

CURRICULUM VITAE



Present affiliation: Professor of Biochemistry,
Department of Biochemistry-Molecular Biology
National and Kapodistrian University of Athens
Faculty of Biology, Department of Biochemistry
and Molecular Biology
Zografou Campus 15701 Athens, Greece

E-mail: cvorgias@biol.uoa.gr

Tel : +30-210-7274514

Mobile : 6977059263

Athens Oct 2021

ACADEMIC QUALIFICATIONS

1976-1980: National and Kapodistrian University of Athens, School of Natural and Mathematic Sciences, Faculty of Biology

1980 Scholarship at NCRS «Demokritos», Biology Department

1981-1984 PhD candidate at the Natural Sciences Faculty of Karls Ruprecht Heidelberg University, Germany, experimental work at Max-Planck Institut for Cell Biology Heidelberg (Prof. Dr. P. Traub) Max-Planck Scholarship

1985: PhD thesis from the Natural Sciences Faculty of Karls Ruprecht Heidelberg University, Germany

PROFESSIONAL ACTIVITIES

Post-graduate fellowship in the department of Biology, Nuclear Research Centre, "Demokritos" Athens (1980).

Ph-D fellowship from Max-Planck Department for Cell Biology, Heidelberg, Germany, Prof. Dr. Peter Traub (1981-1984).

Visiting scientist at the European Molecular Biology Laboratory, Heidelberg, Germany Structural department. Prof. Dr. D. Tsernoglou (1984-1985).

Military service in the Greek army, lieutenant in reserve (1985-1987).

Senior scientist fellowship of the Biotechnology Program of European Community. Max-Planck Institute for Biophysical Chemistry, Department for Molecular Genetics, Prof. Dr. D. Galwitz (1988-1989).

Staff Scientist at the European Molecular Biology Laboratory, Hamburg-Outstation. Head of Biochemistry-Molecular Biology Laboratory (1989-1996).

Assist. Professor of Biochemistry at the Department of Biochemistry-Molecular Biology, Faculty of Biology of National and Kapodistrian University of Athens (1996-2000).

Assist. Professor (Tenur) of Biochemistry at the Department of Biochemistry-Molecular Biology, Faculty of Biology of National and Kapodistrian University of Athens (200-2003).

Assoc. Professor of Biochemistry at the Department of Biochemistry-Molecular Biology, Faculty of Biology of National and Kapodistrian University of Athens (2003-2007).

Professor of Biochemistry at the Department of Biochemistry-Molecular Biology, Faculty of Biology of National and Kapodistrian University of Athens (2007).

Head of the Department of Biochemistry-Molecular Biology, Faculty of Biology of National and Kapodistrian University of Athens (2009-2010).

ADMINISTRATIVE QUALIFICATIONS

1985-1987: Military Service in the Greek army as Leutnant.

1989-1996: Scientific and administrative staff scientist of the Biochemistry and Molecular Biology Laboratory at EMBL-Hamburg.

2005-2007. Member (vice) of the National Research Council of the Ministry of Research and Development.

2005. Member of the central organization committee of FEBS 2008 in Athens (June 2008)

2005-2007. Elected Vice President of Biology Department of National and Kapodistrian University of Athens (NKUA).

2006-2011 Member and President of the National Committee of the Greek Education Ministry for the National Examination for scholars to enter the University.

2009-2010. Director of the Department of Biochemistry-Molecular Biology of the Faculty of NKUA.

