

Curriculum Vitae

Prof. Francesco Michelangelo Turrini

Notizie di carriera

- ha conseguita la Laurea in Medicina e Chirurgia nel 1983.
- Nel 1985, 1986, 1987 contratto di ricerca presso il Max-Planck-Institut für Biophysik di Francoforte sui sistemi di trasporto delle cellule renali in relazione allo sviluppo di nuovi farmaci .
- Nel 1988-1990 contratto di *post-dottorato* presso il Max-Planck-Institut für Biophysik, di Francoforte
- 1992-93 attività di ricerca presso la Purdue University (USA) e il Dipartimento di Biochimica, Ebrew University - Gerusalem
- 1993 Ricercatore di Biochimica presso l'Università di Torino
- nel 1995 Professore associato di Biochimica presso la Facoltà di Medicina di Torino
- 2001 a oggi Professore Ordinario di Biochimica presso la Facoltà di medicina di Torino
- dal 1999 al 2005 Direttore scientifico del laboratorio di Proteomica presso il Parco Scientifico della Sardegna
- Titolare dell' insegnamento di Biochimica Speciale presso il Corso di Laurea di Medicina e Chirurgia
- Docente presso il corso di dottorato in Biochimica e Biotecnologia Cellulare, Università degli studi di Torino

- Docente presso il corso di dottorato in Proteomica Clinica, Università degli studi di Verona

Attività scientifica

L'attività di ricerca è attualmente rivolta allo studio dei seguenti argomenti

1. Ricerca di antigeni malarici per lo sviluppo di nuovi vaccini
2. Ricerca nuovi markers diagnostici nelle neoplasie mediante spettrometria di massa nei tumori della vescica, rene, colon, mammella e nei melanomi.
3. Studio delle heat shock proteins nei tumori neuronali in relazione ai fenomeni di resistenza all'apoptosi per lo sviluppo di nuovi farmaci anti-tumorali
4. Studio delle modificazioni dell'endotelio nei processi di rivascolarizzazione e nel diabete per lo sviluppo di nuovi materiali bio-compatibili
5. Sviluppo di nuove tecnologie per lo studio parallelo del proteoma e dell'espressione genica per lo sviluppo di nuovi materiali per la ricerca e la diagnostica
6. Identificazione delle modificazioni indotte da ceppi batterici sul glutine in relazione alla risposta anticorpale nei pazienti celiaci
7. Sviluppo di sistemi diagnostici basati sulla real time PCR per la diagnosi oncologica
8. Sviluppo di sistemi diagnostici basati su microcromatografia / spettrometria di massa per la diagnosi oncologica
9. Regolazione della struttura della membrana eritrocitaria da parte di PTK
10. Automazione dei processi di produzione di biomolecole (proteine ricombinanti, anticorpi monoclonali)

Negli ultimi 5 anni ha gestito numerosi progetti di ricerca applicata e trasferimento tecnologico ed è coinvolto in alcuni consorzi europei finalizzati allo studio delle proteine in contesti patologici (MassProDiag, Oncoarray, ProteoDissect)

