

## Curriculum Vitae

### Eleftheria Rosmaraki

Division of Genetics, Cell and Developmental Biology  
Department of Biology – University of Patras  
265 00 Patras – Greece

Telephone +30.2610.997407

e-mail rosmaraki@upatras.gr

### Work experience

**January 2009 –**

#### Lecturer in Immunology

*Division of Genetics, Cell and Developmental Biology  
Department of Biology  
University of Patras – Greece*

**February 2008 – December 2008**

#### Associate Editor – *Nature Reviews Clinical Oncology*

**October 2006 – January 2008**

#### Assistant Editor – *Nature Reviews Clinical Oncology*

*Nature Publishing Group  
London – United Kingdom*

**March 2003 – September 2006**

#### Post-doctoral fellow

*Department of Microbiology, Tumor and Cell Biology (MTC) and  
Strategic Research Centre IRIS  
Karolinska Institutet  
Stockholm – Sweden*

Genomic and proteomic analysis of Natural Killer (NK) cell tolerance;  
NK and NK-T cell development and function in *Aire*-deficient animals and  
APS1 syndrome patients.

Scientific collaborators: Pr. Petter Höglund and Pr. Klas Kärre

### Education and training

**2001**

#### Ph.D. in Immunology

*Institut Pasteur and University Paris V - Rene Descartes  
Paris – France*

Title Identification of committed NK-cell precursors in adult murine bone marrow.  
Scientific supervisor: Pr. James P. Di Santo

**1997**

#### MSc in Immunology

*Imperial College of Science, Technology & Medicine and Medical Research Council [MRC]  
London – United Kingdom*

Title The influence of H-2E in T-cell receptor repertoire selection.  
Scientific supervisor: Dr. James I. Elliott.

	<p><b>1995</b>  <b>BSc in Biology</b>  <i>Department of Biology</i>  <i>University of Crete – Greece</i></p>
<b>Fellowships</b>	<p><b>1997 – 1998</b> Vardinogiannio Foundation fellowship.</p> <p><b>1998 – 2000</b> Marie Curie Training and Mobility of Researchers (TMR) grant from the European Commission.</p> <p><b>2003 – 2004</b> Swedish Cancer Society post-doctoral fellowship.</p> <p><b>2004 – 2006</b> Wenner-Gren Foundation post-doctoral fellowship.</p> <p><b>2011 – 2013</b> Program C. Karatheodory, University of Patras.</p>
<b>Technical skills</b>	<p>Animal manipulation, murine and human cell isolation, cell cultures, ELISA, FACS analysis, cytotoxic assays, DNA/RNA preparation, gene transfer by retroviral infection, plasmid construction, 2-D gel electrophoresis, gene microarrays.</p>
<b>Teaching activities</b>	<p><b>Undergraduate courses:</b> Immunobiology, Cell Biology I, Cell Biology II, Selected Topics of Cell Biology, Bioethics &amp; Ethics of Technology.</p> <p><b>Postgraduate courses:</b> Topics in Immunobiology.</p>
<b>Publications</b>	<ol style="list-style-type: none"> <li>1. A.N. Antoniou, J. Elliott, <b>E. Rosmarakis</b> and P.J. Dyson. MHC class II Ab diabetogenic residue 57 Asp/non-Asp dimorphism influences T-cell recognition and selection. <i>Immunogenetics</i> 1998, 47: 218–225.</li> <li>2. J.P. Di Santo, I. Aifantis, <b>E. Rosmaraki</b>, C. Garcia, J. Feinberg, H.J. Fehling, A. Fischer, H. von Boehmer and B. Rocha. The common cytokine receptor <math>\gamma</math> chain and the pre-T cell receptor provide independent but critically overlapping signals in early <math>\alpha/\beta</math> T cell development. <i>J. Exp. Med.</i> 1999, 189: 563–574.</li> <li>3. F. Colucci, C. Soudais, <b>E. Rosmaraki</b>, L. Vanes, V.L.J. Tybulewicz and J.P. Di Santo. Dissecting NK cell development using a novel alymphoid mouse model: Investigating the role of the c-Abl proto-oncogene in murine NK cell differentiation. <i>J. Immunol.</i> 1999, 162: 2761–2765.</li> <li>4. F. Colucci, <b>E. Rosmaraki</b>, S. Bregenholt, S.I. Samson, V. Di Bartolo, M. Turner, L. Vanes, V. Tybulewicz and J.P. Di Santo. Functional dichotomy in Natural Killer Cell signaling: Vav1-dependent and –independent mechanisms. <i>J. Exp. Med.</i> 2001, 193: 1413–1424.</li> <li>5. <b>E. E. Rosmaraki</b>, I. Douagi, C. Roth, F. Colucci, A. Cumano and J.P. Di Santo. Identification of committed NK cell progenitors in adult murine bone marrow. <i>Eur. J. Immunol.</i> 2001, 31: 1900–1909.</li> <li>6. C.A.J. Vosshenrich, T. Ranson, S.I. Samson, E. Corcuff, F. Colucci, <b>E. E. Rosmaraki</b> and J.P. Di Santo (2005). Roles for common cytokine receptor <math>\gamma</math> chain-dependent cytokines in the generation, differentiation, and maturation of NK cell precursors and peripheral NK cells in vivo. <i>J. Immunol.</i> 2005, 174: 1213–1221.</li> <li>7. S. Johansson, M. Johansson, <b>E. Rosmaraki</b>, G. Vahlne, R. Mehr, M. Salmon-Divon, F. Lemmonier, K. Kärre and P. Höglund. Natural Killer cell education in mice with single or multiple major histocompatibility complex class I molecules. <i>J Exp Med</i> 2005, 201: 1145–1155.</li> </ol>

