):9775. doi: 10.1038/s41467-024-52985-0 (2024)
2. Lupi M, Avanzato D, Confalonieri S, Martino F, Pennisi R, Pupo E, Audrito V, Freddi S, Bertalot G, Montani F, Matoskova B, **Sigismund S**, Di Fiore PP, Lanzetti L. TBC1 domain-containing proteins are frequently involved in triple-negative breast cancers in connection with the induction of a glycolytic phenotype. **Cell Death Dis.** 15(9):647. doi: 10.1038/s41419-024-07037-2 (2024).
 3. Kakogiannos N, Scalise AA, Martini E, Maderna C, Benvenuto AF, D'Antonio M, Carmignani L, Magni S, Gullotta GS, Lampugnani MG, Iannelli F, Beznoussenko GV, Mironov AA, Cerutti C, Bentley K, Philippides A, Zanardi F, Bacigaluppi M, **Sigismund S**, Bassani C, Farina C, Martino G, De Giovanni M, Dejana E, Iannaccone M, Inverso D, Giannotta M. GPR126 is a specifier of blood-brain barrier formation in the mouse central nervous system. **J Clin Invest.** 134(15):e165368. doi: 10.1172/JCI165368 (2024)
 4. Salvi Mesa D., Barbieri E., Raimondi A., Freddi S., Miloro G., Jendrisek G., Caldieri G., Quarto M., Schiano Lomoriello I., Malabarba MG, Bresci A., Manetti F., Vernuccio F., Abdo H., Scita G., Polli D., Tacchetti C., Pinton P., Bonora M, Di Fiore P.P., **Sigismund S.** **Nature Communications** 15(1):5119. doi: 10.1038/s41467-024-49543-z (2024)
 5. Green BJ, Marazzini M, Hershey B, Fardin A, Li Q, Wang Z, Giangreco G, Pisati F, Marchesi S, Disanza A, Frittoli E, Martini E, Magni S, Beznoussenko GV, Vernieri C, Lobefaro R, Parazzoli D, Maiuri P, Havas K, Labib M, **Sigismund S**, Fiore PPD, Gunby RH, Kelley SO, Scita G. PillarX: A Microfluidic Device to Profile Circulating Tumor Cell Clusters Based on Geometry, Deformability, and Epithelial State. **Small** 18(17):e2106097. doi: 10.1002/sml.202106097 (2022)
 6. Schiano Lomoriello I, **Sigismund S***, Day KJ*. Biophysics of endocytic vesicle formation: A focus on liquid-liquid phase separation. **Curr Opin Cell Biol.** (2022) *Co-corresponding authors
 7. **Sigismund S**, Lanzetti L, Scita G, Di Fiore PP. Endocytosis in the context-dependent regulation of individual and collective cell properties. **Nat. Rev. Mol. Cell. Biol.** doi: 10.1038/s41580-021-00375-5 (2021)
 8. Giangreco G, Malabarba MG, **Sigismund S**. Specialised endocytic proteins regulate diverse internalisation mechanisms and signalling outputs in physiology and cancer. **Biol Cell** 113(4):165-182. doi: 10.1111/boc.202000129 (2021).
 9. Gammella E, Lomoriello IS, Conte A, Freddi S, Alberghini A, Poli M, **Sigismund S**, Cairo G, Recalcati S. Unconventional endocytosis and trafficking of transferrin receptor induced by iron. **Mol Biol Cell** 32(2):98-108 (2020)
 10. Schiano Lomoriello I, Giangreco G, Iavarone C, Tordonato C, Caldieri G, Serio G, Confalonieri S, Freddi S, Bianchi F, Pirroni S, Bertalot G, Viale G, Disalvatore D, Tosoni D, Malabarba MG, Disanza A, Scita G, Pece S, Pilcher BK, Vecchi M, **Sigismund S*** and Di Fiore PP*. “A self-sustaining endocytic-based loop promotes breast cancer plasticity leading to aggressiveness and pro-metastatic behavior. **Nature Communications** 11(1), 3020 (2020) *Co-corresponding authors
 11. Rizzelli F, Malabarba MG, **Sigismund S***, Mapelli M*. “The crosstalk between microtubules, actin and membranes shapes cell division”. **Open Biology** 10(3), rsob190314 (2020) *Co-corresponding
 12. Palamidessi A, Malinverno C, Frittoli E, Corallino S, Barbieri, E, **Sigismund S**, Beznoussenko GV, Martini E, Garre M, Ferrara I, Tripodo C, Ascione F, Cavalcanti-Adam EA, Li, Q, Di Fiore PP, Parazzoli D, Giavazzi F, Cerbino R, Scita G. “Unjamming overcomes kinetic and proliferation arrest in terminally differentiated cells and promotes collective motility of carcinoma”. **Nature Materials** 18(11), pp. 1252-1263 (2019)
 13. Pascolutti R, Algisi V, Conte A, Raimondi A, Pasham M, Upadhyayula S, Gaudin R, Tanja Maritzen T, Barbieri E, Caldieri G, Freddi S, Confalonieri S, Malabarba MG, Maspero E, Polo S, Tacchetti C, Haucke V, Kirchhausen T, Di Fiore PP, **Sigismund S**. “Molecularly distinct clathrin-coated pits differentially impact on EGFR fate and signaling”. **Cell Reports** Jun 4; 27(10):3049-3061 (2019)

14. Milesi C, Alberici P, Pozzi B, Oldani A, Beznoussenko GV, Raimondi A, Soppo BE, Amodio S, Caldieri G, Malabarba MG, Bertalot G, Confalonieri S, Parazzoli D, Mironov AA, Tacchetti C, Di Fiore PP, **Sigismund S*** and Offenhäuser N*. “Redundant and non-redundant organismal functions of EPS15 and EPS15L1” **Life Sci Alliance** (2019). *Co-corresponding.
