

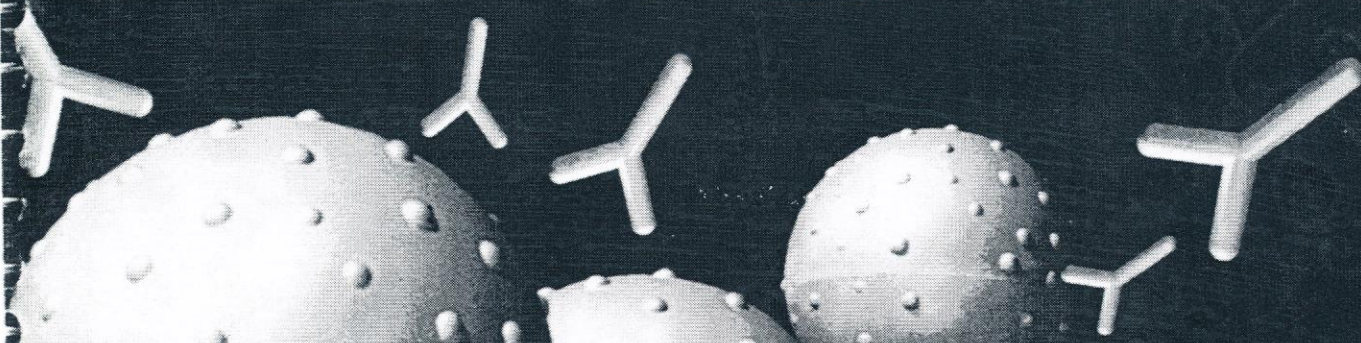
# 8th International Congress on Autoimmunity

Granada, Spain | May 9-13, 2012



## Final Program

Novel Diagnostic Tools & New Therapeutic  
Avenues in Autoimmune Diseases



**Friday, May 11, 2012**

10:00-17:00

Poster Area

**POSTER SESSION 2: MECHANISM AND ETIOLOGY OF AI DISEASES (Contd.)**

Poster No

**220 THE CONSTANT REGION CONTRIBUTES TO THE ANTIGENIC SPECIFICITY AND POTENTIAL PATHOGENICITY OF ANTI-DNA ANTIBODIES**

Y. Xia, R. Pawar, A. Nakouzi, M. Monestier, M. Fan, A. Casadevall, C. Putterman, *USA*

**POSTER SESSION 2: NEW BIOLOGICAL DRUGS**

Poster No

**221 EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS AMELIORATION AFTER DIPDHAQ TREATMENT DUE TO LOWER LEVELS OF IFN- $\gamma$ , IL-12P40, IL-17A AND IL-6 IN THE BRAIN**

C.C.S. Alves, S.B.R. Castro, C.F. Costa, A.T. Dias, C.J. Alves, H.C. Teixeira, M.V. Almeida, A.P. Ferreira, *Brazil*

**222 PSORIASIS THERAPY: INFLIXIMAB TREATMENT AND APPEARANCE OF AUTOANTIBODIES AGAINST NUCLEAR ANTIGENS**

C. Bonaguri, V. Lora, P. Gisondi, A. Russo, F. Sandei, L. Battistelli, J.R. Ojeda Ramos, A. Melegari, G. Girolomoni, G. Lippi, *Italy*

**223 IMMUNOMODULATORY EFFECTS AND IMPROVED PROGNOSIS OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS AFTER O-TETRADECANOYL-GENISTEIN TREATMENT**

S.B.R. Castro, C.O. Rezende Junior, C.C.S. Alves, A.T. Dias, L.L. Alves, L. Mazzoccoli, F.P. Mesquita, N.S.V. Figueiredo, M.A. Juliano, M.C.M.N. Castañon, J. Gameiro, M.V. Almeida, H.C. Teixeira, A.P. Ferreira, *Brazil*

**224 DOWN-REGULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR BY A BETA-BLOCKER**

F. Hajighasemi, *Iran*

**225 EFFECTS OF INFLIXIMAB THERAPY VERSUS LEFLUNOMIDE THERAPY IN SERUM LIPID PROFILE RHEUMATOID ARTHRITIS IN PATIENTS**

G. Papadopoulos, K. Tsepanis, E. Koutsika, S. Mavidou, X. Mpotjiori, A. Vakaloudi, A. Koteli, *Greece*

**226 LUPUS-LIKE REACTION IN A PATIENT WITH ANKYLOSING SPONDYLITIS: IS THAT DUE TO INFLIXIMAB?**

T. Santiago, *Portugal*

## DOWN-REGULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR BY A BETA-BLOCKER

F. Hajighasemi

*Department of Immunology, Faculty of Medicine, Shahed University, Tehran, Iran*

**Objective:** Beta-Blockers have been largely used for treatment of several cardiovascular complications such as arterial hypertension and arrhythmias. Ad anti-inflammatory effects of propranolol (a non selective beta-adrenergic blocker) have been reported. Angiogenesis, the process of neovascularization, is an important procedure in inflammation and autoimmunity. Vascular endothelial growth factor (VEGF) is a cytokine which has a key role in angiogenesis and inflammation. In this study the effect of propranolol on VEGF production in Human peripheral blood mononuclear cells (hPBMCs) have been investigated in vitro.

**Methods:** HPBMCs were used in this study. The cells were cultured in complete RPMI medium and then incubated with different concentrations of propranolol ( $4 \times 10^{-7}$  -  $4 \times 10^{-4}$  M) for 24 hours. The level of VEGF secreted in the cell culture supernatants was measured with the enzyme-linked immunosorbent assay (ELISA) kits (R&D systems).

**Results:** Propranolol significantly and dose-dependently decreased VEGF production in hPBMCs, compared to untreated control cells.

**Discussion:** According to the results of this study, propranolol considerably decreased the VEGF expression in hPBMCs. Propranolol with inhibitory effect on VEGF production, might be a potent inhibitor of neovascularization and so angiogenesis. Thus propranolol together with its chronic long-term usage in cardiac problems may have possible implication in autoimmunity suppression.