8. J. Petrovic Berglund, M. Ferrandiz, **E. Rosmaraki**, H. Hall, P.A. Cazenave, A. Six and P. Höglund. TCR repertoire dynamics in the pancreatic lymph nodes of non-obese diabetic (NOD) mice at the time of disease initiation. *Mol. Immunol.* 2008, 45: 3059–3064.
9. E. Lindh\*, **E. Rosmaraki**\*, L. Berg, H. Brauner, M.C. Karlsson, L. Peltonen, P. Höglund and O. Winqvist (2009). AIRE deficiency leads to impaired iNKT cell development. *J. Autoimmun.* 2010, 34: 66–72.
10. M. Petropoulos, G. Karamolegkou, **E. Rosmaraki**, S. Tsakas. Hydrogen peroxide signals *E. coli* phagocytosis by human poly-morphonuclear cells; up-stream and down-stream pathway. *Redox Biology* 2015, 6: 100-105.
11. S. Tsakas, E. Marinaki, T. Eleftheriadis, D.S. Goumenos and **E. E. Rosmaraki**. Alterations of natural killer cell count, activation capability and cytotoxicity, in glomerunephritis. *Cellular Immunology & Immunotherapeutics* 2016 1: 1-5.
12. S. Fili, A. Valmas, M. Christopoulou, M. Spiliopoulou, N. Nikolopoulos, J. Lichière, S. Logotheti, F. Karavassili, **E. Rosmaraki**, A. Fitch, J. Wright, D. Beckers, T. Degen, G. Nénert, R. Hilgenfeld, N. Papageorgiou, B. Canard, B. Coutard and I. Margiolaki. Coxsackievirus B3 protease 3C: expression, purification, crystallization and preliminary structural insights. *Acta Crystallogr. F Struct. Biol. Commun.* 2016, 72 (Pt 12): 877-884.

