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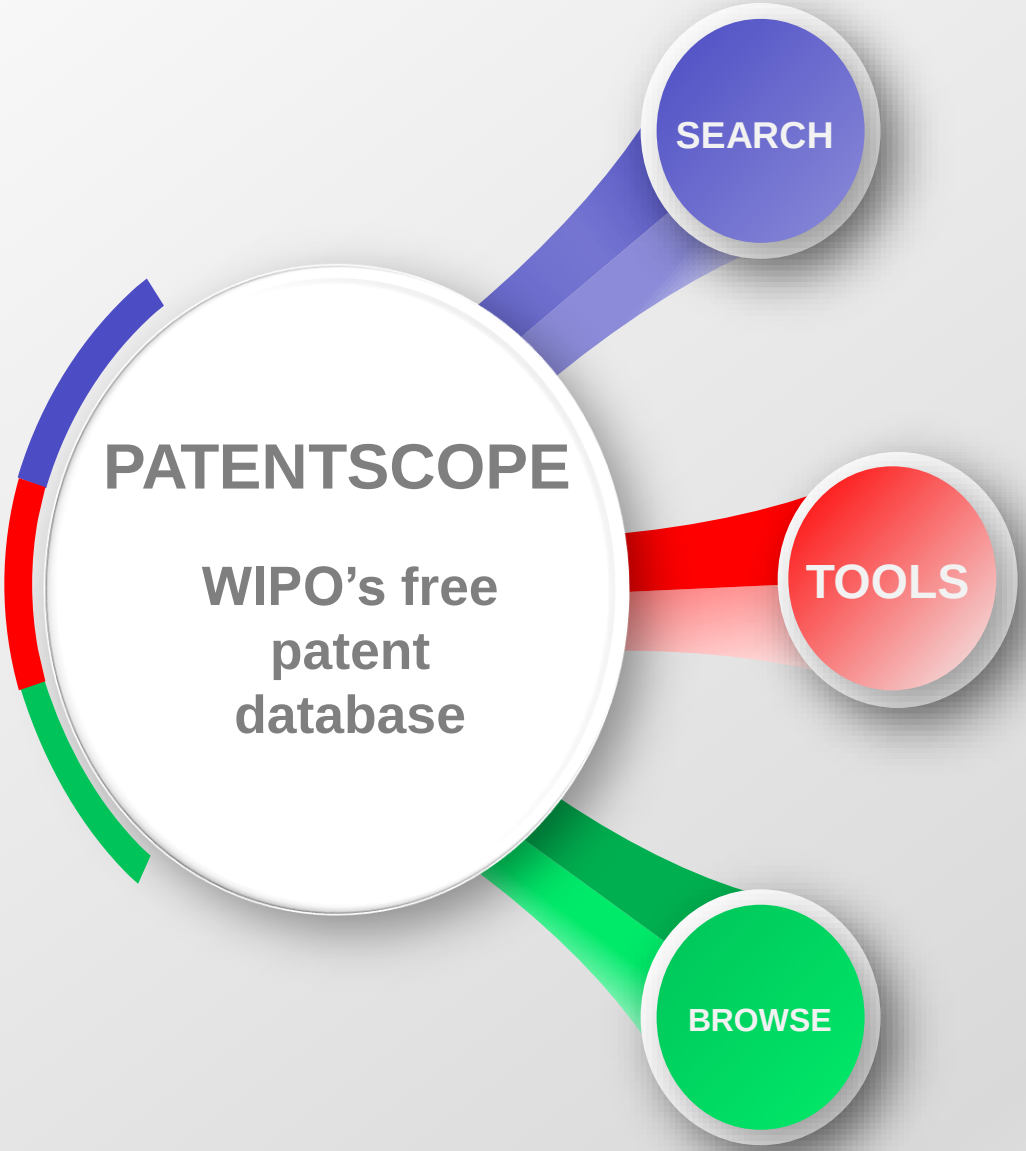
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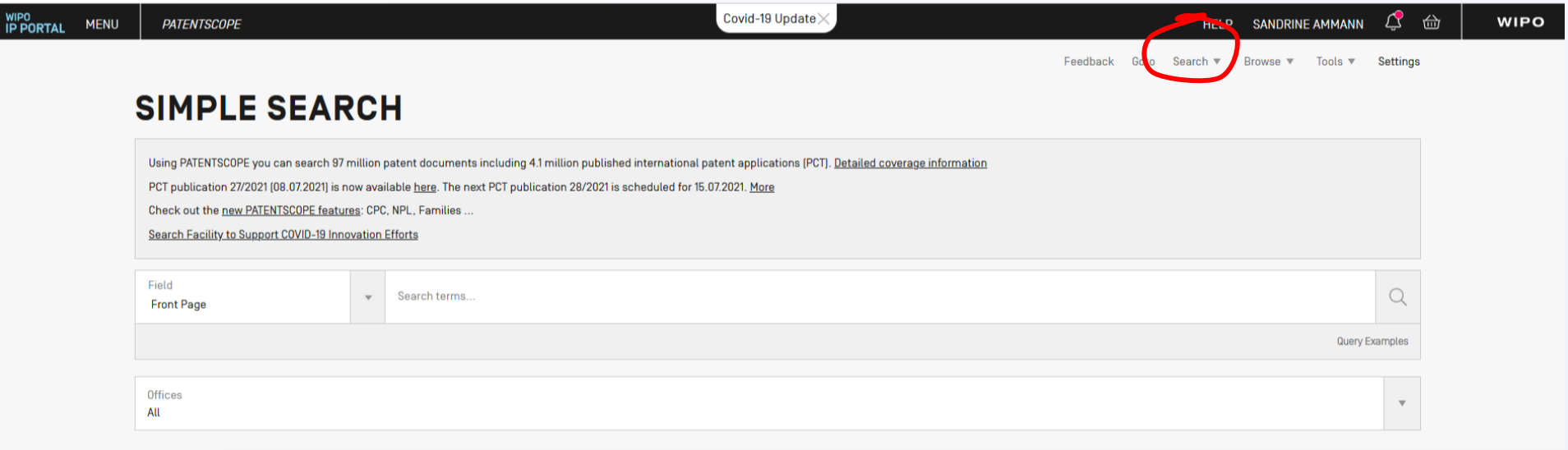
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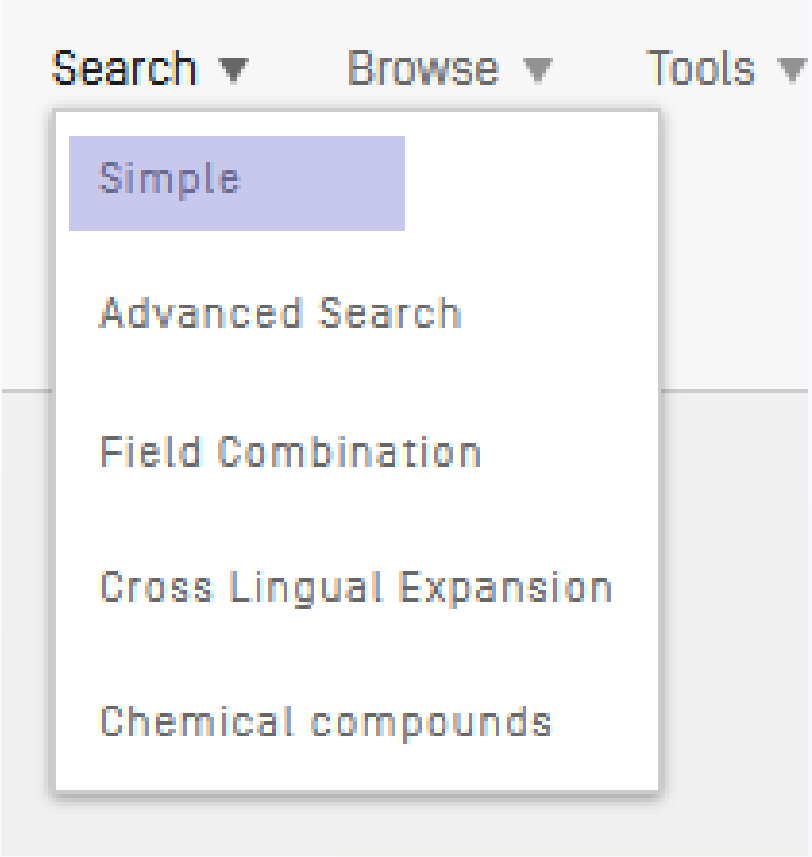
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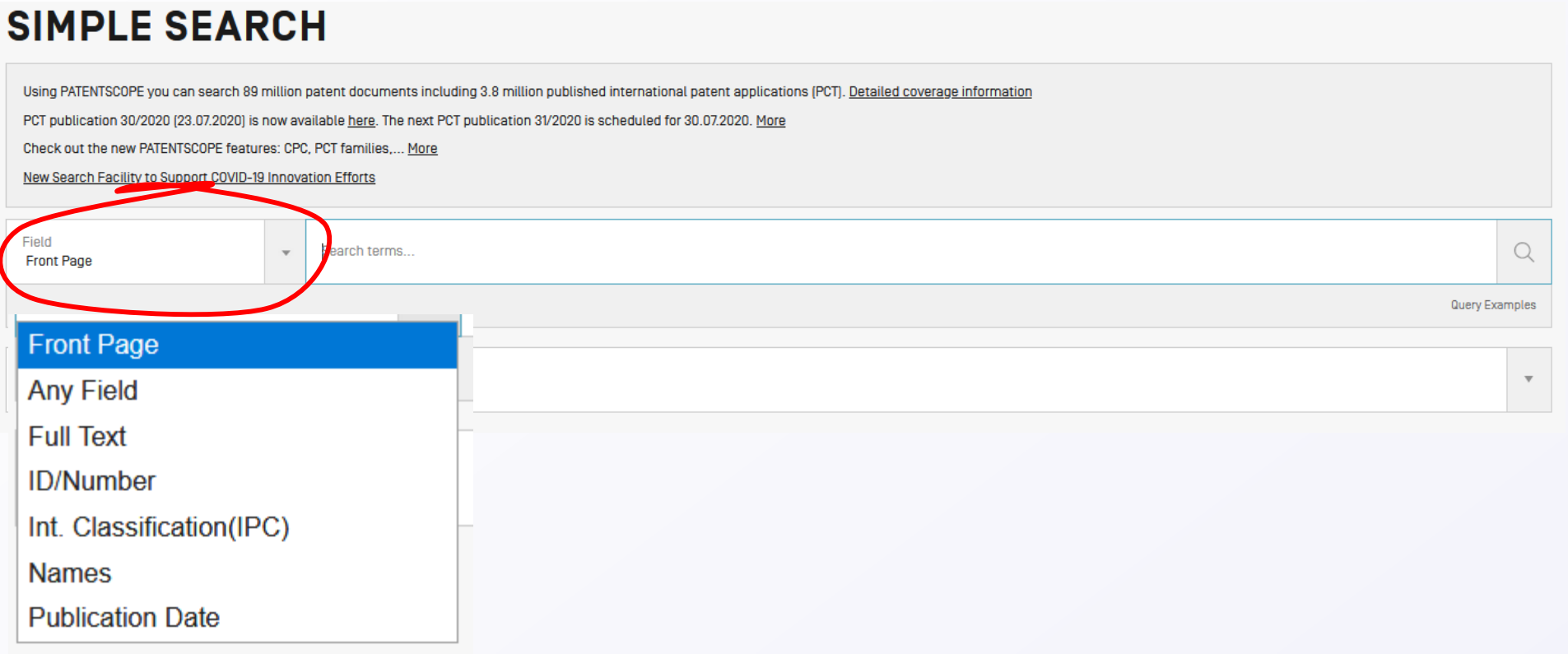