Elenco principali pubblicazioni

1. P Arese, A Naitana, L Mannuzzu, F Turrini, CWM Haest, TM Fischer, B Deuticke
Biochemical and microrheological modifications in normal and glucose-6-phosphate dehydrogenase-deficient red cells treated with divicine. in *Advances in Red Cell Biology*, (DJ Weatherall, G Fiorelli, S Gorini, eds). Raven Press, New York 1982, pp 375-380.
2. P Pescarmona, F Turrini, A Naitana, A Bosia, L Perroni
Red cell G6PD-decay in circulating cells: A possible marker for variant identification. *BBA* 42, 253-257, 1983.
3. T Fischer, GP Pescarmona, A Bosia, A Naitana, F Turrini, P Arese
Mechanism of red cell clearance in favism.
BBA 42, 253-257, 1983
4. P Arese, R Miniero, T Fischer, F Turrini, GP Pescarmona
Role of divicine from fava beans in hemolytic crisis occurring in G6PD deficient subjects.
Ital J Biochem 34, 58-59, 1985. (I.F. 0.207)
5. F Turrini, GG Pinna, A Sisini, GP Pescarmona
Analysis of membrane protein polymers formed by divicine action on G6PD-deficient erythrocytes.
Electrophoresis 460-461, 1984 (I:F. 2.730)
6. MA Baker, A Bosia, GP Pescarmona, F Turrini, P Arese
Mechanism of action of divicine in a cell free system and in G6PD-deficient red cells.
Toxicol Pathol 12, 59, 1984. (IF 0.540)
7. F Turrini, A Naitana, L Mannuzzu, GP Pescarmona, P Arese
Increased red cell calcium, decreased calcium extrusion and altered membrane proteins during fava bean hemolysis in G6PD-deficient (Mediterranean variant) individuals.
Blood 66, 302-305, 1985. (IF 8.560)
8. A Satta, R Faedda, F Turrini, A Manca, E Bartoli
Prevention of renal failure by diuretics.
Z Kardiol 74, 179-185, 1985. (IF 0.499)
9. P Arese, L Mannuzzu, F Turrini, GF Gaetani, S Galiano
Etiological aspects of favism.
Glucose-6-phosphate Dehydrogenase (E Beutler, A Yoshida, eds) Academic Press, Orlando 1986, pp 45-75.
10. R Faedda, A Satta, F Turrini, E Bartoli
Prevention of acute renal failure by diuretics and hydration.
Diuretics. Basic, pharmacological and clinical aspects (A Andreucci, C Dalcanton, eds) Martinus Nijhof, Amsterdam 1986, pp 367-372.
11. TM Fischer, F Turrini, A Naitana, L Mannuzzu, P Arese
Influence of mechanical factors on red cell hemolysis in favic crisis.
30 years G6PD deficiency (P Arese, ed) ISI, Torino 1986, pp 16-19.
12. F Bussolino, F Turrini, P Arese
Measurement of phagocytosis utilizing ¹⁴C-cyanate-labelled human red cells and monocytes.
Br J Haematol 66, 271-274, 1987. (IF 2.616)
13. A Satta, B Contu, R Faedda, F Turrini, D Sorrentino, E Bartoli

In vitro effects of epinephrine on Na influx in brush border vesicles from rat kidneys.
Eur Rev Med Pharmacol Sci 9, 233-238, 1987.

14. R Faedda, A Satta, F Turrini, E Bartoli
Superoxide radicals in the pathophysiology of ischemic acute renal failure.
Acute renal failure (A Amerio, G Coratelli, PF Massry, eds). Plenum press, New York 1987, pp 64-75, 1987.
15. F Turrini, L Mannuzzu, T Fischer F Bussolino, P Arese
Animal models for the study of favism.
Biomed Biophys Acta 46, 90-91, 1987
16. G Burckhardt, F Turrini, I Sabolich
Influence of osmolarity on the Na-H exchanger in renal brush border membrane vesicles.
Kidney Int 31, 406, 1987 (IF 3.995)
17. M Branca, T Denurra, F Turrini
Reduction of nitroxide free radical by normal and G6PD deficient red blood cells.
Free Rad Biol Med 5, 7-11, 1988. (IF 4.089)
18. D Ghigo, F Bussolino, G Garbarino, R Heller, F Turrini, GP Pescarmona, L Pegoraro, A Bosia
Role of Na/H exchange in thrombin-induced platelet-activating factor production by human endothelial cells.
J Biol Chem 263, 19437-19446, 1988. (IF 7.385)
19. F Bussolino, F Turrini, P Arese
PAF activates rat macrophages and enhances complement-mediated phagocytosis of slightly damaged red cells.
Platelet activating factor and cell immunology (P Braquet, ed), Karger, Basel 1988, pp 121-129.
20. F Bussolino, G Camussi, F Turrini, P Arese
Human endothelial cells are target for platelet activating factor. Studies with BN 52021, a specific PAF antagonist.
Gingkolides. Chemistry, biology and clinical perspectives (P Braquet, ed), Prous Science Publisher, Barcelona 1988, pp 245-259.
21. G Burckhardt, F Turrini
Demonstration of ATP Driven transport in rat renal brush border vesicles.
Pflugers Arch 412, 45, 1988 (IF 2.646)
22. F Bussolino, F Turrini, D Alessi, P Arese
BN 52021 inhibits PAF induced increase of CR1 mediated phagocytosis.
Gingkolides. Chemistry, biology and clinical perspectives (P Braquet, ed), Prous Science Publisher, Barcelona 1988, pp 117-124.
23. D Ghigo, S Treves, F Turrini, A Pannocchia, GP Pescarmona, A Bosia
Role of Na/H exchanger in thrombin and arachidonic acid induced calcium influx in platelets.
Biochim Biophys Acta 940, 141-148, 1988. (IF 2.5)
24. Ghigo, F Bussolino, G Garbarino, F Turrini, GP Pescarmona, A Bosia
Role of Na/H exchange in thrombin mediated activation of human endothelial cell in culture.
It J Biochem 37, 265-267, 1988. (IF 0.207)
25. P Arese, F Turrini, F Bussolino
The natural anti-gal antibody, the B-like antigen, and human red cell ageing. A commentary.
Blood Cells 14, 221-224, 1988.
26. F Bussolino, F Tessari, F Turrini, P Braquet, G Camussi, M Prosdocimi, A Bosia
Platelet activating factor induces dopamine release in PC12 cell line.
Am J Physiol 255, C559-C565, 1988 (IF 3.244)
27. F Turrini, I Sabolich, Z Zimolo, B Moeves, G Burckhardt
Relation of ATPases in rat renal brush border membranes to ATP-driven H₂O secretion.
J Membrane Biology 107, 1-12, 1989 (IF 2.844)
28. F Bussolino, JM Wang, F Turrini, D Alessi, C Costamagna, D Ghigo, GP Pescarmona, A Mantovani, A Bosia

