

ALLEGATO A

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, commi 1 e 4, della Legge n. 240/2010 per il settore concorsuale 05/E2 - Biologia Molecolare,
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Paolo Armando Gagliardi **CURRICULUM VITAE**

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	GAGLIARDI
NOME	PAOLO ARMANDO
DATA DI NASCITA	01-07-1983

EDUCATION

2008.01-2012.01	PhD in Molecular Medicine, Faculty of Medicine and Surgery, University of Turin, Italy. Thesis entitled: "3-Phosphoinositide-Dependent Kinase 1 controls breast tumor growth in kinase dependent but Akt-independent manner".
2005.10-2007.10	Master degree in Biomolecular Sciences, Faculty of Mathematical, Physical and Natural sciences, University of Turin, Italy. Final Grade: 110/110 summa cum laude.
2002.10-2005.09	Bachelor degree in Biological Sciences, Faculty of Mathematical, Physical and Natural sciences, University of Turin, Italy. Final Grade: 110/110 summa cum laude.

RESEARCH EXPERIENCE & POSITIONS

2017.05-Present	Post-doc position in Cellular Dynamics laboratory (PI Prof. Olivier Pertz), Institute of cell biology, University of Bern, Switzerland.
2012.02-2017.04	Post-doc position in the Group of Cell Migration (PI Prof. Luca Primo), Candiolo Cancer Institute, Turin, Italy.
2008.01-2012.01	PhD student in Molecular Medicine in the Laboratory of Molecular Angiogenesis, Cell migration Group (PI Prof. Luca Primo), Candiolo Cancer Institute, Turin, Italy.
2006.03-2007.10	Undergraduate training in molecular cell biology, Laboratory of Molecular Angiogenesis (PI Prof. Federico Bussolino), Candiolo Cancer Institute, Turin, Italy.
2005.05-2005.09	Undergraduate training in molecular cell biology and biochemistry, Department of Experimental Medicine and Oncology, Turin, Italy, supervision by Prof. Sandro Paolo Solinas.

PROFESSIONAL QUALIFICATIONS

2020.01-2029.01	Italian qualification for Associate Professorship in Molecular Biology (05/E2) from the Italian Ministry of Education, University and Research (MIUR), Abilitazione Scientifica Nazionale (ASN)
2018.09-2024.09	Italian qualification for Associate Professorship in Applied Biology (05/F1) and General Biochemistry (05/E1) from the Italian Ministry of Education, University and Research (MIUR), Abilitazione Scientifica Nazionale (ASN)
2015	Italian qualification in Professional Biology, University of Pavia, Italy

GRANTS & FELLOWSHIPS

2020-2022	Swiss cancer research grant, co-applicant (PI Olivier Pertz) (375'000 Fr)
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2014-2016	Italian Association for Cancer Research (AIRC) fellowship (75'000 €).
2012-2013	University of Turin fellowship "Assegno di Ricerca" (40'000 €).
2011-2013	"Alta Formazione" travel fellowships for 6 international conferences (15'000 €).

AWARDS

2016	"Giovedì Scienza" award for scientific communication, 4th position, Turin, Italy.
2015	Worldwide Cancer Research fellowship for participation in the Beatson Conference, Glasgow, UK (1'000 €).
2015	"Giovedì Scienza" award for scientific communication, 4th position, Turin, Italy.
2015	American Association for Cancer Research (AACR) – Italian Society of Cancerology (SIC) Scholar-in-Training Award for participation in the AACR annual meeting, Philadelphia, USA (2'500 €).
2013	Scholarship for participation in the European Cytoskeletal Forum (ECF) annual meeting, Fribourg, Switzerland (500 €).
2013	Scholarship for participation in the Federation of European Biochemical Societies (FEBS) meeting, Saint Petersburg, Russia (1'000 €).

MANUSCRIPTS

Ender P, **Gagliardi PA**, Dobrzynski M, Jacques MA, Dessauges C, Hohener T, Cohen A and Pertz O. *Spatio-temporal Control of ERK Pulse Frequency Regulates Epithelial Acinar Morphogenesis*. In preparation.

