

## CURRICULUM VITAE

### Alexandros Spyridonidis, MD, PhD

*Name:* Spyridonidis, Alexandros  
*Born:* 29<sup>th</sup> November 1968, Thessaloniki Greece  
*Present:* Associate Professor, Head of the BMT Program  
University of Patras, Hematology Division  
and  
Lecturer (Privat Dozent), Dpt. of Hematology / Oncology,  
Freiburg University Medical Center  
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### Current Position

Head of the BMT Program at Patras University, performing autologous, sibling allogeneic and unrelated allogeneic hematopoietic cell transplantations

Head of the BMT Laboratory, performing chimerism analyses, cyclosporine level measurements and HLA typings

Head of the BT Research Group, working on GvHD pathogenesis, immunregualtion, translational research and leukemic stem cells

### Biographical

*Elementary Education:* 1974-1986, Thessaloniki, Greece

*Medical Education:* 1986-1992, Aristotle University Greece

Clinical elective: University Hospital of Saarland/ Germany  
and Hospital of Wil/ Swiss

*Military Service:* 1992-1994: Greek Army

*Positions:* 1992-1994: Residency at the Dept. of Medicine, 424 General Military Hospital, Greece

1994-1995: Residency Health Centre Alexandria / Greece

1995-2005: Dept. of Haematology /Oncology, University of Freiburg / Germany

Since 10/2005: Head of the BMT Program, University of Patras / Greece

### **Titles / Licensed Physician**

1997	Thesis/ Dissertation, <i>Dr. med.</i> , University of Freiburg
2002	Specialist in Internal Medicine, Germany
2003	Specialist in Hematology and Oncology, Germany
2004	Academic Teaching Licence, <i>Venia Legendi</i> , University of Freiburg (Assistant Professorship)
2005	Associate Professor, Head of the BMT Program, University of Patras, Greece

### **Clinical Area of Interest**

- Haematological Malignancies and especially Leukaemia's
- Hematopoietic Cell Transplantation

### **Research Area of Interest**

1. Hematopoietic Stem Cells and Engineering (Biology, Ex vivo expansion, purging)
2. Adult Stem Cells (endothelial stem cells, tumour stem cells, stem cell plasticity)
3. Leukemia (Chemoresistance mechanisms in Leukaemia, Leukemic Stem Cells)
4. Hematopoietic Cell Transplantation (Pathogenesis of GvHD, Immunoregulation, translational research)

### **Membership**

1. International Society for Cell Therapy (ISCT)
2. Deutsche Gesellschaft für Hämatologie / Onkologie (DGHO)
3. European Group of Blood and Marrow Transplantation (EBMT)
4. American Society of Hematology
5. Hellenic Haematological Foundation
6. American Society of Bone Marrow Transplantation (ASBMT)
7. European Organization for Research and Treatment of Cancer (EORTC)

### **Awards (International)**

1. Young Investigators session and awards. International Society of Experimental Hematology (38rd annual meeting of ISEH 2009). Presentation in the Plenary Session. *Experimental Hematology* 2009: Vol 37(9) Suppl1 page 43.
2. ASH Travel Award at 50th Annual Meeting of the American Society of Hematology (ASH) San Fransisco, USA, 2008 *Blood* 112 (11), 452
3. Best Abstract in the 34<sup>th</sup> Annual Meeting of the European Group for Blood and Marrow Transplantation, Florence, Italy, March 2008, Presentation in the Presidential Symposium. *Bone Marrow Transplantation* 2008: 41 (1), 3
4. Best Abstract in the XXIII International Association for Comparative Research on Leukemia and Related Diseases Symposium: from Molecular Pathogenesis to Targeted Therapy in Leukemia and Solid Tumors. Freiburg, September 2007. *Cancer Research* 68, 5512, 2008.
5. 3<sup>rd</sup> Price of the Chugai Pharma award on Stem Cell Transplantation 2002. Spyridonidis A. Epithelial chimerism after human hematopoietic stem cell transplantation is a real phenomenon not caused by fusion.
6. Nature Publishing Group Prize: Best oral Presentation in the 30<sup>th</sup> Annual Meeting of the European Group for Blood and Marrow Transplantation, Barcelona, Spain, March 2004 *Bone Marrow Transplant.* 2004; 33:16
7. Best Research Project 12<sup>th</sup> Workshop University of Freiburg. (Committee: Prof. K. Blume, BMT Unit Stanford; Prof. M. Andreeff, MD Anderson Huston; Prof. H. Messner, Princess Margaret Hosp. Toronto; Prof. D. Wolf Harvard School, Boston; Prof. C. Peters, Dept. Molecular Med., Freiburg)
8. Best Abstract in the 28<sup>th</sup> Annual Meeting of the European Group for Blood and Marrow Transplantation, Montreux, Switzerland, March 2002, Presentation in the Presidential Symposium. *Bone Marrow Transplantation* 2002: 29(2), 72