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PCT/AU2019/051378

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Title
[EN] A MEASURED POWDER DISPENSER
[FR] DISTRIBUTEUR DE POUDRE MESURÉE

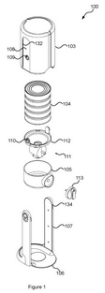

Figure 1

Abstract
[EN]
A measured powder dispenser has a hopper feeding powder down into a measured dispensing mechanism. The measured dispensing mechanism has an inlet and an outlet and a measuring container operable therebetween. The measuring container is rotatably engaged about a rotation axis generally orthogonal to an inlet axis of the inlet such that an exterior surface thereof moves across the inlet when the measuring container rotates. The measuring container has an interior volume adjustable measurement chamber recessed within the exterior surface such that, in use, at a first rotational position, the measurement chamber aligns with the inlet to accept a measured amount of powder therein from the power container and, when rotated to a second rotational position, the exterior surface seals across the inlet and the measurement chamber aligns with the outlet to dispense the measured amount of powder therefrom.
[FR]
La présente invention concerne un distributeur de poudre mesurée présentant une trémie introduisant de la poudre vers le bas dans un mécanisme de distribution mesurée. Le mécanisme de distribution mesurée présente une admission et une évacuation et un contenant de mesure pouvant être actionné entre eux. Le contenant de mesure est en prise rotative autour d'un axe de rotation généralement orthogonal à un axe d'admission de l'admission de sorte qu'une surface extérieure de ce dernier se déplace à travers l'admission lorsque le contenant de mesure tourne. Le contenant de mesure présente une chambre de mesure à volume intérieur réglable en retrait à l'intérieur de la surface extérieure de sorte que, lors de l'utilisation, au niveau d'une première position de rotation, la chambre de mesure s'aligne avec l'admission afin d'accepter une quantité de poudre mesurée en son sein à partir du contenant de poudre et, dans une seconde position de rotation, la surface extérieure sur l'admission et la chambre de mesure s'aligne avec l'évacuation afin de distribuer la quantité de poudre mesurée à partir de cette dernière.

Latest bibliographic data on file with the International Bureau

说明书

发明名称：一种样本光学检测装置

技术领域

技术领域

[0001] 本发明涉及一种样本光学检测装置。

背景技术

背景技术

[0002] 血细胞分析仪大多采用激光散射原理进行测量，原理为：将激光照射在细胞上，通过收集细胞被照射后产生的前向散射光、侧向散射光（90度散射光）和侧向荧光（90度荧光），来对细胞进行分类和计数等。

[0003] 图1为一种血细胞分析仪的光学检测装置，细胞在鞘流的作用下逐个通过流动室，当激光光源发出的光被透镜准直后向通过流动室的细胞照射，照射到细胞上的光会向四周产生散射，通过一收集透镜来收集前向散射光后，再经过一个光阑来限定最终到达光电探测器的前向散射光的角度，例如将前向散射光限定为低角度（或者说小角度）的前向散射光——这种角度的前向散射光一般用于测量细胞体积；同时，在与照射到细胞的光线垂直的方向通过另一收集透镜来收集侧向光，收集的侧向光再通过二向色镜发生反射和折射，其中侧向光中的侧向散射光在经过二向色镜时发生反射，然后到达相应的光电探测器——侧向散射光一般用于测量细胞的表面复杂程度，侧向光中的侧身荧光则经过折射或者说透射后再经过一滤光片也到达相应的光电探测器——侧向荧光一般用于测量细胞内核酸含量。

[0004] 图1中的光学检测装置仅有三路测量通道——即低角度前向散射光通道、侧向散射光通道和侧向荧光通道，因此只能基于这三路测量通道获取的信号来对细胞进行分类和计数，这在一定程度会限制对细胞的进一步分数和计数，即无法做到进行更多维度和更加细致的分类和计数，降低了异常细胞的分类能力；技术人员如果将图1中低角度前向散射光通道替换或增加高角度（或者说大角度）散射光通道，可以直接使用光电探测器即面来接收大角度前向散射光，但这样接收得到的信号信噪比非常差，因此为了保证信号质量，技术人员通常会采用复杂的多个透镜组合来收集大角度前向散射光再出射给对应的光电探测器，这种做法则会极大增加装置的成本；另外，光学检测装置的尺寸一般偏大，这是由于其光路结构所选成的，例如前向散射光通道一般被设计为折射式的光路结构，因此这会造成光学检测装置的尺寸偏大，尤其是当前向散射光通道用于收集多个角度范围（例如低角度和高角度等）的散射光时。

