

## **BIOGRAPHICAL NOTES**

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### **Education and employment history**

B.Sc.Chemistry (1979), PhD «Structural studies of E.coli ribosomal protein L11” in Max – Planck Institute for Molecular Genetics, Berlin

(1985), Disputation of the dissertation in Aristotle University of Thessaloniki, Department of Chemistry, Laboratory of Biochemistry under the supervision of Prof.J. Georgatsos. Post-Doctoral Researcher (1985-1989) as Max Planck fellow for one year and the next time of research as DFG scientist focusing on the elucidation of proteins’ primary structure by using gas phase sequencing based on Edman degradation. I am a member of the Biochemistry laboratory of the Department since October 1989 after election as Lecturer, Assistant Professor, Associate Professor and as full Professor (2011), until now.

**Awards:** As Post Doc (Max Planck fellow one year (1985-1986), visitor researcher (Max Planck fellow July-August, 1990), visitor researcher with EMBO short term fellowship (1993) collaborating with Dr. A.Yonath (awarded a Nobel Prize for Chemistry, 2009 for *T.thermophilus* crystallized ribosomes) and Dr. B. Wittmann-Liebold , visitor researcher (Max Planck fellow 1993 and later ,1997) working on the primer structure elucidation of ribosomal *Thermus thermophiles* proteins.

### **Research achievements**

**Single molecule experiments:** watching one ribosome translating the GFP protein that is not released from the ribosome due to specific molecular biology manipulations. *This publication has been characterized as VIP paper (Very Important Paper) and has been executed in the frame of A. Katranidis PhD, disputation, AUTH, NanoSciences and NanoTechnologies under my supervision in collaboration with the research center of Julich, Germany.*

Katranidis A., Atta, D., Schlessinger R., Nierhaus K., Choli-Papadopoulou T., Gregor I., Gerrits M, Buldt G., and Fitter J.: Fast Biosynthesis of GFP Molecules: A Single – Molecule Fluorescence Study. *Angew. Chem. Int. Ed.*, 2009, 48, 1-5. (PDF<sup>1</sup>)

**Abstract:** It's not easy being green: Real-time visualization of labeled ribosomes and de novo synthesized green fluorescent protein molecules using single-molecule-sensitive fluorescence microscopy demonstrates that the mutant GFPem is produced with a characteristic time of five minutes. Fluorescence of the fastest GFP molecules appears within one minute (see video).

### **Working with ribosomal proteins from *Thermus thermophiles***

In the frame of collaboration with **Dr. A. Yonath**, after my Post Doc and at begin of my academic carrier in Greece an extremely small ribosomal protein has been isolated from the thermophilic bacterium *Thermus thermophiles*, a constituent of the small 30S subunit. **Thx** forms part of the 30S ribosomal subunit. It fits into a cavity between multiple RNA elements in the top of the 30S subunit head and stabilizes the organisation of these elements. I named the protein **Thx** -due to the absence of any kind of similarity to other known at the moment ribosomal proteins - (from **Thermus x** protein, or **Theodora Xoli**) and with that name it is used in the international literature.

(PDF<sup>2</sup>, and a link [https://www.researchgate.net/figure/Illustration-of-the-26-residue-Thx-protein-currently-known-to-exist-only-with-Thermus\\_fig2\\_277348455](https://www.researchgate.net/figure/Illustration-of-the-26-residue-Thx-protein-currently-known-to-exist-only-with-Thermus_fig2_277348455))

The **Nobel Prize in Chemistry 2009** was awarded jointly to **V.Ramakrishnan, Thomas A.**

**Steitz** and **Ada E. Yonath** "for studies of the structure and function of the ribosome» and the investigated crystals were from the prokaryotic organism *Thermus thermophiles*.

**Languages:** English and Deutsch

## **Teaching experience / Education**

- Supervisor of 10 PhD already finished and 3 more are under supervision , 60 B.Sc. and 30 Ms.

