

CURRICULUM VITAE

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EDUCATION

1978-1981: Laurea degree in Biological Sciences, 110/110 summa cum laude at University Federico II, Naples. Thesis at IGB, CNR: "Restriction patterns of *V. carteri* DNA and identification of rDNA fragments".

RESEARCH POSITIONS IN FOREIGN INSTITUTIONS

01/08/1981-01/10/1981: Summer student at Lab of Biochemistry, National Cancer Institute, National Institute of Health, Bethesda, USA.

01/09/1984-20/12/1984: AIRC Fellow and Guest Researcher at Lab of Chemoprevention, National Cancer Institute, NIH, Bethesda, USA.

01/03/1985-30/05/1985: Guest Researcher, Lab of Cell Biology, National Cancer Institute, National Institute of Health, Bethesda, USA.

01/01/1986-30/06/1987: MIT Post-doctoral Fellow, Dept of Applied Biol Sciences, Massachusetts Institute of Technology (MIT), Cambridge, MA, USA.

RESEARCH POSITIONS IN ITALY

30/10/1981-30/11/1982: Lepetit-Dow Chemical Consultant at IIGB, Naples, Italy.

01/12/1982-29/12/1988: CNR Training Fellow at IIGB.

30/12/1988-21/1/1999: CNR Staff Researcher (Ricercatore) at IIGB.

22/1/1999-30/12/2001: CNR Research Associate (Primo Ricercatore), at IGB.

31/12/2001 - present: CNR Research Director (Dirigente di Ricerca), at IGB.

TEACHING ACTIVITIES IN ITALY

1/11/2004-03/2006: Professor of Human Genetics (BIO18/Human Genetics), at the Faculty of Biotechnology, Dept of Animal Production, University of Basilicata, Potenza.

16/06/2014-16/06/2023: Full Professor qualification in General and Clinical Biochemistry, Italian National Scientific Qualification, Abilitazione ASN I FASCIA, 05/E1.

2023-2024: Professor of Applied Biology, (BIO13 Applied Biology), Degree in Physiotherapy at UniCamillus-Saint Camillus International University of Health Sciences, Rome.

UNIVERSITY COMMITTEES

2003-2006: Committee Member of Doctorate in Molecular Imaging, Dept of Biomorphological and functional Sciences, Faculty of Medicine, Univ Federico II, Naples (XIX, XX Ciclo).

28/3/2008: Opponent for a PhD Thesis entitled: "Mechanisms in uPAR signalling and uPARAP in collagen remodelling", Candidate: Thore Hillig, Univ of Copenhagen, Denmark.

2/3/011: Committee member of SEMM (European School of Molecular Medicine) Doctorates, Univ of Milan, at IFOM, Milan, Italy.

12/2016: Examiner of the PhD Thesis: "Deciphering the role of SerpinB2 in cancer invasion and metastasis" by Nathaniel Lachlan Harris, School of Biological Sciences, Univ of Wollongong, Au.

CNR COMMITTEES

2010-2011: Committee member for assigning CNR Research Director positions (Call N.364.86 for Dirigente di Ricerca in Biological Sciences).

2016-2023: Member of the IGB Institute Scientific Council (CdI).

2019-2023: Member of the CNR Scientific Council (CSD), Dept of Biomedical Sciences.

SCIENTIFIC SOCIETIES

2015-present: Member of SIBBM (Italian Society for Biochemistry and Molecular Biology).

2017-present: Member of the International Society in Thrombosis and Haemostasis (ISTH)

2016-2022: Council Member of International Society for Fibrinolysis and Proteolysis (ISFP).

2022-2024: Chair of ISFP

SELECTED RESEARCH GRANTS

European networks

1988-1991: **European Union, European Concerted Action**: "Mechanisms of Cancer Invasion and metastasis" (**Responsible**; *Contract n. CHRX-CT94-0427 del 18/8/1988*). Partners: Univ' di Milano, Finsen Laboratory DK, Centre Medicale univ CMUG.DM, Universite' de Paris, val de Marne, TNO Netherlands.

1993-5: **European Union Network Human Capital and Mobility**: "Urokinase/urokinase receptor interaction: structural analysis, physiological and pathological functions and therapeutical applications (*contract n. CHRX-CT930-0427*).

