

Title (en)

GENE EXPRESSION PROFILES ASSOCIATED WITH SUB-CLINICAL KIDNEY TRANSPLANT REJECTION

Title (de)

MIT SUBKLINISCHER NIERENTRANSPLANTATABSTOSSUNG ASSOZIIERTE GENEXPRESSIONSPROFILE

Title (fr)

PROFILS D'EXPRESSION GÉNIQUE ASSOCIÉS AU REJET DE GREFFE DU REIN SUBCLINIQUE

Publication

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Application

**EP 15795439 A 20150522**

Priority

- US 201462001902 P 20140522
- US 201462001909 P 20140522
- US 201462001889 P 20140522
- US 201462029038 P 20140725
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- US 2015032202 W 20150522

Abstract (en)

[origin: WO2015179777A2] By a genome-wide gene analysis of expression profiles of over 50,000 known or putative gene sequences in peripheral blood, the present inventors have identified a consensus set of gene expression-based molecular biomarkers associated with subclinical acute rejection (subAR). These genes sets are useful for diagnosis, prognosis, monitoring of subAR.

IPC 8 full level

**C12Q 1/68** (2018.01); **G01N 33/53** (2006.01); **G01N 33/68** (2006.01)

CPC (source: EP GB)

**C12Q 1/6881** (2013.01 - EP GB); **C12Q 1/6883** (2013.01 - EP GB); **C12Q 2600/136** (2013.01 - EP GB); **C12Q 2600/158** (2013.01 - EP GB); **G01N 2800/245** (2013.01 - EP GB)

Citation (search report)

- [A] WO 2009045104 A1 20090409 - AZ UNIV AMSTERDAM [NL], et al
- [XI] M L LIPMAN ET AL: "Immune-activation gene expression in clinically stable renal allograft biopsies: molecular evidence for subclinical rejection.", TRANSPLANTATION, vol. 66, no. 12, 27 December 1998 (1998-12-27), pages 1673 - 1681, XP055432485
- [A] FRANCISCO V VERONESE ET AL: "Prevalence and immunohistochemical findings of subclinical kidney allograft rejection and its association with graft outcome", CLINICAL TRANSPLANTATION., vol. 18, no. 4, August 2004 (2004-08-01), DK, pages 357 - 364, XP055432637, ISSN: 0902-0063, DOI: 10.1111/j.1399-0012.2004.00170.x
- [A] ESTHER CRISTINA AQUINO DIAS ET AL: "Molecular markers in subclinical acute rejection of renal transplants", CLINICAL TRANSPLANTATION., vol. 18, no. 3, June 2004 (2004-06-01), DK, pages 281 - 287, XP055432395, ISSN: 0902-0063, DOI: 10.1111/j.1399-0012.2004.00161.x
- [A] W PENG ET AL: "Non-invasive Detection of Acute Renal Allograft Rejection by Measurement of Vascular Endothelial Growth Factor in Urine", THE JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, vol. 35, 2007, pages 442 - 449, XP055432356
- [A] PENG W ET AL: "Prediction of subclinical renal allograft rejection by vascular endothelial growth factor in serum and urine", JOURNAL OF NEPHROLOGY, SPRINGER, WICHTIG, IT, vol. 21, no. 4, July 2008 (2008-07-01), pages 535 - 542, XP008152271, ISSN: 1121-8428
- [A] NOORA ALAKULPPI ET AL: "Feasibility of Diagnosing Subclinical Renal Allograft Rejection in Children By Whole Blood Gene Expression Analysis .", TRANSPLANTATION, vol. 86, no. 9, November 2008 (2008-11-01), GB, pages 1222 - 1228, XP055433160, ISSN: 0041-1337, DOI: 10.1097/TP.0b013e3181883fb0
- [A] DIRK R. J. KUYPERS: "Immunosuppressive Drug Therapy and Subclinical Acute Renal Allograft Rejection: Impact and Effect .", TRANSPLANTATION, vol. 85, no. Supplement, April 2008 (2008-04-01), GB, pages S25 - S30, XP055433194, ISSN: 0041-1337, DOI: 10.1097/TP.0b013e318169c48d
- [IP] SILKE ROEDDER ET AL: "The kSORT Assay to Detect Renal Transplant Patients at High Risk for Acute Rejection: Results of the Multicenter AART Study", PLOS MEDICINE, vol. 11, no. 11, 11 November 2014 (2014-11-11), pages e1001759, XP055433213, DOI: 10.1371/journal.pmed.1001759
- [T] S. M. KURIAN ET AL: "Orthogonal Comparison of Molecular Signatures of Kidney Transplants With Subclinical and Clinical Acute Rejection: Equivalent Performance Is Agnostic to Both Technology and Platform", AMERICAN JOURNAL OF TRANSPLANTATION, vol. 17, no. 8, August 2017 (2017-08-01), DK, pages 2103 - 2116, XP055432270, ISSN: 1600-6135, DOI: 10.1111/ajt.14224
- See references of WO 2015179777A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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