

CURRICULUM VITAE ET STUDIORUM

VITTORIO GENTILE

PERSONAL DATA:

DATE AND PLACE OF BIRTH :

July 06, 1960; Torre del Greco, Naples, Italy.

CITIZENSHIP:

Italian.

LANGUAGES:

Italian, English, French.

ADDRESSES:

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EDUCATION:

1978-1984: -M.D., 1st Medical School, University of Naples with Summa cum Laude. Thesis: "The role of polyamines in MSO-induced seizures".

1984-1991: -Speciality Diploma, 1st Medical School, University of Naples; Neurology Program.

1986-1990: -Ph.D. in Biochemical Sciences, 1st Medical School, University of Naples and Bari. Thesis: "Cloning, characterisation and stable expression in Balb-c 3T3 cells of the human tissue transglutaminase cDNA from endothelial cells".

PRIZES AND AWARDS:

1986: -Winner of a public competition for a fellowship from the Istituto Superiore di Sanità, Roma, Italy.

1987: -Winner of a public competition for a fellowship from the Istituto Superiore di Sanità, Roma, Italy.

-Winner of a public competition for Ph.D. student fellowship in Biochemical Sciences, 1st Medical School, University of Naples and Bari.

1988: -Winner of a public competition for a fellowship from the Istituto Superiore di Sanità, Roma, Italy. Winner of a fellowship from the Italian Society of Biochemistry.

PROFESSIONAL EXPERIENCE:

1980-1984: -Internship at the Department of Biochemistry and Biophysics, University of Naples.

1984-1985: -Post-doctoral fellow at the same institution.

1986: -Fellow at the Laboratorio di Tossicologia Comparata ed Ecotossicologia, Istituto Superiore di Sanità, Roma, Italy.

1987-1988: -Fellow at the Department of Biochemistry and Biophysics, University of Naples.

1988-1991: -Fellow at the Department of Pharmacology, University of Texas-Medical School, Houston.

1991: -Scientific consultant for Fidia Inc., Abano Terme.

1992-1993: -Visiting assistant professor at the Department of Pharmacology, University of Texas-Medical School at Houston.

1991-2001: -Research assistant at the Department of Biochemistry, Biophysics and General Pathology, II University of Naples.

2001-2017: Aggregate professor of Biochemistry at the Department of Biochemistry, Biophysics and General Pathology, II University of Naples.

2014: National Scientific Qualification as associate professor in General Biochemistry and Clinical Biochemistry.

2018-to date: Associate professor of Biochemistry at the Department of Precision Medicine, University of Campania “Luigi Vanvitelli”.

RESEARCH INTERESTS:

-Studies on cerebral polyamine metabolism.

-Studies on polyamine binding to synaptosomal membranes of rat brain.

-Studies on structural modifications of a major protein secreted from the rat seminal vesicle by transglutaminase.

- Studies of transglutaminase-mediated modifications of the rat sperm surface.
- Studies on human semen transglutaminase.
- Characterisation of rat intestinal transglutaminase and studies on transglutaminase-mediated modifications of gliadins in relation to the Coeliac Disease.
- Cloning and characterisation of the gene for human tissue transglutaminase.
- Transfection of the human tissue transglutaminase cDNA in Balb-C 3T3 mouse fibroblasts: molecular and cellular characterisation of the stable transfected cell lines.
- Site direct mutagenesis of the human tissue transglutaminase cDNA.
- Expression and characterisation of the secretory transglutaminase from human prostate.
- Characterization of the human tissue transglutaminase as a mediator of the cell signal transduction pathway.
- Studies on the possible involvement of transglutaminases in the pathogenesis of neurodegenerative diseases.

SOCIETIES:

- Member of Italian Society of Biochemistry.
- Member of Italian Board of Physicians (Ordine dei Medici Chirurghi della Provincia di Napoli).
- Member of the Movement Disorder Society.

GRANT REVIEWER:

- Medical Research Council (UK).

