# CURRICULUM VITAE di:

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| **Nominativo** | DANIELA NEGRINI |

## Posizione accademica

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| **Macrosettore:** | SCIENZE BIOLOGICHE-05 |
| **Settore Concorsuale:** | D1 |
| **Settore Scientifico Disciplinare:** | BIO09/FISIOLOGIA UMANA |
| **Qualifica:** | PROFESSORE ORDINARIO |
| **Anzianità nel ruolo:** | da Ottobre 2001 |
| **Sede Universitaria:** | Università degli Studi dell'Insubria, Varese |
| **Struttura di afferenza (dipartimento o altro)** | Dipartimento di Medicina e Chirurgia |

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

| Periodo | Fascia | Ateneo |
|---|---|---|
| 1985-98 | Ricercatore | Università degli Studi di Milano |
| 1998-2001 | Professore Associato | Università degli Studi di Milano |
| | | |

## Pubblicazioni Scientifiche

1. MISEROCCHI, G., T. NAKAMURA, E. MARIANI and D. NEGRINI. Pleural liquid pressure over the interlobar, mediastinal and diaphragmatic surfaces of the lung. *Respir. Physiol.* 46: 61-69, 1981.
2. MISEROCCHI, G., E. MARIANI and D. NEGRINI. Role of the diaphragm in setting liquid pressure in serous cavities. *Respir. Physiol.* 50: 381-392, 1982.
3. MISEROCCHI, G., D. NEGRINI, E. MARIANI and M. PASSAFARO. Reabsorption of a saline or plasma induced hydrothorax. *J. Appl. Physiol.* 54:1574-1578, 1983.

4. MISEROCCHI, G., M. PISTOLESI, M. MINIATI, C R.BELLINA, D.NEGRINI and C.GIUNTINI. Pleural liquid pressure gradients and intrapleural distribution of an injected bolus. *J. Appl. Physiol.* 56: 526-532, 1984.

5. MISEROCCHI, G., D. NEGRINI and J. MORTOLA. Comparative features of Starling-lymphatic interaction at the pleural level in mammals. *J. Appl. Physiol.* 56: 1151-1156, 1984.

6. NEGRINI, D., M. PISTOLESI, M. MINIATI, C.R.BELLINA, C. GIUNTINI and G. MISEROCCHI. Regional protein absorption rates from the pleural cavity in dogs. *J. Appl. Physiol.* 58: 2062-2067, 1985.

7. MISEROCCHI, G. and D. NEGRINI. Contribution of Starling and lymphatic flows to pleural liquid exchange in anesthetized rabbits. *J. Appl. Physiol.* 61: 325-330, 1986.

8. MISEROCCHI, G., D. NEGRINI, A. FOGLIO PARA, M. PISTOLESI, C.R. BELLINA and C. GIUNTINI. Kinetics of the intrapleural distribution of the injected bolus. *Respir.Physiol.* 65: 13-27, 1986.

9. NEGRINI, D., C. CAPPELLI, M. MORINI and G. MISEROCCHI. Gravity dependent distribution of parietal subpleural interstitial pressure. *J. Appl. Physiol.* 63: 1912-1918, 1987.

10. MISEROCCHI, G., D. NEGRINI, M. PISTOLESI, C.R. BELLINA, M.C. GILARDI, V. BETTINARDI and F. ROSSITTO. Intrapleural liquid flow down a gravity dependent hydraulic pressure gradient. *J. Appl. Physiol.* 64: 577-584, 1988.

11. MISEROCCHI,G., S.KELLY and D.NEGRINI. Pleural and extrapleural interstitial liquid pressure measured by cannulas and micropipettes. *J. Appl. Physiol.* 65(2): 555-562, 1988.

12. MISEROCCHI,G., D.NEGRINI, S.MUKENGE, P.TURCONI and M.DEL FABBRO. Liquid drainage through the peritoneal diaphragmatic surface. J. Appl. Physiol. 66(4): 1579-1585, 1989.

13. NEGRINI,D. and G.MISEROCCHI. Size related differences in parietal extrapleural and pleural liquid pressure distribution. *J. Appl. Physiol.* 67(5): 1967-1972, 1989.

14. NEGRINI, D., C.GONANO, M. DEL FABBRO and G. MISEROCCHI. Transperitoneal fluid dynamics in rabbit liver. *J. Appl. Physiol.* 69: 625-629, 1990.