### **Awards (in Greece)**

9. Best poster presentation in the 18<sup>th</sup> Annual Meeting of Hellenic Haematology Association , November 2007 *Haema* 2007, 10
10. Best oral presentation in the 19<sup>th</sup> Annual Meeting of Hellenic Haematology Association, November 2008. Presentation in Plenary Session. *Haema* 2008: 11 (suppl. 1), 119

11. Best oral presentation in the 19<sup>th</sup> Annual Meeting of Hellenic Haematology Association, November 2008. Presentation in Plenary Session. Haema 2008: 11 (suppl. 1), 19
12. «Arkagathos Goutas» Award (Best Award) in the 19<sup>th</sup> Annual Meeting of Hellenic Haematology Association, November 2008. Presentation in Plenary Session. Haema 2008: 11 (suppl. 1)
13. Best oral presentation in the 20<sup>th</sup> Annual Meeting of Hellenic Haematology Association, November 2009. Presentation in Plenary Session. Haema 2009: 12 (suppl. 1) 126
14. Best oral presentation in the 20<sup>th</sup> Annual Meeting of Hellenic Haematology Association, November 2009. Presentation in Plenary Session. Haema 2009: 12 (suppl. 1) 122,
15. «Arkagathos Goutas» Award (Best Award) in the 20<sup>th</sup> Annual Meeting of Hellenic Haematology Association, November 2009. Presentation in Plenary Session. Haema 2009: 12 (suppl. 1) 122

#### **Other awards**

1. Selected as a Mentor from the European Hematology Association (EHA) for the H-Net Masterclass (European Network for Harmonization of Training in Hematology). H-Net Masterclass is a three year educational project funded by the European Commission. Two mentors were selected from Greece (συννημένο πιστοποιητικό)
2. Selected as Principal Investigator of an European Survey on Acute Lymphoblastic Leukemia supported and funded by the EBMT (Outcomes and management in relapsed acute lymphoblastic leukaemia after allogeneic haematopoietic cell transplantation)
3. Selected as Principal Investigator of an EU Advanced Cellular Therapy Trial in AML (*EUDRACT 2009-017152-27*, Allogeneic Tumour-activated natural killer lymphocytes after low dose TBI and fludarabine for the treatment of acute myeloid leukaemia)
4. Selected as participant in an EU FP-7 large-scale integrating project (EU Alliance for Translational Research in Cellular Therapy of Hematological malignancies, EUTHERA-HM). In total 12 participants, total budget 12 Mio Euro, proposal submitted 11/2009