2017 (9-11) President of the Biology Faculty of NKUA

2018-2021 Member of the Sectorial Committee for Energy of the National Council for Research and Technology

2019-now Member of the Academic Committee for Publishing of the Greek Open University

2020 Founding member of a Social Cooperative Enterprise (SCE) "CITRION", Dec. 2020 (Biotechnology and Circular Bioeconomy)

LIFE-LONG LEARNING AND ORGANIZATION OF EVENTS AT NATIONAL AND INTERNATIONAL LEVEL

- September 1983: Workshop and experimental work from Waters company on High Performance Liquid Chromatography (HPLC)
- November 1988: Workshop and experimental work on monoclonal antibody production. University of London, Royal Postgraduate Medical School, Wolfson Medical Centre, London, England.
- November 1991: 3 weeks workshop on: Nucleic Acid Synthesis and Gene Assembly, Molecular Genetics Laboratory of the International Center for Genetic Engineering and Biotechnology, New Dehli, India.
- 1984-1985: Visiting Scientist at the European Molecular Biology Laboratory (EMBL)
- 1988-1989: Post graduate scholarship from EU (Biotechnology program). Host Max-Planck for Biophysical Chemistry, Prof. Dr. D. Gallwitz.
- 1998 Visiting Professor at the Technical University of Harburg - Hamburg. Fellowship of the DGXII of EU Biotechnology program.
- 2000 Visiting Professor at the Max-Planck Institute for Cell Biology, Fellowship of the Max-Planck Society
- 2001 Visit at the Synchrotron DESY the European Molecular Biology Laboratory Structural Biology Dep. (LIP EU Program, 2001)
- 2004 Visiting Professor at the Technical University of Harburg - Hamburg. Fellowship from DAAD

- 2005 Visiting Professor at the Technical University of Ulm, στη Γερμανία (Βιολογία και Ιατρική Σχολή) (2005)
- 2006 Visiting Professor at the Technical University of Harburg - Hamburg. Fellowship from DAAD
- 2008 Visiting Professor at the University of Regensburg Fellowship from DAAD
- 2010 Organization of the 1st International School at the University of Athens in cooperation with Ulm University (International Post Graduate School). Protein structure and function and Kinases as drug targets. Sept 22-26.
- 2011 (2-6) Four months Sabbatical with short visits at: EMBL Hamburg (GR), Netherlands Cancer Institute (NL), Polish Academy of Science (PL), Ulm University (GR), Imperial College (UK).
- 2011 Organization of the 1st summer school at the Faculty of Biology of Athens University with the title: Proteins: from the gene to the structure and more..." 1-3 July 2011.
- 2011 Organization of the 2nd International School at the University of Athens in cooperation with Ulm University (International Post Graduate School). Biochemical, Molecular Biology and structural basis of the biology of stem cells Sept, 20-24
- 2012 Organization of the 2nd summer school at the Faculty of Biology of Athens University with the title: Proteins: from the gene to the structure and more..." 18-20 May 2012.
- 2011 Member of the Scientific Committee of the International Conference on Enzyme Science and Technology ICEST 2011, 31.10-4.11.2011 Kusadasi, Turkiye.
- 2012 Organization of the 1st summer school at the Faculty of Biology of Athens University with the title: Proteins: from the gene to the structure and more..." 1-3 July 2011.
- 2012. Visiting Professor at the University of Regensburg Fellowship from DAAD (7-8, 2012)
- 2013 Organization of the 3rd summer school at the Faculty of Biology of Athens University with the title: Proteins: from the gene to the structure and more..." 18-20 May 2012. Invited Nobel Laureate Prof. Ada Yonath.
- 2015 Basic founding member of the Greek Bioeconomy Forum (since 2015)
- 2015 Organization of the 4th summer school of the Faculty of Biology of Athens University in cooperation with Ulm University and Technological University of Biberach Germany and the Master of Bioinformatics of NKUA on "From the protein structure to drug design". 29.8 -5.9 2015 Anavyssos Attika (50 contributors)
- 2016 Organization of the 5th summer school of the Faculty of Biology of Athens University in cooperation with Ulm University and Technological University of Biberach Germany and the Master of Bioinformatics of NKUA με θέμα: "From the protein structure to drug design". 1-8 Sept 2016 Anavyssos Attika (50 contributors).
- 2016 Member of the National Organization Committee of the European Biotechnology Congress, Athens 26-28 April, Chairman and speaker of a special session for Bioeconomy.
- 2019 Organization of the Interfaculty Master on Bioeconomy. Cooperation between NKUA and Pireaus University 2017-2019
- 2018. Visiting Professor at the University of Regensburg Fellowship from DAAD (11-12, 2018)
- 2018 Organization of the 6th summer school of the Faculty of Biology of Athens University in cooperation with Ulm University and Technological University of Biberach Germany and the Master of Bioinformatics of NKUA με θέμα: "From the protein structure to drug design". 1-8 Sept 2018 Anavyssos Attika (55 contributors).
- 2019 Organization of Bioeconomy Fair of the Greek Bioeconomy Forum, 10-11 Goethe Institut, Thessaloniki
- 2019 Organization of the 1st Mediterranean School on Sustainable Development and Bioeconomy, American Farm School 9-13 July 2019, Thessaloniki.
- 2019 Organization of the 7th summer school of the Faculty of Biology of Athens University in cooperation with Ulm University and Technological University of Biberach Germany and the Master of Bioinformatics of NKUA με θέμα: "From the protein structure to drug design". 28.8-5.9 2016 Anavyssos Attika (60 contributors).
- 2020 Chairman of the Organization Committee of the 2nd Mediterranean School on Sustainable Development and Bioeconomy, American Farm School (web-based) 8-10 Sept 2020, Thessaloniki.

