

Professor Adrian Liston Head of Autoimmune Genetics Section VIB & University of Leuven

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February 28, 2013

Dr Jamie Wilson Chief Editor **Nature Immunology**

Dear Dr Wilson,

Please find the accompanying manuscript "Mcl-1 is critical for the survival and niche-filling capacity of Foxp3⁺ regulatory T cells", which we would like to be considered for publication in *Nature Immunology*.

Altering regulatory T cell numbers has been touted as a potential therapeutic strategy for diseases from autoimmunity and allergy to cancer and persistent infection, however direct manipulation via cell therapy or depletion has generally proven ineffective. In this study we have directly assessed the in vivo homeostatic properties of regulatory T cells under conditions of excess or deficient numbers, and characterized the negative feedback loops which return the numbers of this critical population back to the set-level. Furthermore, we have taken a systematic approach in analyzing the molecular mediators of regulatory T cell expansion and contraction and identified Mcl1 as a critical regulator of homeostasis level, with expansionary and contractive modulation mediated by IL-2 and Bim, respectively.

Together these results not only explain the failure of simple "cell therapy" approaches, but they also provide an attractive molecular target for intervention strategies to modulate regulatory T cell number. With a substantial advance in our understanding of regulatory T cell homeostasis and the molecular control over apoptosis, as well as clear clinical implications, we believe that the readers of *Nature Immunology* will be highly interested in this study.

Yours Sincerely,

Adrian Liston Autoimmune Genetics Section VIB & University of Leuven

Daniel Gray The Walter and Eliza Hall Institute University of Melbourne

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