JOURNAL PEER REVIEWER:

- European Journal of Biochemistry
- Cell Death and Differentiation
- Journal of Neurochemistry

- Neuroscience Letters
- Autoimmunity
- FEBS Letters
- Journal of Cellular Biochemistry
- Neuroscience
- SCIENCE Translational Medicine
- Bioorganic & Medicinal Chemistry
- Oncogene
- Journal of Contemporary Medical Education
- FASEB Journal
- Neurobiology of Aging
- Rejuvenation Research
- Neural Regeneration Research
- Neurotoxicity Research
- British Journal of Medicine and Medical Research
- World Journal of Gastroenterology
- Free Radical Research
- Journal of Alzheimer's Disease
- International Journal of Biomedical Science
- Medical Sciences
- Cancers
- Micromachines
- International Journal of Molecular Sciences

EDITORIAL BOARD MEMBER:

- Journal of Alzheimer's, Parkinsonism and Dementia (Editor-in-Chief)
- International Journal of Cell Science & Molecular Biology (Editor-in-Chief)
- Qingres Med One (Neuroscience and Neurology Section Editor-in-Chief)
- Translational Medicine Reports (Section Editor)
- Recent Patents on CNS Drug Discovery (Regional Editor)
- Il giornale del linguaggio universale: DNA...
- The Open Pharmacology Journal (The Open Pharmaceutical Sciences Journal)
- World Journal of Biological Chemistry
- International Journal of Biochemistry and Molecular Biology
- World Journal of Pharmacology
- Journal of Biological Research (Hong Kong)
- American Journal of Alzheimer's Disease
- American Journal of Neurodegenerative Disease
- International Journal of Genetics and Genomics
- Journal of Aging and Gerontology
- VRI-Biological Medicinal Chemistry
- Austin Journal of Genetics and Genomic Research
- The Open Conference Proceedings Journal
- Biochemistry & Molecular Biology Letters
- Journal of Biochemistry and Molecular Biology Research

- JSM Enzymology and Protein Science
- Journal of Gene Therapy for Genetic Disorders
- SRL Neurology & Neurosurgery
- Source Journal of Neurological Diseases & Therapy
- Journal of Human Genetics and Genomic Medicine
- Annals of Alzheimer's and Dementia Care
- Biochemistry and Biophysics Reports
- AIMS Biophysics
- Insights in Biology and Medicine
- EC Neurology
- American Research Journal of Neurology
- American Research Journal of Biosciences
- International Journal of Clinical Neurology and Brain Research
- Journal of Genes and Proteins
- Journal of Clinical Biochemistry
- International Journal of Alzheimers & Neurological Disorders
- Global Scientific Journal of Neurology and Neurophysiology
- Endocrinology and Diabetes Open Access
- Mini-Reviews in Medicinal Chemistry
- Medicinal & Analytical Chemistry International Journal (MACIJ)
- Acta Scientific Neurology
- Central Nervous System Agents in Medicinal Chemistry
- Journal of Applied Biopharmaceutics and Pharmacokinetics
- Applied Psychiatry
- Open Journal of Case Reports in Medicine
- Scientific Journal of Neurology
- Cell & Cellular Life Sciences Journal (CCLSJ)
- Clinical Neuroscience & Neurological Research International Journal
- Neuro Research
- Journal of Neuroscience and Rehabilitation
- Journal of Brain and Neurological Disorders

SPECIAL ISSUES EDITOR:

- in AIMS Biophysics: “Protein aggregation in neurodegeneration” in collaboration with Clara Iannuzzi
- in ONE MED Qingres : “Transglutaminase Functions in Medicine”

GRANTS:

-Telethon (Italian Association for Neuromuscular and Genetic Diseases) 1995-97 and 1998-2000:

A biochemical mechanism for CAG triplet diseases: a glutamine expansion that can produce new substrates for transglutaminase activity in degenerating neuronal cells.

-Italian Association for Cancer Research (Associazione Italiana per la Ricerca sul Cancro, AIRC) 1995-97:

Possible role of the endothelial cell transglutaminase as mediator of cancer cell adhesivity. (Possibile ruolo della transglutaminasi da cellule endoteliali quale mediatore dell'adesione di cellule neoplastiche).

-Tempus project (European Community) 1996-1998:

“A novel graduate training program for Medical Biologist” in collaboration with: the University of Debrecen (Hungary), the Karolinska Institut of Stockholm (Sweden), the International Forum for Biophilosophy of Leuven (Belgium) and the Second University of Naples (Italy).

Project Co-ordinator: prof. Balazs Gulyas, Laboratory for Brain Research and PET, Nobel Institute of Neurophysiology, Karolinska Insitut of Stockholm.