- 2020 Founding member of the European Initiative (COP) European Community of Practice for Bioeconomy Education (Members: EL, NL, CZ, AU, FIN, DE, UK) and member of the ICA (Association for European Life Science Universities)
- 2020 Member of the scientific Committee of the EU project BIOVOICES (Bioeconomy for kids, Edition of book in all European languages)
- 2021 Chairman of the Organization Committee of the 3rd Mediterranean School on Sustainable Development and Bioeconomy, American Farm School (web-based) 6-10 Sept 2021, Thessaloniki.
- 2021 Chairman of the Organization Committee of the 4th European Biobased Innovation Student Challenge Europe (11-2021)
- 2021 Member of the International Committee on EXTREMOPHILES2021 Webbases 26-27 Sept.
- 2022 Chairman of the International Congress EXTREMOPHILES2022 Loutraki Greece 18-22 Sept.

MEMBER OF NATIONAL AND INTERNATIONAL SCIENTIFIC SOCIETIES

- Active Member of the European Chitin Society since 1993
- Active Member of the Greek Biological Society since 1981
- Active Member of the Greek Biochemical Biophysical Society since 1985
- Active Member of the Hellenic Crystallographic Society, since 2001
- Vice President of the ALUMNI Heidelberg in Greece, since 2002.
- Active member of the Greek Society for Biosciences, since 2004.
- President of the Greek Biotechnological Society, (2006-2008)
- Member of the Greek National Res. Comm. (2006-2008)
- Vice President (elected) of the Faculty of Biology (2005-2007)
- Member and President of the Greek National Examination Comm. (2006-2011)
- Member of the international PhD program of the Polish Research Foundation (Polish Academy of Science, POZNAN)

INVITED SPEAKER IN NATIONAL AND INTERNATIONAL CONGRESSES AND WORKSHOPS

1. 5th Symposium on Chitin Enzymology, Senigallia, AN, Italy, 10-12 May, 1993.
2. 2nd International Symposium on Chitin Enzymology, Senigallia, AN, Italy, 8-11 May, 1996
3. 7th International Conference on Chitin and Chitosan Sept 3-5, 1997, Lyon France. Invited speaker
4. Lecture at the Max-Planck for Cell Biology, Dept of Prof. P. Traub. May, 1992.
5. Lecture at the Biochemistry Dept of the Medical School of Kiel University, Oct. 1993.
6. Lecture at the Hebrew University, Jerusalem, Haddash Medical School. Aug. 1994.
7. Lecture at the IMBB, Enzyme Technology. Prof. B. Bouriotis, Sept. 1994.
8. Lecture in Advanced FEBS Course on Methods in Protein Sequence Analysis. Apr. 30-May, 5 Chalkidiki (1995)
9. Lecture at the Bonn University, Dept of Chemistry and Biochemistry, Aug 1996
10. Lecture at the Hellenic Research Foundation, Athens Greece, 3.2.1997
11. Invited speaker at the 7th International Conference on Chitin and Chitosan Sept 3-5, 1997, Lyon France.

