

CURRICULUM VITAE

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Place of Birth: FANNA (PN) - ITALY

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EDUCATION

1961-66 Scientific High School Diploma, Liceo Scientifico G. Berton, Udine, Italy

1966-72 Doctor of Medicine and Surgery, University of Padua Medical School, Padua, Italy

SPECIALTY DIPLOMAS

1975 Specialty Diploma in Hematology, University of Padua, Medical School

1978 Specialty Diploma in Nuclear Medicine, University of Padua, Medical School

1986 Specialty Diploma in Clinical Biology, University of Padua, Medical School

POST-GRADUATE MEDICAL TRAINING AND POSITION

2018- Advisory board –Alifax srl Biomedical Devices

2012- Medical Advisor - Isitech s.r.l, Biomedical Devices

2012- Scientific Director - 16/12 s.r.l Biomedical Devices

2012 - Research consultant Department of translational research National Institute for cancer research CRO Aviano Italy

2009- Adjunct Professor: the Scripps Research Institute, La Jolla, California

2009- Research consultant- Department of diagnostic laboratories and cellular therapy. National Institute for Cancer Research C.R.O., Aviano, Italy

2007- 2012 Head, Department of Diagnostic Laboratories and Cellular Therapy, National Institute for Cancer Research, C.R.O., Aviano, Italy

2002- 2007 Head, Department of Laboratory and Imaging Diagnostics, National Institute for Cancer Research, C.R.O., Aviano, Italy

1989- Director, Blood Bank and Clinical Pathology Laboratory, National Institute for Cancer Research, C.R.O., Aviano, Italy

1987-88-Sept-Apr Visiting Scientist, The Scripps Research Institute, La Jolla, California

1983 (April-May) Visiting Scientist, Scripps Clinic and Research Foundation, La Jolla, California

1981 Associate Director, Blood Bank and Coagulation Laboratory, Pordenone City Hospital, Italy

1981 (April-May) Visiting Scientist, Cardeza Foundation for Hematologic Research, Jefferson Medical College of Thomas Jefferson University, Philadelphia, Pennsylvania

1980-81 Assistant Director, Blood Bank and Coagulation Laboratory, Pordenone City Hospital, Italy

1978-80 Visiting Scientist, Cardeza Foundation for Hematologic Research, Jefferson Medical College of Thomas Jefferson University, Philadelphia, Pennsylvania

1977 (October) Visiting Scientist, Department of Haematology, St. Thomas Hospital, London

1976-78 Assistant Director, Blood Bank and Coagulation Laboratory, Pordenone City Hospital, Italy

1974-75 Medical Officer, Brigata Alpina Cadore (Italian Army), Belluno

1973-74 Assistant Director, Blood Bank and Coagulation Laboratory, Pordenone City Hospital, Italy

1973 (October) Visiting Scientist, Department of Haematology, St. Thomas Hospital, London

1972-73

Intern, Institute of "Semeiotica Medica", University of Padua Medical School

FELLOWSHIPS

1978-80 Fulbright Hays fellowship

AD HOC REVIEWER for:

- Blood
- Thrombosis and Haemostasis
- Thrombosis Research
- Haematologica

MEMBERSHIPS

- Italian Society for Hemostasis and Thrombosis
- International Society for Hemostasis and Thrombosis
- American Society of Hematology

TEACHING POSITION

1999 - 2012 Professor of Clinical Pathology, School of Oncology, Medical School of the University of Udine, Italy.

CURRENT RESEARCH GRANT

NIH RESEARCH GRANT ON “ a systemic biology approach to identifying the mechanism of sex hormones induced thromboembolism in pre-menopausal women 2018-2023

LAST RESEARCH GRANTS

- Friuli Venezia Giulia Region GRANT “Creation of a Center for Mouse Phenotyping in order to study human disease in FVG” obtained 04/03/2009
- Italian Ministry of Health: RF-2009-1590218 “A novel 3D Bioreactor for in vitro platelet production: a translational research strategy to study platelet support platelet supply problems in patients undergoing chemotherapy and/or receiving autologous stem cells.” P.I.
- Italian Ministry of Health RF-2010-2317993 “A new automatic device for personalized clinical monitoring of thrombotic and hemorrhagic risk assessment in cancer patients.”
- Italian Ministry of Health RF-2010-2316198 “Pathways of coagulation and platelet activation in flowing blood: new perspectives in the management of antithrombotic therapy.” P.I.