1/1/2004-31/12/2007: **European Union Framework Programme FP6, Integrated Project**:

"Extracellular Proteases and the Cancer Degradome: Innovative Diagnostic Markers, Therapeutic Targets and Tumour Imaging Agents" (**Head of Unit n. 26**; *contract n.LSHC-CT-2003-503297*).

01/05/2009-30/9/2012: **European Science Foundation Eurocore Network**: "Membrane Architecture and Dynamics-Molecular Determinants of Sterol-Sphingolipid-Protein Interactions in Living Cells and Organisms" (**Head of Unit n.6**). Partners: S. Eaton, Max Planck Institute for Mol Cell Biology & Genetics Dresden. H.J. Knölker, Technical University Dresden. T. Kuzchalia, Max Planck Institute of Mol Cell Biology & Genetics, Dresden. H. Riezman, Dept of Biochemistry, Univ Geneva. D. Corda, IBP-CNR.

Recent National Grants

2015-7: CNR Projects INTEROMICS "Role of Fra-1 and uPAR pro-invasive factors in the control of breast cancer cell secretome and crosstalk with human fibroblasts".

2014-2015: PO FESR 2007-2013 Campania Region: "Network of Biotechnologies in the Campania region", Interventions in strategic scientific areas Biomedicals, Molecular Diagnostics.

2018-2019: PO FESR 2014-2020 Campania Region: "Development of innovative approaches to neoplastic therapies resistant to treatments or SATIN".

INTERNATIONAL MEETINGS

FEBS Workshops

8-11/10/2005 "Epigenetic bases of genome reprogramming" (*co-organiser*)

14-17/10/2007 "Generating Neural Diversity in the Brain" (*co-organiser*)

10-13/10/2010 "Therapeutic targets in Cancer Cell Metabolism and Death" (*co-organiser*)

14-17/10/2012 "Molecular and Cellular Mechanisms in Angiogenesis" (*co-organiser*)

EMBO Workshops

14-17/10/2006 "Cell Migration and Invasion in Development and Disease" (*co-organiser*)

18-21/10/2008 "The NF-kappaB Network in Development and disease" (*co-organiser*)

Other international Workshops

"Molecular and Cellular Biology of Plasminogen Activation" (*Scientific Committee Member, Abstract Reviewer, Program Chair, Speaker*)

IX Workshop, 19-23/10, Capri, Italy, 2003; X Workshop, Washington DC, USA, 9-13/4, 2005. XI Workshop, Sweden, 16-20/6, 2007; XII Workshop, Cold Spring Harbour, NY, USA, 31/3-4/4, 2009. XIII Workshop, Cambridge, UK, 9-13/7, 2011; XIV Workshop, South Bend, USA, 4-8/6, 2013; XV Workshop: Rome, September 22-26, 2015; XXVI ISTH Congress, Berlin July 8-13, 2017. XVI Workshop/ISFP, 2016, Shizuoka, Japan. ISFP/ XVI PA/ISFP Workshop/ISFP, Edinburgh, UK, 2018.

GORDON Conferences (*Invited speaker*)

13-14/2/2016, "Plasminogen Activation & Extracellular Proteolysis", Ventura, CA, USA.

13-14/2/2018 "Plasminogen Activation & Extracellular Proteolysis", Ventura, CA, USA.

EDITORIAL ACTIVITIES

2012-present: Editorial Board member of J. Molecular Biochemistry (Ed. Vlachakis and Tsaniras), (<https://www.jmolbiochem.com/index.php/JmolBiochem/about/editorialTeam>)

2015-present: Editorial Board member of Peer Journal.

(<https://peerj.com/mpatriziastoppelli/>)

2021-present: Topic Editor of "Cancers".

(https://www.mdpi.com/journal/cancers/topical_advisory_panel?search=stoppelli)

2022-present: Associate Editor of Frontiers in Immunology, Frontiers in Oncology.

(<https://www.frontiersin.org/journals/immunology/editors>)

2022-present: Editorial Board of Kinases and Phosphatases

(<https://www.mdpi.com/journal/kinasesphosphatases/editors>)

REVIEWING ACTIVITIES

31/1/ 2003 Expert evaluator number EEC EX2002B023739 (EEC, European Community)

1/5/2010-30/4/2012 Pool of Invited Referees ESF (European Science Foundation)

2015 Expert Database n. EX2006C108175, ERC (European Research Council)

2006-present Expert Women in Life Sciences, WILS EMBO Database.