12. Invited speaker and Chairmam at the 2nd International Conference on Extremophiles Aug. 1998, Brest France.
13. Chairman at the 3rd International Conference on Extremophiles, Sept. 3-7, 2000 Hamburg.
14. Chairman at the 4th European Conference on Chitin Enzymology, May. 6-10, 2001, Ancona, Italy
15. Biocat 2002, Hamburg Technical University, NIT, Germany
16. Lecture at the Hellenic Kidney Association, March, 2004, Athens
17. Lecture at the National University of Australia, J. Curtis Medical School, 9.11.2004, Canberra, Australia.
18. Lecture at the Ulm University (Biology Department, Institute of Endocrinology) 01.2004
19. Lecture at the Ulm University (Medical School, Department of Internal Medice) 01.2004
20. Nomination Lecture at the Ulm University (invited from the Ulm University Presidency).
21. Lecture at the Advances in Kidney Research, 18.2.2007 Divani-Caravel, Athens (Chairman)
22. Lecture at the Cyprus Univeristy, Biological Science Dept. 2.2.2007, Nicosia, Cyprus.
23. Lecture at the Department of Biophysical Sciences, Regensburg University, 7/2009.
24. Invited speaker at the International Conference on Enzyme Science and Technology ICEST 2011, 31.10-4.11.2011 Kusadasi, Turkiye.
25. Invited Lecture at the University of Patras 10. 5. 2012. Workshop on Structural Biology.
26. Invited Lecture at the University of Fortuna, Belgrad 3-5. 11. 2018.
27. Invited speaker on the Sustainability Week of Pireaus University, 8.11 2018
28. Invited Speaker on the 9th International Congress on Biocatalysis 26-30 Aug. 2018, Hamburg University of Technology, Greek Bioeconomy-Current Status and Prespectives
29. QulityNet Foundation, Sustainability Outlook 8, Apr 2019
30. Biovoives Rome Oct 2018
31. Green chemistry Conference in Athens University, Oct 2019, Plenary Lecture
32. IFIBA Naples Oct 2019. Round table panel for Bioeconomy Education
33. Invited lecture on Bioeconomy, Technical University Hamburg-Harburg. 28.11.2019

DISTINCTIONS

- Post-graduate fellowship award from the Greek Ministry for Atomic Energy (1981).
- Post-graduate fellowship award from Max-Planck Society (1981-1985).
- Senior scientist fellowship award from the Biotechnology Program of European Community (1988-1989).
- Short-term fellowship award from European Molecular Biology Organization (EMBO) (1991).
- Senior Researcher Fellowship award of the DGXII of EU Biotechnology program, Visiting Professor at the Technical University of Harburg – Hamburg (1998).
- Visiting Professor award from the Max-Planck Society to work at the Institute for Cell Biology, Heidelberg (2000).
- DAAD Senior Research award as visiting Professor at the Technical University of Harburg-Hamburg (2003).

- Visiting Professor award of Hans Kupczyk Foundation at the Ulm University (2005).
- DAAD Senior Research award as visiting Professor at the Technical University of Harburg-Hamburg (2006).
- DAAD Senior Research award as visiting Professor at the EMBL Hamburg-Germany- Ulm and Regensburg Universities (Summer 2009).
- DAAD Senior Research award as visiting Professor at the Ulm University (Summer 2012).
- Member of the Internal PhD program of the Polish Research Committee. Close cooperation with the Polish Academy of Science (2010-2013)
- DAAD Senior Research award as visiting Professor at the Ulm University (Autum 2017).

