

DANIELE GUARDAVACCARO

CONTACT INFORMATION

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EDUCATION

M.S. in Biological Sciences (cum Laude), University of Rome, Italy	1991
Ph.D. equivalent in Neurobiology, National Research Council, Rome, Italy	1998
Ph.D. in Genetics and Cellular Biology, University of Viterbo, Italy	2012

RESEARCH APPOINTMENTS

Postdoctoral Fellow, New York University School of Medicine, New York, USA	1998-2004
Visiting Scientist, Columbia University, New York, USA	1999-2000
Research Instructor, New York University School of Medicine, New York, USA	2004-2008
Group leader, Hubrecht Institute and University Medical Centre Utrecht, The Netherlands	2008-2018
Professor of Molecular Biology, University of Verona, Italy	2018-present

AWARDS AND FELLOWSHIPS

CNR (National Research Council) Fellowship	1993
Adriano Buzzati-Traverso Foundation Fellowship	1994
CNR (National Research Council) Fellowship	1995
IARC (International Agency for Research on Cancer) Fellowship	1998
AICF (American-Italian Cancer Foundation) Fellowship	1999
Susan G. Komen Breast Cancer Foundation Fellowship	2001

PEER REVIEWED PUBLICATIONS

- Tsunematsu T, Mouri Y, Shao W, Arakaki R, Jan G, Ruppert JG, Murano K, Ishimaru N, Guardavaccaro D, Pagano M, and Kudo Y. Sustained chromosomal passenger complex activity preserves the pluripotency of human embryonic carcinoma cells.
Science Signaling, 2025 in press.
- Dalle Carbonare L, Minoia A, Gandini A, Piritore FC, Patuzzo C, Ceretti L, Vareschi A, Aparo A, Cominacini M, Malerba G, Romanelli MG, Pessoa J, Guardavaccaro D, Antoniazzi F, Valenti MT. Unraveling RUNX2 mutation in a cleidocranial dysplasia patient: Molecular insights into osteogenesis and proteostasis,
Genes & Diseases, 2025 in press.
- Dalle Carbonare L, Minoia A, Vareschi A, Piritore FC, Zouari S, Gandini A, Meneghel M, Elia R, Lorenzi P, Antoniazzi F, Pessoa J, Zipeto D, Romanelli MG, Guardavaccaro D, Valenti MT. Exploring the Interplay of RUNX2 and CXCR4 in Melanoma Progression.
Cells, 2024 Feb 27;13(5):408.
- Grifagni D, Lenci E, De Santis A, Orsetti A, Barracchia CG, Tedesco F, Bellini Puglielli R, Lucarelli F, Lauriola A, Assfalg M, Cantini F, Calderone V, Guardavaccaro D, Trabocchi A, D'Onofrio M, Ciofi-Baffoni S. Development of a GC-376 based peptidomimetic PROTAC as a Degradator of 3-Chymotrypsin-like Protease of SARS-CoV-2.
ACS Med Chem Lett. 2024 Jan 10;15(2):250-257.
- Lospinoso Severini L, Loricchio E, Navacci S, Basili I, Alfonsi R, Bernardi F, Moretti M, Conenna M, Cucinotta A, Coni S, Petroni M, De Smaele E, Giannini G, Maroder M, Canettieri G, Mastronuzzi A, Guardavaccaro D, Ayrault O, Infante P, Bufalieri F, and Di Marcotullio L. SALL4 is a CRL3^{REN/KCTD11} substrate that drives Sonic Hedgehog-dependent medulloblastoma.
Cell Death Differ, 2024 Feb;31(2):170-187.
- Juliana Haydeé Enriqu  Steinberg, Matteo Santucci, Fabiana Alejandra Rossi, Roberto Magliozzi, Laurensia Yuniati, Mario Rossi, Daniele Guardavaccaro*, and Angela Lauriola*. SCF^{BTCP}-mediated degradation of SHARP1 in triple-negative breast cancer.
Cell Death Dis. 2023 Nov 8;14(11):726.

