

ELENA E. SOLOMOU

HEMATOLOGIST

ASSISTANT PROFESSOR, INTERNAL MEDICINE

UNIVERSITY OF PATRAS MEDICAL SCHOOL

CURRICULUM VITAE

PATRAS, GREECE

2013

1. PERSONAL INFORMATION

1.1. Name: Elena E. Solomou

1.2. Date and Place of Birth: 25/09/1973, Nicosia, Cyprus

1.3. Marital status: Married to Stamatis-Nick Liossis, mother of a 4-year old boy

1.4. Address: 2 Momferatou and Somerset St., 26504 Rion, Patras, Greece.

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2. EDUCATION

2.1. UNDERGRADUATE

2.1.1. University of Athens Medical School, Athens Greece (Sept 1991-Sept 1997). Degree: Ptyhiolatrikis (MD)

2.2. POSTGRADUATE (RESEARCH ONLY)

2.2.1. 1998 – 2000. Master's Degree in Clinical and Experimental Medicine, University of Athens Medical School. Specialization in Hematology. Thesis: Identification of a novel gene in the chromosomal region 13q14.

2.2.2. 02/2000 – 03/2001: Postdoctoral Fellow, Department of Cellular Injury, Walter Reed Army Institute of Research, Silver Spring, Maryland, USA (Chief: Prof. George C. Tsokos).

2.2.3. Translational Research in Clinical Oncology (TRACO Course, 2005-2006) National Cancer Institute, National Institutes of Health, Bethesda, Maryland, USA.

Postgraduate course in clinical oncology for medical doctors interested in oncology (certificate).

2.2.4. 03/2005 – 03/2008: Postdoctoral Fellow, Hematology Branch, National Heart Lung and Blood Institute, National Institutes of Health, (NIH), Bethesda, Maryland, USA (Chief: Dr. Neal S. Young).

2.3. PhD

Title: «Identification and characterization of a novel gene in the chromosomal region 13q14. This gene acts as nucleotide exchange factor and is deleted in patients with Chronic Lymphocytic Leukemia».

Department of Medicine, University of Athens Medical School

Degree: “Excellent”, Sept 24, 2002.

3. POSTGRADUATE CLINICAL EXPERIENCE

3.1. 10/1997 – 02/1998: “Laikon” General Hospital of Athens. 1st Propedeutic Dept of Internal Medicine. Internal Medicine.

3.2. 02/2000 – 03/2001: Dept of Internal Medicine, Walter Reed Army Hospital, of the Uniformed Services University of the Health Sciences (USUHS). Internal Medicine.

3.3. 03/2001 – 09/2002: “Laikon” General Hospital of Athens. 1st Propedeutic Dept of Internal Medicine. Internal Medicine.

3.4. 09/2002 – 03/2005: Patras University Hospital, Dept of Internal Medicine, Div of Hematology. Hematology.

3.5. 03/2005 – 09/2006: Hematology Branch, National Heart Lung and Blood Institute, NIH, Bethesda, Maryland, USA. Hematology.

3.6 July 2007, Board Certified Hematologist (Greece).

5. CURRENT POSITION

Jan 2008: Elected Lecturer, Internal Medicine, University of Patras Medical School.

Jan 2009 – Dec 2012: Senior Lecturer, Dept of Internal Medicine, Patras University Hospital.

May 2013-today: Assistant Professor, Dept of Internal Medicine, Patras University Hospital.

Clinical duties include:

- The care of inpatients (as well as outpatients) at the Dept of Medicine, Patras University Hospital (PUH).
- The Hematology Consults of all inpatients hospitalized at the Medical wards of PUH. The Dept of Medicine at PUH hospitalizes 80 – 100 patients per day.
- The evaluation of peripheral blood smears and bone marrow smears of all inpatients of the Dept of Medicine, PUH.
- The diagnosis of patients hospitalized at the Dept of Medicine, PUH, with hematological disorders and diseases.
- Everyday interaction and discussion of therapeutic options and treatment plans of all newly diagnosed patients with hematological diseases with the members of the Division of Hematology, Dept of Internal Medicine, PUH.

7. TEACHING EXPERIENCE

7.1. NIH, Hematology Branch: Team leader (5 postgraduate students / colleagues) studying the immunological basis of bone marrow failure.

7.2. Teaching of postgraduate students at the Rheumatology Research Lab and the Hematology Research Lab of the Dept of Internal Medicine, University of Patras Medical School. (March 2008 – Today)

7.3. Teaching the lesson “Aplastic Anemia and PNH” at the “Hellenic Hematology Association Education Program” for the fellows in Hematology nationwide.

7.4 Teaching at the “Postgraduate training program in Hematology” for the Hematology Fellows of the Dept of Medicine, PUH.