15. **Sigismund S.** Scita G. “The 'endocytic matrix reloaded' and its impact on the plasticity of migratory strategies.” **Curr Opin Cell Biol.** 54:9-17 (2018)
16. 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** 217(9):3161-3182 (2018)
17. **Sigismund S***, Avanzato D, Lanzetti L*. “Emerging functions of the EGFR in cancer”. **Mol Oncol.** 12(1): 3-20 (2018). doi: 10.1002/1878-0261.12155. *Co-corresponding. IF=5.9, CIT=78
18. Caldieri G, Malabarba MG, Di Fiore PP, **Sigismund S.** EGFR Trafficking in Physiology and Cancer. **Prog Mol Subcell Biol** 57:235-272 (2018)
19. Gulluni, F., Martini, M., De Santis, M.C., (...), Di Fiore, P.P., Hirsch, E. Mitotic Spindle Assembly and Genomic Stability in Breast Cancer Require PI3K-C2 α Scaffolding Function, **Cancer Cell** 32(4), pp. 444-459.e7 (2017)
20. Caldieri G, Barbieri E, Nappo G, Raimondi A, Bonora M, Conte A, Verhoef L G G C, Confalonieri S, Malabarba M G, Bianchi F, Cuomo A, Bonaldi T, Martini E, Mazza D, Pinton P, Tacchetti C, Polo S, Di Fiore PP* and **Sigismund S***. Reticulon3-dependent ER-PM contact sites control EGFR non-clathrin endocytosis. **Science** 356(6338): 617-62 (2017). *co-corresponding.
21. Conte A, **Sigismund S.** Methods to investigate EGFR ubiquitination. **Methods in Molecular Biology**, 1652, pp. 81-100 (2017)
22. Sigismund, S., Polo, S. Strategies to detect endogenous ubiquitination of a target mammalian protein *Methods in Molecular Biology* 1449, pp. 143-151 (2016)
23. Caldieri G, **Sigismund S.** Spatial resolution of cAMP signaling by soluble adenylyl cyclase. **J Cell Biol** 214(2):125-7 (2016)
24. 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** 22(6): 624-31 (2016)
25. Barbieri E, Di Fiore PP, **Sigismund S.** Endocytic control of signaling at the plasma membrane. **Curr Opin Cell Biol** 39:21-7 (2016)
26. 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** 26 (2): 173-83 (2016)
27. Conte A, **Sigismund S.** Chapter Six - The Ubiquitin Network in the Control of EGFR Endocytosis and Signaling. *Prog Mol Biol Transl Sci* 141:225-76 (2016)
28. Capuani F, Conte A, Argenzio E, Marchetti L, Priami P, Polo S, Di Fiore PP #, **Sigismund S #** and Ciliberto A #. Quantitative analysis reveals how EGFR activation and downregulation are coupled in normal but not in cancer cells. **Nature Communications** 6:7999 (2015) # Co-corresponding authors.