- Felipe J. Renna, Juliana H. Enriqu  Steinberg, Claudio D. Gonzalez, Maria Manifava, Mariana S. Tadic, Tamara Orquera, Carolina V. Vecino, Alejandro Ropolo, Daniele Guardavaccaro, Mario Rossi, Nicholas T. Ktistakis, Maria I. Vaccaro. Ubiquitination is a novel post-translational modification of VMP1 in autophagy of human tumor cells. **Int J Mol Sci.** 2023 Aug 19;24(16):12981.
- Expression of FBXW11 in normal and disease-associated osteogenic cells. Dalle Carbonare L, Gomez Lira M, Minoia A, Bertacco J, Orsi S, Lauriola A, Li Vigni V, Gandini A, Antoniazzi F, Zipeto D, Mottes M, Bhandary I, Guardavaccaro D, Valenti MT. **J Cell Mol Med.** 2023 Jun;27(11):1580-1591.
- Palmitoylation and PDE6  regulate membrane-compartment-specific substrate ubiquitylation and degradation. Liang D, Jiang L, Bhat SA, Missiroli S, Perrone M, Lauriola A, Adhikari R, Gudur A, Vasi Z, Ahearn I, Guardavaccaro D, Giorgi C, Philips M, Kuchay S. Palmitoylation and PDE6  regulate membrane-compartment-specific substrate ubiquitylation and degradation. **Cell Reports.** 2023 Jan 18;42(1):111999.
- Lovison D, Alessi D, Allegri L, Baldan F, Ballico M, Damante G, Galasso M, Guardavaccaro D, Ruggieri S, Melchior A, Veclani D, Nardon C, Baratta W. Enantioselective Cytotoxicity of Chiral Diphosphine Ruthenium(II) Complexes Against Cancer Cells. **Chemistry.** 2022 Jun 10;28(33):e202200200.
- Ishihara S, Sato T, Du G, Guardavaccaro D, Nakajima A, Sawai S, Kataoka T, Katagiri K. Phosphatidic acid-dependent localization and basal de-phosphorylation of RA-GEFs regulate lymphocyte trafficking. **BMC Biol.** 2020 Jun 29;18(1):75.
- Yuniati L*, Lauriola A*, Gerritsen M, Abreu S, Ni E, Tesoriero C, Onireti JO, Low TY, Heck AJ, Vettori A, Cardozo T, and Guardavaccaro D. Ubiquitylation of the ER-shaping protein Lunapark via the CRL3^{KLHL12} ubiquitin ligase complex. *Equal contribution. **Cell Reports.** 2020 May 19;31(7):107664.
- Lauriola A, Martello A, Fantini S, Marverti G, Zanolco-Marani T, Davalli P, Guardavaccaro D, Mai S, Caporali A, and D'Arca D. Depletion of Trichoplein (TpMs) Causes Chromosome Mis-segregation, DNA Damage and Chromosome Instability in Cancer Cells. **Cancers** 2020 Apr 17;12(4):E993.
- Spiombi E, Angrisani A, Fonte S, De Feudis G, Fabretti F, Cucchi D, Izzo M, Infante P, Miele E, Po A, Di Magno L, Magliozzi R, Guardavaccaro D, Maroder M, Canettieri G, Giannini G, Ferretti E, Gulino A, Di Marcotullio L, Moretti M, De Smaele E. KCTD15 inhibits the Hedgehog pathway in Medulloblastoma cells by increasing protein levels of the oncosuppressor KCASH2. **Oncogenesis** 2019 Nov 4;8(11):64.
- Yuan R, Liu Q, Segeren HA, Yuniati L, Guardavaccaro D, Lebbink RJ, Westendorp B, de Bruin A. Cyclin F-dependent degradation of E2F7 is critical for DNA repair and G2-phase progression. **EMBO J** 2019 Sep 2:e101430
- Bufalieri F, Infante P, Bernardi F, Caimano M, Romania P, Moretti M, Lospinoso Severini L, Talbot J, Melaiu O, Tanori M, Di Magno L, Bellavia D, Puget S, De Smaele E, Canettieri G, Guardavaccaro D, Busino L, Peschiaroli A, Pazzaglia S, Giannini G, Melino G, Locatelli F, Gulino A, Ayrault O, Fruci D, Capalbo C, and Di Marcotullio L. ERAP1 promotes Hedgehog-dependent tumorigenesis by controlling USP47-mediated degradation of  TrCP. **Nature Commun** 10(1):3304, 2019
- Mavrommati, I., Faedda, R., Galasso, G., Li, J., Burdova, K., Fisher, R., Kessler, B.M., Carrero, Z.I., Guardavaccaro, D., Pagano M., D'Angiolella V.  TrCP and Casein Kinase II  mediated degradation of cyclin F controls timely mitotic progression. **Cell Reports** 24(13):3404-3412, 2018
- Magliozzi, R.*, Carrero, Z.I.*, Low, T.Y., Yuniati, L., Valdes-Quezada, C., Kruiswijk, F., van Wijk, K., Heck, A.J., Jackson, C.L., Guardavaccaro, D. Inheritance of Golgi apparatus and cytokinesis are controlled by degradation of GBF1. **Cell Reports** 23(11):3381-3391, 2018. *Equal contribution.
- Infante, P., Faedda, R., Bernardi, F., Bufalieri, F., Severini, L.L., Alfonsi, R., Mazz , D., Siler, M., Coni, S., Po, A., Petroni, M., Ferretti, E., Mori, M., De Smaele, E., Canettieri, G., Capalbo, C., Maroder, M., Screpanti, I., Kool, M., Pfister, S., Guardavaccaro, D., Gulino, A., Di Marcotullio, L. Itch/ arrestin2-dependent non-proteolytic ubiquitylation of SuFu controls Hedgehog signaling and medulloblastoma tumorigenesis. **Nature Commun** 9(1):976, 2018.

