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**Work address:** Department of Microbiology  
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### Scientific Education

- **B.Sc. in Chemistry** National University of Athens, Athens, Greece **1985**
- **M.Sc. in Biochemistry** University of Alberta, Edmonton, Canada **1991**
- **Ph.D. in Molecular Cell Biology** European Molecular Biology Laboratory (EMBL), University of Heidelberg, Heidelberg, Germany **1995**

### Languages:

- *Greek (mother tongue)*
- *English (fluent)*
- *French (fluent)*

### Career Focus

My main interest lies in the research of pathogenesis of infectious diseases and in particular in the study of pathogen-host cell interactions using molecular cellular biology and modern light microscopy imaging techniques. I am keen in exploring the translational aspect of this field of research.

### Scientific knowledge and technical skills

Cell Biology, biochemistry, molecular biology, membrane biology, cancer biology, virology, parasitology, bacteriology. Specialist knowledge acquired in nucleoside transport systems, microtubule dynamics and mitosis, pathogen host interaction field (*Chlamydia*, HCV, *Leishmania*), in light microscopy and imaging techniques, flow cytometry and cell sorting, recombinant protein expression, generation of antibodies, *in vitro* cell assays, drug cytotoxicity assays.

### Professional Profile

<b>May 2010-Current</b>	<b>Researcher B</b> (tenure) <i>Department of Microbiology, Molecular Parasitology Laboratory</i> <i>Scientific responsible of Light Microscopy Unit</i> <i>Hellenic Pasteur Institute, Athens, Greece</i>
<b>Jan 2002- May 2010</b>	<b>Researcher C</b> (tenured track) <i>Department of Microbiology &amp; Light Microscopy unit,</i> <i>Hellenic Pasteur Institute, Athens, Greece</i>
<b>Jan 2000 -Dec 2001</b>	<b>Associate Scientist</b> <i>Hellenic Pasteur Institute, Athens, Greece.</i>
<b>Oct 1996 - Dec 1999</b>	<b>EMBO and ARC Post-Doctoral Fellow</b> <i>The Pasteur Institute, Paris, France</i>

<b>Jun 1996 - Sept 1996</b>	<b>Visiting Post-Doctoral Fellow</b> <i>Dep. of Biochemistry, U. of Alberta, Edmonton, Canada</i>
<b>Jul 1995 - Feb 1996</b>	<b>Post-doctoral Fellow</b> <i>EMBL, Heidelberg, Germany</i>
<b>Jan 1991 – Jul 1995</b>	<b>Pre-doctoral Fellow</b> <i>EMBL, Heidelberg, Germany</i>
<b>Jan 1987 - Dec 1990</b>	<b>Graduate Teaching and Research Assistant</b> <i>Dep. of Biochemistry, U. of Alberta, Edmonton, Canada.</i>
<b>Sept 1986 - Dec 1986</b>	<b>Graduate Teaching Assistant</b> <i>Dep. of Chemistry, U. of Alberta, Edmonton, Canada</i>

### Grants

Throughout the years I was able to apply and successfully be granted the following fellowships and grants enabling me to support my scientific work:

### International programs

Programs in which I participated either as the coordinator or as a member of a team

- **2000-2002** International network of Pasteur Institutes mobility grant  
*Personal grant*
- **2003-2005** ACIP (Actions Concertées des Instituts Pasteur)
  - **Coordinators:** Dr H.Boleti-Dr P. Mavromara
  - **Participating Instituts:** Hellenic Pasteur Institute, Institut Pasteur Paris, IP Vietnam, Cambodge, St. Petersburg,
- **2003-2005** -INSERM-FRANCE
  - Personal collaboration with Hepacivirus lab, Institut Pasteur Paris
- **2003-2006:** PTR (Program Transversaux-Institut Pasteur  
Participation as a member of the coordinating team  
**Coordinator:** P. Mavromara-Molecular Virology lab-Hellenic Pasteur Institute  
**Collaborating Instituts:** Hellenic Pasteur Institute, Institut Pasteur of Paris and Pasteur Institutes of Cambodge, Vietnam, St. Petersburg, Cameroun, Roumania
- **2013 RIIP (Institut Pasteur International Network) Regional course:**  
Title:“Digital image processing/analysis tools in Light Microscopy: From the basics and beyond”  
Coordinator/main organizer- *H.Boleti*

