



### Personal information

<b>Surname</b>	Theocharis
<b>Name</b>	Achillefs
<b>Date of birth</b>	25 December 1971
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### Current Position

**09.2019 -** **Professor of Biochemistry & Molecular Biology**, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece

### Previous Positions

**12.2014 - 09.2019** **Associate Professor**, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece

**08.2008 - 12.2014** **Assistant Professor**, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece

**05.2012 - 06.2012** **Visiting Professor**, Laboratory CRRET, University Paris 12 (UPEC), Paris, France

**08.2008 - 03.2009** **Visiting Professor**, Ludwig Institute for Cancer Research, Uppsala Branch, Uppsala, Sweden

**12.2003 - 08.2008** **Lecturer**, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece

**2002 - 2003** **Postdoctoral Researcher**, Karolinska Institute, Department of Immunology, Microbiology and Infectious Diseases, Sweden

**03.2000 - 08.2002** **Postdoctoral Researcher**, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece

**1998 - 1999** **Visiting Researcher**, Karolinska Institute, Department of Immunology, Microbiology and Infectious Diseases, Sweden

**1996** **Visiting Researcher**, Department of Cell and Molecular Biology, Section for Connective Tissue Biology, Lund University, Sweden

### Education

**10.1994 - 01.2000** Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece "Study of proteoglycans in abdominal aortic aneurysm with biochemical, immunohistochemical and molecular biology methods" **Ph.D. in Biochemistry**

**09.1990 - 09.1994** Department of Chemistry, University of Patras, Greece, **Chemist**

### Publications

20 Selected publications out of 108 published articles  
(<https://www.scopus.com/authid/detail.uri?authorId=7003720000>)

1. Tellez-Gabriel M, Tekpli X, Reine TM, Hegge B, Nielsen SR, Chen M, Moi L, Normann LS, Busund LR, Calin GA, Mælandsmo GM, Perander M, **Theocharis AD**, Kolset SO, Knutsen E. Serglycin Is Involved in TGF- $\beta$  Induced Epithelial-Mesenchymal Transition and Is Highly Expressed by Immune Cells in Breast Cancer Tissue. **Front Oncol.** 2022 Apr 14;12:868868. doi: 10.3389/fonc.2022.868868. (**Impact Factor: 6.2**)
2. Manou D, Bouris P, Kletsas D, Götte M, Greve B, Moustakas A, Karamanos NK, **Theocharis AD**. Serglycin activates pro-tumorigenic signaling and controls glioblastoma cell stemness, differentiation and invasive potential. **Matrix Biol Plus.** 2020 Mar 11;6-7:100033. (**Impact Factor: -**)