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Cell Death Differ 24(7):1140-1141, 2017.
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Science Signaling 7(356):rs8, 2014.
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Mol Cell Biol. 34(22):4177-85, 2014.
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J Biol Chem. 289(40):27400-9, 2014.
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J Biol Chem 289(11):7730-7, 2014.
- Magliozzi, R., Low, T.W., Weijts, B.G.M.W., Cheng, T., Spanjaard, E., Mohammed, S., van Veen, A., Ovaa, H., de Rooij, J., Zwartkruis, F.J.T., Bos, J.L., de Bruin, A., Heck, A.J.R., Guardavaccaro, D. Control of epithelial cell migration and invasion by the IKKβ- and CK1α-mediated degradation of RAPGEF2.
Dev Cell 27(5):574-85, 2013.
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PLoS Pathogens 9(5), May 2013.
- Low, T.Y., Magliozzi, R., Guardavaccaro, D., Heck, A.J.R. Unraveling the ubiquitin-regulated signaling networks by mass spectrometry-based proteomics
Proteomics 13(3-4):526-3,7 2013.
- Kruiswijk, F., Yuniati, L., Magliozzi, R., Low, T.W., Lim, R., Bolder, R., Mohammed, S., Proud, C.G., Heck, A.J.R., Pagano, M., Guardavaccaro, D. Coupled activation-degradation of eEF2K regulates protein synthesis in response to genotoxic stress.
Science Signaling 5(227):ra40, 2012.
Comment in: **Science Signaling** 5(227):pe25, 2012
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Science Signaling 5(219):pe155, 2012.
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Nature 476(7360):293-7, 2011.
Comment in: **Nature** 476(7360), 2011.
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PLoS One 5(11):e14023, 2010.
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J Cell Biol 181(3), 485-496, 2008.
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Nature 452(7185) 365-70, 2008.
Comment in: **Cancer Cell**. 13(5):381-3, 2008
Comment in: **Nature Reviews Cancer**. 8(5):327, 2008.
- Frescas, D., Guardavaccaro, D., Bassermann, F., Koyama-Nasu, R., Pagano, M. JHDM1B/FBXL10 is a nucleolar protein that represses transcription of ribosomal RNA genes.
Nature 450(7167) 309-13, 2007.
- Amador, V., Ge, S., Santamaria, P.G., Guardavaccaro, D., Pagano, M. APC/C^{Cdc20} controls the ubiquitin-mediated degradation of p21 in prometaphase
Mol Cell 27(3):462-73, 2007.
- Fielenbach, N., Guardavaccaro, D., Neubert, K., Chan, T., Li, D., Feng, Q., Hutter, H., Pagano M., Antebi A. DRE-1, an evolutionarily conserved F-box protein that regulates *C. elegans* developmental age.
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- Dorrello, N.V., Peschiaroli, A., Guardavaccaro, D., Colburn, N.H., Sherman, N.E., Pagano, M. S6K1- and β TRCP-mediated degradation of PDCD4 promotes protein translation and cell growth.
Science 314(5798):467-71, 2006.
Comment in: **Science** 314(5798):428-9, 2006
- Peschiaroli, A., Dorrello, N.V., Guardavaccaro, D., Venere, M., Halazonetis, T., Sherman, N.E., Pagano, M. SCF ^{β TrCP}-mediated degradation of Claspin regulates recovery from the DNA replication checkpoint response.
Mol Cell 23(3):319-29, 2006.
Comment in: **Curr Biol** 16(21):R932-4, 2006.
- Lasorella, A., Stegmüller, J. Guardavaccaro, D., Liu, G., Carro, M.S., Rothschild, G., de la Torre-Ubieta, L., Pagano, M., Bonni, A., Iavarone, A. Degradation of Id2 by the Anaphase Promoting Complex couples control of cell cycle exit and axonal growth.
Nature 442(7101):471-4, 2006.
Comment in: **Nature** 442(7101):365-6, 2006
- Ji, P., Goldin, L., Ren, H., Sun, D., Guardavaccaro, D., Pagano, M., Zhu, L. Skp2 contains a novel cyclin A binding domain that directly protects cyclin A from inhibition by p27.
J Biol Chem 281(33):24058-69, 2006.
- Guardavaccaro, D., Pagano M. Stabilizers and destabilizers controlling cell cycle oscillators.
Mol Cell 22(1):1-4, 2006.
- Kudo, Y.*, Guardavaccaro, D.*, Gonzalez Santamaria, P., Koyama-Nasu, R., Latres, E. Bronson, R. Yamasaki, L. Pagano M. Role of F-box protein β TrCP1 in mammary gland development and tumorigenesis.
Mol Cell Biol 24(18):8184-8194, 2004. *Equal contribution.
- Guardavaccaro, D., Pagano, M. Oncogenic aberrations of cullin-dependent ubiquitin ligases.
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Nature 428(6979):190-3, 2004.
Comment in: **Nature Reviews Molecular Cell Biology** 5, 339 2004
- Busino, L., Donzelli, M., Chiesa, M., Guardavaccaro, D., Ganoth, D., Dorrello, N.V., Hershko, A., Pagano M., Draetta G. Degradation of Cdc25 by β TrCP during S phase and in response to DNA damage.
Nature 426(6962):87-9, 2003.
- Guardavaccaro, D., Kudo, Y. Boulaire, J., Barchi, M., Busino, L., Donzelli, M., Yamasaki, L., Pagano, M. Control of meiotic and mitotic progression by the F-box protein β TrCP1 in vivo.
Dev Cell 4: 799–812, 2003.
Comment in: **Mol Cell** 11(6):1420-1, 2003.
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Neuroreport 13(4):417-22, 2002.
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Mol Cell Biol 20: 1797-815, 2000.
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Curr Biol 9: 1177-1179, 1999.
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Cell Growth Differ 7: 1327-1336, 1996.
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Cell Growth Differ 6: 159-169, 1995.
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J Neurosci Res 37: 660-674, 1994.

