

Curriculum Vitae

Christos Tsatsanis, PhD, Professor

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Date of Birth: April 9th, 1968
Place of Birth: Athens, Greece
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EDUCATION & WORK EXPERIENCE

1987 - 1991 Athens University, Greece, Biology Dept.
1991-1995 Graduate student at the Medical School, University of Crete, Greece and University of Glasgow, UK. Thesis title: "Oncogenes and retroviral insertion sites"
1/1995 – 4/1998 Postdoctoral Associate, Dept. of Medical Oncology, Fox Chase Cancer Center, Philadelphia, PA, USA
4/1998 – 11/1998 Postdoctoral Fellow, Dept. of Microbiology and Immunology, Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, USA
11/1998 – 6/2000 Military Service, Supervisor at the Laboratory of Clinical Biochemistry and Microbiology, Rhodes Military Hospital, Rhodes, Greece
1/2001 – present Faculty Member (**2001-2005 Lecturer; 2005-2011 Assistant Professor; 2011-2016 Associate Professor, 2016-present Professor**), Clinical Chemistry-Biochemistry Laboratory, Dept. of Laboratory Medicine, Medical School, University of Crete, Heraklion, Crete, Greece
1/2001 – 2014 Staff member, Clinical Chemistry Laboratory, University General Hospital of Heraklion, Heraklion, Crete, Greece
2014 – present Director Clinical Chemistry Laboratory, University General Hospital of Heraklion, Heraklion, Crete, Greece
4/2001 – 6/2001 Visiting Scientist, Dept. of Life Sciences, Lawrence Berkeley National Laboratories, University of California, Berkeley, CA, USA
2/2002 – 4/2002 Visiting Scientist, Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, USA
1/2004 – 6/2004 Visiting Scientist, TUFTS-New England Medical Center, Boston, MA, USA
6/2008 – 6/2009 Visiting Assistant Professor, TUFTS-New England Medical Center, Boston, MA, USA
8/2016 - 8/2017 Visiting Professor, Dept. of Translational Medicine, Lund University, Sweden
8/2017 - present Visiting Researcher, Dept. of Translational Medicine, Lund University, Sweden
2007 – present Accreditation as Clinical Chemistry specialist (EurClinChem) and European Specialist in Laboratory Medicine (EuSpLM)
2018 - present Affiliated Researcher, Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology (IMBB-FORTH), Heraklion, Greece

ADMINISTRATIVE DUTIES

2001-2003 Member of the Research Committee, School of Medicine, University of Crete
2001-2002 Member of the Senate of the University of Crete as representative of the School of Medicine
2003-2014 Member of the Academic Affairs committee
2003-2014 Member of the Undergraduate studies committee
2011-2014 Member of the Steering Committee for the Interdepartmental Graduate Program "Molecular Biology-Biomedicine"
2004-present Member of the Steering Committee for the Graduate Program "Molecular Basis of Human Disease"
2008-2014 Member of the Laboratory safety committee
2003-2014 Head of the Laboratory Animal Care committee
2014 – 2017 Vice Dean, Medical School, University of Crete

- 2014- 2020 Member of the Research Committee of the University of Crete as representative of the Medical School and since 2017 Vice President.
- 2019- 2021 Scientific Coordinator of the Technology Transfer Office of the University of Crete
- 2021- present Scientific Committee member of the Technology Transfer Office of the University of Crete

TEACHING EXPERIENCE UNDERGRADUATE COURSES

- 2000 – present** Laboratory Medicine, 5th Semester, Teaching using Problem Based Learning approach in small groups, Medical School, Univ. Of Crete (Course Director)
- 2001 – present** Molecular Medicine, 5th semester, topic: Molecular basis of Cancer, Medical School, Univ. Of Crete
- 2001 – 2008** Molecular Oncology, 5th semester, Medical School, Univ. Of Crete
- 2011 – present** Basic Research in Medicine, 7th Semester (Course Director)

