

Title (en)

GENE EDITING FOR AUTOIMMUNE DISORDERS

Title (de)

GENEDITIERUNG FÜR AUTOIMMUNERKRANKUNGEN

Title (fr)

ÉDITION DE GÈNES POUR TROUBLES AUTO-IMMUNS

Publication

**EP 3820487 A4 20220309 (EN)**

Application

**EP 19803321 A 20190514**

Priority

- US 201862762708 P 20180514
- US 2019032214 W 20190514

Abstract (en)

[origin: WO2019222212A1] Provided are methods treating a subject having an autoimmune disorder comprising, for instance, decreasing, in one or more cells in the subject, the amount of one or more genetic variants associated with susceptibility to the autoimmune disorder; and/or increasing, in one or more cells in the subject, the amount of one or more genetic variants protective against the autoimmune disorder. Also provided are methods for decreasing, in the subject, the number of cells that have one or more genetic variants associated with susceptibility to the autoimmune disorder; and/or increasing, in the subject, the number of cells that have one or more genetic variants protective against the autoimmune disorder. Also provided are compositions and isolated cells for use in accordance with the methods.

IPC 8 full level

**A61K 35/17** (2015.01); **A61K 35/28** (2015.01); **C07K 16/28** (2006.01); **C12N 5/0781** (2010.01)

CPC (source: EP)

**A61K 35/28** (2013.01)

Citation (search report)

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- [XA] WO 2018064208 A1 20180405 - ENGREITZ JESSE [US], et al
- [A] HUANG HAILIANG ET AL: "Fine-mapping inflammatory bowel disease loci to single-variant resolution", NATURE, vol. 547, no. 7662, 1 July 2017 (2017-07-01), London, pages 173 - 178, XP055882978, ISSN: 0028-0836, Retrieved from the Internet <URL:https://www.nature.com/articles/nature22969.pdf> DOI: 10.1038/nature22969
- [A] SIVANESAN DURGA ET AL: "IL23R (Interleukin 23 Receptor) Variants Protective against Inflammatory Bowel Diseases (IBD) Display Loss of Function due to Impaired Protein Stability and Intracellular Trafficking", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 291, no. 16, 1 April 2016 (2016-04-01), US, pages 8673 - 8685, XP055883125, ISSN: 0021-9258, DOI: 10.1074/jbc.M116.715870
- [A] GLOCKER ERIK-OLIVER ET AL: "IL-10 and IL-10 receptor defects in humans : IL-10/IL-10R deficiency", ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, vol. 1246, no. 1, 1 December 2011 (2011-12-01), US, pages 102 - 107, XP055883124, ISSN: 0077-8923, DOI: 10.1111/j.1749-6632.2011.06339.x
- See references of WO 2019222212A1

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

DOCDB simple family (publication)

**WO 2019222212 A1 20191121**; CN 112384230 A 20210219; EP 3820487 A1 20210519; EP 3820487 A4 20220309; JP 2021523943 A 20210909

DOCDB simple family (application)

**US 2019032214 W 20190514**; CN 201980045883 A 20190514; EP 19803321 A 20190514; JP 2021514296 A 20190514