TRAINEES

Paola Pradella Ph.D. Present position: Associate Director Servizio Immunotrasfusionale, Ospedali Riuniti di Trieste, Trieste (Italy);

Gian Paolo Gaiga M.D. Present position: Associate Director Servizio Immunotrasfusionale, Ospedale di Bussolengo, Verona (Italy);

Adriana Masotti M.D. Present position: Associate Director Servizio Immunotrasfusionale, Ospedale di Conegliano, Treviso (Italy);

Vincenzo De Angelis M.D. Present position: Head of Department of Transfusion Medicine, Azienda Ospedaliera Universitaria, Udine (Italy).

PUBLICATIONS

in referred journals

1. Girolami A., Carli A., Falomo R., and De Marco L.: Factor X Friuli coagulation disorder. *Blut* 27:151-158, 1973.
2. Girolami A., Brunetti A., and De Marco L.: Congenital Factor V and Factor VIII deficiency. *Blut* 28:33-42, 1974.
3. Girolami A., Molaro G., and De Marco L.: Factor X survival and therapeutic Factor X levels in the abnormal Factor X (Friuli) coagulation disorder. *Acta Haematol.* 52:223-231, 1974.
4. Girolami A., De Marco L., Virgolini L., Peruffo R., and Fabris F.: The effect of heparin on platelet aggregation. *Blut* 31:219-226, 1975.
5. Girolami A., Virgolini L., Peruffo R., and De Marco L.: Failure of ellagic acid to effect platelet aggregation in normal and in Factor XII deficient plasma. *Blut* 31:107-112, 1975.
6. Girolami A., De Marco L., Virgolini L., Peruffo R., and Fabris F.: Platelet adhesiveness and aggregation in congenital afibrinogenemia. *Blut* 30:87-100, 1975.
7. Girolami A., De Marco L., Patrassi G., and Virgolini L.: La deficienza combinata dei Fattori VII e VIII. *Prog. Med.* 32-75, 1976.
8. Girolami A., Fabris F., De Marco L., and Peruffo R.: The effect of ionophore on platelet aggregation in von Willebrand's disease and in congenital afibrinogenemia. A comparison with ristocetin. *Acta Haematol.* 56:151-159, 1976.
9. Girolami A., Falomo R., De Marco L., and Patrassi G.: Factor X Friuli coagulation disorder. *Acta Haematol.* 56:27-38, 1976.
10. De Marco L., Peruffo R., Virgolini L., Fabris F., and Girolami A.: Influenza del β -benzalbutirato sodico sull'adesivita' ed aggregazione piastrinica. *La Clin. Terap.* 76:419-428, 1976.
11. De Marco L., Fabris F., Molaro G., Girolami A.: The effect of heparin on the interaction of Factor VII and human platelets in vitro. *Haemostasis* 6:163-170, 1977.
12. Betterle C., Fabris F., De Marco L., Del Prete G., and Girolami A.: Clotting factor and platelets. *Haemostasis* 6:138-154, 1977.
13. Girolami A., De Marco L., Fabris F., Casonato A.: Platelet adhesiveness and aggregation in combined Factor V and Factor VIII deficiency and in combined Factor VII and Factor VIII deficiency. *Folia Haematol.* 5:663-669, 1977.
14. Fabris F., Casonato A., De Marco L., and Girolami A.: The effect of certain antiplatelet drugs on in vitro malondyaldehyde (MDA) production. *Arzneim. Forsch.* 29:981-983, 1979.
15. Thiagarajan P., Shapiro S.S., and De Marco L.: Monoclonal immunoglobulin IgM coagulation inhibitor with phospholipid specificity. Mechanism of a lupus anti-coagulant. *J. Clin. Invest.* 66:397-405, 1980.