SUPERVISION OF PhD THESIS

- Anna Christoforidou, MD (2003-2007)** The role of Tpl2, Pim1 και Gfi1 in hematologic neoplasias. Awarded: 2007. Current Position: Attending, Hematology Dept, University Hospital of Thrace, Alexandroupolis, Greece.
- Ariadne Androulidaki, BSc, (2003-2007)** The role of neuropeptides of CRF family in inflammation. Current Position: Postdoctoral EMBO Fellow, University of Cologne, Germany
- Vassiliki Zacharioudaki, BSc, MSc (2005-2009)** Adiponectin as a modulator of inflammatory responses Awarded: 2009. Current Position: Postdoctoral Fellow, Vrije University, Brussels, Belgium.
- Christina Doxaki, BSc, MD (2008-2015)** Regulation of miRNA expression during inflammation and their role in endotoxin tolerance.
- Eleni Vergadi, MD, MSc (2010-2015)** Contribution and regulation of M1/M2 macrophages in lung inflammation and pulmonary hypertension
- Konstantina Lyroni (2012-2018)** Regulation of the inflammatory phenotype in adipocytes
- Eleftheria Ieronymaki (2012-2019)** The role of metabolism in macrophage activation
- Ourania Kolliniati (2019-present)** Mechanisms of Autophagy in macrophages
- Maria Daskalaki (2017-2022)** Epigenetic regulation of inflammatory genes in macrophages
- Elina Paflioti (2019 – present)** The contribution of fibroblasts in inflammatory responses

SUPERVISION OF POSTDOCTORAL FELLOWS

- Ariadne Androulidaki, PhD, 2007-2009** Supported by AICR. Current Position: Researcher, University of Cologne, Germany
- Alicia Arranz de Miguel, PhD 2008-2011** Supported by US-DOD and a fellowship from the Spanish secretariat of Research. Current Position: Insitute Severo Ochoa, Madrid, Spain.
- Yeny Martinez de la Torre, PhD, 2010-2012** Marie Curie Fellow, supported by FP7 TACIT. Current position: Postdoctoral Fellow IRB Barcelona, Spain
- Ismeni Alexaki, PhD 2012** Supported by FP7 TACIT; Present Position: Senior Researcher, Dresden University, Germany
- C. Deligianni, PhD, 2013-2014** Supported by FP7 REGPOT, Present position, Postdoctoral Fellow, Mt Sinai Medical School, NY
- Eleni Vergadi, MD, PhD, 2016-2020** Supported by ELIDEK fellowship, Present position: Assistant Professor of Pediatrics, Univ. of Crete Medical School

Konstantina Lyroni, MD, PhD, Supported by ΕΔΒΜ34 fellowship, Present position: MD resident

2018-2019

Eleftheria Ieronymaki, PhD Supported by ‘Ερευνω-Καινοτομώ’ grant

2019-present

EXTERNAL EVALUATOR-OPPONENT IN INTERNATIONAL PhD THESES

Department of Biochemistry, Singapore University, Singapore (2004, 2006)

Department of Molecular and Cell Biology, Universidad Complutense Madrid, Spain (2008)

Department of Anatomy, Aarhus Medical School, Aarhus, Denmark (2009)

EDITORIAL BOARD MEMBERSHIP

2014-2018 Journal of Immunology, American Association of Immunology, Associate Editor (2 terms)

GRANTED PATENTS

PCT (International Publication Number): WO 2008/155534 A2; EPO-UK 711948,0: Neuroprotective synthetic spiro-neurosteroids. Gravanis, A, Calogeropoulou M, Charalampopoulos I, Castanas E, Margioris A, Tsatsanis C, Alexis M., Alexaki V, Vergou V., Neophytou N.