Jacques MA, Dobrzynski M, **Gagliardi PA**, Sznitman R and Pertz O. *Mining multidimensional single-cell dynamic signaling states using CNNs*. In preparation.

Gagliardi PA, Dobrzyński M, Jacques MA, Dessauges C, Hughes RM and Pertz O. *Collective ERK/Akt activity waves orchestrate epithelial homeostasis by driving apoptosis-induced survival*. [BioRxiv](#), 2020.

Lupo B, Sassi F, Pinnelli M, Galimi F, Zanella ER, Vurchio V, Migliardi G, **Gagliardi PA**, Puliafito A, Manganaro D, Luraghi P, Kragh M, Pedersen MW, Horak ID, Boccaccio C, Medico E, Primo L, Nichol D, Spiteri I, Heide T, Vatsiou A, Graham TA, Élez E, Argiles G, Nuciforo P, Sottoriva A, Dienstmann R, Pasini D, Grassi E, Isella C, Bertotti A, Trusolino L. *Colorectal cancer residual disease at maximal response to EGFR blockade displays a druggable Paneth cell-like phenotype*. [Science translational medicine](#). In press.

PUBLICATIONS

Somale D, Di Nardo G, di Blasio L, Puliafito A, Vara-Messler M, Chiaverina G, Palmiero M, Monica V, Gilardi G, Primo L, **Gagliardi PA**. *Activation of RSK by phosphomimetic substitution in the activation loop is prevented by structural constraints*. [Scientific reports](#), 2020.

Gagliardi PA, Primo L. *Death for life: a path from apoptotic signaling to tissue-scale effects of apoptotic epithelial extrusion*. [Cellular and molecular life sciences](#), 2019.

Gagliardi PA, Pertz O. *Developmental Erk Signaling Illuminated*. [Developmental cell](#), 2019.

Gagliardi PA, Primo L. *Irreversible activation of Rho-activated kinases resulted from evolution of proteolytic sites within disordered regions in coiled-coil domain*. [Molecular biology and evolution](#), 2019.

di Blasio L, Puliafito A, **Gagliardi PA**, Comunanza V, Somale D, Chiaverina G, Bussolino F, Primo L. *PI3K/mTOR inhibition promotes the regression of experimental vascular malformations driven by PIK3CA-activating mutations*. [Cell Death Dis](#), 2018.

Gagliardi PA, Somale D, Puliafito A, Chiaverina G, di Blasio L, Oneto M, Bianchini P, Bussolino F, Primo L. *MRCKα is activated by caspase cleavage to assemble an apical actin ring for epithelial cell extrusion*. [The Journal of Cell Biology](#), 2018.

Gagliardi PA, Puliafito A, Primo L. *PDK1: at the crossroad of cancer signaling pathways*. [Semin Cancer Biol](#), 2018.

Di Blasio L, **Gagliardi PA**, Puliafito A, Primo L. *Serine/Threonine Kinase 3-Phosphoinositide-Dependent Protein Kinase-1 (PDK1) as a Key Regulator of Cell Migration and Cancer Dissemination*. [Cancers](#), 2017.

Torchiaro E, Lorenzato A, Olivero M, Valdembrì D, **Gagliardi PA**, Gai M, Erriquez J, Serini G and Di Renzo MF. *Peritoneal and hematogenous metastases of ovarian cancer cells are both controlled by the p90RSK through a self-reinforcing cell autonomous mechanism*. [Oncotarget](#), 2016.

Puliafito A, De Simone A, Seano G, **Gagliardi PA**, di Blasio L, Chianale F, Gamba A, Primo L and Celani A. *Three-dimensional chemotaxis-driven aggregation of tumor cells*. [Scientific reports](#), 2015.

Gagliardi PA, di Blasio L and Primo L. *PDK1: a signalling hub for cell migration and tumor invasion*. [BBA review on cancer](#), 2015.

Gagliardi PA, Puliafito A, di Blasio L, Chianale F, Somale D, Seano G, Bussolino F and Primo L. *Real-time monitoring of cell protrusion dynamics by impedance responses*. [Scientific reports](#), 2015. Featured in: [BioTechniques](#)

di Blasio L, **Gagliardi PA**, Puliafito A, Sessa R, Seano G, Bussolino F and Primo L. *PK1 regulates focal adhesion disassembly through modulation of v3 integrin endocytosis*. Journal of Cell Science, 2015.