### Greek government funded programs

Programs in which I participated as the coordinator or as a collaborating scientists for the design and the realization of the projects

- **2002-2004** Hellenic Pasteur Institute Research grant  
*Scientific Responsible*
- **2004-2006** Grant from the Greek General Secretariat of Research and Technology in the context of the European program "Human Networks for training in Research and Technology" –Establishment of the *Greek Light Microscopy Network*  
*Coordinator of the project and of the Network*
- **2006-2007** Grant from General Secretariat of Research and Technology in the context of the Program “OPEN DOORS”  
*Member of the Scientific team*

- **2012-2015** THALIS grant. Ministry of Education Lifelong Learning and Religion EVOTRANS, Membrane transport: Structure-function and evolutionary relationships  
*Member of the Scientific team.*

#### Awards-Sponsorships

- **2011** Sponsorship from Genesis Pharma to the “Intracellular parasitism” research group supporting the research project of the team investigating mechanisms by which the protozoan parasite *Leishmania donovani* infects humans and domestic animals and causes the disease of Kala azar  
*Scientific responsible*

#### Research Publications

##### Publications

##### Peer-reviewed

1. Athanasopoulos A, **Boleti H**, Scazzocchio C, Sophianopoulou V. 2013. Eisosome distribution and localization in the meiotic progeny of *Aspergillus nidulans*. *Fungal Genet Biol.* S1087-1845(13)00016-9 [Epub ahead of print]
2. Kalliampakou K, Kouri E., **Boleti H.**, Pavli O., Maurousset L., Udvardi M., Katinakis P., Rémi Lemoin and Fletmetakis E. (2011). Cloning and functional characterization of *LjPLT4*, a plasma membrane xylitol  $H^+$ - symporter from *Lotus japonicus*. *Mol. Memb. Biol.* 28(1):1-13
3. **Boleti H.**, Smirlis D., Dalagiorgou G., Meurs E., Christoforidis S., & Mavromara.P. (2010). ER targeting and retention of the HCV NS4B protein relies on the concerted action of multiple structural features including its transmembrane domains. *Mol. Memb. Biol.* 27(1):50-74
4. Smirlis D, **Boleti H.**, Gaitanou M, Soto M, Soteriadou K. (2009). *Leishmania donovani* RAN-GTPase interacts at the nuclear rim with linker histone H1. *Biochem J.* 10;424(3):367-74.
5. Saridaki A, Sapountzis P, Siozios S, Ioannidis, **Boleti, H.**, Bourtzis K., Wolbachia ankyrins and the potential role on *Drosophila*-*Wolbachia* symbiosis. (2008). *FEBS JOURNAL* Volume: 275 Pages: 266-266 Supplement: Suppl. 1
6. Karanasios E, **Boleti H.**, Simos G. (2008). Incorporation of the Arc1p tRNA-binding domain to the catalytic core of MetRS can functionally replace the yeast Arc1p-MetRS complex. *J Mol Biol.* 5;381(3):763-71.
7. Vassilaki N, **Boleti H.**, Mavromara P.(2008).Expression studies of the HCV-1a core+1 open reading frame in mammalian cells. *Virus Res.* 133(2):123-35.
8. Vassilaki N, **Boleti H.** and Mavromara P. ( 2007). Expression studies of the core+1 protein of the hepatitis C virus 1a in mammalian cells: the influence of the core protein and proteasomes on the intracellular levels of core+1. *FEBS J.* 274(16):4057-74
9. Ibrahim-Granet, O., Philippe,B., **Boleti, H.**, Boisvieux-Ulrich, E., Prévost, MC., Grenet, D., Stern, M and JP Latgé. (2003). Phagocytosis and intracellular fate of *Aspergillus fumigatus* conidia in alveolar macrophages. *Infection and Immunity*, 71(2):891-903
10. **Boleti, H.**, Karsenti, E. Vernos, I. (2001). The use of dominant negative mutants to study the function of mitotic motors in the in vitro spindle assembly assay in *Xenopus* egg extracts. *Methods in Molecular Biology*, 164, 173-89
11. **Boleti, H.**, Ojcius, D. and Dautry-Varsat, A. (2000). Fluorescent labelling of intra-cellular bacteria in living host cells. *J. Microbiological Methods*, 1;40 (3): 265-274
12. Poupel, O., **Boleti H.**, Axisa, S., and Tardieux, I. (2000). Toxifilin, a novel actin binding protein from *Toxoplasma gondii*, sequesters actin monomers and caps actin filaments. *J. Mol. Biol. of the Cell*, 11(1) 355-68
13. **Boleti, H.**, Benmerah, A., Ojcius, D., Cerf-Bensussan,N., Dautry-Varsat, A. (1999). Chlamydia infection of epithelial cells expressing dynamin and Eps15 mutants:clathrin-independent entry into cells an