RESEARCH FUNDING

1. Hellenic Secretariat of Research and Technology PENED 2001 ΕΔ-386 (September 2002-April 2006): Development of a CRHR2 antagonist for studies on regulation of the stress-immune system axis. Role: Principal Investigator Budget: € 44,000
2. Association for International Cancer Research (UK) (AICR-03-061) (2003-2006): Immunomodulation by tumor derived neuropeptides. Role: Principal Investigator (€ 110,000)
3. Association for International Cancer Research (UK) (AICR-07-077) (2007-2010): Immunomodulation by tumor derived neuropeptides. Role: Principal Investigator (€ 135,000)
4. US Department of Defense, Congressionally-Directed Breast Cancer Research Program (USA) (DOD-BC-0695) (2007-2009): The impact of stress on tumor growth; the role of peripheral corticotrophin releasing hormone. Role: Principal Investigator (\$98,000)
5. Novosom AG (Germany) (2007-2011): The role of CD40 in inflammatory diseases. Role: Principal Investigator (€ 60,000)
6. EU, Marie Curie Action, IAPP (EU-FP7) (2009-2013): Targeted Amphoteric Carriers for Immune Therapy (TACIT). Role: Principal Investigator (€300,000- συνολικός προϋπολογισμός €996,000)
7. Association for International Cancer Research (UK) AICR-11-0505 (June 2011 – May 2014): Immunomodulation against cancer. Role: Principal Investigator Budget: € 150,000
8. EU, FP7-REGPOT Grant # 285948 (2012-2015): TransPOT-Enhancing the Translational Research Potential of The University of Crete Medical School, Role: Partner, member of the Steering Committee (Coordinator: Dr. A G. Eliopoulos) Total budget:€3,040,000
9. Hellenic Ministry of Education, grant ‘THALIS’ (2012-2015): FATVESSEL
Role: Principal investigator of Partner 2 and member of the Steering committee Local Budget: €90,000
10. Hellenic Ministry of Research, “Excellence” grant (awarded to the best scientists in Greece independent of discipline) (2012-2015): IMMUNOMETABOLISM Role: Principal Investigator Budget: €173000
11. Hellenic Ministry of Research, ΣΥΝΕΡΓΑΣΙΑ 2 (2012-2015): The natural compound NRG as anti-inflammatory agent. Role: Partner, Partner budget: €202,000
12. Hellenic Ministry of Education Grant EDBM-Research Teams (Jan. 2018-Nov. 2019) (€50,500) Coordinator
13. Hellenic Ministry of Research Grant CBMR (Nov. 2017-Nov. 2021) (€105,000) Partner
14. Hellenic Ministry of Research Grant Ερευνω-Καινοτομω- MEDSushi (Jan2018-Dec2022) (€199,000) Partner
15. Hellenic Ministry of Research Grant Ερευνω-Καινοτομω- iFUNFoods (Jan2018-Dec2022) (€124,000) Partner
16. EU H2020 program, AQUABIOPROFIT (2018-2022) (€ 224,000) Partner

INVITED REVIEWER IN INTERNATIONAL RESEARCH FUNDING AGENCIES

Austrian Science Fund, Austria
Research Ministry of Portugal
Academic Research Fund, Singapore
International Union against Cancer (UICC)
Medical Research Council (MRC) UK
Biotechnology and Biological Sciences Research Council (BBSRC), UK
INSERM-France
Fontation Innovations Infectiologie (FINOVI) -France
Fonds National de la Recherche Luxemburg (FNR)- Luxemburg
European Research Council (ERC) EU
European Commission IF-Marie Curie Program, Evaluator and Rapporteur
European Commission FET-Open Program, Evaluator and Rapporteur
European Commission REA-SCI-1 Program, Panel Member
European Commission REA-Pathfinder Horizon Europe
CINECA Italy
European Commission HADEA- HEALTH-DISEASE-2022 Horizon Europe, Panel Member

INVITED REVIEWER IN INTERNATIONAL JOURNALS (selected list of journals)