-Dr. Gentile participated to the research group responsible for the “Programma di Intervento per la **Promozione della Ricerca Scientifica in Campania, Legge Regionale 31.12.94, n.41 (1996/97/98)**”, with the research project entitled: “Uso delle cellule eritroidi fetali prelevate dal sangue materno per la diagnosi prenatale delle malattie genetiche”. Project co-ordinator: Prof. A. L. Borrelli.

-Dr. Gentile participated to the research group responsible for the “**Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale (2004-2006)**” with the research project entitled: “Alterazioni delle metilazioni di macromolecole nella sindrome di Down”. Project co-ordinator: Prof. G. Andria.

- Dr. Gentile participated to the research group responsible for the project “Neuroimaging non convenzionale e studi bio-molecolari nella sclerosi laterale amiotrofica (Non-conventional neuroimaging and bio-molecular studies in the amyotrophic lateral sclerosis)”, Scientific Co-ordinator Prof. Gioacchino TEDESCHI, financed by **Progetti di Ricerca di Rilevante Interesse Scientifico e Tecnologico 2007**, Seconda Università degli studi di Napoli.

- Progetti di Ricerca Scientifica Finanziabili ai sensi della L.R. N.5 del 28.03.2002, GIUNTA REGIONALE DELLA CAMPANIA ASSESSORATO ALLA RICERCA SCIENTIFICA (2008):

Identificazione e caratterizzazione di geni della transglutaminasi nel Sistema Nervoso in relazione allo sviluppo di malattie neurodegenerative (Identification and characterization of transglutaminase genes in the Nervous System in relationship to the development of neurodegenerative diseases).

PATENTS:

Human Tissue Transglutaminase Gene Clone as Device to Detect Celiac Disease. U.S. Patent No. : UTHSCH/HOU:001GS (24/04/2000).

TEACHING ACTIVITIES:

Dr. Gentile has been Cultor of Biochemistry and Enzimology at the Medical School, Second University of Naples from the year 1991 to the year 2001.

Dr. Gentile has been Teacher of Molecular Biology at the Doctorate in Digestive and Nutritional Physiopathology, Second University of Naples during the year 1998.

Dr. Gentile is Teacher of Cellular Biochemistry for the Residents in Food Sciences, Second University of Naples, during the years 1999-2010.

Dr. Gentile is Teacher of Methodologies of Genetic Diagnoses for the Residents in Clinical Biochemistry and Molecular Biology, Second University of Naples, during the years 2000-2010.

Dr. Gentile is Teacher of Biochemistry at the Second University of Naples for the Residents in Paediatric Neuropsychiatry since the year 2000, in Neurology since the year 2001 and in Psychiatry since the year 2011.

Dr. Gentile is Teacher of Biochemistry in the School of Nursing, Second University of Naples since the year 2002.

Dr. Gentile is Teacher of Biochemistry in the School of Physiotherapy, Second University of Naples since the year 2002.

Dr. Gentile is Teacher of Biochemistry in the School for Technicians of the Neuro- and Psicomotricity of the Evolution Age, Second University of Naples since the year 2003.

Dr. Gentile is Teacher of Biochemistry at the Doctorate in Biochemical Sciences and Biotechnologies, Second University of Naples since the year 2003.

ASSISTANCE ACTIVITY:

Dr. Gentile is working as medical doctor at the the Department of Precision Medicine, University of Campania “Luigi Vanvitelli” since the year 1991.