- dynamin-dependent productive growth. *J. of Cell Science*, 112:1487-1496
14. Wittmann, T., **Boleti, H.**, Antony, C., Karsenti, E, and Vernos, I. (1998). A leucine zipper targets Xklp to a dynein/dynactin containing complex that accumulates at microtubule minus ends during mitosis. *Cell Biol.* 143 (3), 673-685
  15. **Boleti, H.**, Karsenti, E., Vernos, I. (1996). Xklp2, a new *Xenopus* centrosomal Kinesin Like Protein Required for centrosome separation during mitosis. *Cell*, 84: 49-59
  16. Karsenti, E., **Boleti, H.**, Vernos, I. (1996). The role of microtubule dependent motors in centrosome movements and spindle pole organization during mitosis. *Seminars in Cell & Devel. Biol.*, 7, 367-378
  17. **Boleti, H.**, Coe, I., Baldwin, S.A., Young, J.D., Cass, C.E. (1997). Molecular Identification of the equilibrative NBMPR-sensitive (es) nucleoside transporter and demonstration of an equilibrative NBMPR-insensitive (ei) transport activity in human erythroleukemia (K562) cells. *Neuropharmacology J.*, 36 (9), 1167-117
  18. **Boleti, H.** & Cass, C.E. (1992). Nitrobenzylthioinosine-insensitive nucleoside transport processes in K562 cells. *Proc. Amer. Assoc. Cancer Res.*, 33:18
  19. **Boleti, H.**, Cass, C.E. (1991). Nucleoside transport in K562 human erythroleukemia cells. *Int. J. Purin and Pyrimidine Res.*, 2:35

#### **Reviews-Electronic publications :**

- **Boleti H. & Robotis, J.F** (2004). Viral Hepatitis. *xPharm 1.0*, edited by S.J. Enna and David, B. Bylund, Published by, Inc. Elsevier. [http://www.xpharm.com/xpharm/citation?Article\\_ID=1477](http://www.xpharm.com/xpharm/citation?Article_ID=1477)
- **Boleti H.** (2004). Chlamydia Infections. *xPharm 1.0*, edited by S.J. Enna and David, B. Bylund, Published by, Inc. Elsevier. [http://www.xpharm.com/xpharm/citation?Article\\_ID=1477](http://www.xpharm.com/xpharm/citation?Article_ID=1477)
- **Boleti, H.** , Thomaidou, D. (2004). Modern imaging techniques of multiple parameter light microscopy *BIO*, 10: 58-59 (Greek journal for Biotechnology, the environment and the man).

#### **Teaching Experience**

Over the course of my training and work, I have acquired significant teaching experience.