发明概述

技术问题

[0005] 本发明主要提供一种样本光学检测装置，下面说明。

技术解决方案

[0006] 一实施例的样本光学检测装置，包括：

[0007] 流动室，用于供待测样本中的细胞逐个通过；

[0008] 光源，用于照射通过所述流动室的细胞；

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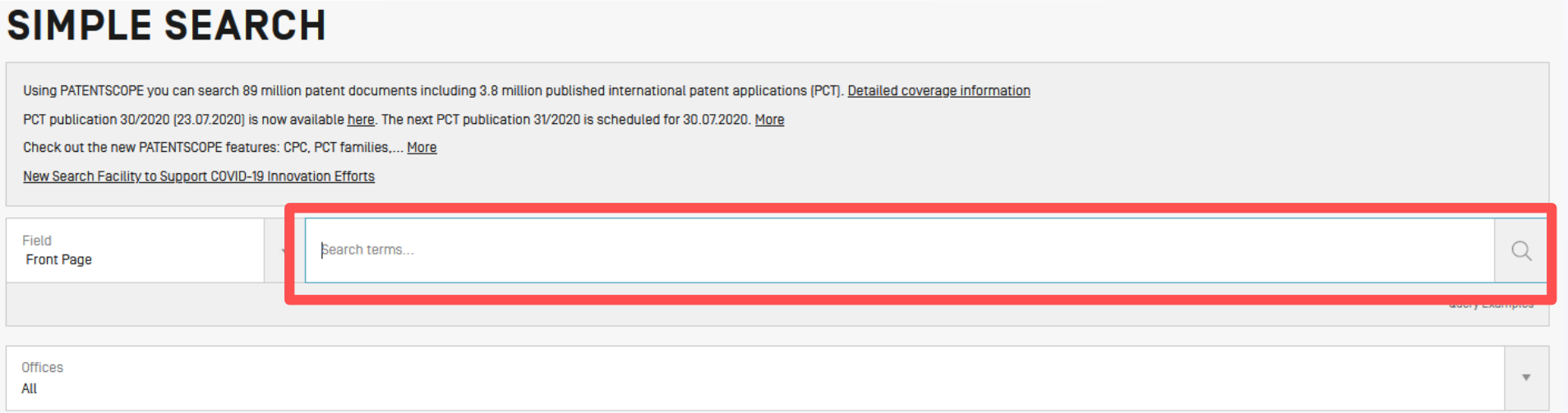

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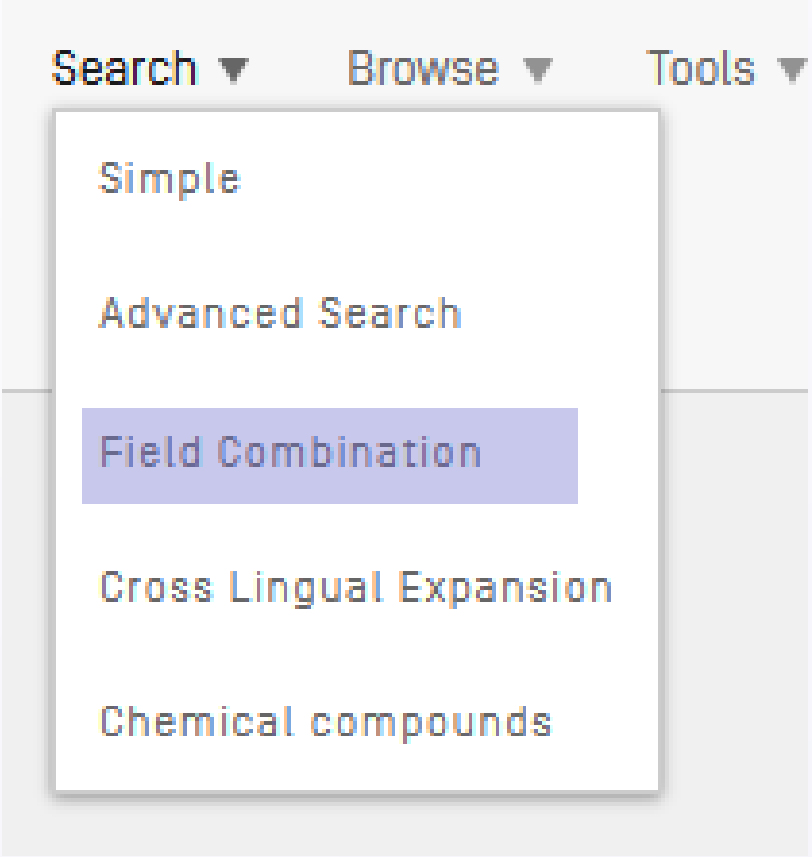
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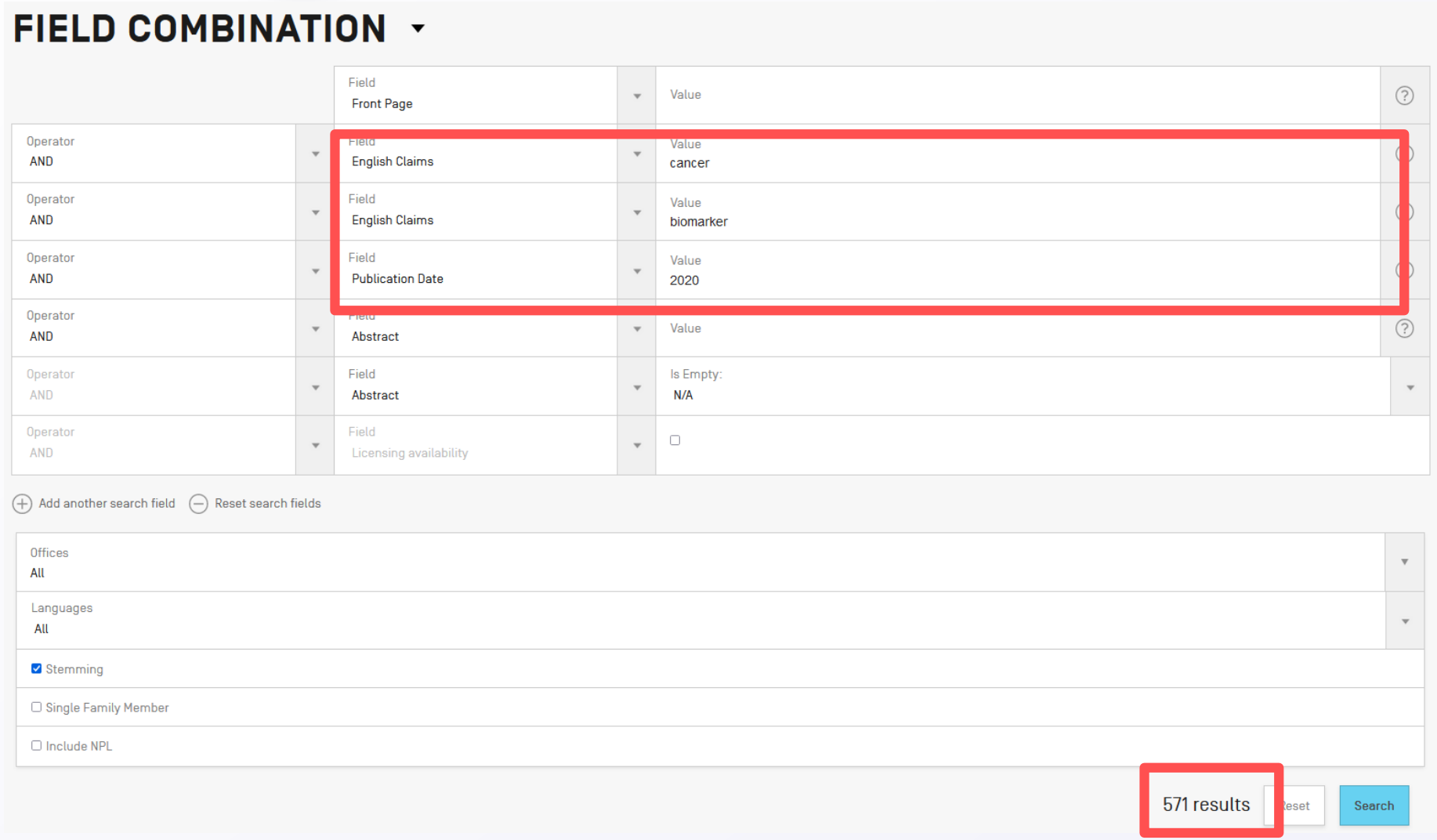

