

# Nicoletta Gagliano

## Associated Professor

### Education

Biological Sciences degree, Università degli Studi di Milano, Italy, 1992  
PhD degree, Physiopathology of Aging, Università degli Studi di Milano, 1998

### Academic Appointments

Associate Professor, Histology, Medical School, Università degli Studi di Milano (2010- currently)  
Assistant Professor, Human Anatomy, Medical School, Università degli Studi di Milano (2002-2010)

Member of the Translational Medicine PhD program.

### Most recent full papers

1) *Morphological and molecular characterization of human hamstrings shows that tendon features are not influenced by donor age.* **Gagliano N**, Menon A, Cabitza F, Compagnoni R, Randelli P. *Knee Surgery, Sports Traumatology, Arthroscopy* 2017, in press. doi: 10.1007/s00167-017-4661-0.

2) *3D-spheroids: What can they tell us about pancreatic ductal adenocarcinoma cell phenotype?* **Gagliano N**, Sforza C, Sommariva M, Menon A, Conte V, Sartori P, Procacci P. *Exp Cell Res* 357: 299-309, 2017.

3) *Epithelial-to-mesenchymal transition in pancreatic ductal adenocarcinoma: characterization in a 3D-cell culture model.* **Gagliano N**, Celesti G, Tacchini L, Pluchino S, Sforza C, Rasile M, Valerio V, Laghi L, Conte V, Procacci P. *World J Gastroenterol* 22: 4466-4483, 2016.

4) *Mechanical power and development of ventilator-induced lung injury.* Cressoni M, Gotti M, Chiurazzi C, Massari D, Algieri I, Amini M, Cammaroto A, Brioni M, Montaruli C, Nikolla K, Guanziroli M, Dondossola D, Gatti S, Valerio V, Vergani GL, Pugni P, Cadringer P, **Gagliano N**, Gattinoni L. *Anesthesiology* 124: 1100-8, 2016.

5) *Lung inhomogeneities and time course of ventilator-induced mechanical injuries.* Cressoni M, Chiurazzi C, Gotti M, Amini M, Brioni M, Algieri I, Cammaroto A, Rovati C, Massari D, Bacile di Castiglione C, Nikolla K, Montaruli C, Lazzarini M, Dondossola D, Colombo A, Gatti S, Valerio V, **Gagliano N**, Carlesso E, Gattinoni L. *Anesthesiology* 123:618-27, 2015.

6) *Human palate and tuberosity mucosa as donor sites for ridge augmentation.* Dellavia C, Ricci G, Pettinari L, Allievi C, Grizzi F, **Gagliano N**. *International Journal of Periodontics & Restorative Dentistry* 34:179-186, 2014.

7) *New insights in extracellular matrix remodeling and collagen turnover related pathways in cultured human tenocytes after Ciprofloxacin administration.* A. Menon, L. Pettinari, C. Martinelli, G. Colombo, N. Portinaro, I. Dalle-Donne, M.C. d'Agostino, **N. Gagliano**. *Muscle, Ligaments and Tendons Journal* 3: 122-131, 2013.

8) *Isolation and characterization of 2 new human rotator cuff and long head of biceps tendon cells possessing stem cell-like self-renewal and multipotential differentiation capacity.* P. Randelli, E. Conforti, M. Piccoli, V. Ragone, P. Creo, F. Cirillo, P. Masuzzo, C. Tringali, P. Cabitza, G. Tettamanti, **N. Gagliano**, L. Anastasia. *Am J Sports Med.* 41:1653-64, 2013.

9) *Oxidative damage in human gingival fibroblasts exposed to cigarette smoke.* G. Colombo, I. Dalle-Donne, M. Orioli, D. Giustarini, R. Rossi, M. Clerici, L. Regazzoni, G. Aldini, A. Milzani, DA. Butterfield, **N. Gagliano**. *Free Radical Biology & Medicine* 52:1584-1596, 2012.

10) *Tendon structure and extracellular matrix components are affected by spasticity in cerebral palsy patients.* **N. Gagliano**, A. Menon, C. Martinelli, L. Pettinari, A. Panou, A. Milzani, I. Dalle-Donne, N. Portinaro. *Muscle, Ligaments and Tendons Journal* 3: 42-50, 2013.

### Main research topics

Nicoletta Gagliano, PhD, is the director of the Extracellular Matrix Lab at the Department of Biomedical Sciences for Health of the University of Milan, Italy. She is a molecular biologist with high experience in cell cultures, gene and protein expression analysis, and morphologic methods. The field of research is related to the study of the expression of genes and proteins involved in extracellular matrix remodeling and collagen turnover in different pathological conditions, such as fibrosis, gingival overgrowth, tumor invasion, tendon pathology. Recently, the main field of interest was mainly focused on the study of epithelial-to-mesenchymal transition during the carcinogenesis process, with particular attention to the analysis of the phenotype of pancreatic ductal adenocarcinoma cells and their cross-talk with the extracellular matrix in the stroma.

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