BOOK CHAPTERS

- T. Bashir, D. Guardavaccaro, N. V. Dorrello, V. Amador, and M. Pagano.
Reciprocal control of the G1/S ubiquitin ligase SCF and the mitotic ubiquitin ligase APC/C: A role for Skp2 and β TrCP in cancer. In: AACR Education Book 1: 1315-1316, 2004.

INVITED SEMINARS - partial list

- Institute of Molecular Biology and Pathology (IBPM), National Research Council (CNR)
Rome, 12 May 2023
- The NYU Ubiquitin System Workshop
New York, July 30th-31st 2022
- The NL-Ubiquitin 2018 Meeting
Utrecht, 24 October 2018
- Erasmus Medical Center - 6th annual SURE Symposium “The Infinite Puzzle”
Rotterdam, 1 June 2018
- Symposium of the Argentinean Societies for Research on Biosciences (SAIB)
Buenos Aires, November 13-17, 2017
- Institut Jacques Monod - Université Paris Diderot
Paris, 30 June 2017
- University of Verona, Department of Biotechnology

Verona, 22 June 2017

- Ludwig Institute for Cancer Research, University of Oxford, Nuffield Department of Clinical Medicine
Oxford, 10 May 2017
- University of Manchester, Division of Molecular and Cellular Function
Manchester, 7 March 2017
- Max-Planck Institute of Molecular Physiology, Department of Mechanistic Cell Biology
Dortmund, 29 April 2015
- Institute of Translational Medicine, University of Liverpool, Department of Cellular and Molecular Physiology
Liverpool, 24 March 2015
- NPC Progress Meeting - "Proteomics in a European Context"
Utrecht, 26-27 January 2015
- Karolinska Institutet, CMB/LICR Seminars
Stockholm, 4 December 2014
- Benzon Symposium - Nuclear Regulation By Ubiquitin
Copenhagen, 18-21 August 2014
- SUMO, Ubiquitin, UBL Proteins: Implications for Human Diseases
MD Anderson Cancer Center and Shanghai Jiao Tong University School of Medicine
Shanghai, 10-13 May 2014
- sbv IMPROVER Jamboree 2014, Philip Morris International's R&D and IBM's T.J. Watson Research Center
Montreux, Switzerland, 18-20 March 2014
- University of Rome "Tor Vergata", Department of Biomedicine and Prevention
Rome, 21 February 2014
- University of Rome "La Sapienza", Department of Molecular Medicine
Rome, 18 February 2014
- Leiden University Medical Center (LUMC), Department of Molecular Cell Biology
Leiden, 4 December 2013
- Karolinska Institute, CCK Research Seminar/Department of Oncology-Pathology
Stockholm, 14 October 2011
- Gordon Conference, Cell Growth and Proliferation - Connecting Cell Cycle Regulation to Cancer Biology
Biddeford, ME, 26 June - 1 July 2011
- The 7th Salk Institute Cell Cycle Meeting, The Salk Institute
San Diego, CA, 17 June - 21 June 2011
- The Netherlands Cancer Institute NKI-AVL
Amsterdam, 12 June 2009
- Nobel Forum, Karolinska Institutet - New Frontiers in Cancer Research and Therapy
Stockholm, 5-6 March 2009
- Brown University School of Medicine
Providence, RI, 22 April 2008
- Ludwig Institute for Cancer Research
Stockholm, 4 April 2008
