

Dr. Loukia Tsaprouni BSc. MSc. PhD.

**Personal details**

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Date of Birth	20 December 1976
Nationality:	Greek
Current Placement	Senior Research Associate
Family Status:	Single

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## Education summary

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Dates	Degree Awarded	Institution Details
1998 - 2002	<b>Ph.D.</b> in Molecular Biology/Immunology <b>Title</b> Histone Acetylation and Cell Signalling Pathways in inflammatory bowel diseases	University of Luton & National Heart & Lung Institute, Imperial College
	<b>Supervisors</b> Prof N. A. Punchard Prof. I. M. Adcock	
1997 - 1998	<b>M.Sc.</b> (by research) in Molecular Reproductive Biology <b>Title</b> Spermatogenic cell separation of mouse testis <b>Supervisor</b> Dr. D.Rickwood	Department of Biological Sciences, University of Essex, Wivenhoe Park, Colchester, CO4 3SQ, UK
1994 - 1997	<b>BSc.</b> (honours) degree in Biochemistry	Department of Biological Sciences, University of Essex, Wivenhoe Park, Colchester, CO4 3SQ, UK
1993 - 1994	<b>4 A-level</b> (Maths, Chemistry, Biology, Physics)	Interanglian Foundation College, Athens
1990	<b>First Certificate</b> in English	University of Cambridge

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## Professional career summary

Dates	Work details	Institution Details
2005 -	Senior Research Associate	National Heart & Lung Institute Thoracic Medicine Imperial College London SW3 6LY UK
2002 - 2005	Post-Doctoral Fellow & CDF	National Heart & Lung Institute Thoracic Medicine Imperial College London SW3 6LY UK

## Publications

### Refereed Journals

1. Tsaprouni L.G., Ito K., Punchard N.A. and Adcock I.M. (2002). Triamcinolone acetonide and dexamethasone suppress TNF- $\alpha$  induced histone H4 acetylation on lysine residues 8 and 12 in mononuclear cells. *N.Y academy of science*, 973: 481-483.
2. Kagoshima M., Wilcke T., Ito K., Tsaprouni L., Barnes P.J., Punchard N.A. and Adcock I.M. (2001) Glucocorticoid-mediated transrepression is regulated by histone acetylation and DNA methylation. *Eur. J. Pharmacol.*, 429(1-3): 327-334.
3. Tsaprouni L., Adcock I.M., Evans S. and Punchard N.A. (2001) Histone Acetylation and Inflammation of the Bowel. *Inflammation Research*, 50(sup. 3): S 168.
4. Tsaprouni L., Ito K., Adcock I.M. and Punchard N.A. (2000) Stimulation of U937 Cells with LPS induces Histone Acetylation. *Immunology*, 101(sup. 1): 250.
5. Tsaprouni L. and Adcock I.M. (2003) 13<sup>th</sup> European Respiratory Society Annual Congress. *Expert Opin. Investig. Drugs*. 12(12): 1995-1999.