- Since 1989 lectures in Biochemistry, Biotechnology, Protein Engineering, Enzymology for graduate or post graduate students in the Chemical and Biological department of AUTH.
- Since 2003, lectures of special biochemical topics as molecular motors, biomaterials and biofunctionalization in the frame of the educational interdisciplinary and post graduate program of the *Nanosciences and Nanotechnologies of the AUTH*. Lectures are also specified in topics related to cell differentiation for osteogenesis/ chondrogenesis.
- Since 2013 lectures for bachelor students in Structural Biochemistry and Basic Principles of Bioinformation

## Seminars/Lectures

1. Munich 18/4/1988 in the frame of special seminars “ User Seminar Protein/Peptide” from ABS company entitled “ Verbesserung der Injektions-Reproduzierbarkeit am 477A/120A” .
2. Hamburg , 23/7/1990 at Max-Planck for structural and Molecular Biology entitled “ Advances in Microsequencing and their applications to speedy Characterization of ribosomal proteins from *Thermus thermophilus*”
3. Berlin, August 1991 at Frei University of Berlin entitled “Structural Studies on the L11 ribosomal protein from *E.coli*” .
4. Athens, January 1992 at ΕΚΕΦΕ Demokritos, at the Laboratory of Biology entitled. “Biochemical and Protein Chemistry Methods”.
5. Berlin, October 1987, at Max-Planck Institute for Molecular Genetics entitled «Manual sequencing”, in the frame of Advanced FEBS course on Microsequence Analysis of Proteins.
6. Sanghai, China, May, 1989 in the frame of, 4/5/1989, “Protein Analytical Course” that was organized by the Sinic Academy and MPI, entitled “HPLC of proteins and peptides”.
7. Chalkidiki, Greece , 1995 on FEBS Advanced Course On Methods In Protein Structure Analysis entitled “Separation of peptides using HPLC and TLC-Fingerprints”
8. Berlin, October 1995 entitled “Separation of Peptides”, in the frame of EMBO practical Course on Microsequence Analysis of Proteins.
9. Patras, Greece May 1998 on the Workshop Leonardo Da Vinci entitled “Micro-characterization of Proteins and Peptides”.
10. Berlin, September 1999 on the EMBO, Practical Course on Protein purification and Microcharacterization entitled «Denaturation, Reduction, Alkylation. Determination of cystine and disulfide bridges».
11. Berlin, July 2003 on the Conference for Genes, Gene Families and Isozymes entitled «On the structural and functional importance of the highly conserved Glu56 of *Thermus thermophilus* L4 ribosomal protein»
12. Berlin , November 2004 at Max-Planck Institute for Molecular Genetics entitled «Old and New Stories about *Helicobacter pylori*»
13. Paris, September 2004 in the frame of Erasmus programme between the Aristotle University of Thessaloniki and the Laboratory of Research for