Cell Reports, Circulation, Journal of Immunology; Nature Communications, Journal of Cellular Physiology; European Journal of Endocrinology; American Journal of Physiology; FEBS Letters; FEBS Journal; Infectious Disease Reports; British Journal of Pharmacology; Immunology; Regulatory Peptides; Molecular Medicine; Molecular Cancer; Cardiovascular Research; Swiss Medical Weekly; International Journal of Cancer; International Journal of Oncology; International Journal of Molecular Medicine; Journal of Neurochemistry; Oncology Reports; Biochimie; Cellular Toxicology; , Scientific Reports, Cellular and Molecular Immunology; Science Translational Medicine; Nature Communications

SELECTED INVITED SEMINARS

2/2016 Medical University of Vienna, Austria
6/2014 Medical School, Lund University, Sweden
6/2011 Medical School, Katholike Universtitat Leuven, Belgium
5/2009 Tufts Medical Center, Tufts Medical School, Boston, MA, USA
4/2008 J. Burns Medical School, University of Hawaii, Honolulu, USA
3/2006 Dept. of Molecular Neuroendocrinology, Max-Plank Research Institute, Goettingen, Germany
2/2004 Molecular Oncology Research Institute, TUFTS-Medical Center, Boston, USA
2/2003 Dept. Of Veterinary Pathology, University of Glasgow, Glasgow, UK
2/2002 Dept. of Molecular Neuroendocrinology, Max-Plank Research Institute, Goettingen, Germany
5/2001 Laurence Berkeley Laboratories, University of California, Berkeley, USA

INVITATIONS IN INTERNATIONAL CONFERENCES-SUMMER SCHOOLS

International School of Medical Science, 7th Advanced Course on «Signal Transduction and communication in Cancer Cells», Erice, Italy, 2003
Balkan Congress of Clinical Chemistry, Athens, 2008 (member of the scientific committee)
2nd Summer School of Immunology, Kefalonia, Greece, 2009
Inflammation and Cancer Summer School, Crete, Greece, 2010
3rd Summer School of Immunology, Spetses, Greece, 2011
European Society for Clinical Investigation Annual Meeting (Member of the organizing committee, workshop organizer), Crete, Greece, 2011
2nd Summer School in Medical & Biosciences Research & Management, Neo Itilio, Mani, Greece, 2012
4th Summerschool of Immunology, Athens, Greece, 2013
3rd Summer School in Medical & Biosciences Research & Management, Neo Itilio, Mani, Greece, 2014
5th Summerschool of Immunology, Porto Heli, Greece, 2015
2nd School of Venous Thromboembolism, Halkidiki, Greece, 2015
International Congress of Immunology ICI-2016, Melbourne, Australia, 2016
6th Summer School on Medical & Biosciences Research & Management, Neo Itilio, Mani, Greece, 2017

EUROMEDLAB 2017, EFLM-IFCC Congress, Athens, Greece, 2017

International Retreat of PhD Students in Immunology, Verona, Italy, 2017 (Organized by the Italian Society of Immunology)

1st IFCC, EFLM AFCB “Laboratory Medicine: Meeting the needs of Mediterranean Nations”, Rome, 2018

ORGANIZATION OF CONFERENCES-SUMMER SCHOOLS

1. Annual Meeting of the Hellenic society of Clinical Chemistry, Athens 10/2011 (member of the scientific committee)
2. Annual Meeting of the Hellenic Society for Biochemistry and Molecular Biology, Crete 11/2012 (member of the scientific committee)
3. Annual Meeting of the Hellenic society of Clinical Chemistry, Athens 10/2012 (member of the scientific committee)
4. Inflammation, Cancer and novel therapeutics, Summerschool and Conference, Crete www.inflacare2012.gr 9/2012 (Co-Organizer)
5. “Inflammatory Networks in Health and Disease Symposium”, Crete, Greece 10/2014 (Co-organiser)
6. “Endocrine Aspects in Andrology”, Heraklion Crete, Greece 4/2015 (Co-organizer)
7. “13th Annual Meeting of the Hellenic Society of Clinical Chemistry, Heraklion, Crete, Greece 10/2015 (Organizer)
8. EUROMEDLAB 2017, EFLM-IFCC meeting, Athens, Greece 5/2017 (Member of the scientific committee)
9. Annual Meeting of the Hellenic society of Clinical Chemistry, Athens 10/2020 (President of the Scientific Committee)
10. 3rd IFCC, EFLM AFCB “Laboratory Medicine for mobile societies”, Heraklion, 2022 (President of the Scientific Committee)