A-BIBLIOGRAPHY

- 1) PORTA R., CAMARDELLA M., **GENTILE V.**, DE SANTIS A.
Are the methionine sulfoximine-induced seizures specifically related to the increase of spermine production?
Ital. J. Biochem. v. 31, p. 282-284, 1982.
- 2) PORTA R., CAMARDELLA M., **GENTILE V.**, and DE SANTIS A.
Cerebral polyamine metabolism: inhibition of spermidine biosynthesis by dicyclohexylamine.
J. Neurochem. v. 42, p. 321-325, 1984.
- 3) PAONESSA G., METAFORA S., TAJANA G., ABRESCIA P., DE SANTIS A., **GENTILE V.**, and PORTA R.
Transglutaminase-mediated reactions of the rat sperm surface in vitro.
Science v. 226, p. 852-856, 1984.
- 4) PORTA R., ESPOSITO C., FUSCO A., **GENTILE V.**, IANNONE M. and METAFORA S.
Role of transglutaminase in the maturation of mammalian spermatozoon.
Ital. J. Biochem. v. 34, p. 450-452, 1985.
- 5) PORTA R., PELUSO G., ESPOSITO C., FUSCO A., **GENTILE V.**, and METAFORA S.
Suppression of rat epididymal sperm antigenicity in vitro by transglutaminase and one of the major protein secreted from the rat seminal vesicle epithelium (SV-IV).
Ital. J. Biochem. v. 36, p. 35-37A, 1987.
- 6) PORTA R., **GENTILE V.**, MIGLIAVACCA M., CAPANO G., AURICCHIO S.
Transglutaminase activity in rat jejunal mucosa: possible role of the enzyme in the pathogenesis of gluten sensitive enteropathy.
Ital. J. Biochem. v. 36, p. 293-295A, 1987.
- 7) **GENTILE V.**, ESPOSITO C., FUSCO A., POPOLI M., and PORTA R.
Spermine binding to subsynaptosomal fractions of rat brain cortex.
Neurochem. Res. v. 13, p. 369-376, 1988.
- 8) PORTA R., ESPOSITO C., **GENTILE V.**, FUSCO A., PELUSO G., and METAFORA S.
Beta-lipotropin 61-76 and 61-91 fragments act as transglutaminase substrates in vitro.
Neuropeptides, v. 11, p. 89-92, 1988.

9) PORTA R., ESPOSITO C., **GENTILE V.**, MARINIELLO L., PELUSO G. and METAFORA S.

Transglutaminase-catalyzed modifications of SV-IV, a major protein secreted from the rat seminal vesicle epithelium.

Int. J. of Peptide and Protein Res., v. 35, p. 117-122, 1990.

10) PORTA R., **GENTILE V.**, ESPOSITO C., MARINIELLO L. and AURICCHIO S.

Cereal dietary proteins with sites for cross-linking by transglutaminase.

Phytochemistry, v. 29, n. 9, p. 2801-2804, 1990.

11) AURICCHIO S., DE RITIS G., DE VINCENZI M., **GENTILE V.**, PORTA R., and RAI A V.

Amines protect in vitro the coeliac small intestine from the damaging activity of gliadin peptides.

Gastroenterology, v. 99, n. 6, p. 1668-1674, 1990.

12) **GENTILE V.**, SAYDAK M., CHIOCCA E. A., AKANDE N., BIRCHBICKLER P. J., LEE K. N., STEIN J. P., and DAVIES P.J.

Isolation and characterization of cDNA clones to mouse macrophage and human endothelial cell tissue transglutaminase.

J. Biol. Chem. v. 266, p. 478-483, 1991.

13) **GENTILE V.**, THOMAZY V., PIACENTINI M., FESUS L., and DAVIES P.J.A.

Expression of tissue transglutaminase in Balb-C 3T3 fibroblasts: effects on cellular morphology and adhesion.

J. Cell Biol., v. 119, n. 2, p. 463-474, 1992.

14) ESPOSITO C., MARINIELLO L., **GENTILE V.**, METAFORA S., and PORTA R.

Purification and partial characterization of transglutaminase secreted from the rat anterior prostate.

Life Chemistry Reports, v. 10, p.143-150, 1992.

15) MARINIELLO L., ESPOSITO C., **GENTILE V.**, and PORTA R.

Transglutaminase covalently incorporates amines into human immunodeficiency virus envelope glycoprotein GP120 in vitro.

Int. J. Peptide and Protein Res., v. 42, p. 204-206, 1993.

16) ESPOSITO C., **GENTILE V.**, MARINIELLO L., and PORTA R.

Immunologic properties of rat coagulating gland transglutaminase.

Ital. J. Biochem., v. 42, p. 75-76A, 1993.

17) **GENTILE V.**, DAVIES P. J. A., and BALDINI A.

The human tissue transglutaminase gene maps on chromosome 20q12 by in situ fluorescence hybridization.

Genomics, v. 20, n. 2, p. 295-297, 1994.

18) MELINO G., ANNICHIARICO-PETRUZZELLI M., PIREDDA L., CANDI E., **GENTILE V.**, DAVIES P. J. A., and PIACENTINI M.