7.5. Courses in “Pathology”: 3rd yr Medical Students, University of Patras Medical School.

7.6. Teaching at the “Postgraduate training program in Medicine” for the Internal Medicine Fellows of PUH.

7.7. Teaching (small group teaching in the class and at bedside) in “Clinical Skills” for 1st and 2nd yr Medical Students, University of Patras Medical School.

7.8. Person-in-Charge for the clinical training of 5th and 6th yr Medical Students rotating in Internal Medicine, University of Patras Medical School.

8. SCIENTIFIC PUBLICATIONS

8.1. Solomou EE, YT Juang, MF Gourley, GM Kammer, GC Tsokos. Molecular basis of deficient IL-2 production in T cells from patients with systemic lupus erythematosus.
Journal of Immunology, 2001; 166: 4216-4222.

8.2. Lioussis SN, Solomou EE, Dimopoulos MA, Panayiotidis P, Mavrikakis M, Sfikakis PP. B-cell kinase Lyn deficiency in patients with systemic lupus erythematosus.
Journal of Investigative Medicine 2001; 49:157-165.

8.3. Solomou EE, YT Juang, GC Tsokos. PKC- θ participates in the activation of CREB and its subsequent binding on the -180 site of the IL-2 promoter in normal human T lymphocytes.
Journal of Immunology, 2001; 166: 5665-5674.

8.4. Juang YT, EE Solomou, B Rellahan, MF Gourley, GC Tsokos. Phosphorylation and O-linked glycosylation of Elf-1 leads to its translocation to the nucleus and binding to the promoter of the TCR-zeta chain.

Journal of Immunology, 2002; 168:2865-2871.

8.5. Herndon TM, YT Juang, EE Solomou, SW Rothwell, MF Gourley, GC Tsokos. Electroporation mediated gene transfer of p65 into T lymphocytes from Systemic Lupus Erythematosus patients leads to increased levels of interleukin-2 promoter activity.

Clinical Immunology, 2002; 103: 145-53.

8.6. Solomou EE, Sfrikakis PP, Kotsi P, Papaioannou M, Karali V, Vervessou E, Hoffbrand AV, Panayiotidis P. Identification of a new gene that maps on the 13q14.3 chromosomal region and acts as a guanine nucleotide factor.

Leukemia and Lymphoma, 2003; 44:1579-85.

8.7. Juang YT, Wang Y, EE Solomou, Li Y, Marwin C, Tenbrock K, Kyttaris V, Tsokos GC. Systemic lupus erythematosus serum IgG increases CREM binding to the IL-2 promoter and suppresses IL-2 production through CaMKIV.

Journal of Clinical Investigation, 2005; 115 (4):996-1005.

8.8. Monastirli A, Matsouka P, Pasmatzis E, Melachrinou M, Georgiou S, Solomou EE, Zoumbos N, Tsambaos D. Complete remission of recalcitrant viral warts under oral isotretinoin in a patient with low-grade B-cell lymphoma.

Acta Dermato-Venereologica, 2005; 85(4): 358-360.

8.9. Solomou EE, Keyvanfar K and Young NS. T-bet, a Th1 transcription factor, is up-regulated in T cells from patients with aplastic anemia.

Blood, 2006; 107: 3983-3991.

8.10. Symeonidis A, Kouraklis-Symeonidis A, Constandinidou I, Solomou EE, Kougelou S, Vassilakos P, Zoumbos N. Increased CA-15.3 levels in the serum of patients with homozygous β -thalassaemia and sickle-cell/ β -thalassaemia.

British Journal of Haematology, 2006; 133 (6): 692-694.

8.11. Liossis SN, Solomou EE, Sfrikakis PP. Lyn deficiency in B cells from patients with systemic lupus erythematosus: comment on the article by FloresBorja et al.

Arthritis and Rheumatism 2006; 54:2036-7 (letter).

8.12. Sloand EM, Yong ASM, Ramkissoon S, Solomou EE, Bruno TC, Kim S, Fuhrer M, Kajigaya S, Barrett AJ, Young NS. Granulocyte colony-stimulating factor preferentially stimulates proliferation of monosomy 7 cells bearing the soform IV receptor.

Proceedings of the National Academy of Sciences USA 2006; 103: 14483-14488.

8.13. Sloand EM, Chen G, Pfannes L, Shah S, Solomou EE, Barrett JA, Young NS. CD34 cells from trisomy 8 myelodysplastic syndrome (MDS) patients express early apoptotic markers but avoid programmed cell death by upregulation of anti-apoptotic proteins.

Blood, 2007; 109:2399-405.

8.14. Solomou EE, Gibellini F, Stewart B, Malide D, Berg M, Visconte V, Green S, Childs R, Chanock SJ, Young NS. Perforin gene mutations in patients with acquired aplastic anemia.

Blood 2007; 109: 5234-5237.

