



(11)

**EP 3 430 406 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:  
**Corrected version no 1 (W1 B1)**  
**Corrections, see**  
**Bibliography INID code(s) 73**

(51) Int Cl.:  
**G01N 33/574 (2006.01)**

(86) International application number:  
**PCT/US2017/022853**

(48) Corrigendum issued on:  
**28.04.2021 Bulletin 2021/17**

(87) International publication number:  
**WO 2017/161215 (21.09.2017 Gazette 2017/38)**

(45) Date of publication and mention  
of the grant of the patent:  
**02.12.2020 Bulletin 2020/49**

(21) Application number: **17767588.1**

(22) Date of filing: **17.03.2017**

(54) **METHOD FOR CANCER DIAGNOSIS AND PROGNOSIS**

VERFAHREN ZUR KREBSDIAGNOSE UND -PROGNOSE

MÉTHODE DE DIAGNOSTIC ET DE PRONOSTIC D'UN CANCER

(84) Designated Contracting States:  
**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**

- **SEE, Lai-Chu**  
**Taoyuan City 333 (TW)**
- **CHANG, Kai-Ping**  
**Taipei City 112 (TW)**

(30) Priority: **17.03.2016 US 201662309766 P**

(74) Representative: **Lang, Christian**  
**LangPatent Anwaltskanzlei IP Law Firm**  
**Ingolstädter Straße 5**  
**80807 München (DE)**

(43) Date of publication of application:  
**23.01.2019 Bulletin 2019/04**

(73) Proprietors:

- **Chang Gung University**  
**Taoyuan City 333 (TW)**
- **Linkou Chang Gung Memorial Hospital**  
**Taoyuan City 333 (TW)**

(56) References cited:  
**US-A1- 2012 231 468 US-A1- 2014 235 487**

(72) Inventors:

- **CHANG, Yu-Sun**  
**San Francisco, CA 94109 (US)**
- **YU, Jau-Song**  
**Taoyuan City 320 (TW)**
- **CHEN, Yi-Ting**  
**Taoyuan City 325 (TW)**
- **CHIANG, Wei-Fan**  
**Tainan City 701 (TW)**
- **HSIAO, Yung-Chin**  
**New Taipei City 238 (TW)**

- **PATRICIA P REIS ET AL: "A gene signature in histologically normal surgical margins is predictive of oral carcinoma recurrence", BMC CANCER, BIOMED CENTRAL, LONDON, GB, vol. 11, no. 1, 11 October 2011 (2011-10-11), page 437, XP021110268, ISSN: 1471-2407, DOI: 10.1186/1471-2407-11-437**
- **KIM KI-YEOL ET AL: "Combined genomic expressions as a diagnostic factor for oral squamous cell carcinoma", GENOMICS, ACADEMIC PRESS, SAN DIEGO, US, vol. 103, no. 5, 8 December 2013 (2013-12-08), pages 317-322, XP029006184, ISSN: 0888-7543, DOI: 10.1016/J.YGENO.2013.11.007**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

**EP 3 430 406 B8**

- Eric Roman ET AL: "Analysis of protein expression profile of oral squamous cell carcinoma by MALDI-TOF", *Anticancer Research* 33(3), 31 March 2013 (2013-03-31), pages 837-845, XP055627694, Retrieved from the Internet: URL: <http://www.ncbi.nlm.nih.gov/pubmed/23482752> [retrieved on 2019-10-01]
- UTA J. E. THIEL ET AL: "Analysis of differentially expressed proteins in oral squamous cell carcinoma by MALDI-TOF MS : Proteome analysis of OSCC", *JOURNAL OF ORAL PATHOLOGY AND MEDICINE*, vol. 40, no. 5, 1 May 2011 (2011-05-01), pages 369-379, XP055627703, DK ISSN: 0904-2512, DOI: 10.1111/j.1600-0714.2010.00982.x
- CHIH-CHING WU ET AL: "Saliva proteome profiling reveals potential salivary biomarkers for detection of oral cavity squamous cell carcinoma : Identification of salivary biomarkers for oral cancer detection", *PROTEOMICS*, vol. 15, no. 19, 1 October 2015 (2015-10-01), pages 3394-3404, XP055627708, DE ISSN: 1615-9853, DOI: 10.1002/pmic.201500157
- Lang-Ming Chi ET AL: "Enhanced Interferon Signaling Pathway in Oral Cancer Revealed by Quantitative Proteome Analysis of Microdissected Specimens Using 16 O/ 18 O Labeling and Integrated Two-dimensional LC-ESI-MALDI Tandem MS\* - S", & *Cellular Proteomics*, 1 January 2009 (2009-01-01), pages 1453-1474, XP055627713, Retrieved from the Internet: URL: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2709179/pdf/zjw1453.pdf> [retrieved on 2019-10-01]
- MULLER ET AL: "Logistic regression and CART in the analysis of multimarker studies", *CLINICA CHIMICA ACTA*, ELSEVIER BV, AMSTERDAM, NL, vol. 394, no. 1-2, 1 August 2008 (2008-08-01), pages 1-6, XP022706069, ISSN: 0009-8981, DOI: 10.1016/J.CCA.2008.04.007 [retrieved on 2008-04-12]
- XIA ET AL.: 'Glucose-regulated protein 78 and heparanase expression in oral squamous cell carcinoma: correlations and prognostic significance' *WORLD J SURG ONCOL* vol. 12, no. 1, 25 April 2014, pages 1 - 8, XP021184881
- YU ET AL.: 'Saliva protein biomarkers to detect oral squamous cell carcinoma in a high-risk population in Taiwan' *PROC NAT ACAD SCI* vol. 113, no. 41, 23 September 2016, pages 11549 - 11554, XP055422749