15. NEGRINI,D., M.I.TOWNSLEY and A.E.TAYLOR. Hydraulic conductivity and osmotic reflection coefficient of canine parietal pleura in vivo. *J. Appl. Physiol.* 69: 438-442, 1990.

16. MISEROCCHI, G., D. NEGRINI and C. GONANO. Direct measurements of interstitial pulmonary pressure in in-situ lung with intact pleural space. *J. Appl. Physiol.* 69(6): 2168-2174, 1990.

17. MISEROCCHI, G. and D.NEGRINI. Gravity dependence of pleural liquid turnover. Life Science Research in Space. *Fourth European Symposium on Life Science Research,* Trieste, pag. 397-399, 1990.

18. TOWNSLEY, M.I., D. NEGRINI and J.L. ARDELL. Regional blood flow to canine parietal pleura and internal intercostal muscle. *J. Appl. Physiol.* 70: 97-102, 1991.

19. NEGRINI, D., S. MUKENGE, M. DEL FABBRO, C. GONANO and G. MISEROCCHI. Distribution of diaphragmatic lymphatic stomata. *J. Appl. Physiol.* 70: 1544-1549, 1991.

20. MISEROCCHI, G. and D. NEGRINI. Pleural lymphatics as regulators of pleural fluid dynamics. In: *News in Physiological Sciences*, ed. by I.U.P.S. and A.P.S., Vol. 6, pp.153-158, 1991.

21. MISEROCCHI, G., D. NEGRINI and C. GONANO. Parenchymal stress affects interstitial and pleural pressures in in-situ lung. *J. Appl. Physiol.* 71: 1967-1972, 1991.

22. NEGRINI, D., R.K. REED and G. MISEROCCHI. Permeability-surface area product and reflection coefficient of parietal pleura in dogs. *J. Appl. Physiol.* 71: 2543-2547, 1991.

23. NEGRINI, D., C. GONANO and G. MISEROCCHI. Microvascular pressure profile in intact in situ lung. *J.Appl. Physiol.* 72: 332-339, 1992.

24. NEGRINI, D. Is the microvascular resistance large in the lung ? *J. Appl.Physiol.* 73: 2723, 1992.

25. NEGRINI, D., M. DEL FABBRO, C.GONANO, S. MUKENGE and G. MISEROCCHI. Distribution of diaphragmatic lymphatic lacunae. *J. Appl. Physiol.* 72: 1166-1172, 1992.

26. MISEROCCHI, G., D. VENTUROLI, D. NEGRINI, M.C. GILARDI and R. BELLINA. Intrapleural fluid movements described by a porous flow model. *J. Appl. Physiol.* 73: 2511-2516, 1992.

27. NEGRINI, D., M.DEL FABBRO and D.VENTUROLI. Fluid exchanges across the parietal peritoneal and pleural mesothelia. *J.Appl. Physiol.* 74: 1779-1784, 1993.

28. MISEROCCHI, G., D. NEGRINI, M. DEL FABBRO and D. VENTUROLI. Pulmonary interstitial pressure in intact in situ lung: the transition to interstitial edema. *J. Appl. Physiol.* 74: 1171-1177, 1993.

29. MISEROCCHI, G., D. VENTUROLI, D. NEGRINI , M.DEL FABBRO. Model of pleural fluid turnover. *J Appl Physiol* 75: 1798-1806, 1993.

30. NEGRINI, D., D.VENTUROLI, M.I.TOWNSLEY and R.K.REED. Permeability of the parietal pleura to liquid and proteins. *J.Appl.Physiol.* 76: 627-633, 1994.

31. NEGRINI, D., S.T.BALLARD and J.N.BENOIT. Contribution of lymphatic miogenic activity and of respiratory movements to pleural lymph flow. *J.Appl.Physiol.* 76: 2267-2274, 1994.

32. VENTUROLI, D., B.CRISAFULLI, M.DEL FABBRO, D.NEGRINI and G.MISEROCCHI. Estimation of in-vivo pulmonary microvascular and interstitial geometry using digital image analysis. *Microcirculation.* 2(1): 1-14, 1995.

33. NEGRINI, D. Pulmonary microvascular pressure profile during development of hydrostatic edema. *Microcirculation.* 2(2): 1-8, 1995.

34. NEGRINI, D., S.T.BALLARD and J.N.BENOIT. Mechanisms involved in pleural liquid turnover. *J.Appl.Physiol.* 78 (6): 2329-2330, 1995.