March-April 2021, 2022, 2023: Member of Review Panels for evaluation of NCN grants, National Science Centre, Poland.

Reviewer for the following journals: Exp Cell Res, Biol Chem, EMBO Reports, European J Biochem, J Cell Biol, J Cell Sci, J Cell Physiol, J Biol Chem, FEBS letters, Gene, Plos one, Peer J, Neoplasia, J Thromb Haem, Anti-cancer Drugs, Int J Cancer, Cancers and others.

Reviewer for the following Granting Agencies: Agencie de la Recherche Francaise, AICR, UK Prostate Cancer Foundation, European Science Foundation, NCN-Poland, AIRC, ERC, Research Foundation Flanders (FWO).

TUTORING ACTIVITIES

International research collaborative projects with students exchange

(supported by EMBO, FEBS, CNR, FIRC, SIBBM, ISFP fellowships o NCI exchange programs).

01-03/1997: **CSIC-CNR bilateral agreement** with Dr J Avila, Centro de Biologia Molecular Severo Ochoa, Univ de Cantoblanco, Madrid, on: "Identification of protein kinases phosphorylating uPA" (*students: O. Massa and M. Garcia-Rocha*).

04/01-03/04/1993: **National Cancer Institute of Health Exchange Scientists Program** with prof M. R Rosner, Ben May Institute for Cancer Research, U. of Chicago, USA on: "Role of MAP kinases in uPA/uPAR signaling" (*Fellow, P. Franco*).

02-06/1996: **EMBO short-term e CNR short mobility fellowships** supporting a collaboration with Dr T. Graf, EMBL, Heidelberg, Germany on: "Role of the Hck and pp60Src kinases in the myelomonocytic cell motility and adhesion" (*Fellow, F. Chiaradonna*).

09-12/2002: **FIRC short term fellowship** for visiting prof L. Ossowski, Mount Sinai School of Medicine, New York, on: "Analysis of migration inhibitors as anti-metastatics in the chorioallantoic membrane of the chick embryo" (*Fellow, P. Franco*).

1/12-31/1/2004: **EMBO short-term fellowship** supporting a collaboration with prof Santa Jeremy Ono, Dept Ocular Immunology, UCL, London, UK on: "Use of uPA antagonists as anti-inflammatory in a mouse model of ocular allergy" (*Fellow, I. Vocca*).

09/2007-06/2008: **EMBO and FEBS short-term fellowships** supporting a collaboration with prof A. Ridley, King's College, London, UK on "Determination of which of 20 Rho family GTPases, and which of their GEFs, GAPs and targets contribute to uPA/uPAR-mediated migration, using RNAi screening" (*Fellow, D. Alfano*).

10/2014-12/2014: **SIBBM travel fellowship** to learn the "3D Organotypic invasion assay" for 3D analysis of epithelial-stroma cross-talk at IHMRI, UOW, Wollongong, Australia (*Fellow, S. Belli*).

17/10/-19/12/2016 **ISFP travel bursary** supporting a project with prof M. Ranson, IHMRI, UOW, Wollongong, Australia on: "Breast tumor-stroma crosstalk: development of multi-cellular breast tumor spheroids" (*Fellow, A. De Vincenzo*).

Doctorate Theses supervised by M.P. Stoppelli at IGB

2000-04: Biological Chemistry and Molecular Biology, Univ Federico II: "Naturally occurring inhibitors of cell migration uncover uPA-dependent motogen signaling mechanism", I. Vocca.

2003-06: Thoracic Oncology, Second University of Naples: "Control of migration and invasion of lung cells with uPA-derived inhibitors, P Franco.

2002-05: Advanced Biology, Univ Federico II, Naples: "Anti-apoptotic signaling in the retinal pigment epithelial cell model", D. Alfano.

2008-10: Thoracic Oncology, Second University of Naples: "Modulation of cell migration and survival by c-Myc oncogene through the inhibition of uPA and uPAR", G. Votta.

2012-15: Thesis in Mol and Cell Biotechnologies Univ L. Vanvitelli: "Effect of c-Myc and V12 Ras on the cross-talk between epithelial cells and stromal fibroblasts: analysis of secreted factors" (A. De Vincenzo).

2014-17: Biomolecular Sciences, (DOT1349797), Univ L. Vanvitelli", Caserta: "Modulation of tumour microenvironment: new decapeptides inhibiting human fibroblasts pro-tumoral activity" (S. Belli).