Seano G, Chiaverina G, **Gagliardi PA**, di Blasio L, Puliafito A, Bouvard C, Sessa R, Tarone G, Sorokin L, Helley D, Jain RK, Serini G, Bussolino F and Primo L. *Endothelial podosome rosettes regulate vascular branching in tumor angiogenesis*. Nature Cell Biology, 2014.

Gagliardi PA, di Blasio L, Puliafito A, Seano G, Sessa R, Chianale F, Leung T, Bussolino F, Primo L. *PK1-mediated activation of MRCK α regulates directional cell migration and lamellipodia retraction*. The Journal of Cell Biology, 2014.

Seano G, Chiaverina G, **Gagliardi PA**, di Blasio L, Sessa R, Bussolino F, Primo L. *Modeling human tumor angiogenesis in a three-dimensional culture system*. Blood, 2013.

Gagliardi PA, di Blasio L, Orso F, Seano G, Sessa R, Taverna D, Bussolino F, Primo L. *3-Phosphoinositide-Dependent Kinase 1 controls breast tumor growth in a kinase dependent but Akt-independent manner*. Neoplasia, 2012.

Sessa R, Seano G, di Blasio L, **Gagliardi PA**, Isella C, Medico E, Cotelli F, Bussolino F, Primo L. *The miR-126 regulates Angiopoietin-1 signalling and vessel maturation by targeting p85 β* . Biochem Biophys Acta, 2012.

Primo L, Seano G, Roca C, Maione F, **Gagliardi PA**, Sessa R, Martinelli M, Giraudo E, di Blasio L, Bussolino F. *Increased expression of α 6 integrin in endothelial cells unveils a proangiogenic role for basement membrane*. Cancer Research, 2010.

TEACHING ACTIVITIES

2018-present	Frontal teaching in the Dynamic of Cellular Contacts course to master's degree students in biology, University of Bern, Switzerland
2017-present	Teaching assistance in Cell biology to bachelor's degree students in biology, University of Bern, Switzerland
2010-2017	Teaching assistance in Biochemistry to bachelor's degree students in nursing, University of Turin, Italy.
2006-2007	Laboratory assistance to bachelor's degree students in biology, course of Biochemistry, University of Turin, Italy.
2006	Laboratory assistance to bachelor's degree students in biology, course of Cell Biology, University of Turin, Italy.

SUPERVISION ACTIVITY

2018-present	Tutor to one PhD candidate in Cellular and Biomedical Sciences, University of Bern
2018-2019	Tutor to two bachelor students in Biology, University of Bern
2014-2017	Tutor to one PhD candidate in Molecular medicine, University of Torino
2011-2013	Tutor to one master student in Cellular and Molecular Biology, University of Torino

PRESENTATIONS

Invited seminars

2020	Invited speaker at the online seminar series for Insights in Signaling Dynamics and Encoding (InSiDE 2020). (100 attendees)
2018	Invited speaker at "BeFri meeting", Bern, Switzerland. (50 attendees)
2018	Invited speaker at the "MIC research day", Bern, Switzerland. (100 attendees)
2014	Invited speaker at "Targeted Therapy of Cancer: where we are heading" workshop, Turin, Italy. (250 attendees)
2014	Invited speaker at "xCELLigence Workshop", Bologna, Italy. (70 attendees)

Selected seminars

2019	Selected speaker at LS2 Annual Meeting 2019 "Cell Biology from Tissue to Nucleus", Zurich, Switzerland. (250 attendees)
2018	Selected speaker at "EMBO Workshop: Cellular signalling and cancer therapy", Cavtat, Croatia. (400 attendees)
2015	Selected speaker at "Beatson international conference", Glasgow, UK. (400 attendees)
2014	Selected speaker for the "Italian Federation for Life Sciences conference", Pisa, Italy. (150 attendees)
2013	Selected oral presentation at the ECF meeting, Fribourg, Switzerland. (250 attendees)

