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B cells with regulatory properties in transplantation tolerance

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Abstract

Induction of tolerance remains a major goal in transplantation. Indeed, despite potent immunosuppression, chronic rejection is still a real problem in transplantation. The humoral response is an important mediator of chronic rejection, and numerous strategies have been developed to target either B cells or plasma cells. However, the use of anti-CD20 therapy has highlighted the beneficial role of subpopulation of B cells termed regulatory B cells. These cells have been

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Regulatory T cells in transplantation tolerance

KJ Wood, S Sakaguchi - Nature Reviews Immunology, 2003 - nature.com

... a single MHC class I alloantigen, H2K **b**, can prevent rejection of a graft that expresses not only H2K **b**, but also ... naive human peripheral-blood lymphocytes, culture in the presence of TGF- leads to the generation of CD4 + CD25 + **cells** that regulate T-cell responses in ...

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S Sakaguchi, N Sakaguchi, J Shimizu... - Immunological ..., 2001 - Wiley Online Library

... B. When these proliferating CD25 π CD4 π T **cells** are harvested, washed and restimulated with anti-CD3 antibody along with fresh APCs, but without exogenous IL-2 ... Thymic production of CD25 π CD4 π **regulatory T cells** as a functionally distinct T-cell subpopulation: another ...

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S Gregori, M Casorati, S Amuchastegui... - The Journal of ..., 2001 - Am Assoc Immunol

... responsible for adoptive transfer of **tolerance**, CD4 + and CD8 + T **cells** were purified from spleens of mice tolerized by T **cell** transfer and ... T **cells** isolated from naive BALB/c mice (A) or from mice rendered **tolerant** by transfer of CD4 + T **cells** 190 days earlier (B). Two days ...

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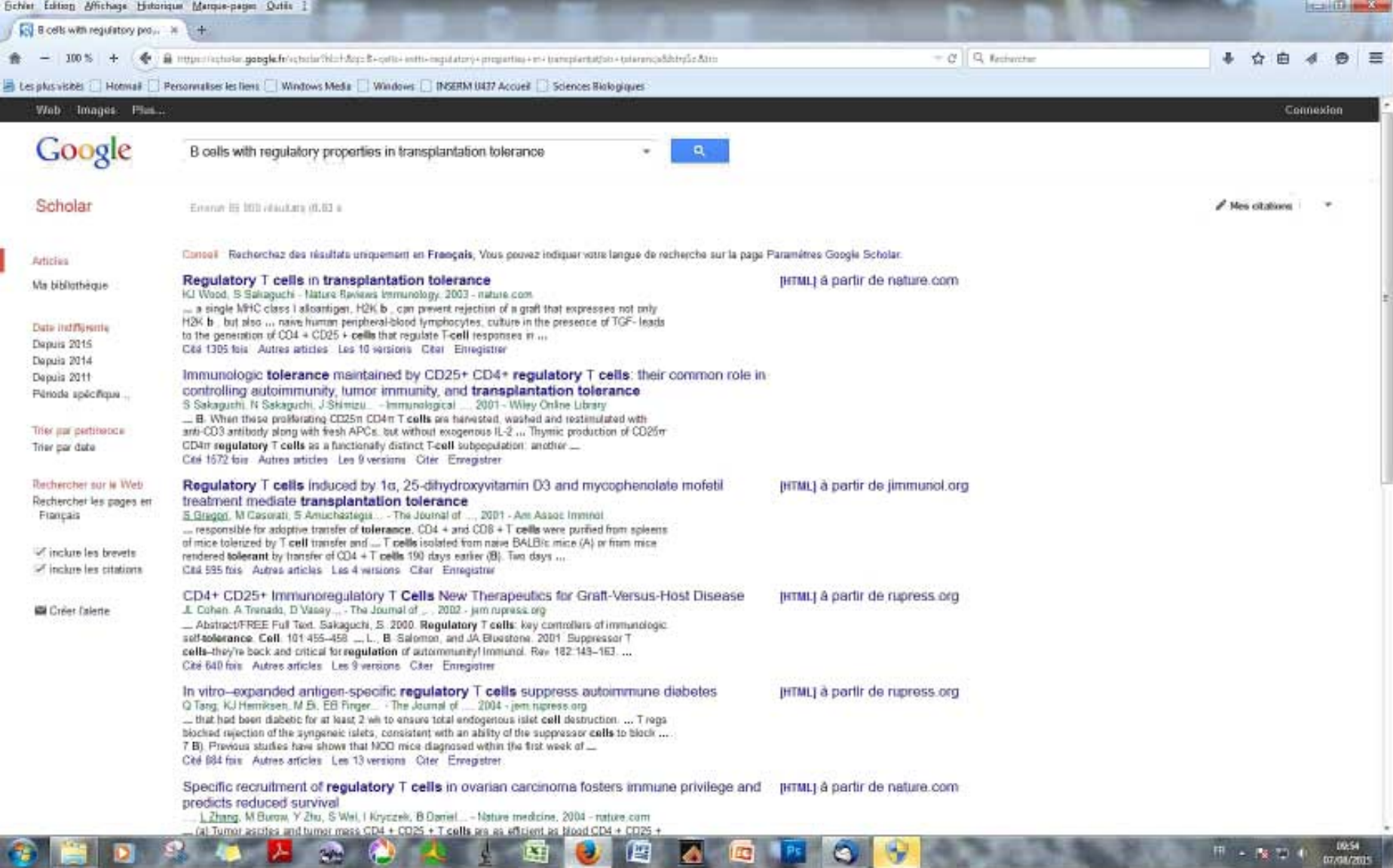
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