

Immunogenetics of Aging

Co-chairs:

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The aim of the component “Immunogenetics of Aging” is to test whether HLA, cytokines and other immune response genes (KIR and MBL2) are involved in successful aging and could contribute to better understanding the immune dysfunction in old age.

Immunogenetics of Aging -14th IHIWSH

Samples analyzed

- Elderly (age 75 – 99) -117

Young controls (age 25-35) – 393

-12 families with longevity members -17 unrelated elderly (65-90); 23 family members (18-57)

Genes Analyzed

HLA-A,-B,-DRB1,-DQB1; cytokine genes - TNF-A (-308), TGF-B1 (cdns 10, 25), IL-10 (-1082, -819 and -592), IL-6 (-174) and IFN-g (-874)

Participants

Claudio Franceschi - Italian population; Fatma Qguz - Turkish population

Katarzyna Bogunia-Kubik - Polish population

Ileana Constantinescu - Romanian population

Bulgarian population

Publication

E. Naumova, G. Pawelec, M. Ivanova, I. Constantinescu, K. Bogunia-Kubik, A. Lange, F. Qguz & M. Carin. 14th International HLA and Immunogenetics Workshop: Report on the immunogenetics of aging. Tissue Antigens. 2007, 304-310.

Immunogenetics of Aging -15th IHIWSH

Samples analyzed

- Elderly (age 75 – 99) -839 individuals
- Young controls (age 25-35) – 483 individuals

Genes Analyzed

HLA-A,-B,-DRB1,-DQB1; cytokine genes - TNF-A, TGF-B1, IL-10, IL-6 and IFN-g, **IL-12B**, **MBL2** and **KIR**

Participants

*Claudio Franceschi, **C.Caruso** - Italians; Fatma Qguz - Turkish*

Katarzyna Bogunia-Kubik - Polish; Ileana Constantinescu - Romanian

***D. Middleton** - Irish*

Bulgarian population

Publication

E. Naumova, M. Ivanova, G. Pawelec, I. Constantinescu, K. Bogunia-Kubik, A. Lange, F. Qguz, M. Carin, C. Franceschi, C. Caruso & D. Middleton. ‘Immunogenetics of Aging’: report on the activities of the 15th International HLA and Immunogenetics Working Group and 15th International HLA and Immunogenetics Workshop . Tissue Antigens. 2010, 187-192

Work within 16th IHIWS

How to participate

- Send data on:
 - HLA (allele level)
 - cytokine gene polymorphism
 - KIR gene polymorphism

For elderly (age >65) and young controls (age 18-35)

Send DNA for analysis of innate immunity genes MBL2

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