### **Publications (peer reviewed)**

1. **A. Spyridonidis**, M. Liga, E. Triantafyllou, M. Themeli, M. Karakantza, N. Zoumbos. Pharmacokinetics and clinical activity of very low dose alemtuzumab in transplantation for acute leukemia **Bone Marrow Transplant** (in press, 2010)
2. Waterhouse M, Themeli M, Bertz H, Zoumbos N, Finke J, **Spyridonidis A**. Horizontal DNA transfer from donor to host cells as an alternative mechanism of epithelial chimerism after allogeneic hematopoietic cell transplantation. **Biol Blood Marrow Transplant**. (in press, 2010).
3. A. Symeonidis, M. Liga, E. Triantafyllou, A. Kouraklis, M. Tiniakou, M. Karakantza, **A. Spyridonidis**, N. Zoumbos **Bone Marrow Transplant (in press, 2010)**
4. **Spyridonidis A**. Update on stem cell “plasticity”. **Memo- Magazine of European Medical Oncology** (2010) Vol. 3: 77–80
5. Lagadinou E., Marangos M., Liga M., Panos G., Tzouvara E., Dimitroulia E., Tiniakou M., Tsakris A., Zoumbos N., **Spyridonidis A**. HHV-6 related pure red cell aplasia, secondary graft failure and clinical severe immune suppression after allogeneic hematopoietic cell transplantation successfully treated with foscarnet. **Transpl Infect Dis**. 2010 Jun 15.
6. Lagadinou E, Zoumbos N, and **Spyridonidis A**. Challenges in Treating Older Patients with Acute Myeloid Leukemia. **Journal of Oncology** Volume 2010, Article ID 943823
7. Themeli M, Petrikkos L, Waterhouse M, Bertz H, Lagadinou E, Zoumbos N, Finke J, **Spyridonidis A**. Alloreactive microenvironment after human hematopoietic cell transplantation induces genomic alterations in epithelium through a ROS mediated mechanism: in-vivo and in-vitro study and implications to secondary neoplasia. **Leukemia** **24**, 536-543, 2010
8. Bertz H, **Spyridonidis A**, Wasch R, Grulich C, Egger M, Finke J. A novel GVHD-prophylaxis with low-dose alemtuzumab in allogeneic sibling or unrelated donor hematopoietic cell transplantation: the feasibility of deescalation. **Biol Blood Marrow Transplant**. 15:1563-1570, 2009
9. Eberwein P, Faber P, Reinhard T, Finke J, **Spyridonidis A**. Conjunctival epithelial cells with donor-derived genome following human hematopoietic stem cell transplantation. **Transplantation** 87:915-918, 2009

10. M. Waterhouse, M. Themeli, Y. Metaxas, E. Lagadinou, J. Finke, **A. Spyridonidis**: Horizontal DNA and mRNA transfer between donor and recipient cells after allogeneic hematopoietic cell transplantation? **Frontiers in Bioscience** 14:2704-2713, 2009
11. Marks R, Potthoff K, Hahn J, Ihorst G, Bertz H, **Spyridonidis A**, Holler E, Finke JM. Reduced-toxicity conditioning with fludarabine, BCNU, and melphalan in allogeneic hematopoietic cell transplantation: particular activity against advanced hematologic malignancies. **Blood** 112(2):415-25, 2008
12. Fourtounas C, Spyridonidis A, Dousdampanis P, Sacidaki E, Kalliakmani P, Papachristou E, Goumenos D, Vlachogiannis J Microchimerism in Peripheral Blood and Urine in Renal Transplant Recipients: Preliminary Results. **Transplantation Proceedings** 40:3434-3436, 2008
13. K Manola, V Georgakakos, C Stavropoulou, **A Spyridonidis**, M Angelopoulou, I Vlachadami, A Katsigiannis, P Roussou, G Pantelias, C Sambani. Jumping translocations in hematological malignancies: A cytogenetic study of five cases. **Cancer Genetics and Cytogenetics** 187:85-94, 2008
14. E Lagadinou, P Ziros, O Tsopra, K Dimas, D Kokkinou, E Thanopoulou, M Karakantza, P Pantazis, **A Spyridonidis**, N Zoumbos. c- Jun N-terminal Kinase (JNK) activation failure is a new mechanism of anthracycline resistance in acute myeloid leukemia. **Leukemia** 22:1899-1908, 2008
15. **Spyridonidis A**, Waterhouse M, Bertz H, Finke J. Long-term lymphoid-restricted split chimerism after myeloablative allogeneic BMT for bcr-abl+ ALL. **Bone Marrow Transplant.** 42:829-831, 2008
16. Grüllich C, Bertz H, **Spyridonidis A**, Müller CI, Finke J. A fludarabine, thiotepa reduced toxicity conditioning regimen designed specifically for allogeneic second haematopoietic cell transplantation after failure of previous autologous or allogeneic transplantation. **Bone Marrow Transplant.**; 41(10): 845-50, 2008
17. Metaxas Y, **Spyridonidis A**<sup>1</sup>, Bertz H, Finke J., Greiner J. Donor derived mucosal epithelial cells after human hematopoietic cell transplantation are not derived from the CD34 positive fraction of the graft. **Leukemia** 21(10):2214-6, 2007  
(<sup>1</sup>corresponding author)
18. Heining C, **Spyridonidis A**, Bernhardt E, Schulte-Monting J, Behringer D, Grullich C, Jakob A, Bertz H, Finke J. Lymphocyte reconstitution following

