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Name of journal: *World J Immunology*

ESPS Manuscript NO: 17202

Columns: Editorial

## Epigenomic revolution in autoimmune diseases

C Le Dantec, Wesley H Brooks, Yves Renaudineau

10  
Abstract

Autoimmunity is believed to develop when genetically predisposed individuals undergo epigenetic modifications in response to environmental factors. Recent advances in the understanding of epigenetic mechanisms suggest, in autoimmune diseases, a multi-step process involving environmental factors (e.g. drugs, stress) and endogenous factors (e.g. cytokines, gender), both leading to the deregulation of the epigenetic machinery (DNA methylation, histone modifications, miRNA), that in turn specifically affects the immune system and/or the target organ(s). Such effect is



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### Potential of epigenetic therapies in non-cancerous conditions

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