6. Cosio B.G., Tsaprouni L., Ito K., Jazrawi E., Adcock I.M. and Barnes P.J. (2004) Theophylline Restores Histone Deacetylase Activity and Steroid Responses in COPD Macrophages. *J Exp Med.* 200(5): 689-695.
7. Adcock I.M., Cosio B., Tsaprouni L., Barnes P.J. and Ito K.(2005) Redox regulation of histone deacetylases and glucocorticoid-mediated inhibition of the inflammatory response. *Antioxid Redox Signal.* 7(1-2): 144-152.
8. Tsaprouni L., Ito K., Barnes P.J and Adcock I.M. (2004) Theophylline induction of Histone Deacetylase (HDAC)2 activity requires p38 MAPK Kinase. Presentation in the American Thoracic Society Meeting 2004.
9. Pele L.C, Thoree V., Mustafa F., He S., Tsaprouni L., Punchard N.A., Thompson R.P.H., Evans S.M. and Powell J.J. (2007) Low Dietary Calcium levels modulate mucosal caspase expression and increase disease activity in mice with dextran sulphate sodium-induced colitis. *J Nutrition* 137(11): 2475-2480.
10. Eumorphia Consortium, (2005) The EUMORPHIA Project: phenotyping the mouse - towards a systematic functional annotation of the mouse genome, *Transgenic Research*, 14 (4): 492-493, ISSN: 0962-8819.
11. Gkoutos G.V., Tsaprouni L.G., Hancock J.M. (2006) A guide for developing the mouse phenotype ontology. *Molecular Diversity Preservation International*
12. Adcock I.M., Tsaprouni L., Bhavsar P. and Ito K. (2007) Epigenetic regulation of airway inflammation. *Curr Opin Immunol*, 150(1): 694-700.
13. Tsaprouni L.G., Ito K., Adcock I.M. and Punchard N.A. Histone H4 lysine acetylation is upregulated during apoptosis in lymphocytes, submitted to *J. Biol. Chem.*
15. Tsaprouni L.G., Ito K., Powell J.J. Adcock I.M. and Punchard N. Differential patterns of histone acetylation in inflammatory bowel diseases. Submitted to *J Inflamm.*
16. Caramori G., Casolari P., Ito K., Jazrawi E., Tsaprouni L., Villetti G., Marwick J., Barnes P.J., Chung K.F., Adcock I.M. and Papi A. Decreased expression of the DNA repair protein Ku86 in bronchiolar epithelium of COPD patients. Submitted to *Lancet*
17. Tsaprouni L.G.,Moffatt M., Cookson W., and Adcock I.M. Differential dipeptidyl peptidase 10 expression regulates cell death in epithelial cells. Submitted to *AJRCCM.*

## Book Chapters

1. L Tsaprouni & G. V. Gkoutos, Towards a phenotypic Semantic Web, (invited by the editor P. Petratos), 2009, *in press*

## Conference papers, posters, announcements

Over 40

## Awards & Honours

- University of Luton PhD Studentship (1999)
- British Society of Immunology Trust 2001 Award (BSI 2001)
- Cell Signalling Transcription and Translation as Therapeutic Targets Travel Award (2002)
- Honorary Staff Membership, St.Thomas' Hospital, London (1998 -2001)
- European Respiratory Society Travel Award (2003)
- British Lung Foundation Travel Award (2004)
- American Thoracic Society Research Award (2005)
- Grant for Post Doctoral Research in Greece (FP6 ENTEP, 2006)
- State Scholarships Foundation, IKY research Scholar Grant, Greece (2008)

## Societies

- Member of the British Society of Immunology.
- Member of the Biochemical Society.
- Member of the GABRIEL consortium
- Member of the American Academy of Allergy Asthma and Immunology.
- Member of the EAACI

## Research Projects

### 2006 - **GABRIEL Consortium.**

A consortium that involves 32 research institutes and universities in Europe, with the goal of investigating the role of genetic and environmental factors in the pathophysiology of asthma in the European Union. The project involves geneticists, molecular biologists and bioinformaticians in order to shed a light in the factors that induce the increasing numbers of childhood and adult asthma in Europe.

### 2006 - **Phenotype Consortium**

An action, that focuses on co-ordination and integration of databases set up in support of FP5 and FP6 projects containing experimental data, including sequences, and material resources such as biological collections, relevant to the use of the mouse as a model organism for human disease.

## Training

- Animal handling trained
- Radiation safety trained
- Cell/tissue culture, cell fractionation, cell transfection, cell death and cell proliferation, molecular biology techniques
- Western blotting, EMSA, Luminex, protein purification
- ELISA, histone isolation, histone modification techniques, immunohisto/cytochemistry (confocal and brightfield microscopy), immunoprecipitation, ChIP assay, ChIP on ChIP assay, HDAC/HAT assay, PCR, RT-PCR
- Functional genomics, siRNA, directed mutagenesis, cloning

## Workshops and Career Development programs

- Introduction to Project Management for postdoctoral staff
- End Note
- Skills for Meetings
- Presenting Research Effectively
- Effective Networking and Personal Impact Workshop
- Planning for an academic Career
- Creativity and Innovation in Research
- Developing and coaching your staff for Postdoctoral Research staff
- Introduction to Leadership and Management
- Imperial College practical course in Research Ethics
- Preparing Successful Grant applications
- Negotiating and Influencing skills for research staff
- Research Governance training