35. NEGRINI, D., A.PASSI, G. DE LUCA and G.MISEROCCHI. Pulmonary interstitial pressure and proteoglycans during development of pulmonary edema. *Am.J.Physiol.* 270 *(Heart Circ. Physiol.* 39*)*, 1996.

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38. VENTUROLI, D., P. SEMINO, D. NEGRINI and G. MISEROCCHI. Respiratory mechanics after 180 days space mission (EuroMir '95). *Acta Astronautica*, 42:185-204, 1998.

39. PASSI, A., D.NEGRINI, R. ALBERTINI, G. MISEROCCHI and G.DE LUCA. The sensitivity of versican from rabbit lung to gelatinase A (MMP-2) and B (MMP-9) and its involvement in the development of hydraulic lung edema. *FEBS Letter* 456: 93-96, 1999.

40. NEGRINI, D. and M. DEL FABBRO. Subatmospheric pressure in the rabbit pleural lymphatic network. *Journal of Physiology*, 520.3: 761-769, 1999.

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43. MISEROCCHI, G., D.NEGRINI, A. PASSI, and G. DE LUCA. Development of lung edema: interstitial fluid dynamics and molecular structure. *News in Physiological Sciences*, ed. by I.U.P.S. and A.P.S., Vol. 16, pp.66-70, 2001.

44. NEGRINI, D., A. CANDIANI, F. BOSCHETTI, B. CRISAFULLI, M. DEL FABBRO, D. BETTINELLI and G. MISEROCCHI. Pulmonary microvascular and perivascular interstitial geometry during development of mild hydraulic edema. *Am J Physiol (Lung Cell Mol Physiol 281)*, L1464-L1471, 2001.

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46. NEGRINI, D., O.TENSTAD, H. WIIG. Interstitial exclusion of albumin in rabbit lung during development of pulmonary oedema. *J Physiol.* 548.3, 907-917, 2003.

47. NEGRINI, D., A. MORIONDO, S.MUKENGE. Transmural pressure during cardiogenic oscillations in rodent diaphragmatic lymphatic vessels. *Lymphatic Research and Biology*, 2(2):-69-81, 2004.

48. MORIONDO A., S.MUKENGE, D.NEGRINI. Transmural pressare in rat initial subpleural lymphatics during spontaneous or mechanical ventilation. *Am. J. Physiol. (Heart and Circulatory System)*, 289:263-269, 2005

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51. NEGRINI D. Lymph flow modulation: the tricks of a performant machinery. J Physiol. 575: 687; 2006.

52. MORIONDO A., GRIMALDI A:, SCIACCA L, GUIDALI M.L., .MARCOZZI. C., D. NEGRINI. Regional rectruitment of rat diaphragmatic lymphatics in response to increased pleural or peritoneal fluid load. *J Physiol, London*. 579: 835-847, 2007

53. NEGRINI, D. PASSI A. Interstitial matrix and transendothelial fluxes in normal lung. *Respir Physiol Neurobiol*, 159 : 301-310, 2007.

54. PELOSI P, ROCCO PRM, NEGRINI D, PASSI A. The extracellular matrix of the lung and its role in edema formation. *An Acad Bras Cienc* , 79: 285-297 , 2007

55. MORIONDO A., PELOSI P., PASSI A., VIOLA M., MARCOZZI C., SEVERGNINI P, OTTANI V., QUARANTA M., NEGRINI D. Proteoglycan fragmentation and respiratory mechanics in mechanically ventilated healthy rats. *J. Appl. Physiol.* 103:747-756, 2007

56. MUKENGE S, PULITANÒ C, COLOMBO R, NEGRINI D, FERLA G. Secondary scrotal lymphedema: a novel microsurgical approach. Microsurgery. 27(8):655-6, 2007.

57. PELOSI , P. NEGRINI, D. Extracellular matrix and mechanical ventilation in healthy lungs: back to baro/volotrauma ? *Current Opinion in Critical Care* 14:16-21, 2008.

58. NEGRINI D, PASSI A, MORIONDO A. The role of proteoglycans in pulmonary edema development. *Intensive Care Med* 34(4):610-8. 2008

59. VIGETTI D, ANDRINI O, CLERICI M, NEGRINI D, PASSI A, MORIONDO A. Chondroitin sulfates act as extracellular gating modifiers on voltage-dependent ion channels. *Cell Physiol Biochem* 22 (1-4): 137-46, 2008.

