

Reply to "Biologics in organ transplantation"

Bernard Vanhove, Agnès Azimzadeh

▶ To cite this version:

Bernard Vanhove, Agnès Azimzadeh. Reply to "Biologics in organ transplantation". Transplant International, 2013, 26 (4), pp.e25-e25. 10.1111/tri.12009. inserm-02165622

HAL Id: inserm-02165622 https://inserm.hal.science/inserm-02165622

Submitted on 26 Jun 2019

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



LETTER TO THE EDITORS

Reply to "Biologics in organ transplantation"

doi:10.1111/tri.12009

Dear Sirs,

Having read with interest the review from Page et al. [1], we felt that two points needed further discussion. First, we have been surprised to read that almost none of the biologics that are the main focus of that review are in clinical development. Actually, the only biologic targeting the CD40/CD40L costimulation pathway that is currently in a clinical trial in kidney transplantation (ASKP1240; clinical trial #NCT01279538) was relegated to one among a list of anti-CD40 MAbs in the last sentence of the section "Biologics in clinical development: costimulation blockade". ASKP1240 also showed efficacy to induce long-term hepatic allograft acceptance in nonhuman primates [2] and we feel that it deserved a more thorough review. Second, although the focus was on biologics at the preclinical stage, no mention was made of the preclinical work performed by our groups at the University of Nantes and the University of Maryland on selective CD28 antagonist Mabs in murine and primate models. Owing to several recent publications [3-7], including in Transplant International, plus the current development of FR104, a CD28 antagonist for kidney transplantation [7], it seems to us that this class of MAbs should be added to the list of preclinical biologics used for organ transplantation that are of potential interest for readers of Transplant International.

Funding

No funding applicable.

Conflict of Interest

CBV is shareholder of a biotech company developing costimulation antagonists.

Bernard Vanhove¹ and Agnès Azimzadeh²
1 Institut National de la Santé Et de la Recherche
Médicale Unité Mixte de Recherche 1064, Institut de
Transplantation Urologie Néphrologie (ITUN),
Université de Nantes, Nantes, France
2 Department of Surgery, University of Maryland School of
Medicine, Baltimore, MY, USA,
e-mail: Bernard.Vanhove@univ-nantes.fr

References

- 1. Page EK, Dar WA, Knechtle SJ. Biologics in organ transplantation. *Transpl Int* 2012; **25**: 707.
- Oura T, Yamashita K, Suzuki T, et al. Long-term hepatic allograft acceptance based on CD40 blockade by ASKP1240 in nonhuman primates. Am J Transplant 2012; 12: 1740.
- 3. Poirier N, Azimzadeh AM, Zhang T, *et al.* Inducing CTLA-4-dependent immune regulation by selective CD28 blockade promotes regulatory T cells in organ transplantation. *Sci Transl Med* 2010; **2**: 17ra0.
- 4. Poirier N, Blancho G, Vanhove B. A more selective costimulatory blockade of the CD28-B7 pathway. *Transpl Int* 2011; 24: 2.
- 5. Zhang T, Fresnay S, Welty E, *et al.* Selective CD28 blockade attenuates acute and chronic rejection of murine cardiac allografts in a CTLA-4-dependent manner. *Am J Transplant* 2011; **11**: 1599.
- 6. Poirier N, Blancho G, Vanhove B. CD28-specific immuno-modulating antibodies: what can be learned from experimental models? *Am J Transplant* 2012; **12**: 1682.
- 7. Poirier N, Mary C, Dilek N, *et al.* Preclinical efficacy and immunological safety of FR104, an antagonist Anti-CD28 monovalent Fab' antibody. *Am J Transplant* 2012; **12**(10): 2630.