Supportive material

Publications in scientific journals

- **D. Manou**, P. Bouris, D. Kletsas, M. Götte, B. Greve, A. Moustakas, N.K. Karamanos, A.D. Theocharis, Serglycin activates pro-tumorigenic signaling and controls glioblastoma cell stemness, differentiation and invasive potential, Matrix Biology Plus 6-7 (2020) 100033.

- **D. Manou**, N.K. Karamanos, A.D. Theocharis, Tumorigenic functions of serglycin: Regulatory roles in epithelial to mesenchymal transition and oncogenic signaling, Seminars in cancer biology (2019)
- D. Theocharis, **D. Manou**, N.K. Karamanos. Multitasking roles for extracellular matrix in disease. The FEBS Journal. doi: 10.1111/febs.14818 (2019)
- **Manou D.,** Caon, I., Bouris, P., Triantaphyllidou, I-E., Giaroni, C., Passi, A., Karamanos N.K., Vigetti, D., Theocharis A.D. The complex interplay between extracellular matrix and cells in tissues. Methods in molecular biology 1925, doi: 10.1007/978-1-4939-9133-4_1 (2019)
- P. Bouris, **D. Manou**, A. Sopaki-Valalaki, A. Kolokotroni, A. Moustakas, A. Kapoor, R.V. Iozzo, N.K. Karamanos, A.D. Theocharis, Serglycin promotes breast cancer cell aggressiveness: Induction of epithelial to mesenchymal transition, proteolytic activity and IL-8 signaling, Matrix Biology (2018)
- Piperigkou, Z., **Manou, D**., Karamanou, K. & Theocharis, A. D. Strategies to Target Matrix Metalloproteinases as Therapeutic Approach in Cancer. *Methods in molecular biology* 1731, 325-348, doi:10.1007/978-1-4939-7595-2_27 (2018)

Chapters in International Books

- **Manou, D.**, Caon, I., Bouris, P., Triantaphyllidou, I-E., Giaroni, C., Passi, A., Karamanos N.K., Vigetti, D., Theocharis A.D. The complex interplay between extracellular matrix and cells in tissues. In: Vigetti D., Theocharis A. (eds) The extracellular matrix: Methods and Protocols. Springer Science+ Business media, LLC, part of Springer Nature (2019)
- Piperigkou, Z., **Manou, D.**, Karamanou, K. & Theocharis, A. D. Strategies to Target Matrix Metalloproteinases as Therapeutic Approach in Cancer. In: Cal S., Obaya A. (eds) Proteases and Cancer. Humana Press, New York, NY (2018)

Oral Presentations

In International Conferences

- *Serglycin drives the malignant phenotype affecting cell properties, inflammation and signalling.* ***D. Manou****, P. Bouris, M. Golfinopoulou, A. D. Theocharis. FEBS Advanced Lecture Course.* "Matrix Pathobiology, Signaling and Molecular Targets" (7th FEBS-MPST 2019), 02-07 May 2019, Porto Heli, Greece.
- *Serglycin is an accomplice of the aggressiveness of glioblastoma cells.* ***D.Manou****, P.Bouris, D.Kletsas, N.K. Karamanos, A.D.Theocharis.* FEBS Advanced Lecture Course. "Extracellular Matrix: Cell regulation, Epigenetics and Modeling" (FEBS-ECM 2018), 27 Sep-02 Oct 2018, Patras, Greece.
- *Suppression of serglycin decreases glioblastoma cell aggressiveness.* **D. Manou**, P. Bouris, D. Kletsas, T.M. Reine, S.O. Kolset, A.D. Theocharis. FEBS Advanced Lecture Course. "Matrix Pathobiology, Signaling and Molecular Targets" (6th FEBS-MPST 2017), 25-30 May 2017,

Spetses, Greece.

- *Serglycin as a key proteoglycan in cellular effectors, signaling and functional properties of ERalpha silenced breast cancer cells.* Achilleas D.Theocharis, Panagiotis Bouris, Anastasia Sopaki-Valalaki, **Dimitra Manou**, Anthi Kolokotroni, Aris Moustakas, Nikos K.Karamanos. 2nd MBE (Matrix Biology Europe) Conference, 11-14 June 2016, Athens, Greece.
- *Tumorogenic role of serglycin in breast cancer cells.* P.Bouris, A.Kolokotroni, A.Sopaki-Valalaki, **D.Manou**, N.K. Karamanos, A.D. Theocharis. FEBS Advanced Lecture Course. "Matrix Pathobiology, Signaling and Molecular Targets" (5th FEBS-MPST), 24-29 September, Rhodes, Greece.