- Polymers Paris 12, entitled «On the Structural and Functional Importance of the highly conserved Glu56 of *Thermus thermophilus* L4 ribosomal protein».
14. Thessaloniki, April 2005 in the Pharmacology Laboratory of Pharmacie Aristotle University of Thessaloniki entitled "Interactions between erythromycin with E.coli ribosomes wild type and mutants.
  15. Athens, November 2005, at the Kapodistrian University, School of Chemistry entitled "Structure Function relationship of HPNAP protein from *Helicobacter pylori*: DNA protection and neutrophil activation".
  16. Athens, 57<sup>th</sup> Conference of HSBMB, December 2005 entitled «The *Helicobacter Pylori* Neutrophil Activated Protein (HPNAP) protects DNA without direct binding and triggers the neutrophil activation both as dodecamer and monomer".
  17. "Scientific Interdisciplinary" during a Meeting organized by the Physical Department of AUTH, December 2005.
  18. Patras, Greece, March 2006, during the 9<sup>th</sup> Workshop organized by Prof. K. Nierhaus from MPI Berlin on «Experimental Strategies for Ribosomal Research». The title of my lecture was «On the implication of S5 ribosomal protein from mouse in cell differentiation and its cellular localization».
  19. Chios, Greece, May, 2006 in the frame of special seminars organized by the Center of Environmental Education with the title "Effects of mastic gum *lentiscus* var *Chia* on innate immunesystem.
  20. Thessaloniki, Greece, July, 2006 at the 19<sup>th</sup> Panhellenic Conference/Summer School, Nonlinear Science and Complexity. The title of my lecture was «Complexity in Biology: Scale free systems».
  21. Thessaloniki, October 2006, in the Pharmacology Laboratory of the Department of Pharmacy, Aristotle University of Thessaloniki entitled "Structure function relationship of HPNAP: DNA protection and neutrophil activation".
  22. Berlin, May 2007 in the frame of a Meeting dedicated to the ribosomal research organized by the MPI of Berlin. The title of my contribution was «Transfer of Ribosomal Research: From Bacteria to eukaryotes».
  23. Thessaloniki, June, 2007 on "Workshop on cancer Research, Molecular, cellular and Therapeutic Aspects of Cancer .The title of my lecture was «Intracellular trafficking of ribosomal protein S5 in malignance cells».
  24. Thessaloniki, July 2007 on the 4<sup>th</sup> International Workshop on Nanosciences and Nanotechnologies and the 1st Summer School organized by the Physical Department of Aristotle University of Thessaloniki . The title of my lecture was «Protein biotinylation and their attachment on surfaces for biological proposes».
  25. Thessaloniki, October, 2007 on the 27<sup>th</sup> Hellenic Conference for Gastreterology. The title of my contribution was «Co-function of AGPs from mastic var *Chia* and *Helicobacter pylori* inflammation"
  26. «Structural and functional properties of HPNAP protein from the pathogenic bacterium *H.pylori*», Patras University, May, 2008
  27. «*Helicobacter Pylori* Neutrophil Activating Protein (HP-NAP): Novel Structural- Functional- Approaches», National Research institute, Athens, June, 2008
  28. «Protein Engineering towards biofunctionalization» In the frame of 2<sup>nd</sup> International Summer School on Nanosciences and nanotechnologies SS-NN08, Thessaloniki, July, 2008.

29. "Role of HPNAP protein in activating the human neutrophils" in the frame of 4<sup>th</sup> Workshop (Fourth Workshop for Clinical proteomics) August, YOKOHAMA, Japan, to 2008.
30. «Challenge for the future: Nanotechnology in Bio-Chemistry», Physics Department, November 2008, Thessaloniki, Greece
31. «Nanobiotechnology and Proteins»: in the frame of 3<sup>rd</sup> Summer School of nanosciences and Nanotechnology, Thessaloniki, Greece, 2009.
32. «Intracellular trafficking of rpS5 from cytoplasm to nucleolar in the frame of daily meeting: From gene regulation to biotechnology. Thessaloniki, Greece , December, 2009.
33. «Ribosomal protein S5 and ribosome biogenesis: nanotechnological approach of protein synthesis. Faculty of Biochemistry and Biotechnology, University of Thessalia, Greece, 2010.
34. Bio-functionalization of polymeric surfaces and scaffolds by using biotin/streptavidin strategies. 4<sup>th</sup> International School on Nanosciences and Nanotechnologists, Chalkidiki, Greece, 2010
35. The same lecture as above has been given to the same 5<sup>th</sup> and 6<sup>th</sup> International School on Nanosciences and Nanotechnologists, Thessaloniki, Greece, 2011 and 2012
36. Invited in Rehovot (University of Jerusalem) for a lecture with the title "The activation of neutrophils by the Helicobacter pylori neutrophil activating protein (HPNAP): new approaches for drug development" , Israel ( 2014)
37. How to "create" intelligent materials endowed with biofactors" , Summerschool Nanotechnology, Thessaloniki , 2014 and the same talk has been given on 2015 at the same conference.
38. Invited speaker for V. Xanthopoulos awards in Drama (North Greece) 18, April, 2016. The title of the lecture was "Protein's functionality of health level"
39. "Intelligent" materials Summerschool Nanotechnology, Thessaloniki , 2017
40. "New approaches for osteogenesis and chondrogenesis" , Papageorgiou Hospital, Thessaloniki, 2018