Selected "Laurea magistrale" Theses supervised by M.P. Stoppelli at IGB

1994-96: "Pro-uPA phosphorylation: localisation and functional effect of Pser", Ciro Iaccarino.

1996-97: "Role of Hck in myelomonocytic adhesion and motility", Laura Fontana.

1998-99: "Role of GF domain in the chemotactic ability of human uPA", Letizia Cito

2001-2002: "Generation of a human uPA variant devoid of chemotactic and proadhesive abilities", Daniela Alfano.

2003-2004: "Regulation of the proliferation/apoptosis ratio in RPE cells", Viviana Pisa.

2003-2004: "Inhibition of invasion by primary cells from human tumours", Nadia Gambi.

2005-2006: "Silencing of alpha v integrin expression by RNA interference", Giusy Votta.

2010-11: "Effect of membrane sphingolipid composition on uPAR-dependent migration", P. Pace.

2011-12: "Pro-migratory or inhibitory effect of peptides derived from human uPA", C. Sarno.

2011-12: "Role of glycosphingolipids in uPAR- and EGFR-dependent cell migration", M. Nappo.

2016-17, "Modulation of FAK adhesion kinase in HT1080 fibrosarcoma cells", I. Maietta.

2017-18 "Silencing of alpha v integrin subunit in human cell lines of different tissue origin", R. Dieli.

2017-18 "The alpha v integrin subunit as therapeutic target in mammary tumors", M. Teresa Saviano.

2020-21 "Vascular mimicry and migration of U87 cells inhibited by the novel uPAcyclicin", M. D'Angelo.

2020-21 "Vascular mimicry formation of U87 glioblastoma cells inhibited by uPA cyclin", I. Camerino.

PATENTS

1. Rosner R.M., Thompson K., Garcia J.V., Stoppelli M.P. "Dp100 EGF and insulin binding protein from Drosophila cells", **Massachusetts Institute of Technology, Boston, USA. U.S.A. Patent n.4,774,321, pubbl. 27/9/1988.**
2. Blasi F., Mastronicola M.R., Stoppelli M.P., Welinder K., Correas I. "Phosphorylated plasminogen activators and new mutants correlated to the phosphorylated plasminogen activators", **International Patent n. C12N9/64/C12P21/00 A61K37/54, Pubbl. 1/11/1990.**
3. Stoppelli M.P., Franco P., Belli S. Iommelli F., Carotenuto A., Grieco P., Novellino E. "Nuovi peptidi e peptidomimetici come agenti potenti e mirati nella prevenzione e nel trattamento dell'invasione e metastasi tumorali", **Italian Patent, CNR-Università Federico II, n.1020180001051, 22/11/2018.**

BOOK CHAPTERS

1. Stoppelli M.P., Verde P., Galeffi P., Locatelli E. and Blasi F. Regulation of the urokinase mRNA synthesis by tumor promoters and epidermal growth factor. "Peptide hormones, Biomembranes and Cell Growth", C.G. Bolis, L. Frati and R. Verna Eds., Plenum Press (1984).
2. Verde P., Stoppelli M.P., Galeffi P., Riccio A., Grimaldi G., Locatelli E.K., Bullock S., Boast S., Sebastio G., Di Nocera P.P. and Blasi F. Preliminary studies on the structure and regulation of the human urokinase gene: effect of tumor promoters, EGF and transformation by SV40. "Progress in Fibrinolysis", vol. VII, Churchill Livingstone (1985).
3. Appella E., Robinson E., Ulrich S., Stoppelli M.P., Corti A., Cassani G. and Blasi F. The receptor binding sequence of human urokinase. "Methods in protein sequence analysis" Kenneth A. Walsh Ed., The human Press Inc. (1987).
4. Blasi F., Verde P., Riccio A., Stoppelli M.P., Cubellis M.V., Grimaldi G., Franzé A.M. Molecular biology of plasminogen activation and its role in the invasiveness of malignant cells. "Molecular pathology of gene expression", Raven press, Serono Symposia, vol.2, 65-79 (1989).
5. Blasi F. and Stoppelli M.P. Molecular basis for plasminogen activation, surface proteolysis and their relation to cancer. In: "Growth regulation and Carcinogenesis" ed by C.R.C. press, vol. 2, p.133-147 (1991).
6. Blasi F. and Stoppelli M.P. Specificity and properties of the human urokinase receptor. In: "Growth regulation and Carcinogenesis" ed by C.R.C. press, vol. 2, p.149-161 (1991).
7. M. P. Stoppelli The Plasminogen Activation System in Cell Invasion. In "Cell invasion" by Landes Biosci, Editor: Heino, Jyrki, Veli-Matti Kahari p. 128-141, ISBN: 1-58706-073-6 (2002).
8. M. P. Stoppelli, L. M Andersen, G. Votta, and Peter A. Andreasen Engineered antagonists of uPA and PAI-1. In the "The Cancer Degradome-Proteases and Cancer Biology", Springer Science, Business Media and Humana Press (2008).
9. F. Mantile, P. Franco, M. Patrizia Stoppelli, G. L. Liguori "Biological role and clinical relevance of extracellular vesicles as key mediators of cell communication in cancer." In "Biological Membrane Vesicles: Scientific, Biotechnological and Clinical Considerations" Eds by G. Pocsfalvi, A. Bongiovanni, M. Manno, V. Kralj-Iglic, in Advances in biomembranes and lipid self-assembly. Elsevier (2020). <https://www.sciencedirect.com/science/article/abs/pii/S245196342030025X>