In Panhellenic Conferences

- *Serglycin instigates the aggressive phenotype of glioblastoma cells.* ***Dimitra Manou****, Panagiotis Bouris, Dimitris Kletsas, Nikos K.Karamanos, Achilleas Theocharis.* 69th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 23-25 November 2018, Larissa, Greece.
- *The emerging role of serglycin as a regulator of glioblastoma cell aggressiveness.* **Dimitra Manou**, Panagiotis Bouris, Dimitris Kletsas, Trine M. Reine, Svein O. Kolset, Nikos K. Karamanos, Achilleas D. Theocharis. 5th Annual New Scientists' Forum of Hellenic Society of Biochemistry and Molecular Biology, 9 November 2017, Athens, Greece.
- *Serglycin acts as a tumorigenic factor in several cellular aspects of breast cancer cells.* Panagiotis Bouris, Anthi Kolokotroni, Anastasia Sopaki-Valalaki, **Dimitra Manou**, Nikos K.Karamanos, Achilleas D. Theocharis. 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 11-13 December 2015, Athens, Greece.
- *ERα mediates epithelial to mesenchymal transition and expression of specific matrix effectors in breast cancer cells.* Panagiotis Bouris, Spyros S. Skandalis, Zoi Piperigkou, **Dimitra Manou**, Aristidis Moustakas, Achilleas D. Theocharis, Nikos K. Karamanos. 65th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 28-30 November 2014, Thessaloniki, Greece.

Posters

In International Conferences

- The 44th FEBS Congress, 6-11 July 2019, Krakow, Poland
  - Loss of proteoglycan serglycin represses aggressive characteristics of glioblastoma cells. **D. Manou**, P. Bouris, D. Kletsas, M. Götte, B. Greve, N. K. Karamanos, A. D. Theocharis
- FEBS Advanced Lecture Course. "Extracellular Matrix: Cell regulation, Epigenetics and Modeling" (FEBS-ECM 2018), 27 Sep-02 Oct 2018, Patras, Greece.
  - *Serglycin is an accomplice of the aggressiveness of glioblastoma cells.* ***D.Manou****, P.Bouris, D.Kletsas, N.K. Karamanos, A.D.Theocharis.*
- FEBS Advanced Lecture Course. "Matrix Pathobiology, Signaling and Molecular Targets". (6thFEBS-MPST 2017), 25-30 May 2017, Spetses, Greece.
  - *Suppression of serglycin decreases glioblastoma cell aggressiveness.* **D. Manou**, P.Bouris, D. Kletsas, T.M. Reine, S.O. Kolset, A.D. Theocharis.
  - *Src kinases affect aggressiveness and the expression of proteolytic network molecules in ERα suppressed breast cancer cells.* A. Papargyriou, Z. Piperigkou, P. Bouris, **D. Manou**, N.K. Karamanos, A.D. Theocharis.
- 2ndMBE (Matrix Biology Europe) Conference, 11-14 June 2016, Athens, Greece.
  - *The effect of serglycin's suppression on various cellular aspects of glioblastoma cell line LN-18.* **Dimitra Manou**, Panagiotis Bouris, Anastasia Sopaki-Valalaki, Anthi Kolokotroni, Achilleas D. Theocharis.
  - *Inhibition of intracellular kinases affects cell aggressiveness and expression of proteolytic*

network molecules in ERα suppressed breast cancer cells. A. Papargyriou, A. Sopaki-Valalaki, P. Bouris, **D. Manou**, A. Moustakas, N.K. Karamanos, A.D. Theocharis.

- *Suppression of ERα induces the activation of TGF-β and IL-8 pathways in breast cancer cells.* A. Sopaki-Valalaki, A. Moustakas, P. Bouris, **D. Manou**, A. Kolokotroni, N.K. Karamanos, A.D. Theocharis.

- FEBS Advanced Lecture Course. 'Matrix Pathobiology, Signaling and Molecular Targets' (5th FEBS-MPST 2015), September 24-29 2015, Rhodes, Greece
  - *Suppression of serglycin affects cell behaviour and gene expression of glioblastoma cell lines*. **D. Manou**, P. Bouris, A. Sopaki-Valalaki, A. Kolokotroni, A.D. Theocharis.
  - *The inhibition of IL-8 pathway reduces the aggressiveness of ERα suppressed MCF-7 breast cancer cells*. A. Sopaki-Valalaki, P. Bouris, **D. Manou**, A. Kolokotroni, N.K. Karamanos, A.D. Theocharis.
  - *Tumorogenic role of serglycin in breast cancer cells.* P.Bouris, A.Kolokotroni, A.Sopaki-Valalaki, **D.Manou**, N.K Karamanos, A.D.Theocharis.