## Other Activities

- Secretary of 9<sup>th</sup> Balcan Conference of Biochemistry and Biophysics that was organized 1992 at Thessaloniki
- Organizer and Chairman of the FEBS Lecture Course in Chalkidiki, May 1995
- Member of the Organizing Committee of 11<sup>th</sup> Balkan Conference of Biochemistry and Biophysics , Thessaloniki, May 1997
- Co-Chairman (with Prof. N. Karamanos) of the LEONARDO Da VINCI workshop, "Techniques for micro-separation" , Patras, May 1998
- Organizer and Co-chairman (with Prof. D.A. Kyriakidis) of the 12<sup>th</sup> International MPSA Conference (XIIth MPSA, Methods on Protein Structure Analysis), Chalkidiki, September 1998.
- Member of the Organizing Committee of 13<sup>th</sup> International MPSA Conference ( Methods on Protein Structure Analysis) , Charlottesville, Virginia USA , September 2000

- Chairman of the field related to Conceptual and Technological Advances for Protein Structure Analysis II during the 13<sup>th</sup> MPSA Charlottesville, Virginia USA , September 2000
- Chairman of the field related Protein Characterization by MS spectrometry during the 14<sup>th</sup> MPSA, Valencia Spain, September 2002.
- Member of the International Committee for Edman Awards for the best publications in the field of Protein Chemistry for the years 1998-today.
- Member of the Board of IAPSAP (International Association for Protein Structure Analysis and Proteomics) from May 1998 -today.
- Member of the Board of Hellenic Society for Biochemistry and Molecular Biology for the years 1994 and 1995.
- General Secretary of the Hellenic Society for Biochemistry and Molecular Biology for the years 1996 and 1997.
- Treasurer of the Hellenic Society for Biochemistry and Molecular Biology for the years 1998 and 1999.
- Member of Returning Board of Hellenic Society for Biochemistry and Molecular Biology for the years 1999-2005
- Member of the General Assembly of the Department of Chemistry Aristotle University of Thessaloniki for the years 1993 -1995 , 1998-1999, 2005-2006 and 2007-2008
- Member of the Committee of Department of the Department of Chemistry , Aristotle University of Thessaloniki for student's Optional Course Summer Training for the years 2004-2008
- Vice President of the Department of Chemistry, Aristotle University of Thessaloniki for the years 2005-2007.
- Member of Board of Directors of the Department of Chemistry, Aristotle University of Thessaloniki for the years 2005-2007.
- Editor of the Springer Verlag book entitled "Protein Structure Analysis, Preparation, Characterization and Microsequencing" 1996, (Eds, R. M. Kamp, T. Choli-Papadopoulou and B. Wittmann-Liebold).This book has been also translated to Chinese.
- Guest Editor ( with Prof. DA Kyriakidis ) in the International Journal of Protein Chemistry Special Edition for Short Communications of the 12<sup>th</sup> MPSA Conference held in Chalkidiki, September , 1998
- Editor of the Springer Verlag Book entitled " Methods in Proteome and Analysis", 2000, (Eds R.M. Kamp,D.A. Kyriakidis and T. Choli-Papadopoulou).
- Editor of the Springer Verlag Book entitled " Methods in Proteome and Protein Analysis" , 2003, ( Eds R.M. Kamp, J. Calvette and T. Choli-Papadopoulou )
- Supervisor of 10 Doctoral Theses. Three more are under my supervision at the moment. Additionally I have been supervisor of 60 Masters and 30 Diploma Theses.
- Co-chairman of 3<sup>rd</sup> Workshop on Nanosciences and Nanotechnologies NN06, Thessaloniki, July, 2006.
- Chairman of presentations related with Post-Translational Modifications of Proteins during the 16<sup>th</sup> MPSA , August 2006, Lille ,France
- Member of the Committee for the evaluation of Posters presented during the 58<sup>th</sup> Conference of Hellenic Society for Biochemistry and Molecular Biology , Patras, December, 2006