FOREIGN LANGUAGES

English	Cambridge Certificate of Proficiency in English (1987)
German	Mittelstufenpruefung (1990)

PUBLICATION Metrics

Number of Publications: 117 (PubMed)

Citations (ISI): 6198

H-index (ISI): 41

Citations (Google Scholar): 9245

H-index (Google Scholar): 50

Selected Publications (out of 117 in PubMed)

1. C. Tsatsanis, C. Patriotis, S.E. Bear and P. N. Tsihchlis. The Tpl-2 protooncogene activates NFAT and induces IL-2 expression in T-cells.1998 *Proc.Natl.Acad.Sci. USA* 95:3827-3832
2. Tsatsanis C, Patriotis C, Tsihchlis PN. Tpl-2 induces IL-2 expression in T-cell lines by triggering multiple signaling pathways that activate NFAT and NF-kappaB. *Oncogene*. 1998
3. C. D. Dumitru, J.D. Ceci, C. Tsatsanis, D. Kontoyiannis, K. Stamatakis, J-H Lin, C. Patriotis, G. Kollias, N.A. Jenkins, N.G. Copeland and P.N. Tsihchlis. TNF- α induction by LPS is regulated posttranscriptionally via a Tpl-2/ERK-dependent pathway. 2000 *Cell* 103:1071-1083.
4. Christoforidou AV, Papadaki HA, Margioris AN, Eliopoulos GD, Tsatsanis C. Expression of the Tpl2/Cot oncogene in human T-cell neoplasias. *Mol Cancer*. 2004 Dec 3;3(1):34
5. Tsatsanis C, Androulidaki A, Venihaki M, Margioris AN. Signalling networks regulating cyclooxygenase-2. *Int J Biochem Cell Biol*. 2006;38(10):1654-61
6. Tsatsanis C, Androulidaki A, Alissafi T, Charalampopoulos I, Dermitzaki E, Roger T, Gravanis A, Margioris AN. Corticotropin-releasing factor and the urocortins induce the expression of TLR4 in macrophages via activation of the transcription factors PU.1 and AP-1. *J Immunol*. 2006 Feb 1;176(3):1869-77