Internal seminars

2018 Seminar at the Institute of Cell Biology, Bern, Switzerland. (60 attendees)
 2017 Seminar at the Institute of Cell Biology, Bern, Switzerland. (60 attendees)
 2016 Seminar at Candiolo Cancer Institute, Candiolo, Turin, Italy. (100 attendees)
 2014 Seminar at Candiolo Cancer Institute, Candiolo, Turin, Italy. (100 attendees)
 2013 Seminar at Candiolo Cancer Institute, Candiolo, Turin, Italy. (100 attendees)
 2012 Presentation of the PhD thesis at the Department of genetic, biology and biochemistry, Turin, Italy. (100 attendees)
 2011 Seminar at Candiolo Cancer Institute, Candiolo, Turin, Italy. (100 attendees)
 2010 Seminar at Candiolo Cancer Institute, Candiolo, Turin, Italy. (100 attendees)

Posters

2019 EMBO | EMBL Symposium: Seeing is Believing, Heidelberg, Germany
 2019 Conference of the European cell death organization, Dresden, Germany
 2018 LS2 meeting: Quantitative Network Biology, Kandersteg, Switzerland.
 2018 Wyss Center light-sheet microscopy workshop, Geneva, Switzerland.
 2018 CancerTo conference, Imaging of cancer dynamics, Turin, Italy.
 2016 ASCB annual meeting, San Francisco, USA.
 2015 AACR annual meeting, Philadelphia, USA.
 2013 AACR conference: Molecular targets and cancer therapeutics, Boston, USA.
 2013 FEBS congress: Mechanisms in biology, Saint Petersburg, Russia.
 2013 Keystone Symposium, PI3K and interplay with other pathways, Keystone, USA.
 2012 DGZ meeting: Actin dynamics, Regensburg, Germany.
 2012 CSH meeting: Mechanisms & Models of Cancer, Cold Spring Harbor, USA
 2012 EMBO conference: Cellular Signaling & Molecular Medicine, Cavtat, Croatia.
 2011 SIC meeting: Translating cancer research, Turin, Italy.
 2011 ISREC symposium: Hallmarks & horizons of cancer, Lausanne, Switzerland.
 2011 FEBS congress: Biochemistry for Tomorrow's Medicine, Turin, Italy.
 2010 Nature conference: Frontiers in tumor progression, Madrid, Spain.
 2008 SIC meeting: Towards novel anticancer therapeutic targets, Naples, Italy.

EDITORIAL ACTIVITIES

<https://publons.com/author/1322131/paolo-armando-gagliardi#profile>

Editor: Cancer Molecular Targets and Therapeutics (from 2018).
 Cellular Biochemistry (From 2020).

Reviewer: Frontiers in Oncology (20), Journal of Cellular Physiology (17), Cells (7), F1000 prime (4), Oncotargets and therapy (4), International journal of molecular sciences (4), Scientific reports (3), European journal of pharmacology (2), Journal of cell science (2), Applied sciences (1), Biomolecules (1), Cellular signalling (1), Frontiers in pharmacology (1), Journal of cellular biochemistry (1), Journal of clinical medicine (1) Journal of Personalized medicine (1), Medicina (1), Processes (1).

Reviewer in collaboration with Prof. Olivier Pertz: Current biology (1), Nature chemical biology (1), Nature cell biology (1), Molecular systems biology (2), eLife (1).

ADDITIONAL TRAINING

2018 Advanced Cell Classifier for the analysis of HCS data, Bern, Switzerland, December 11th.
 2018 Course on leadership: how to keep your team motivated, Bern, Switzerland, September 26th and 27th.
 2018 Light Sheet Microscopy for in vivo imaging, Bern, Switzerland, June 21st and 22nd.
 2017 Image analysis with KNIME, Bern, Switzerland, November 30th.
 2017 Interactive image classification, segmentation and analysis with ilastik, Bern, Switzerland, October 11th.
 2017 Basics of confocal microscopy, Bern, Switzerland, September 19th.

2017 Basics of deconvolution microscopy, Bern, Switzerland, September 13th.
2017 Writing your own ImageJ/Fiji Macros, Bern, Switzerland, July 11th.

Data

14-07-2020

Luogo

Bern (CH)