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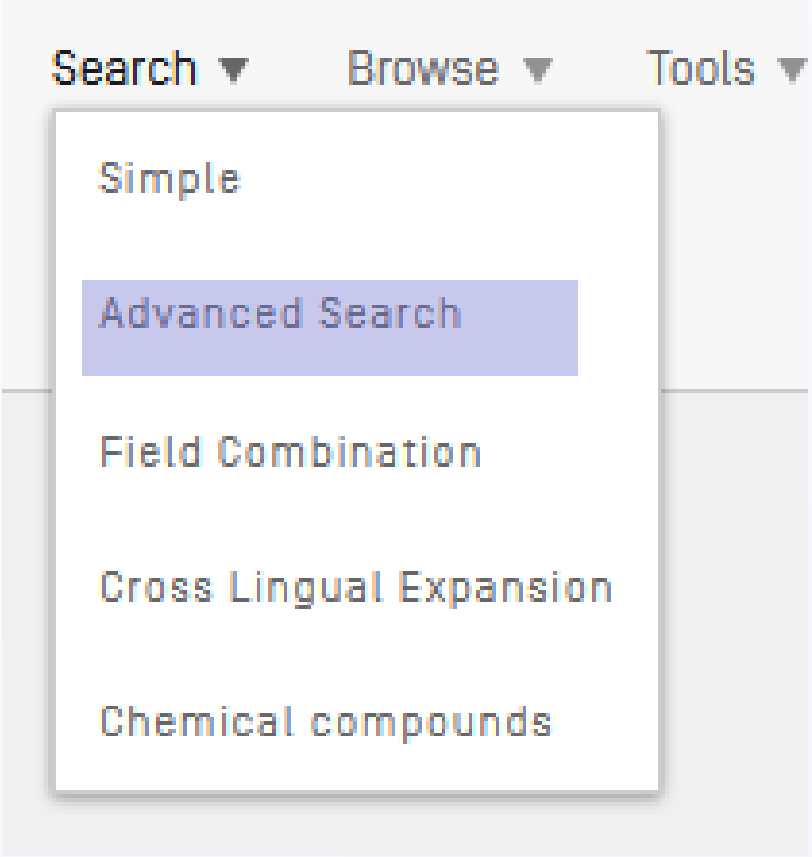
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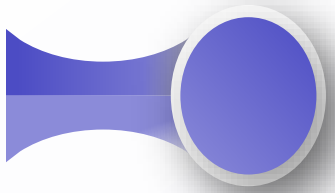

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1. **WO/2021/126999** USE OF BIOMARKERS IN IDENTIFYING PATIENTS THAT WILL BE RESPONSIVE TO TREATMENT WITH A PRMT5 INHIBITOR

WO - 24.06.2021

Int.Class G01N 33/574 **Appl.No** PCT/US2020/065341 **Applicant** MERCK SHARP & DOHME CORP. **Inventor** NICHOLSON, Benjamin

The present invention includes methods of identifying a patient who will likely be responsive to treatment with a protein arginine N-methyltransferase 5 inhibitor, or a pharmaceutically acceptable salt thereof, and methods of treating the same.

2. **WO/2021/119759** OVARIAN CANCER BIOMARKER DETECTION THROUGH OVARIAN BLOOD SAMPLING

WO - 24.06.2021

Int.Class G01N 33/574 **Appl.No** PCT/AU2020/051400 **Applicant** UNIVERSITY OF SOUTH AUSTRALIA **Inventor** HOFFMANN, Peter

The present invention is directed to a biological marker of ovarian cancer, including early stage ovarian cancer. Specifically, the present invention provides methods for detecting ovarian cancer in a subject which include detecting an expression level of the biological marker junction plakoglobin in blood of the subject. An expression level of junction plakoglobin that is higher than a reference expression level for junction plakoglobin indicates that the subject has ovarian cancer. Methods of identifying a subject having ovarian cancer and methods of determining if a subject is susceptible to developing ovarian cancer are also provided based on detecting the expression level of junction plakoglobin in blood of the subject. The present invention also extends to methods of treatment of ovarian cancer together with methods of screening a candidate therapeutic agent for use in treating ovarian cancer. Furthermore, compositions and kits for detecting ovarian cancer in a subject are provided, as well as a method of identifying a biomarker for a cancer, including ovarian cancer.

3. **3839513** USE OF DNA-TRANSCRIPTION FACTOR COMPLEXES FOR CANCER DETECTION

EP - 23.06.2021

Int.Class G01N 33/574 **Appl.No** 20210821 **Applicant** BELGIAN VOLITION SPRL **Inventor** MICALLEF JACOB VINCENT

The invention relates to the use of tissue specific transcription factor-nucleosome adducts or transcription cofactor-nucleosome adducts as biomarkers in a biological fluid for the detection or diagnosis of a cancer in a subject. The invention further relates to using said tissue specific transcription factor or cofactor adducts to identify the site of development of a cancer in a subject.

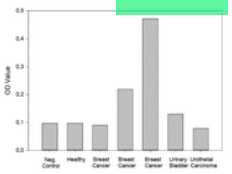

FIGURE 1

4. **20210181184** METHODS FOR TREATING MULTIPLE MYELOMA AND THE USE OF COMPANION BIOMARKERS FOR 4-[4-[4-[[[2-[2,6-DIOXOPIPERIDIN-3-YL]-1-OXOISOINDOLIN-4-YL]OXY]METHYL]BENZYL]PIPERAZIN-1-YL]-3-FLUOROBENZONITRILE

US - 17.06.2021

Int.Class G01N 33/50 **Appl.No** 17173176 **Applicant** Celgene Corporation **Inventor** Maria Soraya Carrancio Anton

1. US20180188252 - METHODS FOR DIAGNOSIS AND PROGNOSIS OF EPITHELIAL CANCERS

National Biblio. Data | Description | Claims | Drawings | Patent Family | Compounds | Documents

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[EN]

Claims

1. A method for facilitating the diagnosis of a patient for a cancer of epithelial origin comprising:
a. obtaining a biological sample from the patient; and
b. detecting the presence or absence of at least one epithelial cancer biomarker in the biological sample,
wherein the presence of at least one epithelial cancer biomarker is indicative of cancer of epithelial origin, and wherein the epithelial cancer biomarker is selected from the group consisting of Cystatin B, Chaperonin 10, and Profilin.
2. A method for diagnosing a cancer of epithelial origin in a patient comprising:
a. measuring at least one epithelial cancer biomarker levels present in a biological sample obtained from the patient, a test sample;
b. comparing the level of at least one epithelial cancer biomarker in the test sample with the level of epithelial cancer biomarker present in a control sample;
wherein a higher level of at least one epithelial cancer biomarker in the test sample as compared to the level of epithelial cancer biomarker in the control sample is indicative of cancer of epithelial origin, and wherein the epithelial cancer biomarker is selected from the group consisting of Cystatin B, Chaperonin 10, and Profilin.
3. The method of **claim 1**, wherein the cancer of epithelial origin is selected from the group consisting of breast cancer, basal cell carcinoma, adenocarcinoma, gastrointestinal cancer, lip cancer, mouth cancer, esophageal cancer, small bowel cancer, stomach cancer, colon cancer, liver cancer, bladder cancer, pancreas cancer, ovary cancer, cervical cancer, lung cancer, skin cancer, prostate cancer, and renal cell carcinoma.
4- **6**. [canceled]
7. The method of **claim 1**, wherein the biological sample is urine.
8. The method of **claim 1**, wherein the presence or absence of at least
one epithelial cancer biomarker or Cystatin B is detected using an antibody-based binding moiety which specifically binds to at least one epithelial cancer biomarker or to Cystatin B.
9. The method of **claim 2**, wherein the level of at least one
epithelial cancer biomarker or Cystatin B is measured by measuring the protein level of at least one epithelial cancer biomarker protein or Cystatin B.
10. The method of **claim 9**, wherein the protein level of epithelial cancer biomarker or level of Cystatin B is measured by a method comprising the steps of:
a. contacting the test sample, or preparation thereof, with an antibody-based binding moiety which specifically binds the epithelial cancer biomarker or to Cystatin B to form an antibody-epithelial cancer biomarker complex; and
b. detecting the presence of the complex, thereby measuring the level of epithelial cancer biomarker present.
11. The method according to **claim 8**, wherein the antibody-based binding moiety is labeled with a detectable label.
12. The method according to **claim 11**, wherein the label is selected from the group consisting of a radioactive label, a hapten label, a fluorescent label, and an enzymatic label.
13. The method according to **claim 8**, wherein the antibody-based binding moiety is an antibody.
14. The method according to **claim 13**, wherein the antibody is an monoclonal antibody.
15- **19**. [canceled]
20. The method of **claim 2**, wherein the cancer of epithelial origin is selected from the group consisting of breast cancer, basal cell carcinoma, adenocarcinoma, gastrointestinal cancer, lip cancer, mouth cancer, esophageal cancer, small bowel cancer, stomach cancer, colon cancer, liver cancer, bladder cancer, pancreas cancer, ovary cancer, cervical cancer, lung cancer, skin cancer, prostate cancer, and renal cell carcinoma.
21. The method according to **claim 10**, wherein the antibody-based binding moiety is labeled with a detectable label.
22. The method according to **claim 10**, wherein the antibody-based binding moiety is an antibody.