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61. MORIONDO A, BOSCHETTI F, BIANCHIN F, LATTANZIO S, MARCOZZI C, NEGRINI D. Tissue Contribution to the Mechanical Features of Diaphragmatic Initial Lymphatics. *J Physiol.* 588.20: 3957–3969, 2010

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63. NEGRINI, D, A. MORIONDO. Lymphatic anatomy and biomechanics. J Physiol. 2011 Jun 15;589(Pt 12):2927-34. Epub 2011 Apr 11.

64. MORIONDO A, MARCOZZI C, BIANCHIN F, PASSI A, BOSCHETTI F, LATTANZIO S, SEVERGNINI P, PELOSI P, NEGRINI D. Impact of respiratory pattern on lung mechanics and interstitial proteoglycans in spontaneously breathing anesthetized healthy rats. Acta Physiol (Oxf). 2011 Apr 22. doi: 10.1111/j.1748-1716.2011.02317.x. [Epub ahead of print]

65. NEGRINI, D. The lymphatic vessels' winning philosophy: different challenges, tailored solutions. J Physiol. 2011 Dec 15;589(Pt 24):5905

66. MORIONDO A, MARCOZZI C, BIANCHIN F, REGUZZONI M, SEVERGNINI P, PROTASONI M, RASPANTI M, PASSI A, PELOSI P, NEGRINI D. Impact of mechanical ventilation and fluid load on pulmonary glycosaminoglycans. Respir Physiol Neurobiol. 2012 Mar 29. [Epub ahead of print]

67. NEGRINI D, MORIONDO A. Pleural Function And Lymphatics. Acta Physiol (Oxf). 2012 207(2):244-59.

68. MUKENGE S, NEGRINI D, CATENA M, RATTI F, DOSIO F, PAESANO P, RIGATTI P, FERLA G. Development of functionally patent lymphatic meshes in postsurgical long-term resolution of peripheral secondary lymphedema.J Vasc Surg Venous Lymphat Disord. 2013 Jul 1(3):280-8
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71. SILVA PL, NEGRINI D, ROCCO PR Mechanisms of ventilator-induced lung injury in healthy lungs. Best Pract Res Clin Anaesthesiol. 2015 Sep; 29(3):301-13.
72. NEGRINI D, MARCOZZI C, SOLARI E, BOSSI E, CINQUETTI R, REGUZZONI M, MORIONDO A Hyperpolarization-activated cyclic nucleotide-gated channels in peripheral diaphragmatic lymphatics. Am J Physiol Heart Circ Physiol. 2016 Oct 1;311(4): H892-H903.
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74. FILPA V, CARPANESE E, MARCHET S, PIRRONE C, CONTI A, RAINERO A, MORO E, CHIARAVALLI AM, ZUCCHI I, MORIONDO A, NEGRINI D, CREMA F, FRIGO G, GIARONI C, PORTA G. Nitric oxide regulates homeoprotein OTX1 and OTX2 expression in the rat myenteric plexus after intestinal ischemia-reperfusion injury. Am J Physiol Gastrointest Liver Physiol. 2017 Apr 1;312(4):G374-G389. 2017 .
75. SOLARI E, MARCOZZI C, NEGRINI D, MORIONDO A. Fluid Osmolarity Acutely and Differentially Modulates Lymphatic Vessels Intrinsic Contractions and Lymph Flow. Front Physiol. 2018 Jul 5;9:871. doi: 10.3389/fphys.2018.00871. 2018.

## Titoli [1]

| | |
|---|---|
| 2005-2010 | Componente Comitato Tecnico-Scientifico del Centro di Servizi "Sistema di supporto alla ricerca, innovazione e trasferimento tecnologico – SiSRIT" |
| 2007-2013 | Vice Direttore del Dipartimento di Scienze Biomediche Sperimentali e Cliniche |
| 2008-2011 | Componente nel Comitato Etico di Ateneo per la Sperimentazione Animale |
| 2009-2013 | Componente del Nucleo di Valutazione di Ateneo |
| 2008-2016 | Coordinatore del Dottorato di Ricerca in Fisiologia Sperimentale e Clinica |
| Dal 2016 | Coordinatore del Dottorato di Ricerca in Medicina Sperimentale e Traslazionale |
| Dal 2016 | Presidente del Corso di Laurea in Tecniche di Radiologia Medica per Immagini e Radioterapia |
| Dal 2019 | Direttore della Scuola di Dottorato dell'Università degli Studi dell'Insubria |