- Stimulation of the Na/H exchanger in human endothelial cells activated by granulocyte- and granulocyte-macrophage colony stimulating factor. Evidence for a role in proliferation and migration.
J Biol Chem 264, 18284-18287, 1989 (IF 7.384)
29. F Bussolino, JM Wang, P Defilippi, F Turrini, F Sanavio, CJS Edgell, M Aglietta, P Arese, A Mantovani:
Granulocyte- and granulocyte-macrophage colony stimulating factor induce human endothelial cells to migrate and proliferate.
Nature 337, 471-473, 1989 (IF 27.074)
30. F Bussolino, E Fischer, F Turrini, MD Kazatchkine, P Arese
Platelet activating factor enhances complement-dependent phagocytosis of diamide-treated erythrocytes by human monocytes through activation of protein kinase C and phosphorylation of complement receptor type one (CR1).
J Biol Chem 263, 21711-21719, 1989 (IF 7.384)
31. P Arese, L Mannuzzu, F Turrini
Pathophysiology of favism.
Folia Haematol 116, 745-752, 1989.
32. G Gaidano, D Ghigo, M Schena, S Treves, F Turrini, F Cappio, A Bosia
Na/H exchange activation mediates the lipopolysaccharide induced proliferation of human B lymphocytes and is impaired in malignant B chronic lymphocytic leukemia lymphocytes.
J Immunol 142, 913-918, 1989 (IF 7.412)
33. G Burckhardt, F Turrini
Regulation of chloride permeability in rat renal brush border membrane vesicles by protein kinase A and G Proteins.
The FASEB J. 3:554-555, 1989 (IF 13.404)
34. G Burckhardt, F Turrini, B Simon
ATP driven transport in intact and reconstituted rat renal brush border membrane vesicles.
Kidney international 35:452, 1989 (IF 3.995)
35. P Arese, F Turrini, S Fasler, HU Lutz
Recent advances in the biochemistry of favism.
Biomed Biochim Acta 49, S284-S288, 1990.
36. D Caracciolo, A Pannocchia, S Treves, D Ghigo, E Gallo, F Bussolino, F Turrini, G Tamponi, A Bosia
Role of Na/H exchange in the GM-CSF-dependent growth of a leukemic cell line.
J Cell Physiol 143, 133-139, 1990. (IF 3.049)
37. P Arese, F Turrini, F Bussolino
Is the increased phagocytosis of malaria infected variant erythrocytes due to early expression of normal senescence markers or to the formation of new and specific removal markers?
Blood Cells 16, 598-561, 1990
38. P Arese, F Turrini, F Bussolino, H Lutz
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Red Blood Cell Ageing (M Magnani, A De Flora, eds) Plenum Press, New York 1991, 317-327.
39. F Turrini, R Faedda, A Satta, M Branca, E Bartoli
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J Nephrol 2, 89-95, 1991.
40. F Turrini, P Arese, J Yuan, PS Low
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J Biol Chem 266, 23611-23617, 1991. (IF 7.384)
41. P Arese, F Turrini, H Ginsburg
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43. P. Arese, FR Mannu, D Megow, F Turrini
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44. E Schwarzer, F Turrini, D Ulliers, G Giribaldi, H Ginsburg, P Arese
Impairment of macrophage functions after ingestion of Plasmodium falciparum-infected erythrocytes or isolated malarial pigment.
J Exper Med 176, 1033-1041, 1992. (IF 15.126)
45. MV Serra, F Mannu, A Matera, F Turrini, P Arese
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FEBS Letters, 311, 67-70, 1992. (IF 3.842)
46. F Turrini, F Mannu, P Arese
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It J Biochem 5/92 (0.207)
47. E Schwarzer, F Turrini, G Giribaldi, P Arese
Phagocytosis of P. falciparum malarial pigment hemozoin by human monocytes inactivates monocyte protein kinase
Biochim Biophys Acta, 1181, 51-54, 1993. (IF 2.5)