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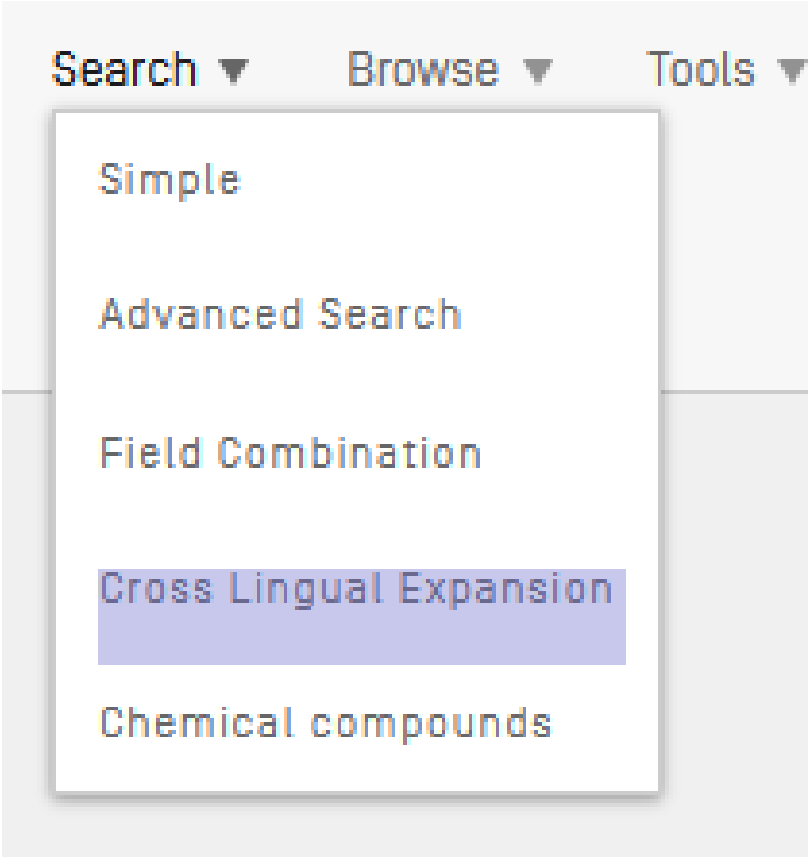
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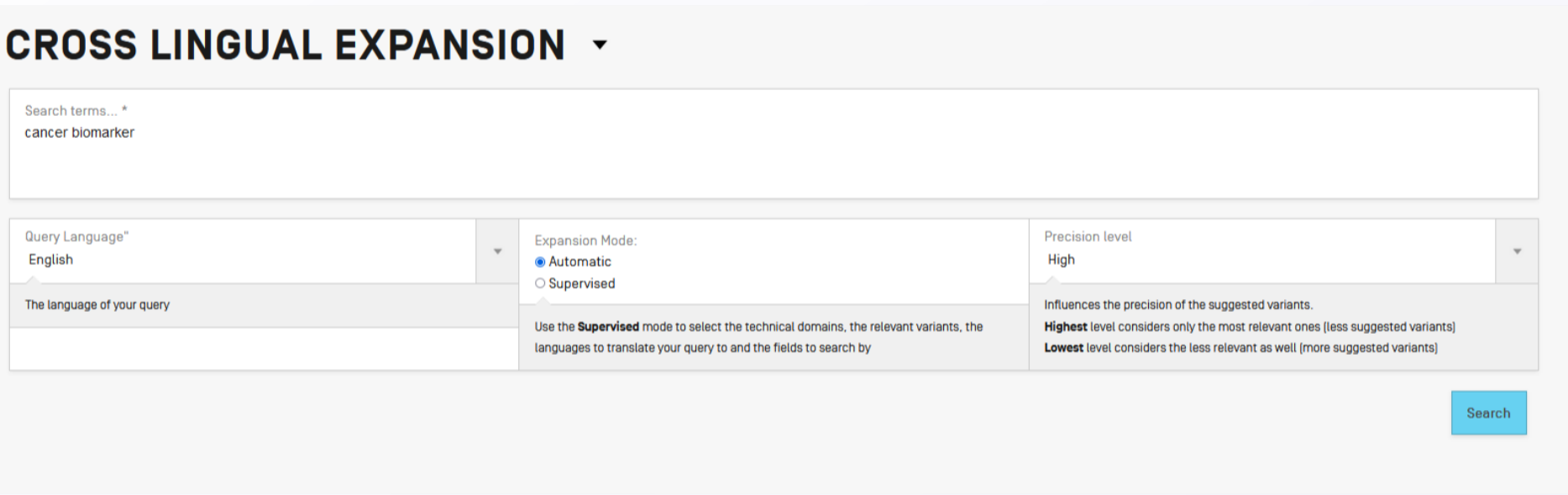
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1. **2014513949** 患者における癌の診断方法 JP - 19.06.2014

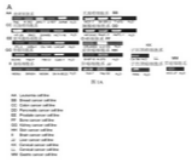
Int.Class C12Q 1/48 **Appl.No** 2014506513 **Applicant** トラクソン・リミテッド・ライアビリティ・カンパニー **Inventor** ロバート・パスカス

本願は、ある特定の癌バイオマーカーの存在、活性および／または濃度を判定するための方法、ならびに癌の存在の判定におけるその使用に関する。

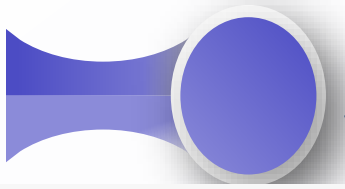
2. **WO/2021/114201** CANCER BIOMARKER AND USE WO - 17.06.2021

Int.Class C12Q 1/6886 **Appl.No** PCT/CN2019/125011 **Applicant** SUZHOU INSTITUTE OF BIOMEDICAL ENGINEERING AND TECHNOLOGY CHINESE ACADEMY OF SCIENCES **Inventor** GAO, Shan

Provided are a cancer biomarker and use. The cancer biomarker comprises a programmed cell death protein PD-1, a gene PDCD1, and/or PD-1 mRNA in tumor cells; pD-1 is subjected to broad-spectrum expression in tumor cells and plays a role in inhibiting the growth of the tumor cells. The cancer biomarker is used for predicting, evaluating or identifying the effectiveness of a PD-1 antibody on treatment of tumor patients with immunodeficiency or immunocompromised tumor patients. A tumor patient who is not suitable for PD-1 antibody treatment is predicted; more effective medication and therapy selection suggestions are provided for tumor patients.



3. **2014530355** 免疫学的タンパク質、病原性及び微生物因子並びに細胞の検出及び定量化用装置及び方法 JP - 17.11.2014



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1. **2014513949** 患者における癌の診断方法

Int.Class C12Q 1/48 Appl.No 2014506513 Applicant トラクソン・リミテッド・ライアビリティ・カンパニー Inventor ロバート・パスカス

本願は、ある特定の癌バイオマーカーの存在、活性および／または濃度を判定するための方法、ならびに癌の存在の判定におけるその使用に関する。

2. **WO/2021/114201** CANCER BIOMARKER AND USE

Int.Class C12Q 1/6886 Appl.No PCT/CN2019/125011 Applicant SUZHOU INSTITUTE OF BIOMEDICAL ENGINEERING AND TECHNOLOGY CHINESE ACADEMY OF SCIENCES Inventor GAO, Shan

Provided are a cancer biomarker and use. The cancer biomarker comprises a programmed cell death protein PD-1, a gene PDCD1, and/or PD-1 mRNA in tumor cells; pD-1 is subjected to broad-spectrum expression in tumor cells and plays a
inhibiting the growth of the tumor cells. The cancer biomarker is used for predicting, evaluating or identifying the effectiveness of a PD-1 antibody on treatment of tumor patients with immunodeficiency or immunocompromised tumor patie
tumor patient who is not suitable for PD-1 antibody treatment is predicted; more effective medication and therapy selection suggestions are provided for tumor patients.