Fa parte del comitato redazionale di riviste scientifiche internazionali con peer Review: *Journal of Physiology, Journal of Applied Physiology, American Journal of Physiology, Microcirculation, Lymphatic Research and Biology, Respiration Physiology and Neurobiology, Lung, F1000, Journal of Thoracic Disease, Bullettin of Mathematical Biology PLOS-One*

E' stata revisore di progetti di ricerca per Enti quali: *Ministero dell'Università e della Ricerca (MIUR e SIR), European Space Agency (ESA), Cancer Research UK, Ecole Politechnique, Losanna.*

- Ha organizzato e presieduto lo svolgimento del 61° Congresso della Società Italiana di Fisiologia.
- Dal 2018 è Componente della Giunta del Collegio dei Professori Ordinari di Fisiologia

**COLLABORAZIONI INTERNAZIONALI**

- Prof. Aubrey Taylor, University of South Alabama, Mobile, USA
- Prof. Mary Townsley, University of South Alabama, Mobile, USA

[1] In via esemplificativa sono indicate alcune voci

- Prof. Jahar Bhattacharja, Columbia University, New York, USA
- Prof. Matthew Glucksberg, Northwestern University, Chicago, USA
- Prof. Melody Swartz, University of Chicago, Chicago USA
- Prof. David Zawieja, Texas A&M University, Temple, Texas, USA
- Prof Rolf K Reed,, University of Bergen, Norway
- Prof. Helge Wiig, University of Bergen, Norway

**RELATORE E/O CHAIRMAN**
- XXXII Congress of IUPS, Glasgow, 1993
- Annual Fall Meeting of the Biomedical Engeneering Society, 1994
- First Congress of the Federation of European Physiological Society, 1995
- Annual Fall Meeting of the Biomedical Engeneering Society, 1995
- New Perspectives in Microvascular Fluid Exchanges, a Hundred Years after Starling, 1996
- XXXIII I.U.P.S. Congress San Petersburg,1997
- 22nd Meeting of the European Society for Microcirculation. Exeter, 2002
- Gordon Research Conferences: Molecular Mechanisms of Lymphatic Function, Ventura CA, 2004
- World Congress of the Biomechanical Society, Munich, 2006
- Meeting of the Biomechanical Society (BMES), Chicago, 2006
- Gordon Research Conferences: Molecular Mechanisms of Lymphatic Function, Ventura CA, 2008
- 25th Conference of the European Society for Microcirculation, Budapest, 2008
- International Anesthesia Research Society (IARS) Annual Meeting San Diego, CA 2009
- 26th World Conference on Microcirculation, Paris, 2010
- The European Anaesthesiology Congress, Helsinky, 2010
- 31st International Symposium on Intensive Care and Emergency Medicine, Bruxellex 2011
- Journal of Physiology Symposium-ISICE, Bruxelles 2011
- Gordon Research Conferences: Molecular Mechanisms of Lymphatic Function, 2014

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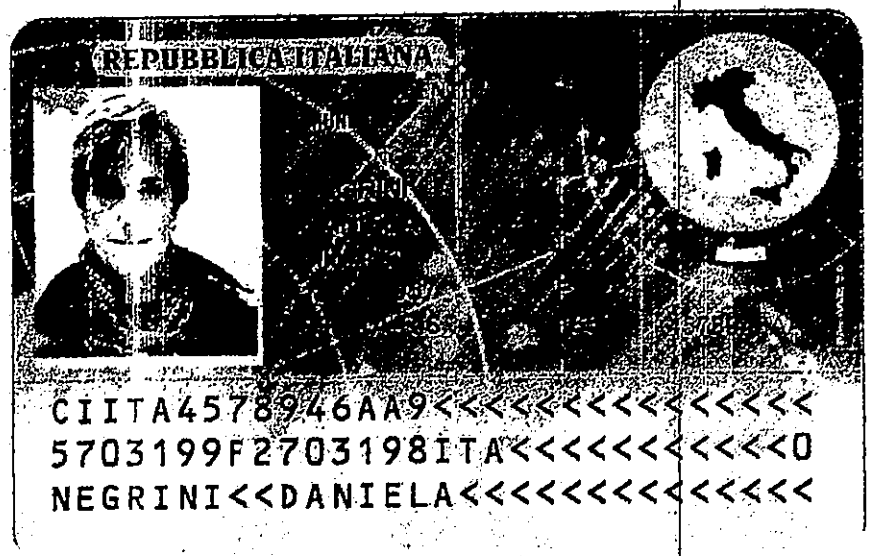
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