- Laboratory of Cancer Biology & Genetics, National Cancer Institute, CCR, NIH
Bethesda, MD, 20 March 2008
- Imperial College London, Dept. of Immunology.
London, 15 February 2008
- The New York Academy of Sciences - Genome Integrity
New York, 29 October 2007
- Cell Signaling Fourth Annual Symposium, Interplay between Phosphorylation and Ubiquitination in Cell Signaling
Dundee, 30 August - 2 September, 2007
- Cold Spring Harbor Laboratory Meeting - The Ubiquitin Family
Cold Spring Harbor, NY, 23-27 April 2003
- Strategic Research Institute, Targeting Ubiquitylation for Drug Discovery
San Diego, CA, 24-25 June 2002

OTHER CONFERENCES - partial list

- EMBO2024 Ubiquitin and Ubl Proteins in Health and Disease, Cavtat, 27 September – 01 October 2024
- Keystone Symposia - The Human Proteome, Stockholm, April 24-29, 2015
- 13th Human Proteome Organization World Congress (HUPO), Madrid 5-8 October 2014
- Prime XS Meeting, Avila, 10th October 2014
- CGC/CBG meeting 'Molecular Mechanisms in Cancer'. Nov 15-16 2012, Koninklijk Instituut voor de Tropen Amsterdam.
- Cold Spring Harbor Laboratory Meeting - The Ubiquitin Family, Cold Spring Harbor, NY, 17-21 May 2011
- Keystone Symposia - The Evolution of Protein Phosphorylation, Keystone, CO, 23-28 2011
- NIH National Graduate Student Research Festival, Bethesda, MD, 11-12 October 2007
- Gordon Research Conference - Cell Growth and Proliferation. Biddeford, ME, 24 June 2007
- Cold Spring Harbor Laboratory Meeting - The Cell Cycle. Cold Spring Harbor, NY, 17-21 May 2006
- Cold Spring Harbor Laboratory Meeting - The Cell Cycle. Cold Spring Harbor, NY, 19-23 May 2004
- The 95th Annual Meeting of American Association for Cancer Research, Orlando, FL, 27-31 March 2004.
- The Second International Conference: Ubiquitin, Ubiquitin-Like Proteins and Cancer. M.D. Anderson Cancer Center Houston, TX, 5-7 February 2004
- Keystone Symposia - Cell Cycle and Development. Snowbird, UT, 6-11 January, 2004
- Cold Spring Harbor Laboratory Meeting - The Ubiquitin Family. Cold Spring Harbor, NY, 23-27 April 2003
- The 12th EuroConference on Cell Cycle Control in Normal and Malignant Cells, Mayrhofen/Zillertal, Lake Louise, Alberta, 10 - 14 February 2001
- Cold Spring Harbor Laboratory meeting - The Cell Cycle - Cold Spring Harbor, NY, May 2000.
- Gordon Research Conference on Cancer - The Central Pathways of Tumorigenesis: RB and p53. Newport, RI, August 1999.
- Cold Spring Harbor Laboratory meeting - Biology of Proteolysis, Cold Spring Harbor, NY, May 1999.
- The 11th European Cell Cycle Conference, Gardone Riviera, 23-26 April 1997
- Third International Conference on Nerve Growth Factor (NGF) and related molecules. Chateau Lake Louise, Lake Louise, Alberta, Canada, April 26 - May 1, 1994.
- The 23rd Annual meeting, Society for Neuroscience. Washington, DC, 7-12 November 1993.