8.15. Solomou EE, Visconte V, Wong Suzan, Gibellini F, Young NS. Decreased TCR ζ -chain expression in T cells from patients with aplastic anemia.

British Journal of Haematology 2007; 138: 72-76.

8.16. Solomou EE, Rezvani K, Mielke S, Malide D, Keyvanfar K, Visconte V, Barrett AJ, Young NS. FOXP3-positive regulatory T cells in patients with acquired aplastic anemia.

Blood 2007; 110: 1603-1606.

*8.17. FengX, KajigayaS, SolomouEE, KeyvanfarK, XuX, RaghavachariN, MunsonPJ, HerndonTM, ChenJ, YoungNS. Rabbit ATG but not horse ATG promotes expansion of functional CD4+CD25highFOXP3+ regulatory T cells in vitro.Blood. 2008;111:3675-83 * Equal second author

8.18. Daoussis D, Liossis SN, Solomou EE, Tsanaktsi A, Bounia K, Karampetsou M, Yiannopoulos G, Andonopoulos AP. Evidence that Dkk-1 is dysfunctional in ankylosing spondylitis.Arthritis & Rheumatism 2010; 62:150-8

8.19. Akinosoglou KS, Solomou EE, Gogos CA Malaria: a haematological disease.
Hematology. 2012; 2:106-14.

9. BOOK CHAPTERS

9.1. Major Contributor «Molecular Basis and Pathophysiology of Blood Disorders»
N.C.Zoumbos,Editor, Pikramenos Publishing Group, Patras, Greece, 2009.

9.2. Solomou EE. The Role of Transplantation in Acquired Aplastic Anemia.
In: New Insights in Hematopoietic Cell Transplantation, A.Spyridonides, I Sakellari, Editors.
Research Signpost, 2010.

10. SCHOLARSHIPS AND AWARDS

1. March 1991: 1st Award at the “Pan-Cyprian Chemistry Competition”.
2. 1991: Honorary Award at the “World Chemistry Olympiad”, Poland.

3. 1991 - 1997: During my 6 years of studying at the University of Athens Medical School I received 6 times a scholarship from the Cyprus Telecommunications Authority (CYTA).
4. 1998 – 2000: A 2-yr scholarship from the University of Athens Postgraduate Program “Clinical and Laboratory Medicine”.
5. Nov 2000. 1st Award at the Pan-Hellenic Medical Congress (Athens). 1st Award in Basic Medical Research “Identification and characterization of E4.5 gene located at 13q14 chromosomal locus. A guanine nucleotide exchange factor that is defective in patients with Chronic Lymphocytic Leukemia”.
6. March 2001: The Henry Christian Award (American Federation of Medical Research) for “Excellence in Medical Research”.
7. February 2004: The Hans Wyder Scholarship from the European School of Oncology.
8. June 2006: The “Papagiannis Memorial Scholarship” from the Hellenic Hematology Society for my research project entitled “Mechanisms of interferon- γ overproduction in patients with aplastic anemia and myelodysplastic syndromes at the molecular level”.

11. RESEARCH GRANTS

11.1. 2005 – 2006: “Interferon- γ overproduction in patients with aplastic anemia and myelodysplastic syndromes at the molecular level: the role of transcription factors”.

Aplastic Anemia and Myelodysplastic Syndrome International Foundation, USD 10.000. Principal Investigator.

11.2. 2004 – 2006: “The effects of alpha interferon on the production of interleukin 2 from T cells of patients with Systemic Lupus Erythematosus”

Hellenic Rheumatology Society, €5.000. Co-investigator.

11.3. 2011 – 2013: “The pathogenic role of novel T cell subsets in patients with myelodysplastic syndromes and aplastic anemia: A study of the phenotype and the molecular mechanisms controlling the expression and function of Th17, TFH and Treg T cells”.

*TheUniversityofPatras “Karatheodoris” programofBasicResearchGrants, € 30.000.

* The “Karatheodoris” Grants of the University of Patras represent the most prestigious, highly - competitive grants offered by this institution. FundingstemsdirectlyfromtheGreekGovernment (Public Investments Program).

12. FOCUS OF RESEARCH

12.1. TheroleofTcellsincancerbiology.

12.2. Bone marrow failure pathophysiology.

12.3. HumanTcellphysiology.

13. SCIENTIFIC SOCIETIES

13.1. 2002 – Today: Hellenic Hematology Association (Full Member).

13.2. 2006 – Today: Fellow of the AmericanSocietyofHematology.

13.3. 2009– Today: Cyprus Hematology Association (Founding Member).

14. OTHER SCIENTIFIC ACTIVITIES

14.1. Reviewer (ad hoc) in scientific journals

14.1.1. Blood

14.1.2. The Journal of Immunology

14.1.3. Clinical and Translational Science

14.1.4. Clinical Immunology

14.1.5. PLoS One