16. Girolami A., Casonato S., Randi M., De Marco L., and Molaro G.: Normal platelet adhesiveness and aggregation in congenital PTA of Hageman factor deficiency. *Folia Haematol.* 107:487-491, 1980.
17. Girolami A., Dal Bo Zanon R., De Marco L., and Cappelletto G.: Hemophilia B with associated Factor VII deficiency: distinct variant of hemophilia B with low Factor VII activity and normal Factor VII antigen. *Blut* 40:267-273, 1980
18. De Marco L., Shapiro S.S.: Properties of human asialo-Factor VIII. A ristocetin-independent platelet aggregating agent. *J. Clin. Invest.* 6:321-328, 1981.
19. Girolami A., Patrassi G.M., De Marco L., and Cappelletto G.: Lack of Factor XII antigen in Factor XII deficiency as determined by electroimmunoassay. *Blut* 45:141-142, 1982.
20. Ruggeri Z.M., Bader R., De Marco L.: Glanzmann's thrombasthenia: deficient binding of von Willebrand factor to thrombin-stimulated platelets. *Proc. Natl. Acad. Sci.* 79:6038-6041, 1982.
21. Thiagarajan P., Perussia B., De Marco L., Wells K., Trinchieri G.: Membrane proteins of human megakaryocytes and platelets identified by monoclonal antibodies. *Amer. J. Haematol.* 14:255-269, 1983.
22. Di Minno G., Shapiro S.S., Catalano P.M., De Marco L., and Murphy S.: Tromboxane dependence of Factor VIII binding to platelets. *Blood* 62:186-190, 1983.
23. Ruggeri Z.M., De Marco L., Gatti L., Bader R., and Montgomery R.R.: Platelets have more than one binding site for von Willebrand Factor. *J. Clin. Invest.* 72:01-12, 1983.
24. Federici A.B., Elder J.H., De Marco L., Ruggeri Z.M., and Zimmerman T.S.: The carbohydrate moiety of von Willebrand factor is not necessary for maintaining multimeric structure and ristocetin cofactor activity but protects from proteolytic degradation. *J. Clin. Invest.* 74:2049-2055, 1984.
25. Pengo V., Ruffati A., Baritussio A., De Marco L., Todesco S., Girolami A.: Serum of normal subjects contains IgG with antibody-like specificity for phospholipids. *Folia Haematol.* 5:681-685, 1984.
26. De Marco L., Girolami A., Russel S., and Ruggeri Z.M.: Interaction of Asialo von Willebrand factor with glycoprotein Ib induces fibrinogen binding to the glycoprotein IIb/IIIa complex and mediates platelet aggregation. *J. Clin. Invest.* 75:1198-1203, 1985.
27. Thiagarajan P., Shapiro S.S., Levine E., De Marco L., and Yalcin A.: A monoclonal antibody to human platelet glycoprotein IIIa detects a related protein in cultured human endothelial cells. *J. Clin. Invest.* 75:896-902, 1985.
28. De Marco L., Girolami A., Zimmerman T.S., and Ruggeri Z.M.: Interaction of purified IIB von Willebrand factor with the platelet membrane glycoprotein Ib induces fibrinogen binding to the glycoprotein IIb/IIIa complex and initiates aggregation. *Proc. Natl. Acad. Sci.* 82:7424-7428, 1985.
29. Fabris F., Casonato A., Del Ben M.G., De Marco L., Girolami A.: Abnormalities of von Willebrand factor in myeloproliferative disease: A relationship with bleeding diathesis. *Brit. J. Haematol.* 63:75-83, 1986.
30. De Marco L., Girolami A., Zimmerman T.S., and Ruggeri Z.M.: Von Willebrand factor interaction with the glycoprotein IIb/IIIa complex. Its role in platelet function as demonstrated in patients with congenital afibrinogenemia. *J. Clin. Invest.* 77:1272-1277, 1986.