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3. Manou D, Karamanos NK, **Theocharis AD**. Tumorigenic functions of serglycin: Regulatory roles in epithelial to mesenchymal transition and oncogenic signaling. **Semin Cancer Biol.** 2019 Jul 4. pii: S1044-579X(19)30040-9. doi: 10.1016/j.semcancer.2019.07.004. (**Impact Factor: 15.7**)
  4. **Theocharis AD**, Manou D, Karamanos NK. The extracellular matrix as a multitasking player in disease. **FEBS J.** 2019 Aug;286(15):2830-2869. (**Impact Factor: 5.5**)
  5. Karamanos NK, Piperigkou Z, **Theocharis AD**, Watanabe H, Franchi M, Baud S, Brézillon S, Götte M, Passi A, Vigetti D, Ricard-Blum S, Sanderson RD, Neill T, Iozzo RV. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. **Chem Rev.** 2018 Sep 26;118(18):9152-9232. (**Impact Factor: 60.6**)
  6. Bouris P, Manou D, Sopaki-Valalaki A, Kolokotroni A, Moustakas A, Kapoor A, Iozzo RV, Karamanos NK, **Theocharis AD**. Serglycin promotes breast cancer cell aggressiveness: Induction of epithelial to mesenchymal transition, proteolytic activity and IL-8 signaling. **Matrix Biol.** 2018 May 26. pii: S0945-053X(18)30163-X. doi: 10.1016/j.matbio.2018.05.011. (**Impact Factor: 11.5**)
  7. **Theocharis AD**, Karamanos NK. Proteoglycans remodeling in cancer: Underlying molecular mechanisms. **Matrix Biol.** 2017 Nov 8. pii: S0945-053X(17)30313-X. doi: 10.1016/j.matbio.2017.10.008. (**Impact Factor: 11.5**)
  8. Afratis NA, Bouris P, Skandalis SS, Mulhaupt HA, Couchman JR, **Theocharis AD**, Karamanos NK. IGF-IR cooperates with ER $\alpha$  to inhibit breast cancer cell aggressiveness by regulating the expression and localisation of ECM molecules. **Sci Rep.** 2017 Jan 12;7:40138. (**Impact Factor: 4.3**)
  9. Piperigkou Z, Bouris P, Onisto M, Franchi M, Kletsas D, **Theocharis AD**, Karamanos NK. Estrogen receptor beta modulates breast cancer cells functional properties, signaling and expression of matrix molecules. **Matrix Biol.** 2016 Dec; 56:4-23. (**Impact Factor: 11.5**)
  10. Bouris P, Skandalis SS, Piperigkou Z, Afratis N, Karamanou K, Aletras AJ, Moustakas A, **Theocharis AD**, Karamanos NK. Estrogen receptor alpha mediates epithelial to mesenchymal transition, expression of specific matrix effectors and functional properties of breast cancer cells. **Matrix Biol.** Apr;43:42-60 (2015). (**Impact Factor: 11.5**)
  11. **Theocharis AD**, Skandalis SS, Neill T, Mulhaupt HA, Hubo M, Frey H, Gopal S, Gomes A, Afratis N, Lim HC, Couchman JR, Filmus J, Ralph D S, Schaefer L, Iozzo RV, Karamanos NK. Insights into the key roles of proteoglycans in breast cancer biology and translational medicine. **Biochim Biophys Acta Reviews on Cancer** Mar 28;1855(2):276-300 (2015). (**Impact Factor: 10.6**)
  12. **Theocharis AD**, Skandalis SS, Gialeli C, Karamanos NK. Extracellular matrix structure. **Adv Drug Deliv Rev.** 2015 Nov 10. pii: S0169-409X(15)00257-4. doi: 10.1016/j.addr.2015.11.001. (2015). (**Impact Factor: 15.4**)
  13. Milia-Argeiti E, Huet E, Labropoulou VT, Mourah S, Fenichel P, Karamanos NK, Menashi S, **Theocharis AD**. Imbalance of MMP-2 and MMP-9 expression versus TIMP-1 and TIMP-2 reflects increased invasiveness of human testicular germ cell tumours. **Int J Androl.** 2012 Dec;35(6):835-44. (**Impact Factor: 3.8**)
  14. Porsch H, Bernert B, Mehić M, **Theocharis AD**, Heldin CH, Heldin P. Efficient TGF $\beta$ -induced epithelial-mesenchymal transition depends on hyaluronan synthase HAS2. **Oncogene**, 29, (2012) doi: 10.1038/onc.2012.475. (**Impact Factor: 9.8**)
  15. Skliris A, Happonen KE, Terpos E, Labropoulou V, Børset M, Heinegård D, Blom AM, **Theocharis AD**. Serglycin secreted by myeloma plasma cells inhibits the classical and the lectin pathways of complement via its glycosaminoglycan chains and may interfere with immunotherapy. **European Journal of Immunology**, 41, 437-49 (2011). (**Impact Factor: 5.5**)
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**16.** Skandalis SS, Labropoulou VT, Ravazoula P, Likaki-Karatza E, Dobra K, Karamanos NK, Kalofonos HP, **Theocharis AD**. Versican but not decorin accumulation is related to malignancy in mammographically detected high density and malignant-appearing microcalcifications in non-palpable breast carcinomas. **BMC Cancer** 11:314 (2011). (**Impact Factor: 4.4**)

**17.** Gialeli C, **Theocharis AD**, Karamanos NK. Roles of Matrix Metalloproteinases in Cancer Progression and their Pharmacological Targeting. **FEBS J.** 278, 16-27 (2011). (**Impact Factor: 5.5**)

**18.** **Theocharis AD**, Seidel C, Borset M, Dobra K, Baykov V, Labropoulou V, Kanakis I, Dalas E, Karamanos NK, Sundan A, Hjerpe A. Serglycin constitutively secreted by myeloma plasma cells is a potent inhibitor of bone mineralization in vitro. **Journal of Biological Chemistry**, 281, 3511-35128 (2006). (**Impact Factor: 5.1**)

**19.** **Theocharis AD**, Karamanos NK. Decreased biglycan expression and differential decorin localization in human abdominal aortic aneurysms. **Atherosclerosis** 165, 221-230 (2002). (**Impact Factor: 5.1**)

**20.** **Theocharis AD**. Human colon adenocarcinoma is associated with specific post-translational modifications of versican and decorin. **Biochimica et Biophysica Acta, Molecular Basis of Disease** 1588 165-172 (2002). (**Impact Factor: 5.1**)

