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Ab-proteases as unique biomarkers and biopredictors to monitor chronic inflammation of autoimmune origin at subclinical and clinical stages

A sagainst myelin basic protein (MBP), cardiac myosine (CM) and thyroid Ags (TPO, T3 and T4) endowing with proteolytic activity (Ab-proteases) are of great value to monitor chronic auto-immune inflammation and to thus illustrate the evolution of either of the above-mentioned auto-immune disorders. Ab-proteases from MS, AIM and AIT patients exhibited specific proteolytic cleavage of MBP, CM and thyroid Ags (T3, T3, TPO), respectively. The activity of the Ab-proteases markedly differs between: (i) the patients and healthy controls, and (ii) different clinical courses, to predict transformation prior to changes of the clinical course. The activity of Ab-proteases was first registered at the subclinical stages 1-5 years (regardless to type of the disor-der) prior to the clinical illness. Some (12-24%) of the direct disease-related relatives are sero-positive for low-active Ab-proteases from which seropositive relatives established were being monitored for 2-3 years whilst demonstrating a stable growth of the Ab-associated proteolytic activity. We saw also low-active Ab-proteases in persons at MS-, AIM- and AIT-related risks (at the subclinical stages), and primary clinical, ultrasonic and MRT manifestations observed were coincided with the activity to have its mid-level reached. The activity of Ab-proteases would confirm a high subclinical and predictive value of the translational tools as applicable for personalized monitoring protocols. Ab-proteases directly affecting the physiologic remodeling of tissues with multilevel architecture. Further studies on targeted Ab-mediated proteolysis may provide a supplementary tool for predicting exacerbations and thus the disability of the MS, AIM and AIT patients.

Biography

S Suchkov graduated from Astrakhan State Medical University in 1980 and was awarded with MD. In 1985, he completed PhD from I M Sechenov Moscow Medical Academy and Institute of Medical Enzymology. In 2001, he completed his Doctor Degree at the National Institute of Immunology, Russia. From 1989 to 1995, he was Head of the Lab of Clinical Immunology, Helmholtz Eye Research Institute in Moscow. From 1995 through 2004, he is a Chair of the Dept. for Clinical Immunology, Moscow Clinical Research Institute (MONIKI). In 1993-1996, he was a Secretary-in-Chief of the Editorial Board, *Biomedical Science*, an international journal published jointly by the USSR Academy of Sciences and the Royal Society of Chemistry, UK. At present, he is Professor and Chair, Department for Personalized and Translational Medicine, I M Sechenov First Moscow State Medical University and Department of Clinical Immunology, A I Evdokimov Moscow State Medical and Dental University. He is a member of the Editorial Boards of *Open Journal of Immunology, EPMAJ, American J of Cardiovascular Research and Personalized Medicine Universe*.

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