7. Tsatsanis C, Vaporidi K, Zacharioudaki V, Androulidaki A, Sykulev Y, Margioris AN, Tsihchlis PN. Tpl2 and ERK transduce anti-proliferative T cell receptor signals and inhibit transformation of chronically-stimulated T cells. 2008 *Proc. Natl. Ac. Sci. USA*, 105:2987-2992
8. Arranz A, Androulidaki A, Zacharioudaki V, Martinez C, Margioris AN, Gomariz RP, Tsatsanis C. Vasoactive intestinal peptide suppresses toll-like receptor 4 expression in macrophages via Akt1 reducing their responsiveness to lipopolysaccharide. *Mol Immunol*. 2008 May;45(10):2970-80
9. Vaporidi K, Voloudakis G, Priniannakis G, Kondili E, Koutsopoulos A, Tsatsanis C, Georgopoulos D. Effects of respiratory rate on ventilator-induced lung injury at a constant PaCO₂ in a mouse model of normal lung. *Crit Care Med*. 2008 Apr;36(4):1277-83
10. Zacharioudaki V, Androulidaki A, Arranz A, Margioris AN and Tsatsanis C. Adiponectin promotes endotoxin tolerance in macrophages by inducing IRAK-M. *J. Immunol*. 2009 182(10):6444-51
11. Androulidaki A, Iliopoulos D, Arranz A, Doxaki C, Schworer S, Zacharioudaki V, Margioris AN, Tsihchlis PN, Tsatsanis C. The kinase Akt1 controls macrophage response to lipopolysaccharide by regulating microRNAs. *Immunity*. 2009 Aug 21;31(2):220-31
12. Arranz A., Doxaki C., Vergadi E., Martinez Y., Vaporidi K., Vanihaki M., Lagoudaki E., Stathopoulos E., Margioris A., Tsihchlis PN and Tsatsanis C. Akt1 and Akt2 differentially contribute to macrophage polarization. *Proc. Natl. Acad. Sci. USA*, 2012 109(24):9517-22
13. Serebrennikova, O.B., Tsatsanis C., Mao, C., Gounaris, E., Ren, W., Siracusa, L.D., Eliopoulos, A.G., Khazaie, K., and Tsihchlis, P.N. Tpl2 ablation promotes intestinal inflammation and tumorigenesis in Ap^cmin mice by inhibiting IL-10 secretion and regulatory T-cell generation. *Proc Natl Acad Sci U S A*, 2012, 109, E1082-1091.
14. I. Karakasilioti, I. Kamileri, T. Kosteas, E. Vergadi, A. Rasile-Robinson S.Siakouli, C. Tsatsanis, L. Niedernhofer and G. A. Garinis. DNA damage triggers a chronic auto-inflammatory response leading to fat depletion in NER progeria. *Cell Metab*. 2013, 18(3):403-15
15. E. Vergadi, K Vaporidi, E Theodorakis, C Doxaki, E Lagoudaki, E Ieronymaki, V I. Alexaki, M Helms, E Kondili, B Soennichsen, E N. Stathopoulos, A N. Margioris; D Georgopoulos and C Tsatsanis Akt2 deficiency protects from acute lung injury via alternative macrophage activation and miR-146a induction *J. Immunol*. 2014;192(1):394-406
16. Doxaki C, Kampranis SC, Eliopoulos AG, Spilianakis C and C. Tsatsanis. Coordinated Regulation of miR-155 and miR-146a Genes during Induction of Endotoxin Tolerance in Macrophages. *J Immunol*. 2015 Dec 15;195(12):5750-61
17. Al-Qahtani AA, Lyroni K, Aznaourova M, Tseliou M, Al-Anazi MR, Al-Ahdal MN, Alkahtani S, Sourvinos G, Tsatsanis C. Middle east respiratory syndrome corona virus spike glycoprotein suppresses macrophage responses via DPP4-mediated induction of IRAK-M and PPAR γ . *Oncotarget*. 2017 Feb 7;8(6):9053-9066
18. Vergadi E, Ieronymaki E, Lyroni K, Vaporidi K, Tsatsanis C. Akt Signaling Pathway in Macrophage Activation and M1/M2 Polarization. *J Immunol*. 2017 Feb 1;198(3):1006-1014.
19. Lyroni K, Patsalos A, Daskalaki MG, Doxaki C, Soennichsen B, Helms M, Liapis I, Zacharioudaki V, Kampranis SC, Tsatsanis C. Epigenetic and Transcriptional Regulation of IRAK-M Expression in Macrophages. *J Immunol*. 2017 Feb 1;198(3):1297-1307.
20. Alexaki VI, Fodelianaki G, Neuwirth A, Mund C, Kourgiantaki A, Ieronymaki E, Lyroni K, Troullinaki M, Fujii C, Kanczkowski W, Ziogas A, Peitzsch M, Grossklaus S, Sönnichsen B, Gravanis A, Bornstein SR, Charalampopoulos I, Tsatsanis C, Chavakis T. DHEA inhibits acute microglia-mediated inflammation through activation of the TrkA-Akt1/2-CREB-Jmjd3 pathway. *Mol Psychiatry*. 2017;23(6):1410-1420.
21. Daskalaki MG, Tsatsanis C, Kampranis SC. Histone methylation and acetylation in macrophages as a mechanism for regulation of inflammatory responses. *J Cell Physiol*. 2018 Sep;233(9):6495-6507.
22. Silva MC, Davoli-Ferreira M, Medina TS, Sesti-Costa R, Silva GK, Lopes CD, Cardozo LE, Gava FN, Lyroni K, Dias FC, Frade AF, Baron M, Alves-Filho JC, Cunha FQ, Tsatsanis C, Chevillard C, Cunha-Neto E, Hirsch E, Silva JS, Cunha TM. Canonical PI3K γ signaling in myeloid cells restricts Trypanosoma cruzi infection and dampens chagasic myocarditis. *Nat Commun*. 2018 Apr 17;9(1):1513.
23. Vergadi E, Vaporidi K, Tsatsanis C. Regulation of Endotoxin Tolerance and Compensatory Anti-inflammatory Response Syndrome by Non-coding RNAs. *Front Immunol*. 2018 Nov 20;9:2705
24. Ieronymaki E, Theodorakis EM, Lyroni K, Vergadi E, Lagoudaki E, Al-Qahtani A, Aznaourova M, Neofotistou-Themeli E, Eliopoulos AG, Vaporidi K, Tsatsanis C. Insulin Resistance in Macrophages Alters Their Metabolism and Promotes an M2-Like Phenotype. *J Immunol*. 2019;202(6):1786–1797. doi:10.4049/jimmunol.1800065