PUBLICATIONS

1. Ferraiuolo R., Stoppelli M.P., Verde P., Bullock S., Lazzaro P., Blasi F. and Pietropaolo C. Transcriptional induction of urokinase in cultured human kidney carcinoma cells by tetradecanoyl-phorbol acetate. **J. Cell Physiology, 121: 368-364 (1984).**

2. Verde P., Galeffi P., Stoppelli M.P. and Blasi F. Molecular cloning of human urokinase cDNA: transcriptional regulation in A431 cells. **Haemostasis**, **14**: 59 (1984).
3. Verde P., Stoppelli M.P., Galeffi P., Di Nocera P.P. and Blasi F. Identification and primary sequence of an unspliced human urokinase polyA⁺ RNA. **Proc. Natl. Acad. Sci.**, **81**: 4727-4731 (1984).
4. Stoppelli M.P., Corti A., Soffientini A., Cassani G., Blasi F. and Assoian R.K. Differentiation-enhanced binding of the aminoterminal fragment of human urokinase plasminogen activator to a specific receptor on U937 monocytes. **Proc. Natl. Acad. Sci.**, **82**: 4939-4943 (1985).
5. Stoppelli M.P., Verde P., Grimaldi G., Locatelli E. and Blasi F. Increase in urokinase plasminogen activator mRNA in human carcinoma cells is a primary effect of the potent tumor promoter phorbol myristate acetate. **J. Cell Biology** **102**: 1235-1241 (1986).
6. Stoppelli M.P., Tacchetti C., Cubellis M.V., Corti A., Hearing V., Appella E., Cassani G. and Blasi F. Autocrine saturation of the pro-urokinase receptors. **Cell**, **45**: 675-684 (1986).
7. Blasi F., Stoppelli M.P., Cubellis M.V. The receptor for human urokinase plasminogen activator. **J. Cell Biochemistry**, **32**, n. 3: 179-186 (1986).
8. Appella E., Robinson E., Ulrich S., Stoppelli M.P., Corti A., Cassani G. and Blasi F. The receptor binding sequence of urokinase: biological function for the growth factor module of proteases. **J. Biological Chemistry**, **262**: 4437-4440 (1987).
9. Garcia J.V., Thompson K.L., Stoppelli M.P., Decker S. and Rosner R.M. EGF and insulin related growth factors compete for binding to a single Drosophila protein. **J. Cell Biochemistry**, **11A**: 25-26 (1987).
10. Garcia J.V., Stoppelli M.P., Thompson K.L., Decker S., Rosner R.M. Characterization of a Drosophila protein that binds both EGF and insulin related growth factors. **J. Cell Biology**, **105**: 449-456 (1987).
11. Stoppelli M.P., Garcia J.V., Decker S., and Rosner R. M. Developmental regulation of an insulin/ EGF binding protein in Drosophila. **J. Cell Biochemistry**, **2C** (1987).
12. Stoppelli M.P., Garcia J.V., Decker S., and Rosner R. M. Developmental regulation of an insulin degrading enzyme in Drosophila melanogaster. **Proc. Natl. Acad. Sci.**, **85**: 3469-3473 (1988).
13. Garcia J.V., Stoppelli M.P., Decker S. and Rosner R.M. An insulin-epidermal growth factor binding protein from Drosophila has insulin degrading activity. **J. Cell Biology**, **108**:177-182 (1989).
14. Picone R., Locatelli E.K., Nielsen L.S., Mastronicola M.R., Cubellis M.V., Stoppelli M.P. and Blasi F. Phorbol ester PMA regulates the affinity and the number of the urokinase receptors in monocyte-like U937 cells. **J. Cell Biology**, **108**: 693-702 (1989).
15. Mastronicola M.R., Stoppelli M.P., Migliaccio A., Auricchio F. and Blasi F. Serine phosphorylation of biosynthetic human urokinase plasminogen activator. **Fibrinolysis**, **3**:13-14 (1989).
16. Robbiati F., Nolli M.L., Sarubbi E., Soffientini A., Stoppelli M.P., Cassani G., Parenti F. and Blasi F. A recombinant pro-urokinase missing the growth factor-like domain does not bind the urokinase receptor. **Fibrinolysis**, **4**: 53-60 (1990).
17. Mastronicola M.R., Stoppelli M.P., Migliaccio A., Auricchio F. and Blasi F. Serine phosphorylation of biosynthetic pro-uPA from human tumor cells. **FEBS letters**, **266**:109-114 (1990).
18. Stoppelli M.P., Mastronicola M.R., Franco P., De Cesare D, Welinder K., Verde P. and Blasi F. Serine phosphorylation of biosynthetically labeled uPA from A431 human carcinoma cells. resistance to PAI-1 inhibition. **Fibrinolysis**, **4**: 90 (1990).
19. Stoppelli M.P. Fermare le metastasi, una speranza vicina. **Il Giornale del Medico**, **19**: 2 (1990).
20. Stoppelli M.P. Come si ferma il viaggio a distanza. **Corriere Medico**, **30**: 8-9 (1990).
21. Budillon A., Tagliaferri P., Caraglia M., Torrisi M.R., Normanno N., Iacobelli S., Palmieri G., Stoppelli M.P., Frati L., Bianco A.R. Upregulation of epidermal growth factor receptor induced by alpha-interferon in human epidermoid cancer cells. **Cancer Research** , **51**: 1294-1299 (1991).
22. Mastronicola M., Franco P., De Cesare D., Massa O., Stoppelli M.P. Phosphorylation of urokinase is not a limiting step in biosynthesis, but results in a reduced PAI-1 sensitivity. **Fibrinolysis**, **6**: p.117-120 (1992).

