

## **Βιογραφικό Σημείωμα**



**Κωνσταντίνος Ε. Βοργιάς**

**Καθηγητής Βιοχημείας**

**Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών**

**Σχολής Θετικών Επιστημών**

**Τμήμα Βιολογίας**

**Τομέας Βιοχημείας-Μοριακής Βιολογίας**

**Τηλ: 210-7274514, Φαξ: 210-7274158**

**email: cvorgias@biol.uoa.gr,**

**Αθήνα 2011**

## Σπουδές Προπτυχιακές και Μεταπτυχιακές

1976-1980: Πανεπιστήμιο Αθηνών, ΦΜΣ, Τμήμα Βιολογίας

1980: Μεταπτυχιακός υπότροφος στη Βιολογία του ΕΚΕΦΕ Δημόκριτος

1981-1984: Διδακτορικός υπότροφος του Ινστιτούτου Max-Planck, Heidelberg, Prof. Dr. P. Traub

1985: Απόκτηση Διδακτορικού τίτλου από τη Σχολή Θετικών Επιστημών του Πανεπιστημίου Heidelberg.

## Δια βίου μάθηση και διοικητικές δράσεις

1. Σεπτέμβριος, 1983: Έλαβα μέρος σε εβδομαδιαίο σεμινάριο της εταιρείας Waters σε θέματα χρήσης και εφαρμογής της χρωματογραφίας υψηλής διακριτικότητας (HPLC)
2. Νοέμβριος, 1988: Εβδομαδιαίο εργαστηριακό σεμινάριο για την τεχνική της παραγωγής μονοκλωνικών αντισωμάτων στο University of London, Royal Postgraduate Medical School, Wolfson Medical Centre, London, England.
3. Νοέμβριος, 1991: Τριών εβδομάδων εργαστηριακό σεμινάριο με θέμα: Nucleic Acid Synthesis and Gene Assembly, Molecular Genetics Laboratory of the International Center For Genetic Engineering and Biotechnology, New Dehli, India.
4. 1984-1985: Επισκέπτης ερευνητής στο European Molecular Biology Laboratory (EMBL)
5. 1985-1987: Στρατιωτική θητεία ως έφεδρος αξιωματικός στο ΣΕΜ.
6. 1988-1989: Μεταδιδακτορικός υπότροφος της ΕΟΚ στα πλαίσια του προγράμματος Βιοτεχνολογίας. Εργασία στο Max-Planck for Biophysical Chemistry, Prof. Dr. D. Gallwitz.
7. 1989-1996: Υπεύθυνος του εργαστηρίου Βιοχημείας και Μοριακής Βιολογίας στο EMBL-Hamburg.
8. 1996-1999 Επικ. Καθηγητής Βιοχημείας στο τμήμα Βιολογίας του ΕΚΠΑ
9. 1998 Επισκέπτης Καθηγητής στο Technical University of Harburg - Hamburg. Fellowship of the DGXII of EU Biotechnology program.
10. Επισκέπτης Καθηγητής στο Max-Planck Institute for Cell Biology, Fellowship of the Max-Planck Society (2000)
11. Επιχορήγηση έρευνας από το European Molecular Biology Laboratory (LIP EU Program, 2001)
12. 1999-2002- Μόνιμος Επικ. Καθηγητής Βιοχημείας στο τμήμα Βιολογίας του ΕΚΠΑ
13. 2002-σήμερα. Αναπλ. Καθηγ. στο τμήμα Βιολογίας του ΕΚΠΑ  
Επισκέπτης Καθηγητής στο Technical University of Harburg-Hamburg, με επιχορήγηση από την DAAD, Γερμανική Κυβέρνηση (2003)
14. 2005. Επισκέπτης Καθηγητής στο Πανεπιστήμιο Ulm, στη Γερμανία (Βιολογία και Ιατρική Σχολή) (2005)

15. 2005-07. Αναπλ. Μέλος του Εθνικού Συμβουλίου Έρευνας και Τεχνολογίας ΥΠΙΑΝ, 2005-2007
16. 2005. Μέλος της κεντρικής οργανωτικής επιτροπής οργάνωσης FEBS 2008 στην Αθήνα (2008)
17. Επισκέπτης Καθηγητής στο Technical University of Harburg-Hamburg, με επιχορήγηση από την DAAD, Γερμανική Κυβέρνηση (2006)
18. Εκλογή Καθηγητής Α΄ Βαθμίδας στο ΕΚΠΑ, Τμήμα Βιοχημείας (2007)
19. Επισκέπτης Καθηγητής στο University of Regensburg με επιχορήγηση από την DAAD, Γερμανική Κυβέρνηση (2008)
20. 2009-2010 Διευθυντής του Τομέα Βιοχημείας – Μοριακής Βιολογίας του Τμήματος Βιολογίας ΕΚΠΑ
21. 2010-τώρα Αναπληρωτής Επόπτης Σχολής Θετικών Επιστημών ΕΚΠΑ
22. 2011 Στα πλαίσια της 4μηνιας εκπαιδευτικής άδειας (2-5/11) επισκέφθηκα και εργάστηκα-ενημερώθηκα στα εξής Ευρωπαϊκά ερευνητικά κέντρα: (α) στο EMBL Hamburg (SAXS πειράματα); (β) Technical University Harburg-Hamburg (Μικροβιακή Βιοτεχνολογία), Academy of Science (Poznan, PL) (Κρυσταλλογραφία); (γ) Netherlands Cancer Institute (Amsterdam) (Συστήματα παραγωγής πρωτεϊνών σε HTP συστήματα); (δ) Medical School Ulm University (Τεχνολογία Διαφορικής Φθορισμομετρίας) και (ε) Heimholz Institute for Enviromental Sciences (Munich) (Εφαρμογές pyrosequencing for chitinase detection in underground fresh water).