It consists of:

- formal lectures and seminars directed towards postgraduate students pursuing a career in Biochemistry and Medicine and laboratory technicians
- practical teaching in the laboratory to both Biochemistry, Medicine and Dietetics undergraduate students and postgraduate students on subjects related to Biochemistry, Molecular and Cell Biology as well as Light Microscopy techniques
- teaching of Secondary Education teachers on advances in biosciences.
- Lectures on microscopy and on the Fluorescent protein technology in several graduate programs in Greek Universities and in Bioimaging symposia (<http://mgn.upatras.gr/bioimaging2010/>).
- Lectures on the Biotechnological applications of the system of *Leishmania tarentolae* (Biology Department, MSc in Microbial Biotechnology University of Athens)

#### **Management/Organization Experience**

##### **Organization of Conferences/Courses/Workshops**

- Organiser of a Practical Workshop on Light Microscopy. A workshop addressed to scientists working at the Pasteur Institute in Paris. With the collaboration of ZEISS, Leica and Photonic Science (Paris, April 1998).
- Organiser of Practical Workshops on "Applications of Light Microscopy on Biomedical Research and Diagnosis" addressed to Biologists and Medical Doctors in Greece. Hellenic Pasteur Institute (Athens, May 2004 and April 2005)
- Coordinator of a series of workshops on Light Microscopy in the context of a program financed by the Greek General Secretariat of Research and Technology in the context of the European program "Human Networks for training in Research and Technology". As a result, The Greek Light Microscopy Network was established having as members the universities of Ioannina, Crete and

- Athens, the Hellenic Pasteur Institute, the Institute for Biomedical Research in Ioannina and three private companies (2004-2006)
- Organiser of three day workshops for secondary education teachers with the aim of offering training and information about the recent advances in the biomedical sciences in the context of the program “Open Doors” financed by the Greek Ministry of Development, Division for Research and Technology. The project was developed in collaboration with EMBL (2005-2007)
  - Co-organizer of the **SET ROUTES** event “Opening Gateways to Science with Invited international speakers from research and science politics who talked about their career paths and their experiences on working in different scientific areas. The event was aimed at university undergraduate and post-graduate students and scientists from all levels. [http://www.set-routes.org/university/calendar/athens\\_nov08/index.html](http://www.set-routes.org/university/calendar/athens_nov08/index.html)
  - Coordination of the project for the construction of the Hellenic Pasteur website. [www.pasteur.gr](http://www.pasteur.gr) (2009-2011)
  - Organiser of an Institut Pasteur International Network regional course on “Digital image processing/analysis tools in Light Microscopy: From the basics and beyond” (June 10-17, 2013)
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### Awards/Honors

- Excellence Award from the Greek Ministry for Education for the academic year *1982-1983*
- The Greek Canadian Association Scholarship *1988*
- Graduate Teaching Assistantship and Research Assistantship, Department of Biochemistry, University of Alberta. *1987-1991*
- EMBL pre-doctoral Fellowship *1991-1995*
- EMBL post-doctoral Fellowship *1995-1996*
- EMBO post-doctoral Fellowship *1996-1998*
- TMR post-doctoral Fellowship *1997-1999*
- Post-doctoral Fellowship Fondation pour la Recherche Médicale (FRM) *1998-1999*
- Post-doctoral Fellowship Association pour la Recherche contre le Cancer (ARC) *1998-1999*
- Research grant, The Pasteur Institute, Paris, France *2000-2002*
- EMBO short-term Fellowship *2000*
- Fellowship from the French Embassy in Greece (EGIDE) *2005*

### Memberships

- Representative of the HPI in the ELMnet (European Light Microscopy Network)
- Member of the Hellenic Society of Biochemistry and Molecular Biology.
- Member of the Comité d'Animation Scientifique Internationale-Advisory Scientific Committee-(COMASI) of the International Network of the Pasteur Institutes and Associated Institutes 2002-2005). The committee evaluated applications for the organisation of international courses within the Pasteur Institute network as well as research proposals submitted for funding at the Direction des Affaires Internationales of the Institut Pasteur, Paris.
- **SET-ROUTES** School & University ambassador <http://www.set-routes.org/university/profiles/index.html>
- H Boleti is a **member of scientific committees** for the organization of Microscopy meetings (<http://www.elmi2011.gr/8AB55759.en.aspx>) and a founding member of the Greek Bioimaging Society.
- Member of the Jury for the 6<sup>th</sup> international Scientific film festival. November 2011, Athens (<http://www.caid.gr/isffa/about.html> )