23. Franco P., Mastronicola M.R., De Cesare D., Nolli M.L., Tze-Chei Wun, Verde P., Blasi F. and Stoppelli M.P. Separation and characterization of non phosphorylated and serine phosphorylated pro-uPA. Catalytic properties and sensitivity to PAI-1. **J. Biological Chemistry**, **267**: 19369-19372 (1992).
24. Del Vecchio S., Stoppelli M.P., Carriero M., Fonti R., Massa O., Yong L.P., Botti G., Cerra M., D'Aiuto G., Salvatore M. Human urokinase receptor concentration in malignant and benign breast tumors by in vitro quantitative autoradiography. Comparison with uPA levels. **Cancer Research**, **53**, 3198-3206, (1993).
25. Del Vecchio S., Stoppelli M.P., Carriero M., Fonti R., Massa O., Yong L.P., Botti G., Cerra M., D'Aiuto G. and Salvatore M. In vitro receptor imaging for characterization of human solid tumors. **Nucl. Med. Biol.** **21**, no. 5, 771-774 (1994).
26. Carriero M.V., Franco P., Del Vecchio S., Massa O., Botti G., D'Aiuto G., Stoppelli M.P. and Salvatore M. Tissue distribution of soluble and receptor-bound urokinase in human breast cancer using a panel of monoclonal antibodies. **Cancer Research**, **54**, 5445-5454 (1994).
27. Blasi F., Conese M., Moller L.B., Pedersen N., Cavallaro U., Cubellis Soria M.R., Stoppelli M.P., Talarico D., Teesalu T., Valcamonica S. The urokinase receptor: structure, regulation and inhibitor-mediated internalization. **Fibrinolysis**, **8**, 182-188 (1994).
28. Franco P., Iaccarino C., Chiaradonna F., Brandazza A., Iavarone C., Mastronicola M.R., Nolli M.L. and Stoppelli M.P. Phosphorylation of pro-urokinase on Ser^{138/303} impairs its receptor-dependent ability to promote myelomonocytic adhesion and motility. **J. Cell Biology**, **137** n.3, 779-791 (1997).
29. Carriero M.V., Del Vecchio S., Franco P., Potena M., Chiaradonna F., Botti G., Stoppelli M.P., Salvatore M. Vitronectin binding to urokinase receptor in human breast cancer. **Clinical Cancer Research**, **3**, 1299-1308 (1997).
30. Franco P., Massa O., Garcia-Rocha M., Chiaradonna F., Iaccarino C., Correas I., Mendez E., Avila J., Blasi F. and Stoppelli M.P. Protein kinase C-dependent in vivo phosphorylation of pro-urokinase leads to the formation of a receptor competitive antagonist. **J. Biological Chemistry**, **273**, 27734-27740 (1998).
31. Blasi, F. and Stoppelli, M.P. Proteases and cancer invasion: from belief to certainty. **Biochimica et Biophysica Acta**, **1423**, 35-44 (1998).