- Co-Chairman of the 4<sup>th</sup> Workshop on Nanosciences and Nanotechnologies NN06, Thessaloniki, July 2007.
- Member of the committee for awards given to the best oral and poster presentation in the frame of the 4<sup>th</sup> Workshop on Nanosciences and Nanotechnologies NN06, Thessaloniki, July, 2007.
- Representative of the Department of Chemistry, Aristotle University of Thessaloniki in the Committee of Social Relationships for the years 2007-2008.
- Member of the Committee for the evaluation of Posters presented during the 59<sup>th</sup> Conference of Hellenic Society for Biochemistry and Molecular Biology , Athens, December, 2007
- Member of the Advisory Committee of the 17<sup>th</sup> International MPSA that will take place at Sapporo ,Japan ,August 2008.
- Director of Biochemical Laboratory, School of Chemistry, Aristotel University of Thessaloniki , since 2007
- Co-Chairman of the 5<sup>th</sup> Workshop on Nanosciences and Nanotechnologies NN06, Thessaloniki, July 2008.
- Member of the committee for awards given to the best oral and poster presentation in the frame of the 5<sup>th</sup> Workshop on Nanosciences and Nanotechnologies NN06, Thessaloniki, July, 2008.
- Co-Chairman of the 6<sup>th</sup> Workshop on Nanosciences and Nanotechnologies NN06, Thessaloniki, July 2009.
- Member of the committee for awards given to the best oral and poster presentation in the frame of the 6<sup>th</sup> Workshop on Nanosciences and Nanotechnologies NN06, Thessaloniki, July, 2009.
- Since 2011 ,evaluator for Marie Curie EU, proposals
- Evaluator of scientific proposal from Portugal
- Since 2014 ( for second time) Director of the Laboratory of Biochemistry, School of Chemistry, AUTH
- Since November 2015 until August 2017, President of Chemical Department of AUTH
- Member of Council board of International University of Greece

## RESEARCH PROPOSALS

- **Volkswagen Stiftung GREECE-GERMAN**,1992 (PI)
- **BILATERAL PROGRAMME GREECE-GERMANY** ,1994 «Identification and Microcharacterization of the ribosomal proteins from the eubacterium *T. thermophilus* by Edman degradation and mass spectrometry” (PI)
- **PENED** , 1995, « Structural and Functional Studies of S14 ribosomal Protein from *T. Thermophilus* possessing Zn finger structure’ (PI)
- **PENED**, 1995, “Studies of the proteolytic machinery of lactic bacteria” in cooperation with A. Bafopoulou



