

Title (en)  
TUMOR DETECTION AND MONITORING

Title (de)  
TUMORDETEKTION UND -ÜBERWACHUNG

Title (fr)  
DéTECTION ET SURVEILLANCE DE TUMEUR

Publication  
**EP 3655546 A4 20210407 (EN)**

Application  
**EP 18918562 A 20181012**

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• US 2018055648 W 20181012

Abstract (en)  
[origin: WO2019221769A1] The invention provides methods for detecting epigenetic changes, including but not limited to methylation changes, directly from biological samples, without the need for certain complex sample preparation steps. The invention provides Cas protein/guide RNA complexes that may be introduced directly into the sample, where the complexes target and bind the target region. The target region is thus enriched and isolated in a sequence- specific manner. The target region may then be subject to any suitable signal amplification assay to detect the epigenetic change in the target region. Detection of DNA hypermethylation in the target region is indicative of disease, such as cancer.

IPC 8 full level  
**C12Q 1/68** (2018.01); **C12Q 1/70** (2006.01)

CPC (source: EP)  
**C12N 9/22** (2013.01); **C12Q 1/6804** (2013.01); **C12Q 1/6827** (2013.01)

Citation (search report)  
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• See references of WO 2019221773A1

Designated contracting state (EPC)  
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**WO 2019221769 A1 20191121**; CA 3069939 A1 20191121; CA 3100492 A1 20191121; EP 3655546 A1 20200527; EP 3655546 A4 20210407; EP 3794139 A1 20210324; EP 3794139 A4 20220601; WO 2019221773 A1 20191121

DOCDB simple family (application)  
**US 2018054188 W 20181003**; CA 3069939 A 20181012; CA 3100492 A 20181003; EP 18918562 A 20181012; EP 18919343 A 20181003; US 2018055648 W 20181012