32. F. Chiaradonna, L. Fontana, C. Iavarone, M. V. Carriero, G. Scholz, M. V. Barone and M. P. Stoppelli Urokinase receptor-dependent and independent p56/59^{hck} activation state is a molecular switch between myelomonocytic cell motility and adherence. **EMBO J.**, **11**, 3013-3023 (1999).
33. M. V. Carriero, S. Del Vecchio, M. Capozzoli, P. Franco, L. Fontana, A. Zannetti, G. Botti, G. D'Aiuto, M. Salvatore and M. P. Stoppelli Urokinase receptor interacts with $\alpha_5\beta_1$ vitronectin receptor promoting urokinase-dependent cell migration in breast cancer. **Cancer Research**, **59**, 5307-5314 (1999).
34. Zannetti A., S. Del Vecchio, M. V. Carriero, R. Fonti, P. Franco, G. Botti, G. D'Aiuto, M. P. Stoppelli and M. Salvatore. Coordinate upregulation of Sp1 DNA binding activity and urokinase receptor expression in breast carcinoma. **Cancer Research**, **60**, 1546-51 (2000).
35. Metafora V. , P. Franco, O. Massa, F. Morelli, P. Stiuso, P. Ferranti., G. Mamone, A. Malorni, M. P. Stoppelli and S. Metafora. Phosphorylation of seminal vesicle protein IV on Ser58 enhances its peroxidase-stimulating activity. **European J. Biochemistry**, **268**, 3858-3869 (2001).
36. Carriero M.V. , P. Franco L. Gargiulo, I. Vocca, L. Cito, L. Fontana, C. Iaccarino, G. Del Pozzo, J. Guardiola and M. P. Stoppelli. Inhibition of receptor-dependent urokinase signaling ability by specific Ser to Glu substitutions. **Biological Chemistry**, **383**, 107-113 (2002).
37. Silvestri I., I. Longanesi Cattani, P. Franco, G. Pirozzi, G. Botti, M.P. Stoppelli, M.V. Carriero. Engaged urokinase receptors enhance tumor breast cell migration and invasion by upregulating $\alpha_5\beta_1$ vitronectin receptor cell surface expression. **International J. Cancer**, **102**, 562-71 (2002).
38. Alfano D., P. Franco , I.Vocca, N. Gambi , V. Pisa , A Mancini , M Caputi , MV Carriero, I Iaccarino , MP Stoppelli . The urokinase plasminogen activator and its receptor: role in cell growth and apoptosis.

Thrombosis and Haemostasis, 93(2):205-11 (2005).

39. Gargiulo L., I. Longanesi-Cattani, K. Bifulco, P. Franco, R. Raiola, P. Campiglia, P. Grieco, Peluso G, Stoppelli MP, Carriero MV. Cross-talk between fMLP and vitronectin receptors triggered by urokinase receptor-derived SRSRY peptide. **J. Biological Chemistry** 280(26):25225-32 (2005).
40. Zannetti A., S. Del Vecchio, A. Romanelli, S. Scala, M. Saviano, G. Cali, M.P. Stoppelli, Pedone C, Salvatore M. Inhibition of Sp1 activity by a decoy PNA-DNA chimera prevents urokinase receptor expression and migration of breast cancer cells. **Biochem Pharmacol.** 70(9):1277-87 (2005).
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