48. F Turrini, F Mannu, P Arese, J Yuan, PS Low
Characterization of the autologous antibodies that opsonize erythrocytes with clustered integral membrane proteins.
Blood 81, 3146-3152, 1993. (IF 8.560)
49. A Bosia, D Ghigo, F Turrini, E Nissani, GP Pescarmona, H Ginsburg
Kinetic characterization of Na/H antiport of P Falciparum membrane.
J Cell Physiol 154, 527-534, 1993. (IF 3.049)
50. L Fiori, R Rapelli, S Mirkarimi, P Cappuccinelli, H Ginsburg, F Turrini
Reduced microbicidal and anti tumor activities of human monocytes after ingestion of P Falciparum-infected red blood cells.
Parasite Immunol, 15:647 - 655, 1993 (IF 1.939)
51. F Turrini, E Schwarzer, P Arese
The involvement of malarial pigment toxicity in depression of cellular immunity
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52. F Turrini, F Mannu, M Cappadoro, D Ulliers, G Giribaldi, P Arese
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Biochim. Biophys. Acta 1190 297-303, 1994 (IF 2.5)
53. P Arese, M Cappadoro, G Giribaldi, F Turrini
The malaria G6PD hypotesis revisited.
Parassitology Today, vol 10 no.7, 262 - 264, 1994 (IF 3.296)
54. E Schwarzer, F Turrini, P. Arese
A luminescence method for the quantitative determination of phagocytosis of eythrocytes, of malaria parasitized erythrocytes and of malaria pigment.
Br J Haem, 88, 740-745, 1994 (IF 2.616)
55. F Mannu, P Arese, MD Cappellini, G Fiorelli, M Cappadoro, G Giribaldi, F Turrini
Role of hemichrome binding to erythrocyte membrane in the generation of band 3 alterations in beta thalassemia intermedia erythrocytes.
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56. M Cappadoro, F Turrini G Giribaldi, P Arese, D Ulliers, E O'Brian, L Luzzatto
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- 58 Sechi L, Pinna MP, Sanna P, Turrini F, Zanetti S, Fadda G
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- 61 Ayi K, Cappadoro M, Branca M, Turrini F
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FEBS letters 424. 257-261, 1998
62. De Franceschi L, Turrini F, Mannu F, Ioloscon A
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Experimental Haematology 26,869-873, 1998
- 63.M.Cappadoro, F.Turrini, G Giribaldi, D Ulliers, E O'Brien, L Luzzato, P Arese
Stage dependent expression of P falciparum G-6-PD gene and oxidative Pentosephosphate Patway Activity in parasites grown in normal and G-6-PD deficient erythrocytes.
Blood, 92,1-10, 1998
64. Walter I,Pippia P, Meloni G, Turrini F, Franca M
Simulated microgravity inhibits the genetic expression of interleukin 2 and iots receptor
in mitogen activated T lymphocytes
FEBS letters, accepted on 25-8-1998
65. B Mordmuller, F Turrini, Huayan Long, Peter Kremsner, P Arese
Neutrophils and monocytes from subjects with the mediterranean G6PD variant: effect of Plasmodium falciparum hemozoin on G6PD activity, oxidativa burst and cytokine production
Eur. Cytokine Netw, 9(3) 239-246, 1998
66. Tavazzi D, Comino A, Turrini F, Fiorelli G, Cappellini MD.
Indices of membrane alterations in beta-thalassemic erythrocytes.
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79: de Franceschi L, Turrini F, Honeczarenko M, Ayi K, Rivera A, Fleming MD, Law T, Mannu F, Kuypers FA, Bast A, van der Vijgh WJ, Brugnara C.

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80: Ayi K, Turrini F, Piga A, Arese P.

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96 Andrea Biondani¹, Franco Turrini², Franco Carta³, Alessandro Matté¹, Alida Filippini¹, Angela Siciliano¹, Yves Beuzard⁴, Lucia De Franceschi.

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