SPECIAL AWARDS

1st place at the European Biobased Innovation Student Challenge Europe (10-2020)

Special article at VIMA Science (22.11.2020)

Presentation at the national TV ET3, O3 11.2.2021, 10.5.2021 and 10.6.2021

PUBLICATIONS IN INTERNATION JOURNALS

1. Nelson W. J., Vorgias C. E. and Traub P. (1982) A rapid method for the large scale purification of the intermediate filament protein vimentin by single-stranded DNA cellulose affinity chromatography. *Biochem. Biophys. Res. Commun.* 106, 1141-1147.
2. Traub P., Nelson W. J., Kühn S. and Vorgias C. E. (1983) The interaction *in vitro* of the intermediate filament protein vimentin with naturally occurring RNAs and DNAs. *J. Biol. Chem.* 258, 1456-1466.
3. Vorgias C. E. and Traub P. (1983) Isolation of glial fibrillary acidic protein from bovine brain white matter and its purification by affinity chromatography on single-stranded DNA cellulose. *Biochem. Biophys. Res. Comm.* 115, 68-75.
4. Traub P. and Vorgias C. E. (1983) Involvement of the N-terminal polypeptide of vimentin in the formation of intermediate filaments. *J. Cell Sci.* 63, 43-67.
5. Vorgias C. E. and Traub P. (1983) Isolation, purification and characterisation of the intermediate filament protein desmin from porcine smooth muscle. *Prep. Biochem.* 13, 227-243.
6. Traub P. and Vorgias C. E. (1984) Differential effect of arginine modification with 1,2-cyclohexanedione on the capacity of vimentin and desmin to assemble into intermediate filaments and to bind to nucleic acids. *J. Cell Sci.* 65, 1-20.
7. Traub P., Vorgias C. E. and Nelson W. J. (1985) Interaction *in vitro* of the Neurofilament Triplet Proteins from Spinal Cord with Natural RNAs and DNAs. *Mol. Biol. Rep.* 10, 129-136.
8. Vorgias C. E. and Traub P. (1986) Nucleic acid-binding activities of the intermediate filament subunits desmin and glial fibrillary acidic protein. *Z. Naturforsch.* 416, 897-909.
9. Vorgias C. E. and Traub P. (1986) Efficient degradation *in vitro* of all intermediate filament subunits proteins by the Ca²⁺-activated neutral thiol proteinase from Ehrlich Ascite Tumor cells and porcine kidney. *Bioscience Reports* 6, 57-64.
10. Zimmermann H.-P., Plagens U., Vorgias C. E. and Traub P. (1986) Changes in the organization of non-epithelial intermediate filaments induced by triethyl lead chloride. *Exp. Cell Res.* 167, 360-368.
11. Kuehn S., Vorgias C. E. and Traub P. (1987) Interaction *in vitro* of non-epithelial intermediate proteins with supercoiled plasmid DNA. *J. Cell Sci.* 87, 543-554.
12. Vorgias C. E., Peridis G. A., Traub P. and Sekeris C. E. (1988) Colchicine, colcemide and cytochalasin-b do not affect translocation of the glucocorticoid hormone-receptor in rat thymocytes or Ehrlich Ascites cells. *Bioscience Reports* 8, 193-197.

