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New autoantibodies in spondyloarthritis

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Spondyloarthritis (SpA) is a common inflammatory disorder. because the lack of specific laboratory biomarker. The diagnosis of SpA is relying on clinical examination and x-ray of the spine which show characteristic spinal changes and sacroiliitis. However, abnormalities in x-ray often occur several years after the onset of the disease. Autoantibodies are widely used as biomarkers in many types of autoimmune diseases and other diseases. We used proteomic approach to screen new autoantigens in SpA patients. We detected one new autoantigen

in SpA sera named as SPA1. Using ELISA technology, IgG autoantibody to SPA1 was found in 24.4% of the SpA patients. In the controls, the prevalence of the new autoantibody was 6.8% in health controls, 16.7% in systemic lupus erythematosus, 0% in psoriatic arthritis and gout. The titer of anti-SPA1 was close associated with disease activity of SpA. Antibody against SPA1 could provide an important additional tool for diagnosis of SpA.

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