

**7. CURRICULUM VITAE****Evgenia Makrantonaki**

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**Nationality** Hellenic  
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**Parents** Dr. med. Paris Makrantonakis  
 Prof. Maria Sakellariou-Makrantonaki

**EDUCATION**

1990-1996 **German School Thessaloniki, Greece**  
 1993 First Certificate in English, University of Cambridge  
 1995 Certificate of Proficiency in English, University of Cambridge  
 1996 German Abitur  
 Greek Apolytirion  
 1996-1998 **Semmelweis University Budapest, Hungary**  
 Pre-clinical Medical School  
 1998 "Physikum" (Preliminary Examination)  
 1999-2003 **Aristoteles University of Thessaloniki, Greece**  
 Clinical Medical School  
 2000-2001 **Freie Universität Berlin, Universitätsklinikum Benjamin Franklin, Germany**  
 Erasmus scholarship for studying at the Department of Medicine  
 2001-2002 Started experimental research at the Department of Dermatology in the Freie Universität Berlin, Universitätsklinikum Benjamin Franklin, on: "The molecular mechanisms of endogenous human skin aging".  
 2002-2003 **Aristoteles University of Thessaloniki, Greece**  
 Clinical Medical school  
 2003 Diplôme d'études en langue Française, Delf I  
 (First Certificate in French)

- 2003                   **Final exam** in Medicine
- 2003-2004           **Scientific officer** at the Department of Dermatology, Venerology and Allergology in Charité-Universitätsmedizin Berlin, Germany  
Scholarship "Deutsche Dermatologen Kongress 1995: Verein zur Förderung der Dermatologie e.V."
- 2005                   **Scientific officer** at the Department of Dermatology, Venerology and Allergology in Charité-Universitätsmedizin Berlin, Germany and working for the NGFN-2 Explorative Project 0313359 "The Genetic etiology of human longevity".

#### **HOSPITAL INTERNSHIPS**

- 07/1997               Theagenion Oncology Hospital, Thessaloniki, Greece  
Nursing at the 2<sup>nd</sup> Dept. of Internal Medicine
- 08/2000               St. Josefskrankenhaus, Heidelberg, Germany  
Clerkship at the Dept. of Internal Medicine
- 02/2001               Centre of Pneumology Unterstedt, Diakoniekrankenhaus  
Rotenburg (Wümme), Germany

#### **SCHOLARSHIPS**

- 08/2000               IFMSA scholarship for clerkship at the Department of Internal Medicine, St. Josefskrankenhaus, Heidelberg, Germany
- 10/2000-09/2001    Erasmus scholarship for studying at the Freie Universität Berlin, Universitätsklinikum Benjamin Franklin, Germany
- 02/2004- 01/2005    Scholarship for experimental research from the "Deutsche Dermatologen Kongress 1995: Verein zur Förderung der Dermatologie e.V."

#### **TRAVEL FELLOWSHIPS**

- "Aging of human sebocytes *in vitro* induced by exposure to a defined hormone environment", Albert M. Kligman Travel Fellowship 2005

**PUBLICATIONS**

1. Georgel P, Crozat K, Lauth X, *Makrantonaki E*, Seltmann H, Sovath S, Hoebe K, Du Xin, Rutschmann S, Jiang Z, Bigby T, Nizet V, Zouboulis CC and Beutler B (2005) "A TLR2-responsive lipid effector pathway protects mammals against Gram-positive bacterial skin infections" *Infect Immun* 73 (8): 4512-21 (**Paul-Gerson-Unna-Preis 2005**)
2. *Makrantonaki E*, Adjaye J, Herwig R, Brink TC, Groth D, Hultschig C, Lehrach H, Zouboulis CC (2005) "Aging of human sebocytes *in vitro* induced by exposure to a defined hormone environment", *under review*
3. *Makrantonaki E*, Zouboulis CC (2005) "Testosterone metabolism to 5 $\alpha$ -dihydrotestosterone and synthesis of sebaceous lipids is regulated by the peroxisome proliferator-activated receptor ligand linoleic acid in human sebocytes", *under review*

**BOOK CHAPTER**

1. Zouboulis CC, *Makrantonaki E* (2005) In: Krutman J, Gilchrest B (eds) "Skin aging" Springer, New York, Heidelberg

**ABSTRACTS**

1. Zouboulis CC, *Makrantonaki E*, Bornstein SR (2001) "Biological aging: Role of hormones and therapeutic implications" Programme and Abstracts of the 4<sup>th</sup> Teupitzer Colloquium "Free Radical and Skin: Aging, Carcinogenesis", Teupitz, Germany, p 21
2. *Makrantonaki E*, Fimmel S, Seltmann H, Zouboulis CC (2002) "Expression of hormone receptors in human skin cells" *Arch Dermatol Res* 294 (1/2):87
3. *Makrantonaki E*, Seltmann H, Fimmel S, Zouboulis CC (2002) "Biological effects of hormonal aging on human sebocytes *in vitro*" *J Invest Dermatol* 119 (3):715
4. Zouboulis CC, *Makrantonaki E* (2003) "Molekulare Mechanismen der hormonellen Hautalterung" *JDDG* 1(Suppl 1):94