25. Ieronymaki E, Daskalaki MG, Lyroni K, Tsatsanis C. Insulin Signaling and Insulin Resistance Facilitate Trained Immunity in Macrophages Through Metabolic and Epigenetic Changes. *Front Immunol*. 2019;10:1330. Published 2019 Jun 12. doi:10.3389/fimmu.2019.01330
26. Daskalaki MG, Bafiti P, Kikionis S, Laskou M, Roussis V, Ioannou E, Kampranis SC, Tsatsanis C. Disulfides from the Brown Alga Dictyopteria Membranacea Suppress M1 Macrophage Activation by Inducing AKT and Suppressing MAPK/ERK Signaling Pathways. *Mar Drugs*. 2020 Oct 24;18(11):527. doi: 10.3390/md18110527
27. Axarlis K, Daskalaki MG, Michailidou S, Androulaki N, Tsourekis A, Mouchtaropoulou E, Kolliniati O, Lapi I, Dermizaki E, Venihaki M, Kousoulaki K, Argiriou A, Marsni ZE, Tsatsanis C. Diet Supplementation with Fish-Derived Extracts Suppresses Diabetes and Modulates Intestinal Microbiome in a Murine Model of Diet-Induced Obesity. *Mar Drugs*. 2021 May 11;19(5):268. doi: 10.3390/md19050268.
28. Daskalaki MG, Axarlis K, Aspevik T, Orfanakis M, Kolliniati O, Lapi I, Tzardi M, Dermizaki E, Venihaki M, Kousoulaki K, Tsatsanis C. Fish Sidestream-Derived Protein Hydrolysates Suppress DSS-Induced Colitis by Modulating Intestinal Inflammation in Mice. *Mar Drugs*. 2021 May 28;19(6):312. doi: 10.3390/md19060312.
29. Pantazi I, Al-Qahtani AA, Alhamlan FS, Alotheid H, Matou-Nasri S, Sourvinos G, Vergadi E, Tsatsanis C. SARS-CoV-2/ACE2 Interaction Suppresses IRAK-M Expression and Promotes Pro-Inflammatory Cytokine Production in Macrophages. *Front Immunol*. 2021 Jun 23;12:683800. doi: 10.3389/fimmu.2021.683800
30. Kolliniati O, Ieronymaki E, Vergadi E, Tsatsanis C. Metabolic Regulation of Macrophage Activation. *J Innate Immun*. 2022 Jul 9:1-17. doi: 10.1159/000516780

More information at:

<https://www.ncbi.nlm.nih.gov/pubmed/?term=tsatsanis+c>