FUNDING

- Italian Ministry of Foreign Affairs and International Cooperation and Swedish Research Council
Exploiting the Ubiquitin System to Target the "Undruggable" Cancer Proteome
1/1/2024 - 31/12/2026
- Italian Ministry of University and Research - PRIN-PNRR
Exploring the molecular mechanisms underlying the homeostasis of the intestinal epithelium
30/11/2023 - 30/11/2025
- Italian Ministry of University and Research - PRIN 2022
Decipher how ubiquitylation shapes membrane and membraneless organelles to promote neuronal homeostasis
28/9/2023 - 28/9/2025
- Telethon Foundation. Molecular mechanisms underlying Joubert syndrome
2023-2025
- Banca Intesa San Paolo Foundation. Innovative strategy to block coronavirus infections by specific degradation of viral proteins
2022-2023
- Cariverona Foundation – Call “Ricerca Scientifica di Eccellenza”. Role of the Ubiquitin System in Adult Stem Cells
2020-2023
- Dutch Cancer Society (KWF). REST degradation and cancer.
2015-2019
- EU-IRG Marie Curie FP7. Aberrant ubiquitin-mediated proteolysis in oncogenesis.
2010-2014
- Dutch Cancer Society (KWF). Aberrant ubiquitin-mediated proteolysis in cancer development.
2009-2013
- Cancer Genomics Center (CGC) - Ubiquitin ligases and cancer.

2009-2013

- Medical Research Council (MRC) - Career Development Award. Oncogenic aberrations of SCF ubiquitin ligases.

2008-2013

- Emerald Foundation. Role of Skp2 and Cks1 in human non-small cell lung cancer.

2005-2008

EDUCATIONAL ACTIVITIES

- University of Verona, Master's degree in Molecular and Medical Biotechnology
Teaching: Cell Signaling in Health and Disease
Verona, 2020-present, yearly.
- University of Verona, Bachelor's degree in Biotechnology
Teaching: Molecular Biology
Verona, 2019-present, yearly.
- Leiden University Medical Center
Graduate Program Course: "From Molecular Pathogenesis to Targeted Therapy"
Leiden, November 1-4, 2016
- Utrecht University
Graduate Program Course: "Cancer Stem cells and Developmental Biology"
Utrecht, 31 August 2015
- Leiden University Medical Center and Erasmus Medical Center
Graduate Program Course: "From Molecular Pathogenesis to Targeted Therapy"
Leiden, October 27-31, 2014
- Utrecht University
Graduate Program Course: "Cancer Stem cells and Developmental Biology"
Utrecht, 8-10 September 2014
- Utrecht University
Graduate Program Course: "Cancer Genetics and Developmental Biology"
Utrecht, 3 September 2012
- University of Modena and Reggio Emilia
Graduate Program Course: "Clinical and Experimental Medicine"
Modena, 2-15 April 2012
- Karolinska Institutet/EU-Rubicon
Graduate and Postgraduate Course: "The Ubiquitin-Proteasome System in Health and Disease"
Stockholm, 17-28 August 2009
- New York University School of Medicine
Vilcek Institute of Graduate Biomedical Sciences
New York, yearly, from 2005 to 2008