Tissue transglutaminase and apoptosis: sense and antisense transfection studies with human neuroblastoma cells.

Mol. and Cell. Biol., v. 14, n.10, p. 6584-6596, 1994.

19) JOHNSON S. T., KNIGHT C. R. L., EL-ALAOUI S., MIAN S., REES R. C., **GENTILE V.**, DAVIES P. J. A., and GRIFFIN M.

Transfection of tissue transglutaminase into highly malignant hamster fibrosarcoma leads to a reduced incidence of primary tumour growth.

Oncogene, v.9, p. 2935-2942, 1994.

20) ESPOSITO C., **GENTILE V.**, DI PIERRO P., COZZOLINO A., PUCCI P., FERRANTI P., and PORTA R.

Striking homology between transglutaminase secreted by the rat coagulating gland and the cDNA-derived amino acid sequence of DP1, a protein occurring in both anterior and dorsal rat prostate.

Ital. J. Biochem., v. 43, n. 4, p. 203-204A, 1994.

21) **GENTILE V.**, GRANT F., PORTA R., and BALDINI A.

Localization of the human prostate transglutaminase (Type IV) gene (TGM4) to chromosome 3p21.33-p22 by in situ fluorescence hybridization.

Genomics, v. 27, p. 219-220, 1995.

22) LU S., SAYDAK M., **GENTILE V.**, STEIN J.P., and DAVIES P.J.A.

Isolation and characterization of the human tissue transglutaminase promoter.

J. Biol. Chem., v. 270, p. 9748-9755, 1995.

23) MIAN S., EL ALAOUI S., LAWRY J. **GENTILE V.**, DAVIES P.J.A. and M. GRIFFIN.

The importance of the GTP binding protein tissue transglutaminase in the regulation of cell cycle progression.

FEBS Letters, v. 370, p. 27-31, 1995.

24) PELUSO G., PETILLO O., MAZZARELLA L., LA CARA F., SADA A., DAVIES P.J.A., and **GENTILE V.**

Cell-biomaterial interactions: role of transglutaminase enzyme.

J. Mat. Sci. Mater. M., v. 7, p. 707-711, 1996.

25) **GENTILE V.**, PORTA R., CAPUTO I., DI PIERRO P., CHIOSI E., SPINA A., VALENTE F., PEZONE R., and ILLIANO G.

Functional implications of human tissue transglutaminase in the modulation of signal transduction via G-proteins.

Ital. J. Biochem., v. 45, n. 1, p. 59-60, 1996.

26) PASSEGGIO A., **GENTILE V.**, BENINATI S., NICOLINI L., MATRONE G., and ABBRUZZESE A.

Tissue transglutaminase expression in Balb-c 3T3 fibroblasts affects hypusine metabolism.

Ital. J. Biochem. v. 45, n. 2, p. 109-110, 1996.

27) **GENTILE V.**, PORTA R., CHIOSI E., SPINA A., CAPUTO I., VALENTE F., PEZONE R., DAVIES P.J.A. and ILLIANO G.

Tissue transglutaminase and adenylate cyclase interactions in Balb-C 3T3 fibroblast membranes.

Biochim. Biophys. Acta, v. 1357, n. 1, p. 115-122, 1997.

28) PIREDDA L., AMENDOLA A., COLIZZI V., FARRACE M.G., DAVIES P.J.A., FRAZIANO M., **GENTILE V.**, URAY I., PIACENTINI M., and FESUS L.

Lack of "tissue transglutaminase" protein cross-linking leads to leakage of macromolecules from dying cells: relationship to development of autoimmunity in MRL lpr/lpr mice.

Cell Death and Differentiation, v. 4, p. 463-472, 1997.

29) **GENTILE V.**, PEZONE R., VALENTE F., MINARDI C., TRINCHESE G., NAVIGLIO S., SPINA A., CHIOSI E., ILLIANO G.

A novel G-protein active on signal transduction.

Ital. J. Biochem., v.46, p. 41-42, 1997

30) **GENTILE V.**, SEPE C., CALVANI M., MELONE M.A.B., COTRUFO R., COOPER A.J.L., BLASS J.P. and PELUSO G.

Tissue transglutaminase-catalyzed formation of high molecular weight aggregates *in vitro* is favored with long polyglutamine domains: A possible mechanism contributing to CAG-triplet diseases.