- **PENED 1999**, «Structural and functional studies of ribosomes with biotechnological Importance» in co-operation with the University of Patras and The Kapodistrian University of Athens.
- **BILATERAL PROGRAMME** (2001-2003) with the Institute of Bioorganic Chemistry of Siberia «Ribosomal and Non-Ribosomal functional Studies of the eukaryotic S5 Protein from human and mouse” with the Prof. G. Karpova. (PI)
- **HERAKLEITOS** (2003- 2005) : «Mastic gum var Chia against Helicobacter pylori Inflammation” (PI)
- **Financial Support of Chios Gum Mastic Producers** for our Studies concerning the implication of mastic gum against Helicobacter pylori inflammation(PI)
- **PENED, 2003** “ Coupled transcription –translational systems for studies concerning the nascent polypeptides” (PI)
- **SYNERGASIA** (2011-2013)«Nanomaterials with bioactive factors for cartilage rebuilding against osteoarthritis» Participation
- **HERAKLEITOS** (2011- 2013) : “Bio-fuctionalization of surfaces for single molecule studies” PI
- **“Thalis”** (2011-2013) : Bioactivity of airborne particulates in relation with their size, morphology and chemical composition (participation)
- **“ΕΡΕΥΝΩ- ΚΑΙΝΟΤΟΜΩ”, ESPA 2014-2020 (2017-2020)** ,PI: The project **ArthroMicroPerMed** combines personalized medical treatment for joint damage (Arthro) with the simultaneous injection of new "intelligent" biomaterials and homologous stem cells isolated from hip or knee for "arthro-neo-genesis" as well as the study of the effect of Microbe metabolites (Micro) in the origin of osteoarthritis.
- **“ΕΡΕΥΝΩ- ΚΑΙΝΟΤΟΜΩ”, ESPA 2014-2020 (2017-2020)** (participation); the project with the acronym **NY2Π** regards the nanotechnological approach of personalized breast cancer therapy by using super-nano-paramagnetic “searfers” of nucleoproteins.
- **‘Synthetic Biology: From OMICS technologies to genomic engineering (OMIC-ENGINE), (2017-2020)** ,participation.

## National and International Collaborations

### National / International Research groups

1. Laboratory of Biological Chemistry Medical Department of Patras University
2. Laboratory of BioChemistry of Chemical Department of Patras University
3. Laboratory of Biological Chemistry, University of Ioannina
4. Laboratory of Biochemistry, Biological Department, University of Athens
5. Department of Biochemistry and Biotechnology, University of Thessaly
6. Laboratory of Inorganic Chemistry, Aristotle University of Thessaloniki
7. Laboratory of Organic Chemistry, Aristotle University of Thessaloniki
8. Laboratory for Thin Films- Nanosystems & Nanometrology- LTFN , Physics Department of AUTH)
9. Hospital Papageorgiou, Thessaloniki, Greece
10. Chemical Engineering Department of AUTH, Greece
11. Max Planck Institute for Molecular Genetics
12. Research Centre Jülich, Institute of Complex Systems (ICS-5), 52425 Jülich, Germany
13. INSTITUT JOZEF STEFAN, LJUBLJANA, SI
14. RUHR-UNIVERSITAET BOCHUM, DE POLITECNICO DI TORINO, ITALY
15. H.HIRANO, Yokohama City University
16. COMPANIES

## Research / scientific interests

My research is focused on topics related to proteins structure/function correlation. In particular, ribosomal proteins from prokaryotes and eukaryotes have been studied in the frame of their primary structure, conformation and function.

Protein engineering: mutations, cloning, over expression of their genes, over production of the recombinant proteins and their purification with native methods cellular traffic of mammalian ribosomal proteins with imaging methodologies.

The acquired knowledge was then applied in several similar or close related topics to solve mostly health problems or for elucidating the implication of distinct proteins in bacterial inflammation. Within this frame is included the projected regarding the investigation of natural products (mastic *var Chia*) and interaction of their constituents with the human neutrophils as well as bacterial antigens and their interaction with neutrophils (these studies regard *Helicobacter's pylori* therapy with natural compounds). The collaboration with biophysicists was decided to develop /apply new strategies and techniques in order to bio-immobilize proteins for single molecule experiments following their function with Atomic

Force Microscopy (AFM), Optical tweezers, confocal microscopy and a number of cutting edge nano-technological techniques (Bio-functionalization of inorganic surfaces, thin layers and scaffolds with protein domains, peptides or other functional molecules for implantable products). Besides protein molecules, subcellular molecular motors have been immobilized and their function on molecule level has been investigated and published in highly ranked international journals. At every step of my research the acquired knowledge was transferred to new projects for a deeper research. Thus after and in conjunction to entire protein research we developed, with my collaborators, another way to see closer the protein regions and their amino acids involving in signal transduction pathways for several cell differentiation lines, as osteogenesis, chondrogenesis and the formation of neural networks. In addition techniques as cellular toxicity assessments (MTT, SRB, Comet assay) and also cellular toxicity induced by bacterial metabolites suspicious for several diseases have been adopted and further developed or modified. At the moment our major scientific activities regard the genetically production of ECM ( **Extra Cellular Matrix**) constituents for a personalized injectable “ECM” production as well as the influence of microbiome’s metabolites on implantable biomaterials.