Ph.D. AND M.S. THESIS COMMITTEES

- Examination Board - Ph.D. thesis, Andra Brummer. From oncogenic replication stress to drug resistance: f-box proteins as signaling hubs in cancer.
Karolinska Institute, Stockholm, 19 February 2021
- Member of Assessment Committee - Ph.D. thesis, Susana Abreu. New insights into autophagy regulation using yeast *Saccharomyces cerevisiae*.
University of Groningen, 10 December 2018
- Supervisor/Examiner - M.S. thesis, Mar Burgaya. Dysregulation of CRL-mediated ubiquitylation in metastasis.
Master's Programme: Cancer, Stem Cells and Developmental Biology
Utrecht University, Utrecht, August 2018
- Supervisor/Examiner - M.S. thesis, Gianmarco Puma. Roles of K11/K48-linked polyubiquitylation in neurodegenerative diseases. Master's Programme: Cancer, Stem Cells and Developmental Biology
University of Utrecht, 5 June 2018
- Supervisor/Examiner - M.S. thesis, Michele Nicastro. CULLIN3-RING Ubiquitin Ligases: an overview. Master's Programme: Cancer, Stem Cells and Developmental Biology
Utrecht University, Utrecht, 25 August 2017

- Member of Assessment Committee - Ph.D. thesis, Yuan Ruixue. Walking the fine line of atypical E2F regulation during cell division. Utrecht University, Utrecht, 3 July 2018
- Examiner - Ph.D. thesis - Matthew Concannon - Exploring roles and interplay of REST and USP15 in cancer. University of Liverpool, 21 September 2017
- Committee member - Ph.D. thesis - Daisy Klein Douwel. Making the cut - How XPF-ERCC1 unhook DNA interstrand crosslinks. CS&D - Utrecht University, 19 January 2017
- External supervisor - M.S. thesis, Anna Russo, HECT ubiquitin ligases as players in the programmed cell death fields. Master's Programme: Cancer, Stem Cells and Developmental Biology. University of Utrecht, 12 October 2015
- Examiner - M.S. thesis, Clara Kammüller. Interaction Partners of the Deubiquitylating Enzyme Ataxin-3 in Macroautophagy. Utrecht University, Master's Programme: Cancer, Stem Cells and Developmental Biology. University of Utrecht, 29 September 2015
- Committee member - Ph.D. thesis, Michiel Boekhout. APC/C activity during the cell cycle. Netherlands Cancer Institute/University of Utrecht, 14 September 2015
- Supervisor - Ph.D. thesis - CS&D, Jihoon Kim. F-box proteins, cell cycle and cancer. University of Utrecht, 13 January 2015
- Faculty opponent - Ph.D. thesis, Hwee-Fang Ng. Characterization of F-box proteins and their target substrates in cancer. Karolinska Institute, Stockholm, 3 December 2014
- Committee member - Ph.D. thesis - CS&D, Margarita Zacharogianni, Cell biology of stress: cytoplasmic rearrangements and signaling events. University of Utrecht, 20 November 2014
- Supervisor - Ph.D. thesis - CS&D, Sara D'Annibale. Mechanisms of crosstalk between phosphorylation and ubiquitylation in the regulation of cell proliferation. University of Utrecht, 18 November 2014
- Committee member - Ph.D. thesis - CS&D, Wytse Bruinsma. Controlling kinase activity during the cell cycle: from the DNA damage response to mitosis. University of Utrecht, 18 June 2014
- External supervisor - M.S. thesis, Anne van Krieken, Role of CRL3 complexes in cancer. Master Oncology, VU University. Amsterdam 31 January 2014
- Supervisor - Ph.D. thesis - CS&D, Roberto Magliozzi. The challenge of identifying substrates of SCF ubiquitin ligases. University of Utrecht, 21 January 2014
- Committee member - Ph.D. thesis - CS&D, Reinoud de Groot. Mechanisms of Wntless trafficking and Wnt signaling. University of Utrecht, 13 January 2014
- Supervisor - Ph.D. thesis - CS&D, Flore Kruiswijk. Discovering new sides of the E3 ligase by studying its substrates. University of Utrecht, 17 September 2013
- Faculty opponent - Ph.D. thesis, Diana Cepeda. F-box proteins as regulators of oncogenic pathways by ubiquitylation. Karolinska Institute. Stockholm, 13 October 2011
- Supervisor - Ph.D. thesis, Maria Augusta Sartori da Silva. Action and function of ASB proteins in compartment size regulation. Erasmus University. Rotterdam, 25 May 2011
- External supervisor - M.S. thesis, Eelco Tromer. F-box proteins In non-cullin complexes. University of Utrecht, 26 September 2011
- External supervisor - M.S. thesis, Inger Brandsma, DNA Resection Or Non-Homologous End Joining Upon DNA Double Strand Breaks. Utrecht University, Master's Programme: Molecular And Cellular Life Science. University of Utrecht, 16 December 2010
- Outside Reader - Ph.D. thesis, William Tsiaras. Genetic and biochemical analysis of the Grb10-interacting protein-2 (GIGYF2): A link between the Insulin and Insulin-like Growth Factor systems and Parkinson's Disease. Brown University School of Medicine. Providence, RI, 21 April 2008