- allogeneic hematopoietic stem cell transplantation: a retrospective study including 148 patients. **Bone Marrow Transplant** 39 (10): 613-22, 2007
19. Faber P, Fisch P, Waterhouse M, Schmitt-Graff A, Bertz H, Finke J, **Spyridonidis A**. Frequent genomic alterations in epithelium measured by microsatellite instability following allogeneic hematopoietic cell transplantation in humans. **Blood** 5:107:3389-3396, 2006
20. Zeiser, Robert; **Spyridonidis A**; Bertz, Hartmut; Finke, Jürgen. Allogeneic stem cell transplantation for elderly patients with myeloid leukemia or acute myelodysplasia. **Dtsch Arztebl**; 102: 3098–3104, 2005
21. Metaxas Y, Zeiser R, Schmitt-Graeff A, Waterhouse M, Faber P, Follo M, Bertz H, Finke J, **Spyridonidis A**. Human hematopoietic cell transplantation results in generation of donor-derived epithelial cells. **Leukemia**. 19(7):1287-9, 2005
22. Zeiser R, **Spyridonidis A**, Wasch R, Ihorst G, Grulich C, Bertz H, Finke J. Evaluation of immunomodulatory treatment based on conventional and lineage-specific chimerism analysis in patients with myeloid malignancies after myeloablative allogeneic hematopoietic cell transplantation. **Leukemia**. 19(5):814-21, 2005
23. **Spyridonidis A**, Bertz H, Ihorst G, Grulich C, Finke J. Hematopoietic cell transplantation from unrelated donors as an effective therapy for older patients (> or = 60 years) with active myeloid malignancies. **Blood**. 105(10):4147-8, 2005
24. **Spyridonidis A**, Zeiser R, Wasch R, Bertz H, Finke J. Capillary electrophoresis for chimerism monitoring by PCR amplification of microsatellite markers after allogeneic hematopoietic cell transplantation. **Clin Transplant**. 19(3):350-6, 2005
25. **Spyridonidis A**, Kuttler T, Wasch R, Samek E, Waterhouse M, Behringer D, Bertz H, Finke J. Reduced intensity conditioning compared to standard conditioning preserves the in vitro growth capacity of bone marrow stroma, which remains of host origin. **Stem Cells Dev**. 14(2):213-22, 2005
26. **Spyridonidis A.**, Tomann T, Zeiser R., Follo M, Metaxas Y, Finke J. Stem Cell Plasticity: The Debate Begins to Clarify. **Stem Cell Reviews** 1:37-44, 2005
27. Zeiser R, Bertz H, **Spyridonidis A**, Houet L, Finke J. Donor lymphocyte infusions for multiple myeloma: Clinical results and novel perspectives. **Bone Marrow Transplant** 34:923-8., 2004

