Title (en)
METHODS FOR CHARACTERIZING CELLS USING GENE EXPRESSION AND CHROMATIN ACCESSIBILITY

Title (de)
VERFAHREN ZUR CHARAKTERISIERUNG VON ZELLEN UNTER VERWENDUNG VON GENEXPRESSION UND CHROMATINZUGÄNGLICHKEIT

Title (fr)
PROCÉDÉS DE CARACTÉRISATION DE CELLULES À L'AIDE DE L'EXPRESSION GÉNIQUE ET DE L'ACCESSIBILITÉ DE LA CHROMATINE

Publication
EP 4104177 A1 20221221 (EN)

Application
EP 21711092 A 20210212

Priority
• US 202062976270 P 20200213
• US 202062979986 P 20200221
• US 202063114378 P 20201116
• US 202063125331 P 20201214
• US 2021018020 W 20210212

Abstract (en)
[origin: WO2021163611A1] While robust high-throughput systems for assaying either transcription or chromatin accessibility (e.g., using ATAC-seq) at single cell resolution are now widespread, researchers and clinicians typically must split cell samples and analyze each modality separately and computationally infer linkages between the gene expression and chromatin accessibility data. The present disclosure provides a high-throughput solution that simultaneously measures gene expression and chromatin accessibility from single cells or nuclei and methods of using this data to directly infer linkages between gene expression and chromatin accessibility data to chart regulatory pathways and functional characterization of complex disease pathology.

IPC 8 full level
G16B 20/30 (2019.01); **C12Q 1/68** (2018.01)

CPC (source: EP)
C12Q 1/6806 (2013.01); **G16B 20/30** (2019.01)

Citation (search report)
See references of WO 2021163611A1

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2021163611 A1 20210819; AU 2021221158 A1 20220922; CN 115398547 A 20221125; EP 4104177 A1 20221221

DOCDB simple family (application)
US 2021018020 W 20210212; AU 2021221158 A 20210212; CN 202180027508 A 20210212; EP 21711092 A 20210212