### **Indicators of Research Activity**

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- 108 Publications in peer-review journals
- 6757 Citations (Scopus, May 2022)
- 9504 Citations (Google Scholar, May 2022)
- h-index= 42 (Scopus, May 2022)
- h-index= 49 (Google Scholar, May 2022)
- 110 International Conference Publications
- 46 National Conference Publications
- 25 Invited Lectures

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## Memberships & Reviewing Activities

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- 2022** Evaluation of Research Proposals in French National Research Agency
- 2015** Evaluation of Research Proposals in "The American University of Beirut - Collaborative Research Stimulus (CRS) grants" Lebanon.
- 2014** Evaluation of Research Proposals in National Research, Development and Innovation Office, Hungary, (NKFIH).
- 2011** Evaluation of PhD. candidate Nabin Malla. "Synthesis, characterization and properties of the matrix metalloprotease-9/chondroitin sulphate proteoglycan heteromer" University of Tromso, Norway.
- 2013** Evaluation of PhD. candidate Trine Marita Reine. "Proteoglycans in primary human endothelial cells and in the mouse kidney" University of Oslo, Norway.
- 2017-2022** Editorial Board Member in Matrix Biology
- 2019-2022** Editorial Board Member in Matrix Biology Plus
- 2019-** Editorial Board Member/ Academic Editor in Biomolecules
- 2022-** Editorial Board Member in American Journal of Physiology – Cell Physiology
- 2022-** Editorial Board Member in Molecular Biology Reports
- 2022-** Associate Editor in Frontiers in Cell and Developmental Biology
- 2003-2022** Reviewer in more than 40 Scientific Journal including Nature Reviews Urology, Advanced Drug Delivery Reviews, The Journal of Biological Chemistry, Osteoarthritis & Cartilage, Mechanisms of Ageing & Development, BBA-Molecular Cell Research, FEBS Journal, Journal of Cellular & Molecular Medicine, Biomaterials, Seminars in Cancer Biology, Matrix Biology, Biomolecules, Cancers, Frontiers in Oncology, etc.
- 2000** Member of Hellenic Society of Biochemistry and Molecular Biology.
- 2000** Member of Hellenic Club of Connective Tissue Research.
- 2007** Member of American Society of Biochemistry and Molecular Biology.
- 2014** Member of the Scientific Research Network: Biotargeting-Biomedical and Biotechnological Applications Research Network

## Teaching Activities

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- 2003-2022** Teaching of **undergraduate courses:** "General Biology", "Biochemistry", "Laboratory Courses of Biochemistry", "Clinical Chemistry", "Food Biochemistry" and **post-graduate courses:** "Advanced Biochemistry", "Molecular Biology and Molecular Biotechnology", "Clinical Biochemistry", "Special Topics in Molecular Pharmacology", "Industrial Applications of Biotechnology", "Molecular Pharmacology and immunology", "Biochemical Analysis and Clinical Biochemistry", "Cell Biology", "Molecular Biology", "Biomolecules as Therapeutic Targets", "Genetic and Molecular Basis of Diseases-Molecular Medicine" in Master Courses, Department of Chemistry, University of Patras, Greece
- 2017-2018/2020-2021** Teaching of **undergraduate course:** "Structure and function of the cell" in Hellenic Open university, Greece

## Supervision of Graduate Students and Postdoctoral Fellows

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- 2003-2020** Supervisor of 16 Master Students and 9 PhD Students. Member of the Advisory Board in 39 Master Students and 20 PhD Students in the Department of Chemistry, University of Patras, Greece
- 2003-2020** Supervisor of 4 Master Students. Member of the Advisory Board in 4 Master Students in Hellenic Open university, Greece
- 2013-2014** Supervisor of a post-doctoral fellow (project: Biological roles of serglycin in breast cancer)

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## **Fellowships and Awards**

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- 1995-1999** Greek state scholarship of IKY for Ph.D. studies in the Department of Chemistry, University of Patras, Greece
- 1996** Travel scholarship: Department of Cell and Molecular Biology, Section for Connective Tissue Biology, Lund, Sweden
- 1998-1999** Travel scholarship: Karolinska Institute, Department of Immunology, Microbiology and Infectious Diseases, Sweden
- 2001-2002** Greek state scholarship of IKY for post-graduate studies in the Department of Chemistry, University of Patras, Greece
- 2002** FEBS short term fellowship for research in Karolinska Institute, Department of Immunology, Microbiology and Infectious Diseases, Sweden
- 2008** FEBS short term fellowship for research in Ludwig Institute for Cancer Research, Uppsala Branch, Uppsala, Sweden
- 2012** French state scholarship for Visiting Professor in Laboratory CRRET, University Paris 12 (UPEC), Paris, France
- 1999** Award from L. Zervas Foundation for research accomplishments, Greece
- 2002** Award from Hellenic Society of Biochemistry and Molecular Biology, 52th Conference, Thessaloniki, Greece