28. **Spyridonidis A**, Thomas AK, Bertz H, Zeiser R, Schmitt-Graff A, Lindemann A, Waller CF, Finke J. Evidence for a graft-versus-mast-cell effect after allogeneic bone marrow transplantation. **Bone Marrow Transplant** 34: 515-519, 2004
29. **Spyridonidis A**, Dwenger A, Tomann T, Follo M, Behringer D, Finke J. Epithelial tissue chimerism after human hematopoietic cell transplantation is a real phenomenon. **Am J Pathol** 164:1147-1155, 2004
30. **Spyridonidis A**, Finke J, Mertelsmann R. Hematopoietic stem cell transplantation: more than just hematopoietic? **Journal of Cancer Research and Clinical Oncology** 130: 127-134, 2004
31. Dwenger A, Rosenthal F, Machein M, Waller C, **Spyridonidis A** Transplanted bone marrow cells preferentially home to the vessels of in situ generated murine tumors rather than of normal organs. **Stem cells** 22: 86-92, 2004
32. **Spyridonidis A**, Otto F, Kraft A, von Kalle C. et al. Antibiotics for weight loss, osteolysis, hepatic and adrenal tumours. **Lancet** 259:1828, 2002
33. Thürl C, Althoefer C., **Spyridonidis A**, Laubenberger J. Imaging findings in the rare catastrophic variant of the primary antiphospholipid syndrome. **Eur J Radiol** 12:545-8, 2002
34. **Spyridonidis A**, Fischer KG, Glocker FX, Fetscher S, Klisch J, Behringer D. Paraneoplastic cerebellar degeneration and nephrotic syndrome preceding HD: case report and review of the literature. **Eur J of Haematology** 68:318-321, 2002
35. Behringer D., **Spyridonidis A.**, Fetscher S., Schmitt-Gräff A., Högerle S., Kaiser R. Paraneoplastic Polyneuropathy Preceding the Diagnosis of Hodgkin's Disease and Non-Small Cell Lung Cancer in a Patient with Concomitant *Borrelia burgdorferi* Infection. **Annals of Hematology**, 80:232-235, 2001
36. **Spyridonidis A**, Vaith P, Thürl C, Hassler C, Kleinschmidt M, Digel W. 66 year old woman with anemia, thrombocytopenia and abnormal coagulation tests after an orthopedic surgery. **Der Internist** 42:124-129, 2001
37. **Spyridonidis A**, Schollmeyer P, Katzenwadel A., Rump LC. Life-threatening hyperchloraemic acidosis in an azotaemic patient with normal serum creatinine. **Nephrology Dialysis Transplantation** 14: 1007-1009, 1999
38. Philippczik G, Fehrenbach J, Steinbruckner B, Potthoff K, **Spyridonidis A**, Lindemann A, Kist M, Bauer T. Nosocomial diarrhea caused by *Salmonella* Derby



- infection in two patients on chemotherapy. **Clin Microbiol Infect** 5: 586-588, 1999
39. **Spyridonidis A**, Bernhardt W, Behringer D, Köhler G, Azemar A, Pflug A, Henschler R: Influence of culture conditions on the survival and proliferation of tumor cells during *ex vivo* culture of CD34<sup>+</sup> progenitor cells. **Blood** 93:746-755, 1999
40. **Spyridonidis A**, Bernhardt W, Fetscher S, Behringer D, Mertelsmann R, Henschler R: Minimal residual disease in autologous hematopoietic harvests from breast cancer patients. **Ann Oncol** 9:821-826, 1998
41. **Spyridonidis A**, Schmidt M, Bernhardt W, Papadimitriou A, Azemar M, Wels W, Groner B, Henschler R: Purging of mammary carcinoma cells during *ex vivo* culture of CD34<sup>+</sup> hematopoietic progenitors with recombinant immunotoxins. **Blood** 91:1820-1827, 1998
42. Garbe A, **Spyridonidis A**, Möbest D, Schmoor C, Mertelsmann R, Henschler R: Transforming growth factor beta-1 delays formation of granulocyte-macrophage colony-forming cells, but spares more primitive progenitors during *ex vivo*-expansion of CD34<sup>+</sup> haemopoietic progenitor cells. **Br J Haematol** 99:951-958, 1997
43. **Spyridonidis A**, Mertelsmann R, Henschler R. Hematopoietic cell proliferation and differentiation. **Current Opinion in Hematology** 3:321-8,1996
44. **Spyridonidis A**, Georgopoulos H, Bairaktaris H, Psomas E, Vakianis P, Patsanas T, Didaggelos P, Mitsopoulos I. A mass screening method for beta-thalassaemia carriers with the use of electronic cell counters. **Hell Jatr** 61:564-571, 1995

### Book Chapters

1. **BOOK: Cellular Therapy**, Wekerle / Graf / Turner (Eds), **Springer Verlag, 1997**.:
  - a. p37-53: Recent developments in the *ex vivo* manipulation of hematopoietic cells from bone marrow and blood. Henschler R, Winkler J, Moebest D, Spyridonidis A, Lange W, Mertelsmann R.
2. **BOOK: Autologous Blood and Marrow Transplantation**, Dicke K. / Keating A. (Eds), **Carden Jennings Publishing Co, 1999**.