## **Publications**

### **International Journals/Conferences/Abstracts/ Short communications**

1. T. Choli, P. Henning, B. Wittmann - Liebold and R. Reinhardt: Isolation, characterization and microsequence analysis of a small basic methylated DNA - binding protein from the archae bacterium *S. solfataricus* *Biochimica et Biophysica Acta* (1988), 950, 193 – 203
2. H. -R. Graack, L. Grohmann and T. Choli Mitochondrial ribosomes of yeast: isolation of individual proteins and N- terminal sequencing *FEBS Lett.* (1988) 242, 4-8
3. T. Choli, B. Wittmann - Liebold and Reinhardt: Microsequence analysis of DNA - binding proteins 7a, 7b and 7e from the archaeobacterium *S. Acidocaldarius* *J. Biol. Chem.* (1988), 263, 15, 7087- 7093
4. T. Choli, U. Kapp and B. Wittmann – Liebold: Blotting of proteins onto Immobilon membranes, *in situ* characterization and comparison with HPLC *J. Chrom.* (1989), 476, 59-72
5. J. McDougal, T. Choli, V. Kruff, U. Kapp and B. Wittmann-Liebold: The complete amino acid analysis of ribosomal protein S18 from the moderate thermophile *B. stearothermophilus* *FEBS Lett.* (1989), 245, 253-260
6. F. Wedekind, K. Baer-Pontzen, S. Bala-Moham, T.Choli, H.Zahn and D. Brandenburg : Hormone binding site of the insulin receptor. Analysis using photo-affinity mediated avidin complexing *Biol. Chem. Hoppe-Seyler* (1989), 370, 251-258
7. S. Fimmel, T.Choli, N.A.Denscher, G. Bueldt and B. Wittmann-Liebold; Topography of surface exposed amino acids in the membrane protein bacteriorhodopsin determined by proteolysis and micro-sequencing *Biochimica et Biophysica Acta* (1989), 978, 231-24