5. *Makrantonaki E*, Oeff MK, Fimmel S, Zouboulis CC (2003) "Estrogen activity on human skin involves interaction with the insulin-like growth factor-I signaling pathway" *J Invest Dermatol* 121(1):A 0579
6. *Makrantonaki E*, Oeff MK, Fimmel S, Zouboulis CC (2003) "Molecular mechanisms of hormone-induced skin aging" *Exp Dermatol* 12:333
7. Zouboulis CC, Adjaye J, *Makrantonaki E*, Herwig R, Fimmel S, Seltmann H, Orfanos CE, Lehrach H (2003) "Enhanced inflammatory signaling, mitotic misregulation and alterations in intracellular transport and metabolism are involved in endogenous human skin aging" In: Fromm M (Hrsg) *Jahrbuch 2003*. Charité Universitätsmedizin Berlin, Campus Benjamin Franklin p447
8. Zouboulis CC, Chen W, Alestas Th, *Makrantonaki E*, Seltmann H, Müller-Decker K (2004) "Sexual hormones utilize complex mechanisms to modulate sebocyte differentiation" *Arch Dermatol Res* 295:395
9. *Makrantonaki E*, Adjaye J, Herwig R, Fimmel S, Seltmann H, Orfanos CE, Lehrach H, Zouboulis CC (2004) "Enhanced inflammatory signaling, mitotic misregulation and alterations in intracellular transport and metabolism are involved in endogenous human skin aging" *Human Genome meeting (HUGO)-2004 A 222*, p101
10. *Makrantonaki E*, Fimmel S, Seltmann H, Orfanos CE, Zouboulis CC (2004) "Mechanisms of endogenous skin aging" *JDDG* 2(6):544
11. *Makrantonaki E*, Oeff M, Fimmel S, Orfanos CE, Zouboulis CC (2004) "Estrogen activity on human skin involves interaction with the insulin-like growth factor-I (IGF-I) signaling pathway" *JDDG* 2(6):544
12. *Makrantonaki E*, Adjaye J, Herwig R, Fimmel S, Seltmann H, Zouboulis CC (2004) "Importance of sex- and age-specific hormonal changes on human endogenous skin aging" 1. Berliner Symposium Geschlechterforschung in der Medizin - GiM
13. Adjaye J, Herwig R, BenKhala A, Wasco, Wruck, Hultschig C, Neitfeld W, Yaspo M-L, *Makrantonaki E*, Eberle J, Geilen CC, Zouboulis CC, Orfanos CE, Lehrach H (2004) "The Human ENSEMBL Chip: A tool for unraveling molecular mechanisms associated with hormone induced skin aging and the progression of melanomas" *NGFN National Genome Research Network Meeting Berlin A 02.03*

14. Zouboulis ChC, Chen W, Alestas Th, *Makrantonaki E*, Seltmann H, Müller-Decker K (2005) "Sexual hormones utilize complex mechanisms to modulate sebocyte differentiation" *Exp Dermatol* 14:156
15. *Makrantonaki E*, Zouboulis CC (2005) "Interaction of androgens and PPAR ligands in human sebocytes" *Arch Dermatol Res* 296 (9):453
16. *Makrantonaki E*, Zouboulis CC (2005) "The effect of androgens on lipid metabolism in human sebocytes occurs in interaction with PPAR ligands" *J Invest Dermatol* 124 (4): A 109
17. *Makrantonaki E*, Adjaye J, Herwig R, Brink TC, Groth D, Hultschig C, Lehrach H, Zouboulis CC (2005) "Hormone-induced signaling and metabolic pathways in an *in vitro* model of endogenous aging" *Tagung Deutsch-Griechische Forschung 2005*, Berlin
18. *Makrantonaki E*, Adjaye J, Herwig R, Brink TC, Groth D, Hultschig C, Lehrach H, Zouboulis CC (2005) "Aging of human sebocytes *in vitro* induced by exposure to a defined hormone environment" *William Cunliffe Scientific Awards S46.7, EADV 14th Congress London*
19. *Makrantonaki E*, Adjaye J, Herwig R, Brink TC, Fimmel S, Lehrach H, Zouboulis CC (2005) "Genetic etiology of longevity - *In vitro* models of endogenous human skin aging" *NGFN National Genome Research Network Meeting Bonn A 3-22A*.

## ORAL PRESENTATIONS

1. Zouboulis CC, Chen W, Alestas Th, *Makrantonaki E*, Seltmann H, Müller-Decker K (2004) "Sexual hormones utilize complex mechanisms to modulate sebocyte differentiation" 3. Treffen der Arbeitsgruppe "Dermato-Endokrinologie" der ADF, Dresden, Germany
2. *Makrantonaki E*, Adjaye J, Herwig R, Fimmel S, Seltmann H, Orfanos CE, Lehrach H, Zouboulis CC (2004) "Enhanced inflammatory signaling, mitotic misregulation and alterations in intracellular transport and metabolism are involved in endogenous human skin aging" *Human Genome meeting (HUGO)-2004 workshop 4, 29/101, Berlin, Germany*
3. *Makrantonaki E* (2004) "Molecular biology of human skin aging" 30<sup>th</sup> Annual Panhellenic Medical Congress, Athens, Greece

4. *Makrantonaki E, Zouboulis CC* (2004) "Skin models of aging" 1st Meeting of the NGFN- 2 Explorative Project 0313359 "The Genetic etiology of human longevity", Berlin, Germany
5. *Makrantonaki E, Zouboulis ChC* (2005) "The effect of androgens on the lipid metabolism in human sebocytes occurs in interaction with PPAR ligands" 4. Treffen der Arbeitsgruppe "Dermato-Endokrinologie" der ADF, Innsbruck, Austria
6. *Makrantonaki E* (2005) "Wachstumshormon und Haut" 6stes Novo Nordisk Gerontoendokrinologie-Workshop, Salzburg, Austria
7. *Makrantonaki E* (2005) "Aging of human sebocytes *in vitro* induced by exposure to a defined hormone environment" William Cunliffe Scientific Awards S46.7, EADV 14th Congress London, UK