In Panhellenic Conferences

- 7th Annual New Scientists' Forum of Hellenic Society of Biochemistry and Mollecular Biology, 28 November 2019 & 70th Congress of the Hellenic Society of Biochemistry and Molecular Biology (HSBMB), 29 November -01 Decemner 2019, Athens, Greece
  - *Serglycin modulates the aggressive behaviour and differentiation of glioblastoma cells*. **Dimitra Manou**, Maria Aggeliki Golfinopoulou, Panagiotis Bouris, Dimitris Kletsas, Martin Goette, Burkhard Greve, Nikos N. Karamanos, Achilleas D. Theocharis
  - *Serglycin and HER-2 regulate the migratory and proteolytic properties of glioblastoma cells LN-18*. Maria Aggeliki Golfinopoulou, **Dimitra Manou**, Nikos K. Karamanos, Achilleas D. Theocharis.
- 6th Annual New Scientists' Forum of Hellenic Society of Biochemistry and Molecular Biology, 22 November 2018, Larissa, Greece.
  - *Serglycin instigates the aggressive phenotype of glioblastoma cells.* ***Dimitra Manou****, Panagiotis Bouris, Dimitris Kletsas, Nikos K.Karamanos, Achilleas Theocharis.*
- 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 9 November 2017, Athens.
  - *The emerging role of serglycin as a regulator of glioblastoma cell aggressiveness.* **Dimitra Manou**, Panagiotis Bouris, Dimitris Kletsas, Trine M. Reine, Svein O. Kolset, Nikos K. Karamanos, Achilleas D. Theocharis.
- 67th Congress of the Hellenic Society of Biochemistry and Molecular Biology (HSBMB), 25-27 November 2016, Ioannina. &
- 4th Annual New Scientists' Forum of HSBMB, 24 November 2016, Ioannina.
  - *Serglycin acts as a promoter of aggressiveness in breast cancer cells.* Anti Kolokotroni, Panagiotis Bouris, Anastasia Sopaki-Valalaki, **Dimitra Manou**, Xenia Didimioti, Angeliki Meintani, Nikos K. Karamanos, Achilleas D. Theocharis.
  - *Suppression of ERα induces the activation of TGF-β and IL-8 pathways in breast cancer cells.* Anastasia Sopaki-Valalaki, Aristidis Moustakas, Panagiotis Bouris, **Dimitra Manou**, Anthi Kolokotroni, Nikos K. Karamanos, Achilleas D. Theocharis.
- 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology (HSBMB), 11-13 December 2015, Athens.
  - *The impact of serglycin's suppression on the behavior and the gene expression of GBM cell lines*. **Dimitra Manou**, Panagiotis Bouris, Anastasia Sopaki-Valalaki, Anthi Kolokotroni, Achilleas D.Theocharis.
  - *Effect of IL-8 signaling pathway in functional properties of ERα suppressed MCF-7 cells.* Anastasia Sopaki-Valalaki, Panagiotis Bouris, **Dimitra Manou**, Anthi Kolokotroni, Nikos K.

Karamanos, Achilleas D. Theocharis

- *Serglycin acts as a tumorigenic factor in several cellular aspects of breast cancer cells.* Panagiotis Bouris, Anthi Kolokotroni, Anastasia Sopaki-Valalaki, **Dimitra Manou**, Nikos K. Karamanos, Achilleas D. Theocharis

- 3th Annual New Scientists' Forum of HSBMB, 10 December 2015, Athens.
  - *The impact of serglycin's suppression on the behavior and the gene expression of GBM cell lines*. **Dimitra Manou**, Panagiotis Bouris, Anastasia Sopaki-Valalaki, Anthi Kolokotroni, Achilleas D.Theocharis.
  - *Effect of IL-8 signaling pathway in functional properties of ERα suppressed MCF-7 cells.* Anastasia Sopaki-Valalaki, Panagiotis Bouris, **Dimitra Manou**, Anthi Kolokotroni, Nikos K. Karamanos, Achilleas D. Theocharis