13. Gallwitz D., Haubruck H., Molenaar C., Prange R., Putzicha M., Schmitt H.-D., Vorgias C. E. and Wagner P. (1988) Structural and functional analysis of *ypt* proteins, a family of *ras*-related nucleotide-binding proteins in eucaryotic cells. In: The Guanine - Nucleotide Binding Proteins, Common Structural and Functional Properties, Edited by L. Bosch, B. Kraal and A. Parmeggiani, NATO ASI Series, Life Sciences Vol. 165, 257-264.
14. Haubruck H., Prange R., Vorgias C. E. and Gallwitz, D. (1989) The *ras*-related mouse *ypt1* protein can functionally replace the YPT1 gene product in yeast EMBO J. 8, 1427-1432.
15. Wilson K. S., Vorgias C. E., Tanaka I., White W. S. and Kimura M. (1990) The thermostability of DNA binding protein HU from thermophilic and mesophilic *bacilli*. Protein Engineering 4, 11-22.
16. Vorgias C. E., Kingswell A. J., Dauter Z., Wilson K. S. (1991) Cloning, overexpression, purification and crystallisation of ribosomal protein L9 from *Bacillus stearothermophilus*. FEBS Lett. 286, 204-208.
17. Vorgias C. E., Lemaire H-G., Wilson K. S. (1991) Overexpression and purification of the galactose operon enzymes from *E. coli*. Protein Expr. Purif. 2, 330-338.
18. Vorgias C. E. and Wilson K. S. (1991) A rapid method for the purification of recombinant integration host factor. Protein Expr. Purif. 2, 317-320.
19. Padas M. P., Wilson K. S. and Vorgias C. E. (1992) DNA binding protein from mesophilic and thermophilic *bacilli*: cloning, overexpression and purification. Gene 117, 39-44.
20. Vorgias C. E., Kingswell A. J., Dauter Z. and Oppenheim A. B. (1992) Crystallisation of recombinant chitinase from the cloned *chiA* gene of *Serratia marcescens*. J. Mol. Biol. 226, 897-898.
21. Tews I., Dauter Z., Oppenheim A. B. and Vorgias C. E. (1992) Crystallisation of recombinant chitobiase from *Serratia marcescens*. J. Mol. Biol. 228, 696-697.
22. Sayers Z., Brouillon P., Vorgias C. E., Nolting H. F., Hermes C. and Koch M. H. J. (1993) Cloning and expression of *Saccharomyces cerevisiae* copper-metallothionein gene in *Escherichia coli* and characterisation of the recombinant protein. Eur. J. Biochem. 212, 521-528.
23. Vorgias C. E., Tews I., Perrakis A., Wilson K. S. and Oppenheim, A. B. (1993) Purification and characterisation of the recombinant chitin degrading enzymes chitinase and chitobiase from *Serratia marcescens*. In Chitin Enzymology (Muzzarelli, R. A. A. ed.) pp 417-422.
24. Perrakis A., Wilson K. S., Chet. I., Oppenheim, A. B. and Vorgias C. E. (1993) Phylogenetic relationships of chitinases. In Chitin Enzymology (Muzzarelli, R. A. A. ed.) pp 217-232.
25. Rypniewski W. R., Perrakis A., Vorgias C. E. and Wilson K. S. (1994) Evolutionary divergence and conservation of trypsins. Protein Eng. 7, 57-64.
26. Vis H., Boelens R., Mariani M., Stroop R., Vorgias C. E., Wilson K. S. and Kaptein R. (1994) ¹H, ¹³C and ¹⁵N resonance assignments and secondary structure analysis of the HU protein from *Bacillus stearothermophilus* using two- and three-dimensional double- and triple-resonance heteronuclear magnetic resonance spectroscopy. Biochemistry 33, 14858-14870.
27. Perrakis A., Tews I., Dauter Z., Wilson K. S. and Vorgias C. E. (1994) X-ray structure analysis of Chitinase A from *Serratia marcescens*. In Chitin World (eds Karnicki, Z.S., Wojtasz-Pajak, A., Brzeski, M.M. and Bykowski, P.J.) pp 408-415.
28. Tews I, Vincentelli R., Perrakis A., Dauter Z., Wilson K. S. and Vorgias C. E. (1994) Primary and 3D-analysis of chitobiase from *Serratia marcescens*. In Chitin World (eds Karnicki, Z.S., Wojtasz-Pajak, A., Brzeski, M.M. and Bykowski, P.J.) pp 415-423.
29. Perrakis A., Tews I., Dauter Z., Oppenheim, A. B., Chet I., Wilson K. S. and Vorgias C. E. (1994) Crystal structure of a bacterial chitinase at 2.3 Å resolution. Structure 2, 1169-1180.
30. Vis H., Mariani M., Vorgias C. E., Wilson K. S., Kaptein R. and Boelens R. (1995) Solution structure of the HU Protein from *Bacillus stearothermophilus*. J. Mol. Biol. 254, 692-703.
31. Sitrit Y., Vorgias C. E., Chet I. and Oppenheim A. B. (1995) Cloning and primary structure of a *chiA* gene from *Aeromonas caviae*. J. Bacteriology 177, 4187-4189.