Arch. Biochem. Biophys., v. 352, p. 314-321, 1998.

31) BENINATI S., **GENTILE V.***, CARAGLIA M., LENTINI A., PASSEGGIO A., and ABBRUZZESE A.

Tissue transglutaminase expression affects hypusine metabolism in BALB-c 3T3 cells.

FEBS Letters, v. 437, p. 34-38, 1998 . * First co-author.

32) SPINA M C., TRINCHESE G., PEZONE R., PICCOLO E., PAGANO M., CUSITORE B., SPINA A M., CHIOSI E., **GENTILE V.**, ILLIANO G.

A role for an "heavy" G-protein on the modulation of the adenylate cyclase activity.

Italian Journal of Biochemistry, v. 47, n.3, p. 212-214, 1998.

33) COOPER A.J.L., SHEU K-F.R., BURKE J.R., STRITTMATTER W.J., **GENTILE V.**, PELUSO G, and BLASS J.P.

Pathogenesis of inclusion bodies in (CAG)_n/Q_n-expansion diseases with special reference to the role of tissue transglutaminase and to selective vulnerability.
J. Neurochem. , v.72, p.889-899, 1999.

34) GIONTI E., SANCHEZ M., ARCELLA A., PONTARELLI G., TAVASSI S., **GENTILE V.**, COZZOLINO A., PORTA R.

Tissue transglutaminase expression in quail embryo chondrocytes.
Cell Biol. International., v. 23, n. 1, p. 41-49, 1999.

35) PASQUALI D., ROSSI V., PREZIOSO D., **GENTILE V.**, COLANTUONI V., LOTTI T., BELLASTELLA A., SINISI A.A.

Changes in tissue transglutaminase activity and expression during retinoic acid-induced growth arrest and apoptosis in primary cultures of human epithelial prostate cells.
J. Clin. Endocrinol. Metab. v. 84, n.4, p.1463-9, 1999.

36) SEPE C., D'AMICO B., VIOLANTE V., ILLIANO M., PELUSO G., MELONE M., COTRUFO R., **GENTILE V.**

A Biochemical Mechanism for a Transglutaminase-Mediated Cell Death in CAG Triplet Diseases: Tissue Transglutaminase-Catalyzed Formation of High Molecular Weight Aggregates With Extended Polyglutamine Peptides and Glyceraldehyde 3-Phosphate Dehydrogenase.
Italian Journal of Biochemistry, vol. 48, n.3, p.176, 1999.

37) VIOLANTE V., LUONGO A., PEPE I., ANNUNZIATA S., and **GENTILE V.**

Transglutaminase-dependent formation of protein aggregates as possible biochemical mechanism for polyglutamine diseases.
Brain Research Bulletin, v. 56, n. 3-4, p. 169-172, 2001.

38) **GENTILE V.**, VIOLANTE V., D'AMICO B., ILLIANO M., LUONGO A.
Tissue transglutaminase and coeliac disease: potential molecular mechanisms for other human diseases.

Neurochemistry International, v.40, n.1, p. 79-83, 2002.

39) A.J L. COOPER, T.M. JEITNER, **V. GENTILE** and J. P. BLASS

Cross linking of polyglutamine domains catalyzed by tissue transglutaminase is greatly favored with pathological-length repeats: does transglutaminase activity play a role in (CAG)_n/Q_n-expansion diseases?
Neurochemistry International, v. 40, n. 1, p. 53-67, 2002.

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Abnormal Accumulation of tTGase Products in Muscle and Erythrocytes of Chorea-Acanthocytosis Patients.
Journal of Neuropathology and Experimental Neurology, v. 61, n. 10, p. 841–848, 2002.

41) **V. GENTILE**, A.J.L. COOPER.
Transglutaminases - possible drug targets in human diseases.
Current Drug Targets – CNS & Neurological Disorders, v. 3 n. 2 p.99-104, 2004.

42) I. PEPE, E. OCCHINO, G. CELLA, A. LUONGO, F. GUARDASCIONE and **V. GENTILE**
Biochemical mechanisms for a possible involvement of the transglutaminase activity in the pathogenesis of the polyglutamine diseases.
Amino Acids, v.26, n.4, p. 431-434, 2004.