29. Polo S, Di Fiore PP, **Sigismund S.** Keeping EGFR signaling in check: ubiquitin is the guardian. *Cell Cycle.* 13 (5): 681-2 (2014)
30. De Luca M, Cogli L, Progida C, Nisi V, Pascolutti R, **Sigismund S**, Di Fiore PP, Bucci C. RILP regulates vacuolar ATPase through interaction with the V1G1 subunit. *J Cell Sci.* 127: 2697-708 (2014)
31. Palamidessi A, Frittoli E, Ducano N, Offenhauser N, **Sigismund S**, Kajihio H, Parazzoli D, Oldani A, Gobbi M, Serini G, Di Fiore PP, Scita G, Lanzetti L. The GTPase-activating protein RN-tre controls focal adhesion turnover and cell migration. *Curr Biol.* 23(23):2355-64 (2013)
32. **Sigismund S**, Nappo G, Algisi V, Conte A, Pascolutti R, Cuomo A, Bonaldi T, Argenzio E, Verhoef LGGC, Maspero E, Bianchi F, Capuani F, Ciliberto A, Polo S, Di Fiore PP. Threshold-controlled ubiquitination of the EGFR directs receptor fate. *EMBO J.* 32(15): 2140-57 (2013)

33. Scita G, Disanza A, Frittoli E, Palamidessi A, **Sigismund S**. Endocytosis in the spatial control of polarised cell functions (Book Chapter). Vesicle Trafficking in Cancer (2013)
34. Garofalo C, Mancarella C, Grilli A, Manara MC, Astolfi A, Marino MT, Conte A, **Sigismund S**, Carè A, Belfiore A, Picci P, Scotlandi K. Identification of common and distinctive mechanisms of resistance to different anti-IGF-IR agents in Ewing's sarcoma. *Mol Endocrinol.* 26(9):1603-16 (2012)
35. Orsenigo F, Giampietro C, Ferrari A, Corada M, Galaup A, **Sigismund S**, Ristagno G, Maddaluno L, Young Koh G, Franco D, Kurtcuoglu V, Poulidakos D, Baluk P, McDonald D, Grazia Lampugnani M, Dejana E. Phosphorylation of VE-cadherin is modulated by haemodynamic forces and contributes to the regulation of vascular permeability in vivo. *Nat Commun.* 3:1208 (2012)
36. **Sigismund S**, Confalonieri S, Ciliberto A, Polo S, Scita G, Di Fiore PP. Endocytosis and signaling: cell logistics shape the eukaryotic cell plan. *Physiol Rev.* 92(1):273-366 (2012).
37. Morello V, Cabodi S, **Sigismund S**, Camacho-Leal MP, Repetto D, Volante M, Papotti M, Turco E, Defilippi P. $\beta 1$ integrin controls EGFR signaling and tumorigenic properties of lung cancer cells. *Oncogene.* 2011. 30(39):4087-96.
38. Hofman EG, Bader AN, Voortman J, van den Heuvel DJ, **Sigismund S**, Verkleij AJ, Gerritsen HC, van Bergen en Henegouwen PM. Ligand-induced EGF receptor oligomerization is kinase-dependent and enhances internalization. *J Biol Chem.* 285(50):39481-9 (2010).
39. Acconcia F, **Sigismund S**, Polo S. Ubiquitin in trafficking: the network at work. *Exp Cell Res.* 315(9):1610-8 (2009).
40. **Sigismund S**, Argenzio E, Tosoni D, Cavallaro E, Polo S and Di Fiore PP. Clathrin-mediated internalisation is essential for sustained EGFR signalling but dispensable for degradation. *Dev.Cell.* 15(2): 209-19 (2008).
41. Woelk T, **Sigismund S**, Penengo L and Polo S. Ubiquitination code: a signaling problem. *Cell Div.* 2: 11 (2007)
42. Zuccato E, Blott EJ, Holt O, **Sigismund S**, Shaw M, Bossi G and Griffiths GM Sorting of Fas ligand to secretory lysosomes is regulated by mono-ubiquitylation and phosphorylation. *J Cell. Sci.* 120: 191-9 (2007)
43. **Sigismund S**, Woelk T, Puri C, Maspero E, Tacchetti C, Transidico P, Di Fiore PP and Polo S. Clathrin-independent endocytosis of ubiquitinated cargos. *Proc Natl Acad Sci U S A.* 102(8): 2760-5 (2005)
44. **Sigismund S**, Polo S and Di Fiore PP. Signaling Through Monoubiquitination. *Current Topics Microbiol Immunol.* 286: 149-85 (2004), review
45. Haglund K*, **Sigismund S***, Polo S, Szymkiewicz I, Di Fiore PP and Dikic I Multiple monoubiquitination of receptor tyrosine kinases is sufficient for their endocytosis and degradation. *Nature Cell Biology* 5, 461-466 (2003) *Contributed equally to this work
46. Polo S, **Sigismund S**, Faretta M, Guidi M, Capua MR, Bossi G, Chen H, De Camilli P and Di Fiore PP. A single motif responsible for both ubiquitin recognition and monoubiquitination in endocytic proteins. *Nature* 416, 451-455 (2002)