32. Sikorski M. M., Topunov A. F., Strozycycki P. M., Vorgias C. E., Wilson K. S. and Legoski A. B. (1995) Cloning and expression of plant leghemoglobin cDNA of *Lupinus luteus* in *Escherichia coli* and purification of the recombinant protein. *Plant Science* 108, 109-117.
33. Boelens R., Vis H., Vorgias C. E., Wilson K. S. and Kaptein R. (1996) Structure and dynamics of the DNA binding protein HU from *Bacillus stearothermophilus* by NMR Spectroscopy. *Biopolymers* 40, 553-559.
34. Tews I., Perrakis A., Dauter Z., Oppenheim A. B., Wilson K. S. and Vorgias C. E. (1996) Bacterial chitinase structure provides insight into catalytic mechanism and the basis of Tay-Sachs disease. *Nature Structural Biology* 3, 638-648.
35. Vis H., Vageli O., Nagel J., Vorgias C. E., Wilson K. S., Kaptein R. and Boelens R. (1996) NMR study of the interaction of the HU protein from *Bacillus stearothermophilus* with DNA. *Magnetic Resonance in Chemistry* 34, 81-86.
36. Tews I., Vincentelli R. and Vorgias C. E. (1996) N-acetylglucosaminidase (chitinase) from *Serratia marcescens*: gene sequence, and protein production and purification in *Escherichia coli*. *Gene* 170, 63-67.
37. Tews I., Wilson K. S. and Vorgias C. E. (1996) Enzymatic mechanism of N-acetylglucosaminidase revealed by structural studies on enzyme substrate-inhibitor complexes. *Advances in Chitin Science Vol. 1.* pp. 26-33.
38. Perrakis A., Ouzounis C. Wilson K. S. and Vorgias C. E. (1996) Implications of the 3-D structure determination of family 18 chitinases. Similarities with FnIII domains, oviductal proteins and narbonins. *Advances in Chitin Science Vol. 1.* pp 34-41.
39. Kanellopoulos P. N., Pavlou K., Perrakis A., Aganian B., Vorgias C. E., Mavrommatis C., Soufi M., Tucker P. A. and Hamdrakas S. J. (1996) The crystal structure of the complexes of Concanavalin A with 4'-nitrophenyl- α -D-mannopyranoside and 4'-nitrophenyl- α -D-glucopyranoside. *J. Struct. Biol.* 116, 345-355.
40. Vorgias C. E., Perrakis A. and Tews I. (1996) Structure function studies on the chitinolytic enzymes of *Serratia marcescens* chitinase and chitinase. *Annals of the New York Academy of Science.* 799, 190-192.
41. Perrakis A., Tews I. and Vorgias C. E. (1996) Chitinases, Hevamine and Chitinases: "Faraway and yet so closed" In *Chitin Enzymology* (Muzzarelli, R. A. A. ed.) Vol 2, pp 109-122.
42. Tews I., Wilson K. S. and Vorgias C. E. (1996) Structural studies on N-acetylglucosaminidase enzyme-inhibitor complexes In *Chitin Enzymology* (Muzzarelli, R. A. A. ed.) Vol 2, pp 213-225.
43. Fernandes M. J. G., Leclerc D., Henrissat. B., Vorgias C. E., Gravel R., Hechtman P. and Kalpan F. (1997) Identification of candidate active site residues in lysosomal beta-hexosaminidase A. *J. Biol. Chem.* 272, 814-820.
44. Chernin L. S., De la Fuente., Sobolev V., Haran S., Vorgias C. E., Oppenheim A. B. and Chet I. (1997) Molecular cloning, structural analysis and Expression in *Escherichia coli* of a chitinase gene from *Enterobacter agglomerans*. *Appl. Env. Microbiology* 63, 834-839.
45. Joergensen S., Vorgias C. E. and Antranikian G. (1997) An extracellular alpha-amylase from the hyperthermophilic Archeon *Pyrococcus furiosus*. Cloning, Sequencing, Characterization and Expression in *E. coli* and *Bacillus subtilis*. *J. Biol. Chem.* 272, 16335-16342.
46. Drouillard S., Armand S., Davies G., Vorgias C. E. and Henrissat B. (1997) *Serratia marcescens* chitinase is a retaining glycosidase utilising substrate acetamido group participation. *Biochem. J.* 328, 945-949.
47. Vorgias C. E. (1997) Overproduction of the recombinant chitinase A from *Serratia marcescens* in *E. coli*, fast purification, biochemical and biophysical characterisation. Chapter in *Chitin Handbook* (Muzzarelli and Peter eds.) ISBN 88-86889-01-1.
48. Vorgias C. E. and Petratos K. (1997) From the purified protein to the 3D-structure and enzymatic mechanism of chitinase A from the chitinolytic soil bacterium *Serratia marcescens*. Chapter in *Chitin Handbook* Chapter in *Chitin Handbook* (Muzzarelli and Peter eds.) ISBN 88-86889-01-1.
49. Vorgias C. E. (1997) Structural basis of chitin hydrolysis in bacteria. *Advances in Chitin Society Vol II*, pp. 176-187.
50. Spindler-Bath M., Blattner R., Vorgias C. E. and Spindler K-D. (1998) Inhibition of two family 18 chitinases by various allosamidin derivatives. *Pestic. Sci.* 52, 47-52.
51. Christodoulou E. and Vorgias C. E. (1998) Cloning, overproduction, purification and crystallisation of the DNA binding protein HU from the hyperthermophilic eubacterium *Thermotoga maritima*. *Acta Cryst.* D54, 1043-1045.