## **Administrative Activities**

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- 2004-** Member of the General Assembly of the Section of Organic Chemistry, Biochemistry and Natural Products, Department of Chemistry, University of Patras
- 2004-** Member of General Assembly of the Department of Chemistry, University of Patras
- 2019-2020** Head of the Section of Organic Chemistry, Biochemistry and Natural Products, Department of Chemistry, University of Patras
- 2020-2022** Head of the Department of Chemistry, University of Patras
- 1/6-31/8/2019** Head of the Department of Agriculture, University of Patras
- 2020-** Member of the General Assembly of the University of Patras
- 2014-2017** Member of the Board of Directors at the Company of Exploitation and Management for the Property of the University of Patras
- 2004-2019** Member /Departmental coordinator of the committee of Erasmus Programme
- 2010-2012** Member of the Erasmus Programme Coordination at the University of Patras
- 2020-2022** General Secretary/Member of the Board of the Hellenic Society of Biochemistry and Molecular Biology

## **Research Grants**

Principal Investigator/ Co-investigator in 14 International / National Research Grants

# SCOPUS PROFILE

Theocharis, Achilleas D.

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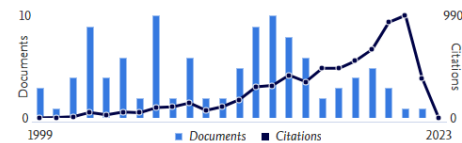
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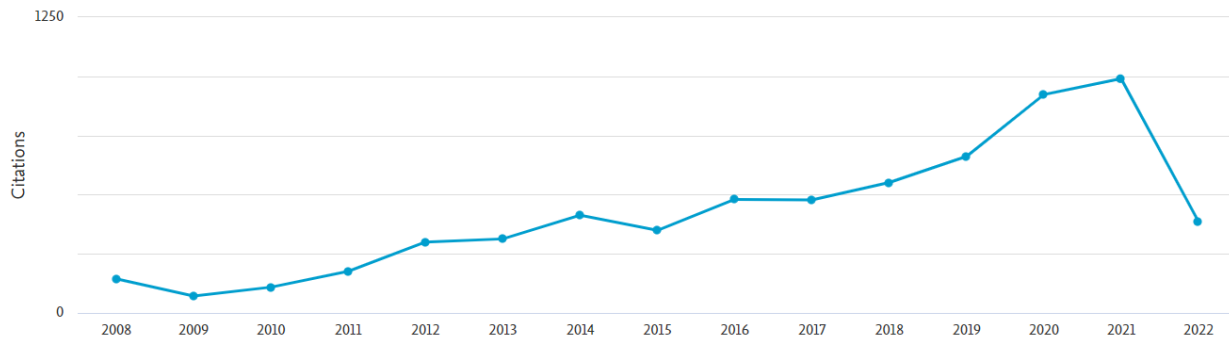
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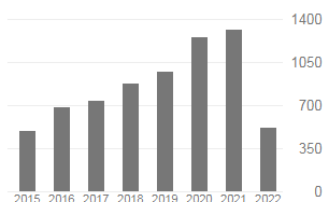
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<input type="checkbox"/>	<a href="#">Extracellular matrix structure</a> AD Theocharis, SS Skandalis, C Gialeli, NK Karamanos Advanced drug delivery reviews 97, 4-27	1323	2016
<input type="checkbox"/>	<a href="#">Glycosaminoglycans: key players in cancer cell biology and treatment</a> N Afratis, C Gialeli, D Nikitovic, T Tsegenidis, E Karousou, AD Theocharis, ... The FEBS journal 279 (7), 1177-1197	498	2012

### Useful links

#### Departmental & personal website

Web page (<http://www.chem.upatras.gr/en/division-a/398-theocharis-achilleas>)

ResearchGate Net page ([https://www.researchgate.net/profile/Achilleas\\_Theocharis](https://www.researchgate.net/profile/Achilleas_Theocharis))

Google Scholar page (<https://scholar.google.com/citations?hl=en&user=FFKncrkAAAAJ>)

Scopus (<https://www.scopus.com/authid/detail.uri?authorId=7003720000>)