### **Μέλος επιστημονικών εταιρειών**

- Ενεργό μέλος της European Chitin Society από το 1993
- Ενεργό μέλος της Ελληνικής Εταιρείας Βιολογικών επιστημών από το 1981
- Ενεργό μέλος της Ελληνικής Εταιρείας Βιοχημείας-Μορ. Βιολογίας από το 1985
- Ενεργό μέλος της Ελληνικής Κρυσταλλογραφικής Εταιρείας από το 2001
- Γενικός Γραμματέας των ALUMNI Heidelberg στην Ελλάδα από το 2002.
- Μέλος της Ελληνικής Εταιρείας Βιοεπιστημών, από το 2004.
- Ενεργό μέλος της διεθνούς εταιρείας για Extremophiles, από το 2005
- Πρόεδρος της Ελληνικής εταιρείας Βιοτεχνολογίας (ΕΛΕΒ) Ιούνιος 2006
- Μάρτιος 2011-τώρα Ακαδημαϊκός εκπρόσωπος σε θέματα πρπτυχιακής και μεταπτυχιακής εκπαίδευσης του Πολυτεχνείου του Harburg-Hamburg (TUHH) στην Ελλάδα.

### **Προσκλήσεις για ομιλία σε εθνικά και διεθνή συνέδρια**

1. 5th Symposium on Chitin Enzymology, Senigallia, AN, Italy, 10-12 May, 1993.
2. Second 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 InternalMedice) 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. Οργάνωση του 1ου καλοκαιρινού σχολείου Μοριακής Ιατρικής με θέμα: Δομή και λειτουργία πρωτεϊνών. Οι πρωτεϊνικές κινάσεις στόχου νέων φαρμάκων. Συνδιοργάνωση Πανεπιστημίου Ουλμ και Τμήματος Βιολογίας Πανεπιστημίου Αθηνών (Σεπτέμβριος 2010, Πανεπιστήμιο Αθηνών, Τμήμα Βιολογίας)
25. Οργάνωση του 1ου καλοκαιρινού σχολείου Βιοχημείας με θέμα: Από το γονίδιο στην πρωτεΐνη και όχι μόνο..... Τμήμα Βιολογίας Πανεπιστημίου Αθηνών. (Ιούλιος 2011, Πανεπιστήμιο Αθηνών, Τμήμα Βιολογίας)
26. Invited speaker at the Internation Conference of Protein Engineering (Oct/Noe 2011, Kusadasi-Turkey

**Δημοσιεύσεις σε διεθνή περιοδικά και βιβλία**

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.* 41b, 897-909.
9. Vorgias C. E. and Traub P. (1986) Efficient degradation in vitro of all intermediate filament subunits proteins by the Ca<sup>2+</sup>-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. and 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) <sup>1</sup>H, <sup>13</sup>C and <sup>15</sup>N 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 Ang. 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 chitobiase 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 (chitobiase) 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., Agianian B., Vorgias C. E., Mavrommatis C., Soufi M., Tucker P. A. and Hamodrakas S. J. (1996) The crystal structure of the complexes of

- Concanavalin A with 4'-nitrophenyl- $\alpha$ -D-mannopyranoside and 4'-nitrophenyl- $\alpha$ -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 chitobiase. *Annals of the New York Academy of Science.* 799, 190-192.
  41. Perrakis A., Tews I. and Vorgias C. E. (1996) Chitinases, Hevamine and Chitobiasis: "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. 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.
  46. 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.
  47. Drouillard S., Armand S., Davies G., Vorgias C. E and Henrissat B. (1997) *Serratia marcescens* chitobiase is a retaining glycosidase utilising substrate acetamido group participation *Biochem. J.* 328, 945-949.
  48. 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.
  49. 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.
  50. Vorgias C. E. (1997) Structural basis of chitin hydrolysis in bacteria. *Advances in Chitin Society* Vol II, pp. 176-187.
  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.
57. Lonhienne T. G. A., Mavromattis C., Vorgias C. E, Buchon L., Gerday C. and Bouriotis V. (2001) Cloning, Sequences, and characterization of two chitinase genes from the antarctic *Arthrobacter* sp. strain TAD20: Isolation and partial characterization of the enzymes. *J. Bacteriology* 183, 1773-1779.
58. Lonhienne T. G. A., Zoidakis J., Vorgias C. E, Feller G., Gerday C., and Bouriotis V. (2001) Modular structure, local flexibility and cold-activity of a novel chitinase from a psychrophilic antarctic bacterium *J. Mol. Biol.* 310, 291-297.
59. Christodoulou E., Duffner F. and Vorgias C. E. (2001) Overexpression, purification and characterization of a thermostable Chitinase (Chi40) from *Streptomyces thermoviolaceus* OPC-520. *Protein Expr. Purif.* 23, 97-105.
60. Papanikolaou Y., Prag G., Tavlas G., Vorgias C. E., Oppenheim A. B. and Petratos K. (2001) High-resolution structural analyses of mutant Chitinase A complexes with substrates provide new insight into the mechanism of catalysis. *Biochemistry* 40, 11338-11343.
61. Prag G., Vorgias C. E. and Oppenheim, A. B. (2001) Conservation and structural elements and catalytic mechanism in *Serratia marcescens* chitinolytic enzymes. *Chitin Enzymology*, 2001. Ancona. Pp. 351-360.
62. Raves M. L., Doreleijers J., Vis H., Vorgias C. E., Wilson K. S. and Kaptein R. (2001) Joint refinement as a tool for thorough comparison between NMR and X-ray data and structures of HU protein. *J. Biomolecular NMR* 21, 235-248.

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