52. Vis H, Vorgias C. E., Wilson K. S., Kaptein R. and Boelens R. (1998) Mobility of NH bonds in DNA-binding protein HU of *Bacillus stearothermophilus* from reduced spectral density mapping analysis at multiple NMR fields. *J. Biomolecular NMR* 11, 265-277.
53. Vorgias C. E. and Antranikian G. (2000) Glycosyl Hydrolases from Extremophiles in *Glycomicrobiology*, pp313-339 (ed. by Doyle) Kluwer Academic/Plenum Publishers, N. York
54. Boehlke K., Pisani F. M, Vorgias C. E., Frey B., Sobek H., Rossi M. and Antranikian G. (2000) PCR performance of the B-type DNA polymerase from the thermophilic euryarchaeon *Thermococcus aggregans* improved by mutations in the Y-GG/A motif. *Nucleic Acids Res.* 28, 3910-3917.
55. Prag G., Papanikolaou Y., Tavlas G., Vorgias C. E., Petratos K. and Oppenheim A. B. (2000) Structures of chitinase mutants complexed with the substrate di-N-acetyl-D-glucosamine: the catalytic role of the conserved acidic pair, aspartate-539 and glutamate-540. *J. Mol. Biol.* 300, 611-617.
56. Fontaine T., Simenel C., Dubreucq G., Adam O., Delepierre M., Lemoine J., Vorgias C. E., Diaquin M. and Latgé J-P. (2000) Molecular organization of the alkali-insoluble fraction of *Aspergillus fumigatus* cell wall. *J. Biol. Chem.* 275, 27594-27607.
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