3. **2014530355** 免疫学的タンパク質、病原性及び微生物因子並びに細胞の検出及び定量化用装置及び方法

Int.Class G01N 27/74 Appl.No 2014531827 Applicant カーネギー メロン ユニバーシティ Inventor ガンディーニー，アルベルト

本発明は、液体試料中に分散する磁気応答性マイクロビーズの濃度を検出及び定量化するための方法及び装置を提供する。また、抗原特異的抗体で被覆された磁気応答性マイクロビーズを使用して試料媒体中の分析物の濃度を有
び定量化するための方法及びマイクロ流体イムノアッセイｐＳｃｒｅｅｎ（商標）装置も提供される。本発明の方法及び装置は、タンパク質、タンパク質断片、抗原、抗体、抗体断片、ペプチド、ＲＮＡ、ＲＮＡ断片、ＣＤ
ＣＤ$^{8+}$細胞に特異的な機能化された磁気マイクロビーズ、マラリア感染赤血球、癌細胞、前立腺特異抗原などの癌バイオマーカー及び他の癌バイオマーカー、ウイルス、細菌、及び他の病原性因子などの多種多様な分析物の
を、研究室ベースののベンチトップアッセイの感度、特異度及び精度で可能にすることにより、ポイント・オブ・ケア診断向けの広範な適用を有する。
【選択図】図３

4. **2011521897** 膵管腺癌の検出および治療のためのプレクチン－１標的化剤

Int.Class C07K 7/08 Appl.No 2011505127 Applicant ザ ジェネラル ホスピタル コーポレイション Inventor ケリー、キンバリー

膵管腺癌（ＰＤＡＣ）細胞バイオマーカーのような癌細胞バイオマーカーならびに癌（例えば、ＰＤＡＣ）の診断および治療用の結合分子のための、組成物および方法が本明細書に記載される。ＰＤＡＣバイオマーカーである
チン－１のような癌バイオマーカー同定のための、「利用可能な」プロテオーム同定法が開示される。さらに、ＰＤＡＣ同定のためのペプチドリガンドとコンジュゲートされた磁性蛍光ナノ粒子を含むイメージング組成物が提
る。

1. **2014513949** METHOD FOR DIAGNOSING CANCER IN PATIENT

JP - 19.06.2014

Int.Class C12Q 1/48 **Appl.No** 2014506513 **Applicant** トラクソン・リミテッド・ライアビリティ・カンパニー **Inventor** ロバート・パスカス

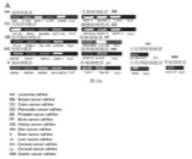
The present application relates to a method for determining the presence, activity and/or concentration of a particular cancer biomarker, as well as its use in determining the presence of cancer

2. **WO/2021/114201** CANCER BIOMARKER AND USE

WO - 17.06.2021

Int.Class C12Q 1/6886 **Appl.No** PCT/CN2019/125011 **Applicant** SUZHOU INSTITUTE OF BIOMEDICAL ENGINEERING AND TECHNOLOGY CHINESE ACADEMY OF SCIENCES **Inventor** GAO, Shan

Provided are a cancer biomarker and use. The cancer biomarker comprises a programmed cell death protein PD-1, a gene PDCD1, and/or PD-1 mRNA in tumor cells; pD-1 is subjected to broad-spectrum expression in tumor cells and plays a role in inhibiting the growth of the tumor cells. The cancer biomarker is used for predicting, evaluating or identifying the effectiveness of a PD-1 antibody on treatment of tumor patients with immunodeficiency or immunocompromised tumor patients.A tumor patient who is not suitable for PD-1 antibody treatment is predicted; more effective medication and therapy selection suggestions are provided for tumor patients.



3. **2014530355** IMMUNOLOGICAL PROTEIN, PATHOGENIC AND MICROBIAL FACTOR, AND DEVICE AND METHOD FOR DETECTING AND QUANTIFYING CELL

JP - 17.11.2014

Int.Class G01N 27/74 **Appl.No** 2014531827 **Applicant** カーネギー　メロン　ユニバーシティ **Inventor** ガンディーニー，アルベルト

The present invention provides a method and apparatus for detecting and quantifying the concentration of magnetically responsive microbeads dispersed in a liquid sample. Also provided are a method for detecting and quantifying the concentration of an analyte in a sample medium using magnetically responsive microbeads coated with an antigen-specific antibody, and a microfluidic immunoassay PSCREEN ™ device.. The methods and apparatus of the present invention allow quantification of a wide variety of analytes, such as proteins, protein fragments, antigens, antibodies, antibody fragments, peptides, RNA, RNA fragments, CD4 +, CD8 + cells, cancer biomarkers such as malaria-infected red blood cells, cancer cells, prostate-specific antigens, and other cancer biomarkers, viruses, bacteria, and other pathogenic factors. Out-of -. A wide variety of applications for care diagnosis are provided

4. **2011521897** PREFECTIN -1 TARGETING AGENT FOR DETECTION AND TREATMENT OF PANCREATIC TUBE ADENOCARCINOMA

JP - 28.07.2011

Int.Class C07K 7/06 **Appl.No** 2011505127 **Applicant** ザ　ジェネラル　ホスピタル　コーポレイション **Inventor** ケリー、キンバリー

Compositions and methods for cancer cell biomarkers, such as pancreatic duct adenocarcinoma (PDAC) cell biomarkers, and binding molecules for cancer (eg, PDAC) diagnostic and therapeutic binding molecules are described herein. A "available" proteome identification method for cancer biomarker identification, such as a PDAC biomarker, is disclosed. Further provided is an imaging composition comprising magnetic fluorescent nanoparticles conjugated with a peptide ligand for PDAC identification

5. **2008529008** BIOMARKER FOR BLADDER CANCER

JP - 31.07.2008

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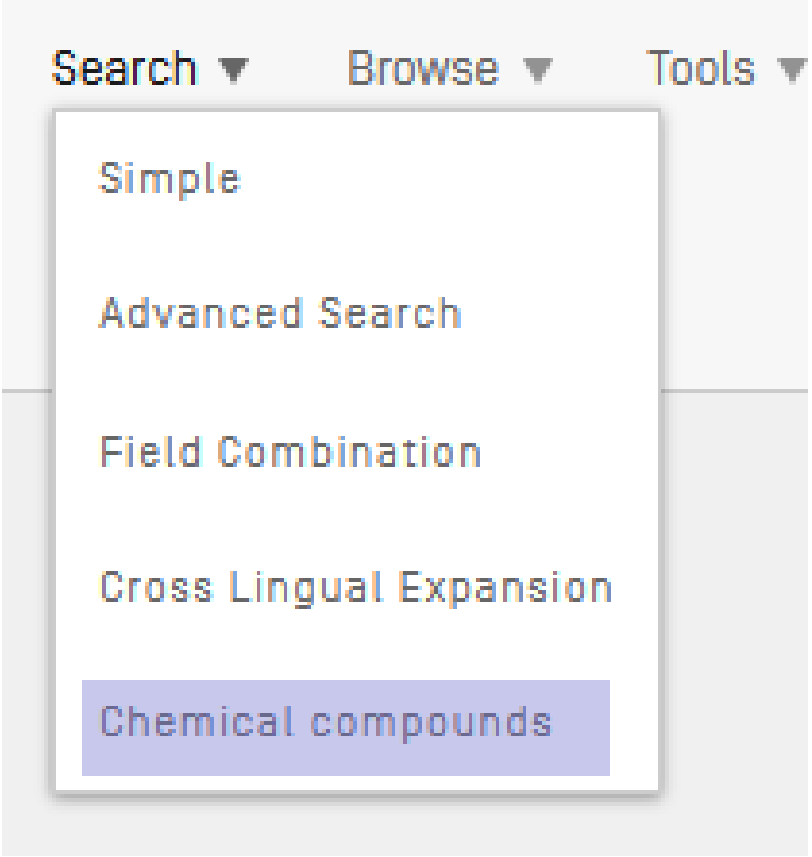
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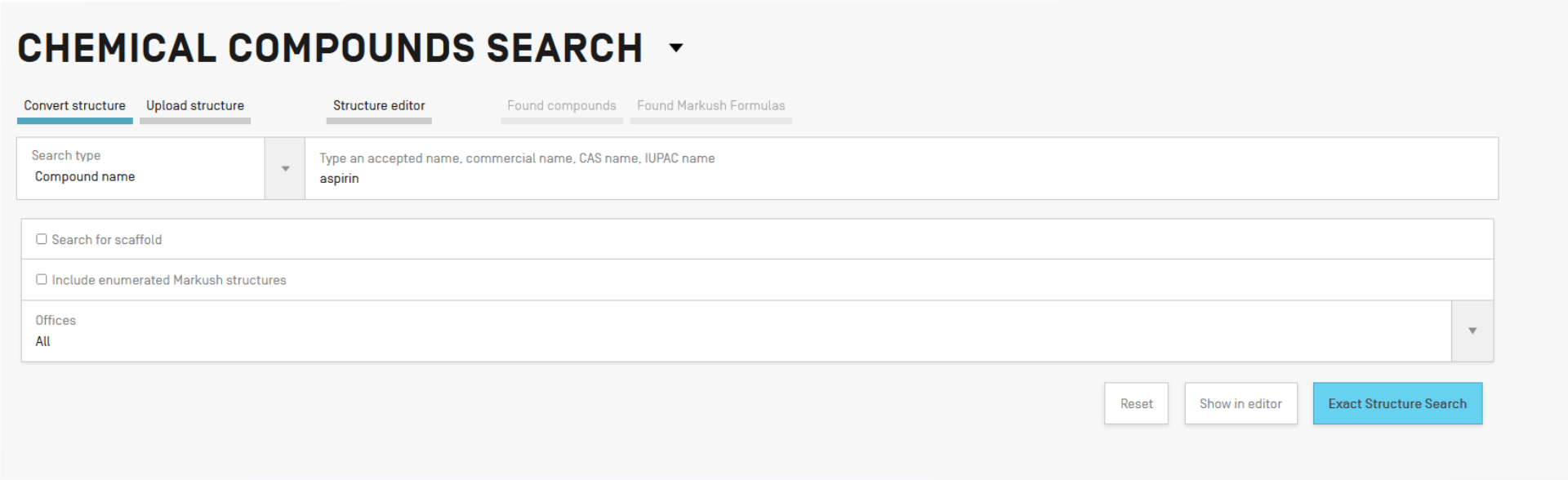
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1. **2017207510** DUAL ANTI-PLATELET MEDICATION/ASPIRIN RESPONSE AND REACTIVITY TEST USING SYNTHETIC COLLAGEN

