



## 2 Postdoctoral Scientists for Studies on Mosquito Olfaction

Applications are invited for two postdoctoral research positions available in the Structural Biology and Chemistry Group (SBCG), Institute of Organic & Pharmaceutical Chemistry, The National Hellenic Research Foundation, Athens, Greece.

The research will be conducted in the frame of a European research project entitled “*ENAROMaTIC: European Network for Advanced Research on Olfaction for Malaria Transmitting Insect Control*”. ENAROMaTIC is a collaborative project between 11 research teams from Europe, Africa and USA, which aims reduction in the frequency of malaria transmission through interference with the function of the mosquito olfactory system and the mosquito’s capacity to recognize its human host and transmit the malaria parasite.

Primary objective of SBCG research will be the crystallization and determination the three-dimensional structure of selected Olfactory Binding Proteins (OBPs) of known ligand binding specificities for the purpose of structure based design of novel compounds that interfere with olfactory function.

1. A post doctoral researcher will be recruited for the setting-up of all the necessary protein expression and purification protocols. Furthermore, he/she is going to carry-out the high-throughput crystallization experiments, the X-ray data collection and the data processing. Qualified applicants should hold a PhD in Biochemistry, Molecular Biology, Biology, Chemistry or related fields. The candidate should have proven experience in: *in silico* analysis of DNA sequences, recombinant DNA techniques (PCR, cloning, plasmid preparations etc.), protein purification, ligand soaking and co-crystallization experiments, and x-ray data collection and processing. A good knowledge of English language is required. Computer skills including use of on-line tools for scientific research, Word processor, e-mail, Spreadsheets and Databases will be of additional benefit.

Synopsis of research experience, along with a CV, and the contact details of two referees, should be sent to: Dr. Spyros Zographos ([sez@eie.gr](mailto:sez@eie.gr)) before October, the 27<sup>th</sup> 2008 with ENAROMaTIC\_PD1 in the subject. Applicants to this position must also submit certificate in English language (mandatory if mother tongue is not English) and certificate in computer skills (optional).

2. A post doctoral researcher will be recruited to study *in silico* the interaction of Odorant Binding Proteins and Odorant Receptors with various ligands and in oligomer ensembles. Furthermore, he/she is going to model various OBPs and ORs, and rationally design ligands with improved properties and propose OBP mutants with altered specificity. Qualified applicants should hold a PhD in Biochemistry, Chemistry, Physics, Bioinformatics or related fields. The candidate should have

ΕΙΕ-Εθνικό Ίδρυμα Ερευνών, ΙΟΦΧ-Ινστιτούτο Οργανικής και Φαρμακευτικής Χημείας  
Λεωφ. Βασιλέως Κωνσταντίνου 48, 116 35 Αθήνα, Τηλ.: 210 7273868, Fax: 210 7273831

NHFR-National Hellenic Research Foundation, IOPC-Institute of Organic and Pharmaceutical Chemistry  
48, Vas. Constantinou Ave., 116 35 Athens, Greece, Tel.: +30210 7273868, Fax: +30210 7273831

proven experience in: *in silico* analysis of protein structures, molecular modelling, rational ligand design , computer programming and molecular graphics. A good knowledge of English language is required. Computer skills including use of on-line tools for scientific research, Databases, Networks, Operating Systems and Graphics interfaces will be of additional benefit.

Synopsis of research experience, along with a CV, and the contact details of two referees, should be sent to: Prof. Elias Eliopoulos ([eliop@aua.gr](mailto:eliop@aua.gr) ) before October 27<sup>th</sup> 2008 with ENAROMaTIC\_PD2 in the subject. Applicants to this position must also submit certificate in English language (mandatory if mother tongue is not English) and certificate in computer skills (optional).

The posts are available for 3 years, starting December 1<sup>st</sup> 2008, and will be implemented through renewable yearly contracts. The amount of support will be determined based on qualifications and expertise (The maximum gross annual salary, including social insurance, for a full-time position is currently capped at 21.650 €).

ΕΙΕ-Εθνικό Ίδρυμα Ερευνών, ΙΟΦΧ-Ινστιτούτο Οργανικής και Φαρμακευτικής Χημείας  
Λεωφ. Βασιλέως Κωνσταντίνου 48, 116 35 Αθήνα, Τηλ.: 210 7273868, Fax: 210 7273831

NHRF-National Hellenic Research Foundation, IOPC-Institute of Organic and Pharmaceutical Chemistry  
48, Vas. Constantinou Ave., 116 35 Athens, Greece, Tel.: +30210 7273868, Fax: +30210 7273831