43) G. AMANTEA, M. CAMMARANO, L. ZEFFERINO, A. MARTIN, G. ROMITO, M. PICCIRILLO, and **V. GENTILE**
Molecular mechanisms responsible for the involvement of tissue transglutaminase in human diseases: celiac disease.
Frontiers in Biosciences, v. 11, p. 249-255, 2006.

44) A. MARTIN, G. ROMITO, I. PEPE, G. DE VIVO, M.R. MEROLA, A. LIMATOLA and **V. GENTILE**
Transglutaminase-Catalyzed Reactions Responsible for the Pathogenesis of Celiac Disease and Neurodegenerative Diseases: From Basic Biochemistry to Clinic.
Current Medicinal Chemistry, v. 13, n. 16, pp. 1895-1902, 2006.

45) I. PEPE, G. AMANTEA, C. PEPE e **V. GENTILE**.
L'esperienza del Neurologo: la Corea di Huntington.
Il giornale del linguaggio universale: DNA e..., anno I, v.3, p.22-25, 2007.

46) G. DE VIVO, A. MARTIN, T. TROTTA and **V. GENTILE**
Role of Transglutaminase-Catalyzed Reactions in the Post-Translational Modifications of Proteins Responsible for Immunological Disorders
Inflammation & Allergy - Drug Targets, v. 7, p. 24-29, 2008.

47) G. DE VIVO and **V. GENTILE**
Transglutaminase-catalyzed post-translational modifications of proteins in the Nervous System and their possible involvement in Neurodegenerative Diseases.

CNS & Neurological Disorders - Drug Targets, v.7, n. 4, p. 370-375, 2008.

48) DE VIVO G, DI LORENZO R, RICOTTA M, and **GENTILE V.**
Role of the Transglutaminase Enzymes in the Nervous System and their possible involvement in Neurodegenerative Diseases.
Current Medicinal Chemistry, vol. 16, p. 4767-4773, 2009.

49) M. RICOTTA, M. IANNUZZI, G. DE VIVO and **V. GENTILE**
Physio-pathological roles of the transglutaminase-catalyzed reactions.
World Journal of Biological Chemistry, vol. 1 (5), p. 181-187, 2010.

50) ANTONIO MARTIN, GIULIA DE VIVO, MARIANGELA RICOTTA, MAURA IANNUZZI, and **VITTORIO GENTILE**
Transglutaminases as Possible Therapeutic Targets in Neurodegenerative Diseases.
Recent Patents on CNS Drug Discovery, vol. 5, n. 3, p. 195-202, 2010.

51) ANTONIO MARTIN , GIULIA DE VIVO and **VITTORIO GENTILE**
Possible role of the Transglutaminases in the pathogenesis of Alzheimer's disease and other Neurodegenerative diseases.
International Journal of Alzheimer's Disease, article ID 865432, p. 1-8, volume 2011.

52) **V. GENTILE**
Physiopathological roles of human transglutaminase 2.
Advances in Enzymology and Related Areas of Molecular Biology. vol. 78, p. 47-96, 2011.

53) ANTONIO MARTIN, GIULIA DE VIVO, MARTINA IANNACCONE, ALESSANDRO STEFANILE, ENRICA SERRETIELLO and **VITTORIO GENTILE**
Pathophysiological Roles of Transglutaminase - Catalyzed Reactions in the Pathogenesis of Human Diseases.
Inflammation & Allergy - Drug Targets, vol 11, n. 4, p. 278-284 , 2012.

54) MARTINA IANNACCONE , ALESSANDRO STEFANILE, GIULIA DE VIVO, ANTONIO MARTIN, ENRICA SERRETIELLO and **VITTORIO GENTILE**.
Transglutaminase inhibition: A therapy to protect cells from death in neurodegeneration?
World Journal of Biological Chemistry, v. 3, n. 11, p. 184-186, 2012.

55) ANTONIO MARTIN, ALESSANDRO GIULIANO, DOMENICO COLLARO, GIULIA DE VIVO, CARLA SEDIA, ENRICA SERRETIELLO and **VITTORIO GENTILE**.

Possible involvement of transglutaminase-catalyzed reactions in the physiopathology of neurodegenerative diseases.
Amino Acids, v. 44, p.111-118, 2013.

56) MARTINA IANNACCONE, ALESSANDRO STEFANILE e **VITTORIO GENTILE**.

Un modello di malattia da poliglutammine: clinica e diagnosi della Corea di Huntington.
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