8. G.H. del Solar, A.G. de la Campa, J. Perez-Martin, T. Choli and M.Espinosa: Purification and Characterization of RepA, a protein involved in the copy number control of plasmid pLS1 *Nucleic Acids Research* (1989), 17, 2405-2420
9. J. Vater, W. Schlumbohm, J. Salnikow, K.D. Irrgand, M. Miklus, T.Choli and H. Kleinkauf:Protein chemical and kinetic features of gramicidin S Synthetase *Biol. Chem. Hoppe Seyler* (1989), 370, 1013-1018
10. T.Choli: Structural properties of ribosomal protein L11 from *E.coli* *Biochemistry International*, (1989), 19, 1323-1338 (μετονομάστηκε σε International Union of Biochemistry and Molecular Biology LIFÉ)
11. T.Choli and B. Wittmann-Liebold: Protein blotting followed by microsequencing. *Electrophoresis* (1990), 29, 9733-9736
12. P.Smooker,T. Choli and A. Subramanian: Ribosomal protein L35. Identification in spinach chloroplasts and isolation of a cDNA clone encoding the cytoplasmic precursor *Biochemistry* (1990), 29, 9733-9736
13. Zierer, R. and T. Choli: The primary structure of DNA-binding protein II from the extreme thermophilic bacterium *Thermus thermophilus* *FEBS Lett.* (1990), 273, 59-62
14. M. Severini, T.Choli, A.la Teana and C.O. Gualerzi: Proteolysis of *Bacillus stearothermophilus* IF2 and specific protection by GTP *FEBS Lett.* (1990), 276, 14-16
15. L. Grohman, H.R. Graack, V. Kruff, T. Choli, S. Goldschmidt-Reisin and M. Kitakawa:Extended N-terminal sequencing of proteins of the large ribosomal subunit from Yeast mitochondria *FEBS Lett.* (1991), 284, 51-56
16. M. Severini, T. Choli, A. La Teana and Gualerzi: Proteolysis of *Bacillus stearothermophilus* IF2 and specific by fMet –tRNA *FEBS Lett.* (1992), 297, 226-228
17. M. Liakopoulou-Kyriakides and T. Choli-Papadopoulou : Synthesis of S-farnesyl-L-Cysteine methylester and purification by HPLC *Amino Acids* (1992), 2, 285-288
18. C. Anagnostopoulos, T. Choli and D.A. Kyriakidis:Allosteric activation by nucleotides of the inactive by phosphatase ornithine decarboxylase of *E.coli* *Bioch. International*, (1992), 27, 991-1000, (International Union of Biochemistry and Molecular Biology LIFÉ)
19. T. Choli, F. Franceschi, B. Wittmann-Liebold and A. Yonath: Isolation and Characterization of a New Ribosomal Protein from the Thermophilic Eubacteria, *T. thermophilus*, *T. aquaticus* and *T. flavus* *Biol. Chem. Hoppe-Seyler* (1993), 374, 377-383
20. B. Boumba, Tsolas, T. Choli-Papadopoulou and K. Seferiadis: Isolation by a New Method and Sequence Analysis of Chromosomal HMG-17 Protein from Porcine Thymus *Archives of Bioch. and Bioph.* (1993), 303, 436-442
21. D. Riedei, J. Heinrich. A. Heising, T.Choli and H. Schuster: The antirepressor of phage P<sub>1</sub>. Isolation and interaction with the C<sub>1</sub> repressor P<sub>1</sub> and P<sub>7</sub> *FEBS Lett.* (1993), 334, 165-169
22. G. Simos, C. Panagiotidis, A. Skoumbas, T.Choli, C. Ouzounis and J. Georgatsos: Barley beta-glucosidase: Expression during seed germination and maturation and partial amino acid Sequence *Bioch. Bioph. Acta* (1994) 1199, 52-54
23. P. Tsiboli, E. Herfurth and T. Choli: Purification and characterization of the 30S ribosomal proteins from the Eubacterium *Thermus thermophilus* *Eur. J. of Bioch.* (1994), 226, 169-177 ( FEBS Journal)
24. P. Tsiboli and T. Choli: On the S14 protein from *Thermus thermophilus* with zinc-finger motifs *Biol. Chem. Hoppe-seyler*, (1995), 376, 127-130
25. Choli-Papadopoulou, T., and Kamp, R.M:Separation of peptides using HPLC and TLC-Finger Prints in Protein Structure Analysis, Preparation, Characterization, and Microsequencing, 1996, 74-83, (Eds, R.M. Kamp, T.Choli-Papadopoulou and B. Wittmann-Liebold, Springer Verlag).

26. T. Choli, Y. Skendros and K. Katsani: A manual Method for Protein Sequence Analysis with the DABIT/PITC in Protein Structure Analysis, Preparation, Characterization and Microsequencing, 1996, 137-151, (Eds, R. M. Kamp, T. Choli-Papadopoulou and B. Wittmann-Liebold, Springer verlag)
27. P. Tsiboli, G. Konstantinidis, Y. Skendros, A. Katsani and T. Choli –Papadopoulou: Identification of post-translational modified amino acids *Amino Acids* (1997), 13, 13-23
28. M. Simitsopoulou, A. Vafopoulou, T. Choli-Papadopoulou and E. Alichanidis : Purification and characterization of a tripeptidase from *pediococcus pentosaceus* K9.2 *Applied and Environmental Microbiol.* (1997), 63, 4872-4876
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