31. De Marco L., Fabris F., Casonato A., Fabris P., Del Ben M.G., Barbato A., Girolami A.: Bernard Soulier Syndrome: Diagnosis by an Elisa method using monoclonal antibodies in two unrelated patients. *Acta Haematologica* 75:203-208, 1986.
32. De Marco L., Mazzucato M., Del Ben M.G., Budde U., Federici A., Girolami A., and Ruggeri Z.M.: Type IIB von Willebrand factor with normal sialic acid content induces platelet aggregation in the absence of ristocetin. The role of platelet activation, fibrinogen and two distinct membrane receptors. *J. Clin. Invest.* 80:75-82, 1987.
33. Casonato A., Fabris F., De Marco L., Girolami A.: Discrepancies between von Willebrand factor multimeric composition and other tests in some von Willebrand's disease variants. *Blut* 55:61-62, 1987.
34. Federici A.B., Bader R., Pagani S., Colibretti M.L., De Marco L., and Mannucci P.M.: Binding of von Willebrand factor to glycoproteins Ib and IIb/IIIa complex: affinity is related to multimeric size. *Brit. J. Haemat.* 73:93-99, 1989.
35. Mazzucato M., De Marco L., De Angelis V., De Roia D., Bizzaro N., and Casonato A.: Platelet membrane abnormalities in myeloproliferative disorders: decrease in glycoproteins Ib and IIb/IIIa complex is associated with deficient receptor function. *Brit. J. Haematol.* 1989 November.
36. Casonato A., De Marco L., Mazzucato M., De Angelis V., De Roia D., Fabris F., Ruggeri Z.M., and Girolami A.: A new congenital platelet abnormality characterized by spontaneous platelet aggregation, enhanced von Willebrand factor platelet interaction, and the presence of all von Willebrand factor multimers in plasma. *Blood* 74:2028-2033, 1989.
37. Casonato A., Sartori T., De Marco L., Girolami A.: 1-Desamino-8-D-Arginine Vasopressin (DDAVP) Infusion in Type IIB von Willebrand's disease: shortening of bleeding time and induction of variable Pseudothrombocytopenia. *Thromb. and Haemost.* 64:117-120, 1990.
38. De Marco L., Mazzucato M., De Roia D., Casonato A., Federici A.B., Girolami A., Ruggeri Z.M.: Distinct abnormalities in the interaction of purified IIA and IIB von Willebrand factor with the platelet binding sites. Glycoprotein complexes Ib-IX and IIIb/IIIa. *J. Clin. Invest.* 86:785-792, 1990.
39. De Marco L., Mazzucato M., Fabris F., De Roia D., Coser P., Girolami A., Vicente V., Ruggeri Z.M.: Variant Bernard-Soulier Syndrome Type BOLZANO. *J. Clin. Invest.* 86:25-31, 1990.
40. De Marco L., Mazzucato M., Masotti A., Fenton J.W., Ruggeri Z.M. Function of glycoprotein Ib α in platelet activation induced by α -thrombin. *J Biol Chem* 266(35):23776-23783, 1991
41. Ruggeri Z.M., Zimmerman T.S., Russel S., Bader R., De Marco L.: von Willebrand factor binding to platelet glycoprotein Ib complex. *Meth. Enzimol.* 215:263-275, 1992.
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51. Steffan A., Pradella P., Cordiano I., Girolami A., De Marco L., and Fabris F.: Glycocalicin in the diagnosis and management of immune thrombocytopenia. *Eur J Haematol*, 61, 77-83, 1998.
52. Mazzucato M., Spessotto P., Masotti A., De Appollonia L, Cozzi M.R., Yoshioka A., Perris R., Colombatti A., De Marco L.. Identification of domains responsible for von Willebrand factor type VI collagen interaction mediating platelet adhesion under high flow. *J Biol Chem* 274: 3033-3041, 1999.
53. Casonato A., Steffan A., Pontara E., Zucchetto A., Rossi C., De Marco L., Girolami A.: Post-DDAVP Thrombocytopenia in Type 2B von Willebrand Disease is not Associated with platelet consumption: Failure to demonstrate glycocalicin increase or platelet activation. *Thromb. and Haemost.* 81:165-324, 1999.
54. Dalla Via L., Francesconi M., Mazzucato M., Pradella P., De Marco L., Dalla Vecchia F., Rascio N. and Deana R.: On the Mechanism of the Spermine-Exerted Inhibition on α -thrombin-induced platelet activation. *Thrombosis Research* 98:59-71, 2000.
55. Carbone A., Gloghini A., Cozzi M.R., Capello D., Steffan A., Monini P., De Marco L., Gaidano G.: Expression of MUM1/IRF4 selectively clusters with primary effusion lymphoma among lymphomatous effusions: implications for disease histogenesis and pathogenesis. *Brit. J. Haematol.* 111, 247-257, 2000.
56. Casonato A., Pontara E., Vertolli U.P., Steffan A., Durante C., De Marco L., Sartorello F., Girolami A. : Plasma and platelet von Willebrand factor abnormalities in patients with uremia: lack of correlation with uremic bleeding. *Clin Appl Thrombosis/Hemostasis* 7:81-86, 2001.
57. Mazzucato M., Pradella P., Cozzi M.R., De Marco L., Ruggeri Z.M.: Sequential cytoplasmic calcium signals in a two stage platelet activation process induced by the glycoprotein Ib α mechano receptor. *Blood* 100:2793-2800, 2002.
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- adhesion at low shear rates and cooperate with collagens to induce aggregation. *Faseb J.* 16: 1903-1916, 2002.
59. Kasirer-Friede A, Cozzi MR, Mazzucato M, De Marco L , Ruggeri Z.M, Shattil S: Signaling Through GP Ib-IX-V Activates α IIb β 3 Independently of Other Receptors. *Blood.* 103: 3403-3411, 2004.
 60. De Marco L., Perris R., Cozzi M. R., Mazzucato M.. Blood clotting in space. *J. Biol. Regul. Homeost Agents.* 18:187-92, 2004.
 61. Mazzucato M., Cozzi M. R., Pradella P., Ruggeri Z.M., De Marco L. : Distinct Roles of ADP Receptors in Von Willebrand factor-mediated platelet signaling and activation under high flow. *Blood.* 104: 3221-3227, 2004.
 62. Machin M., Santomaso A., Cozzi M.R., Battiston M., Mazzucato M., De Marco L., Canu P.: Characterization of platelet adhesion under flow using microscopic image sequence analysis. *Int. J. Artif Organs,* 28:678-685, 2005.
 63. Da Ponte A., Bidoli E., Talamini R., Steffan A., Abbruzzese L., Tassan Toffola R., De Marco L.: Pre-storage leucocyte depletion and transfusion reaction rates in cancer patients. *Transfusion Medicine.* 15, 37-43, 2005.
 64. Machin M., Santomaso A., Mazzucato M., Cozzi M.R., Battiston M., De Marco L., Canu P.: Single particle tracking across sequences of microscopical images: application to platelet adhesion under flow. *Ann Biomed Eng.* 2006 May; 34:833-46, 2006.
 65. Casonato A, De Marco L, Gallinaro L, Sztukowska M, Mazzucato M, Battiston M, Pagnan A, Ruggeri Z.M.: Altered Von Willebrand factor subunit proteolysis and multimer processing associated with cys 2362PHE mutation in the B2 domain. *Thromb. Haemost* 97: 527-533, 2007.
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Expression in Platelets from Patients with Acute Myocardial Infarction: PLoS One 7(10):e46409, 2012