TRAINEES

Undergraduate Students

2009	Zhen Ping
2010	Renske Bolder
2010	Laurensia Yuniati
2010-2011	Monir Bertayli
2011-2012	Ragna de Jonge
2011-2012	Tianhong Cheng

2012	Koen van Wijk
2012-2013	Sharif Rehmy
2012-2013	Petra Jansen
2012-2013	Minglu Dai
2013	Trang Huong Phan
2015-2016	Ana Krotenberg Garcia
2015-2016	Alejandro Hortal Borowski
2016-2017	Manouk Gerritsen
2017-2018	Manouk Gerritsen
2020	Emma Cadoria
2020	Mirco Marogna
2020	Samuele Fisicaro
2020	Giulia Citterio
2020	Anna Baietta
2020	Rossella Franchini
2021	Francesca Taddei
2021	Samanta Comincioli
2021	Giovanni Giglio
2021	Anna Pianazzola
2022	Richard Pozzetto Huot
2022	Francesco Ghirotto
2023	Benedetta Avesani
2023	Pietro Scandola
2023	Lorenzo Giovannozzi
2024	Andrea Sperotto
2024	Phan Thi Thao Nguyen
2024	Gabriele Avi

Graduate Students

2008-2013	Flore Kruiswijk
2009-2011	Maria Augusta Sartori da Silva
2009-2014	Roberto Magliozzi
2010	Paola Infante
2010-2014	Jihoon Kim
2010-2014	Sara D'Annibale
2009-2010	Rezaul Karim
2019-present	Jacob Onireti
2019-present	Mohsen Hajisadeghian
2024-present	Giulia Citterio

Postdoctoral Fellows

2014-2017	Roberto Magliozzi
2015-2018	Laurensia Yuniati
2016-2018	Zunamys Carrero
2020-2023	Matteo Santucci
2019-2024	Angela Lauriola
2020-present	Juliana Haydee Enrique Steinberg

Technicians

2008-2012	Ratna Lim
2016-2017	Susana Abreu
2015-2018	Ilona den Hartog

EDITORIAL RESPONSIBILITIES

Editorial Board member: *Cell Death and Disease*, *Cell Death and Differentiation*.

Ad Hoc Reviewer: *EMBO Journal*, *Proceedings of the National Academy of Sciences*, *Nature Communications*, *Molecular and Cellular Biology*, *Molecular Biology of the Cell*, *Science Signaling*, *Cell Reports*, *Oncogene*, *Biochimica et Biophysica Acta*, *Nucleic Acids Research*, *Cancer Research*, *Cell Death and Differentiation*, *PLoS Biology*, *International Journal of Cancer*, *Cell Research*, *Scientific Reports*.

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

Member of the New York Academy of Science (2007 – 2008)

OTHER ACTIVITIES

Reviewer for funding agencies:

MRC (Medical Research Council, UK), BBSRC (Biotechnology and Biological Sciences Research Council, UK), KWF (Dutch Cancer Society, NL), NWO (The Netherlands Organization for Scientific Research, NL), FCC (Foundation against Cancer, BE), NWCR (North West Cancer Research, UK).

SUMMARY OF RESEARCH ACTIVITY

Our laboratory, which is part of the Department of Biotechnology at the University of Verona, studies how eukaryotic cells receive, process, and transmit signals from the extracellular environment and how the integration of multiple signals results in a specific biological output. In the cell, such signaling networks are spatiotemporally controlled by post-translational modifications. We are particularly interested in the role of ubiquitylation, a versatile post-translational modification that controls all crucial biological processes either by targeting proteins for proteasomal degradation or by triggering a multitude of regulatory signaling events. To that end, we utilize a variety of biochemical, molecular, and cell biological approaches, including proteomics, live imaging, and organoid technology, along with genetic tools such as CRISPR genome editing and RNA interference.

REFERENCES

Michele Pagano

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