#### Conferences, meetings & workshops

1. J. P. Di Santo, F. Colucci and **E. Rosmaraki**. An alymphoid mouse model for dissecting NK development and function - *ENII (European Network of Immunology Institutes) conference 1999, France.*
2. F. Colucci, **E. Rosmaraki**, M. Turner, V. Tybulewicz and J. P. Di Santo. Molecular dissection of Natural Killer cell signalling pathways - *ENII conference 1999, France.*
3. **E. E. Rosmaraki**, I. Douagi, A. Cumano and J. P. Di Santo. Characterisation of a committed NK cell precursor in murine bone marrow - *Departmental conference of the Immunology department of the Pasteur Institute 1999, France.*
4. **E. E. Rosmaraki**, I. Douagi, C. Roth, F. Colucci, A. Cumano and J. P. Di Santo. Characterisation of committed NK cell precursors in murine bone marrow – *18<sup>th</sup> NK cell workshop, 6<sup>th</sup> annual meeting of the Society for Natural Immunity 2000, France.*
5. F. Colucci, **E. Rosmaraki**, S. Bregenholt, M. Turner, L. Vanes, V.L.J. Tybulewicz and J. P. Di Santo. Functional dichotomy in NK cell signalling: Vav1-dependent and Vav1-independent mechanisms - *18<sup>th</sup> NK cell workshop, 6<sup>th</sup> annual meeting of the Society for Natural Immunity 2000, France.*
6. **E. E. Rosmaraki**, I. Douagi, C. Roth, F. Colucci, A. Cumano and J. P. Di Santo. Characterisation of committed NK cell precursors in murine bone marrow – *Annual meeting of the Swedish Society for flow cytometry 2005, Sweden.*
7. **E. E. Rosmaraki**, K. Kärre and P. Höglund. Proteomic analysis of NK cell tolerance - *Immune synapse meeting at Karolinska Institute 2005, Sweden.*
8. S. Johansson, M. Johansson, **E. Rosmaraki**, G. Vahlne, M. Salmon-Divon, F. Lemmonier, K. Kärre, R. Mehr and P. Höglund. NK cell education and tolerance in mice with no, single or multiple MHC class I molecules - *21<sup>st</sup> NK cell workshop, 9<sup>th</sup> annual meeting of the Society for Natural Immunity 2005, USA.*
9. M. Elemans, **E. Rosmaraki**, M. H. Johansson, P. Höglund, K. Kärre and R. Mehr. Modelling spleen NK cell population dynamics - *21<sup>st</sup> NK cell workshop, 9<sup>th</sup> annual meeting of the Society for Natural Immunity 2005, USA.*
10. S. Johansson, K. Andersson, G. Williams, M. Salmon-Divon, **E. Rosmaraki**, B. Vanherberghen, P. Brodin, G. Vahlne, R. Mehr, D. M. Davis and P. Höglund. Education and Calibration of Murine Natural Killer Cells - *Human Frontiers Science Program (HFSP) meeting 2006, France.*

11. M. Elemans, **E. Rosmaraki**, M. Johansson, P. Höglund, K. Kärre and R. Mehr. Modelling spleen NK cell population dynamics - *16<sup>th</sup> European congress of Immunology 2006, France.*
12. **E. E. Rosmaraki**, K. Kärre and P. Höglund. Proteomic and genomic analysis of NK cell tolerance - *Karolinska Institute Immunology network 2006 meeting, Sweden.*
13. E. Lundgren, **E. Rosmaraki**, L. Berg, P. Höglund and O. Winqvist. NK and NK-T cell development and function in the absence of the Autoimmune Regulator *Aire* – *Karolinska Institute Immunology network 2006 meeting, Sweden.*
14. **E. E. Rosmaraki**, K. Kärre and P. Höglund. Proteomic and genomic analysis of NK cell tolerance - *Nordic NK cell meeting 2006, Sweden.*
15. E.K. Lundgren, **E. Rosmaraki**, L. Berg, P. Höglund and O. Winqvist. Normal NK cell development absence of *Aire* - *Annual Meeting of the American Association of Immunologists 2006, USA.*
16. M. Elemans, A. Kaplan, M. Johansson, **E. Rosmaraki**, R. Mehr and K. Kärre. Development and maturation of NK cells: combining experiments and mathematical modelling – *22<sup>nd</sup> NK cell workshop, 10<sup>th</sup> annual meeting of the Society for Natural Immunity 2007, UK.*
17. M. Elemans, M. Johansson, **E. Rosmaraki**, K. Kärre and R. Mehr. Elucidating NK cell development in the bone marrow: combining experiments and mathematical modelling – *NK 2008, 11<sup>th</sup> meeting of the Society for Natural Immunity, Australia.*