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76. Cozzi M.R.,Guglielmini G., Battiston M., Momi S., Lombardi E., Miller E.C., De Zanet D., Mazzucato M., Gresele P., De Marco L. Visualisation of nitric oxide production by individual platelets during adhesion in flowing blood. Blood 125:697-705,2015.
77. Brambilla M. ,Facchinetti L., Canzano P., Rossetti L., Ferri N., Balduini A., Abbonante V., Boselli D., De Marco L., Di Minno M.N., Toschi V., Corsini A., Tremoli E., Camera M. Human megakaryocytes confer tissue factor to a subset of shedded platelets to stimulate thrombin generation. Thromb. Haemost. 114 (3),579-592, 2015
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79. Casonato A.,Pontara E.,Morpurgo M.,Sartorello F.,De Groot PG.,Cattini MG.,Daidone V.,De Marco L. Higher and lower active circulating VWF levels:different facets of Von Willebrand disease.Brit.J.Haematol,17(5),845-853,2015
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82. Malara A.Gruppi C.,Abbonante V.,Cattaneo D., De Marco L.,Massa M., Iurlo A.,Gianelli V., Balduini C.L. Tira M.E., Muro A.F.,Chaunan A.K.,Rosti V.,Barosi G.,Balduini A. Eda Fibronectin-TLR4 axis sustains megakaryocytic expansion and inflammation in bone marrow fibrosis.J Exp Med. February 7 ,2019
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