- a. pp 550-560: Behaviour of hematopoietic stem cells and solid tumor cells during ex vivo culture of transplants from human blood. Henschler R, Moebest D, Spyridonidis A, Goan S, Junghahn I, Groner B, Wels W, Bosse R, Winkler J, Mertelsmann R, Schulz G.
3. **BOOK:** Das Rote Buch, Hämatologie und Internistische Onkologie, Burger / Engelhardt / Mertelsmann (Eds); **ecomед, 2nd German Edition, 2002**
  - a. Chapter 8.5.3, p 682-685: Extragonadale Keimzelltumoren. Spyridonidis A, Waller C.
4. **BOOK:** Das Rote Buch, Hämatologie und Internistische Onkologie, Burger / Engelhardt / Mertelsmann (Eds); **ecomед, 3rd German Edition, 2006**
  - I. Chapter 7.5.9, p558-561: Marginalzonen Lymphome, MALT. Spyridonidis A, Fetscher S, Finke J.
  - II. Chapter 7.7, p 577-581: Mastozytosen Spyridonidis A, Finke J.
  - III. Chapter 8.5.2, p 714-717: Extragonadale Keimzelltumoren. Spyridonidis A, Waller C.
5. **BOOK:** Concise Manual of Hematology and Oncology, Berger / Engelhardt / Henss / Mertelsmann (Eds); **Springer, 1st English Edition, 2009**
  - I. Chapter 7.5.9 p 502-505: MALT Lymphoma. Spyridonidis A, Finke J.
  - II. Chapter 7.7 p 522-526: Mastocytosis. Spyridonidis A, Finke J.
  - III. Chapter 8.5.2 p 665-668: Extragonadal Germ Cell Tumors. Spyridonidis A, Waller C.
6. **BOOK:** Das Rote Buch, Hämatologie und Internistische Onkologie, Burger / Engelhardt / Mertelsmann (Eds); **ecomед, 4th German Edition (in press, 2010)**
  - I. Chapter 7.5.9: Marginalzonen Lymphome, MALT. Spyridonidis A, Finke J.
  - II. Chapter 7.7: Mastozytosen Spyridonidis A, Finke J.
  - III. Chapter 8.5.2: Extragonadale Keimzelltumoren. Spyridonidis A, Waller C.
7. **BOOK:** Hematopoietic Stem Cell Transplantation Research Advances, F. Columbus (Editor); **Nova Science Publishers, Inc. 2010.**
  - a. Volume 2, Issue 1/2: New insights in the development of biological chimeras: Genomic Instability and Epithelial Chimerism after Hematopoietic Stem Cell Transplantation. Spyridonidis A, Metaxas Y, Themeli M, Bertz H, Zoumbos N, Finke J.

8. **BOOK:** *New insights in Hematopoietic Cell Transplantation*, **Spyridonidis / Sakellari (Eds); Research Signpost Publishers, Inc. (2010, in press)**
  - I. Editorial. **Spyridonidis A, Sakellari I.**
  - II. Chapter 19: Epithelial chimerism and genomic instability after allogeneicHCT: two aspects of the same phenomenon. M Themeli, M Waterhouse, Y Metaxas, E Lagadinou, N. Zoumbos, J Finke, A Spyridonidis
9. **BOOK:** *Hämatopoetische Stammzellen: Grundlagen und Klinische Einsatzgebiete*. Huber, Herr, Ehninger, Einsele, Meyer (Eds); **Deutscher Ärzte-Verlag (in press, 2010).**
  - a. Chapter 2.4: Stammzellplastizität? A. Spyridonidis, Robert Zeiser.

#### **Editorial board / Reviewer**

1. Editorial Board Member: Magazine of European Medical Oncology- memo. (acceptance of nomination August 2009)
2. BOOK EDITOR: *New insights in Hematopoietic Cell Transplantation*, Editors: Spyridonidis A, Sakellari I. Research Signpost Publishers, Inc. (in press, 2009)
3. Reviewer in Journals: Blood, Leukemia, Haematologica, Annals of Hematology, Journal of Mol Med, Int. Journal of Cancer, Anatomy and Embryol, Journal of the College of Physicians Pakistan