Int.Class G01N 33/49 **Appl.No** 2017145031 **Applicant** JNC CORP **Inventor** WILLIAM M TROLIO

PROBLEM TO BE SOLVED: To provide methods of determining anti-platelet medication sensitivity of platelets of an individual without using an animal-derived collagen as an agonist when the individual is on a dual anti-platelet therapy of aspirin and anti-platelet medication.

MEANS: A method of determining anti-platelet medication sensitivity of platelets of an individual who is on a dual anti-platelet therapy of aspirin and anti-platelet medication is provided, which involves performing a Light Transmission Aggregometry Assay [LTAA] using synthetic self-assembling human type I collagen containing a polypeptide having a peptide fragment represented by a formula [I], where X represents Hyp, and n represents an integer in a range of 20 to 250.

SELECTED DRAWING: None

2. **2015528567** 合成コラーゲンを用いる二重抗血小板薬／アスピリン応答および反応性試験

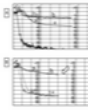
Int.Class G01N 33/49 **Appl.No** 2015526805 **Applicant** ＪＮＣ株式会社 **Inventor** ウィリアム，エム．トロリオ

本発明は、合成自己組織化ヒトＩ型コラーゲンを用い、光透過型凝集測定アッセイ（ＬＴＡＡ）またはフローサイトメトリーを用いることなどによる機能性血小板凝集を測定する試験、個人がアスピリンと抗血小板薬との二重抗血小板療法を受けている場合に個人の血小板の抗血小板薬感受性および残留血小板活性状態を予測ならびに測定する方法、ならびに、これらのアッセイおよび方法において有用であるキットを提供する。

3. **WO/2014/025685** DUAL ANTI-PLATELET MEDICATION/ASPIRIN RESPONSE AND REACTIVITY TEST USING SYNTHETIC COLLAGEN

Int.Class C12Q 1/56 **Appl.No** PCT/US2013/053612 **Applicant** JNC CORPORATION **Inventor** TROLIO, William M.

The present invention provides tests that measures functional platelet aggregation such as by using Light Transmission Aggregometry Assays [LTAAs] or flow cytometry, using synthetic, self-assembling human type I collagen, methods of predicting and measuring an individual's platelet anti-platelet medication sensitivity and residual platelet activity status when the individual is on a dual anti-platelet therapy of aspirin and anti-platelet medication and kits useful in the assays and methods.

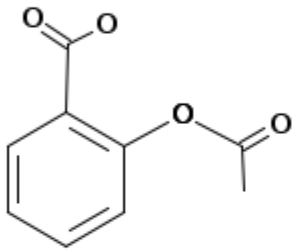


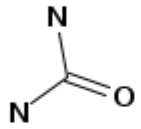
4. **2017506252** 吸入用の乾燥粉末製剤

Int.Class A61K 31/616 **Appl.No** 2016553556 **Applicant** オティトピック　インコーポレイテッド **Inventor** セディディ　カンビズ

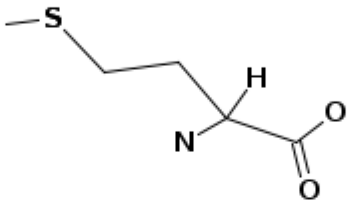
National Biblio. Data | Description | Claims | Drawings | Compounds | Documents

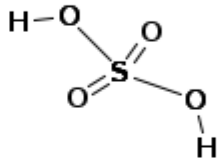
Title | Abstract | Description | Claims

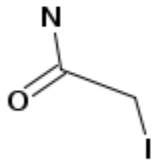


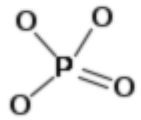


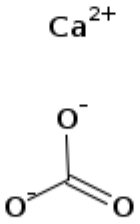
Methionine



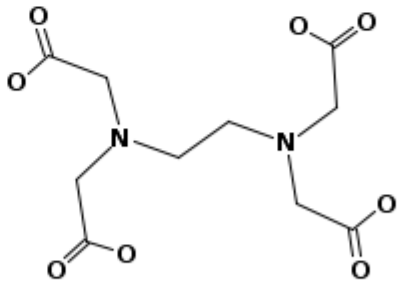








Edetic acid



본 발명은 CAPRIN-1을 종양 마커로 하는 암의 검출 방법에 관한 것이다.

배경기술

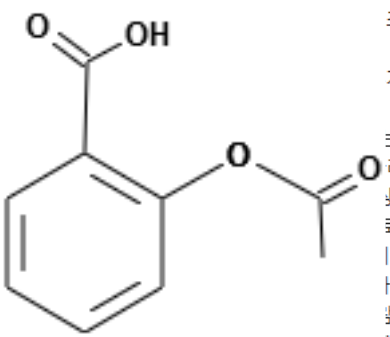
암은 전체 사망 원인의 제 1 위를 차지하는 질환이고, 현재 행해지고 있는 치료는 수술 요법을 주체로 방사선 요법과 화학 요법을 조합시킨 것이다. 지금까지의 의료 기술의 진보에 의해, 암종에 따라서는 조기 발견할 수 있으면 고칠 수 있는 가능성이 높은 질환이 되고 있다. 그 때문에, 암환자의 체력적, 경제적 부담이 없고, 간편하게 검사할 수 있는 암의 검출 방법이 요구되고 있다.

최근에는, 종양 마커 등의 종양 생산물을 측정하는 방법이 보급되어 왔다. 종양 생산물이란, 종양에 관련되는 항원, 효소, 특정 단백질, 대사산물, 종양 유전자, 종양 유전자 생산물 및 종양 억제 유전자 등을 가리키고, 암태아성 항원 CEA, 당 단백질 CA19-9, 전립선 특이 항원 PSA, 갑상선에서 생산되는 펩티드 호르몬인 칼시토닌 등이 일부의 암에서 종양 마커로서 암진단에 활용되고 있다. 그러나, 다른 많은 암종에 있어서는 암진단에 유용한 종양 마커는 존재하지 않는다. 또한, 현재 알려져 있는 종양 마커의 대부분은 체액 중에 극히 미량(pg/mL 오더 정도)밖에 존재하지 않기 때문에, 그들을 검출하기 위해서는 고감도한 측정법이나 특수한 기술을 필요로 한다. 이러한 현재 상황 중에서, 각종 암을 간편한 조작으로 고감도로 검출할 수 있는 신규한 암 검사 수단을 제공할 수 있으면, 각종 암에 대한 진단 용도가 열린다고 기대된다.

한편, 최근 새로운 수술법의 개발이나 새로운 항암제의 발견에도 불구하고, 일부 암을 제외하고 대부분의 암에서는 효과적인 암 진단 기술이 확립되어 있지 않다. 그러므로, 암을 조기에 발견할 수 없고, 암의 치료 성적은 그다지 향상되지 않은 것이 현재 상황이다.