## Oral Presentations

1. 12<sup>th</sup> State of the Art Interdisciplinary Review Course on Pulmonary diseases, Critical Care, Emergency Medicine and Nursing Care, Athens, 2008. Topic: Genetic and

- Environmental factor interactions in the pathogenesis of asthma and COPD. DPP10, smoking and oxidative stress.
2. American Thoracic Society, San Francisco, 2007. Topic: DPP10: Functional genomics in asthma and COPD
  3. University of Cambridge, Departmental Seminar, 2006. Topic: Functional genomics in COPD and asthma. From genes, to protein function, to future cures
  4. European Thoracic Society, Copenhagen, 2005. Topic: DPP10: Protein function and genomics of a protein associated with the pathogenesis of asthma
  5. American Thoracic Society, San Diego, 2005. Topic: Expression and Functional genomics of DPP10: a protein associated with the pathogenesis of asthma. **Star award for excellence in research**
  6. University of Bradford, 2004. Topic: Histone acetylation and deacetylation in the pathogenesis of asthma and COPD
  7. Medical Research Council, 2004. Topic: Theophylline, an old drug with a new mechanism of action
  8. British Royal Society, 2003. Topic: How steroids switch off inflammation: rewinding DNA
  9. Graduate School Open Day, University of Leicester, 2002. Topic: Histone Acetylation in inflammatory bowel diseases
  10. 5<sup>th</sup> World Congress on Inflammation, 2001. Topic: Histone Acetylation and Inflammation of the Bowel
  11. Open Research Day, University of Luton, 2000. Topic: Histone acetylation in the TNBS model of experimental colitis
  12. National Heart and Lung Institute, 2000. Topic: Triamcinolone Acetonide suppresses TNF- $\alpha$  induced histone H4 acetylation on lysine residues 8 and 12 in mononuclear cells
  13. University of Luton, 1999. Topic: Histone acetylation and apoptosis in inflammation

## Funding Sources

1999 – 2002	University of Luton & Imperial College of Science and Technology research
1999 – 2002	BPSRC research studentship (UK)
2002 – 2004	National Heart and Lung Institute
2002 – 2005	Mitsubishi Pharma (Japan)
2004 – 2006	Third EU funding program in Greece “Pythagoras”
2004 –	National Heart and Lung Institute, Imperial College
2005 – 2008	Glaxo Smithkline (UK)
2006 –	GABRIEL Project (FP6, EU funded)

## Collaborations

Dr. Gaetano Caramori, University of Ferrara, Italy

Dr. Irfan Rahman, University of Boston, USA

Dr. Dimitrios Pletsas, Dept. of Pharmacology, University of Bradford, UK

Dr. Valter Tucci, Dept. Neurobiology, School of Medicine, Boston University, USA

Dr. G. V. Gkoutos, Dept. Genetics, University of Cambridge

Dr. S. Pereira, Middlesex Hospital, London

Dr. R.P.H. Thompson, St.Thomas' Hospital, London

Dr. T. Bourne, Celltech, Slough

Dr. P. Katsaounou, Euaggelismos Hospital, National Kapodistrian University, Greece

Dr. T. Vassilakopoulos, Euaggelismos Hospital, National Kapodistrian University, Greece

## Academic Activities

1999 – 2003 Assistant in the organization of the British Society of Immunology conference

2001 – 2002 Assistant in the organization of the annual meeting of PhD students  
(Graduate School Residential, Leicester)

2000 - Teaching (presentations/lectures/lab work).  
Topics include: cell culture, molecular and cell biology, pharmacology.

2000 – 2002 Supervision of two undergraduate research projects.  
1. "Role of NO in epithelial and monocytic cell viability"  
2. "LPS induces cell death in Peyer's patches"

2003 - Co-Supervision of Phd students

2004 Involved in the organization of the British Royal Society Meeting

2006 - Development of ontologies that aid in the reproduction of phenotypic Information. More specifically my involvement has been in the studies that involve: Phenotype and Trait Ontology – PATO (Ontologies of Phenotype and Trade) and Assay Controlled Vocabularies



## References

- Prof. I.M.Adcock  
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- Prof. Peter Barnes  
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Dove House Street,  
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e-mail: [peter.barnes@ic.ac.uk](mailto:peter.barnes@ic.ac.uk)  
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