최근, 분자생물학이나 암면역학의 진보에 의해, 암에 특이적으로 반응하는 항체나, 암화나 암의 악화에 관련되는 암 항원에 대한 분자 표적약 등, 암 항원류를 타깃으로 한 특이적 암 치료법에의 기대가 높아지고 있다. 그 중에서도, 암세포 상의 항원 단백질을 표적으로 한 암을 치료하기 위한 항체 의약이 복수 상시되어 암 치료에 사용되고 있다. 항체 의약은 암 특이적 치료약으로서 일정 약효를 얻을 수 있으므로 주목받고 있지만, 표적이 되는 항원 단백질의 대부분은 정상세포에도 발현되는 것이고, 항체 투여의 결과, 암세포뿐만 아니라 항원이 발현되는 정상세포도 장해되어버려, 그 결과 생기는 부작용이 문제가 되고 있다. 또한, 암환자에 의해 병인은 다양하기 때문에 암 치료의 효과는 개인차가 매우 크다. 예를 들면, 수술, 화학 요법 또는 방사선 요법에 있어서, 암의 진행 단계에 의해 그 치료 및 예후는 크게 좌우된다. 개체의 다양성에 의해, 동일한 암 치료약에 대해서도 개개인으로 다른 감수성을 가진다는 것이 알려져 있고, 어떤 환자에 유효한 약이 다른 환자에게도 유효하다고는 할 수 없다.

그래서, 미리 환자의 질환 관련 유전자나 단백질의 발현을 측정하고, 어떤 특정 약품이 특정 유전자 또는 단백질을 발현하고 있는 암환자에 대하여 유효할 것인지 아닌지를 평가한 후에, 그 암환자에의 치료약의 투여 결정이 이루어지고 있다. 구체적으로는, 어느 종류의 암에 대한 질환 관련 유전자나 단백질을 측정하는 검출법을 사용하여, 임상 현장에서 암환자 유래의 시료, 예를 들면 혈청이나 조직 중에 암 항원이 존재하는지 아닌지를 검사한 후에 암 항원 특이적인 치료약의 투여 결정이 이



직을 면역 조직 화학 염색 EGFR 검출법 「EGFRpharm(DAKO Corporation)」에 의해 평가하고, 대장암에 있어서의 얼비툭스의 유효성을 예측한 후에 얼비툭스의 투여를 결정하

조직화학 염색 Her2검출법 「허셉 테스트」에 의해 평가하고, 유방암에 있어서의 허셉틴의 유효성을 예측한 후에, 허셉틴의 적용을 결정하고 있다.

그런데, 반려동물은 가족의 일원으로서 사육되고, 기르는

가 많다. 그 때문에, 반려동물의 암 감염에 의해, 기르는 주인이 장래 암을 발병할 위험성이 높은 것을 예측할 수 있는 것이 알려져 있다.

대표적인 반려동물인 개는 인간과 비교하여 7배 빨리 나이

ㅌ. 일본에서는 약 670만마리, 또한 미국에서는 약 1764만마리라고 알려져 있다. 광견병 예방접종 이외에 5종, 7종, 8종 등의 혼합백신이 일반적으로 보급되고, 개 파보바이러스

라인플루엔자[컨넬코프], 개 아데노바이러스 2형 감염증[컨넬코프], 개 전염성 간염, 개 코로나바이러스 감염증, 및 렙토스피라병이라는 치사율이 높은 감염증이 감소했다.

양의 고령개는 전체 사육수의 35.5%를 차지하고 있다. 사망 원인도 인간과 같이 암이나 고혈압, 심장병 등이 증가의 일로를 걷고 있다. 미국에서는 1년에 약 400만마리의 개가

로 약 160만마리에 어떤 종양이 있다고 알려져 있다. 그러나, 반려동물은 인간과 같이 건강진단이 보급되어 있지 않기 때문에 발견이 늦어, 종양이 커지고 처음으로 주인이 일

| 악성인 경우, 수술 등의 외과적 요법이나 항암제 등의 투약을 행한다 해도, 이미 너무 늦은 경우가 대부분이다. 그 때문에, 수의사가 악성이라고 판단했을 경우에는 수술하

ㅏ. 수술을 행할 경우에도, 마진 확보의 크기나 수술 중의 혈액, 세포 비산 대책이라고 한 수술 중의 대책도 엄중하게 실시할 필요가 있다. 수술 후 즉시 항암제 치료를 시작하고

강직하다. 따라서, 암에 걸린 반려동물에 있어서도 암 치료약의 투약은 필수적이고, 어떤 종류의 암에 대한 질환관련 유전자나 단백질을 측정하는 검출법이 존재하면, 지금까

게도 수의사에 있어서도 메리트가 크다.

Cytoplasmic-and proliferation-associateed protein 1(CAPRIN-1)은 휴지기의 정상세포가 활성화나 세포분열을 일으킬 때에 발현되고, 또한 세포내에서 RNA와 세포내 스트레스 과립을 형성하여 mRNA의 수송, 번역의 제어에 관여하는 것 등이 알려져 있는 세포내 단백질이다. 한편으로, 본 발명자들은 유방암세포의 막 표면에 CAPRIN-1이 고발현하고 있는지, CAPRIN-1에 대한 항체가 유방암세포에 대하여 강한 항종양 효과를 발휘하는지를 발혀냈다[특허문헌 1]. 또한, 세포 표면에 발현하고 있는 CAPRIN-1에 결합하는 항체를 사용하여, 환자에 유래하는 시료 중의 CAPRIN-1의 발현을 측정함으로써, 암의 검출 및 암의 악성도를 평가할 수 있는 것이 보고되고 있다 즉, 세포막 단백질의 하나인 CAPRIN-1은 암 치료 등의 타깃이 될 수 있는 것이 기재되어 있다. 한편 상술한 바와 같이, 암환자의 다양성으로부터 CAPRIN-1을 표적으로 한 치료약, 예를 들면 항체의 투여를 결정하기 위해서는 미리 암환자 유래 시료 중의 CAPRIN-1의 발현을 검증할 필요가 있다. 그러나, 이와 같이 특이적인 치료약을 적용하기 위한 CAPRIN-1의 검출 방법에 관한 보고는 없고, 또한 암환자 시료를 사용한 암을 검출하는 시약은 존재하지 않는다.

선행기술문헌

특허문헌

[특허문헌 0001] WO2010/016526

[특허문헌 0002] WO2010/016527

Results

EN_AB:(biomarker NEAR10 cancer)

4,418 results Offices all Languages all Stemming true Single Family Member false Include NPL false

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1. **1020170097956** METHOD FOR SCREENING CANCER BIOMARKERS BY USING CAPILLARY WESTERN BLOT ASSAY — KR - 29.08.2017

Int.Class G01N 33/574 **Appl.No** 1020160019700 **Applicant** EWHA UNIVERSITY - INDUSTRY COLLABORATION FOUNDATION **Inventor** SHEEN, YHUN YHONG

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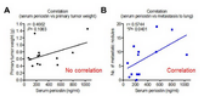

2. **20150072890** METHODS AND COMPOSITIONS FOR AIDING IN THE DETECTION OF LUNG CANCER — US - 12.03.2015

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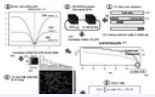

EN_AB:(biomarker NEAR10 cancer)

4,418 results Offices all Languages all Stemming true Single Family Member false Include NPL false

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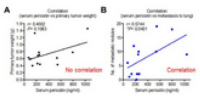

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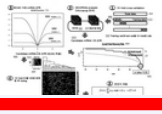

11. WO2021104442 - METHOD AND COMPOSITIONS FOR PREDICTING ANTI-CANCER EFFICACY OF COMPOUNDS TARGETING APOPTOSIS PATHWAY

PCT Biblio. Data | Full Text | Drawings | ISR/WOSA/A17(2)[a] | National Phase | Patent Family | Notices | Compounds | Documents

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A61K 31/407 2006.01 | A61K 31/496 2006.01
C07D 487/10 2006.01 | C07D 471/04 2006.01
C07D 401/14 2006.01 | C12Q 1/68 2018.01
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Designated States
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Title
[EN] METHOD AND COMPOSITIONS FOR PREDICTING ANTI-CANCER EFFICACY OF COMPOUNDS TARGETING APOPTOSIS PATHWAY
[FR] METHODE ET COMPOSITIONS POUR PRÉDIRE L'EFFICACITÉ ANTICANCÉREUSE DE COMPOSÉS CIBLANT LA VOIE DE L'APOPTOSE

Abstract
[EN]
Provided are biomarkers for predicting the efficacy of MDM2 inhibitor or Bcl-2/Bcl-xL dual inhibitors or Bcl-2 inhibitor or Bcl-xL inhibitor in treating cancer patients. Also provided are compositions, e.g., kits, for evaluating gene levels of the biomarkers and methods of using such gene levels to predict a cancer patient's response to the MDM2 inhibitors or Bcl-2/Bcl-xL dual inhibitors or Bcl-2 inhibitor or Bcl-xL inhibitor. Such information can be used in determining prognosis and treatment options for cancer patients.
[FR]
L'invention concerne des biomarqueurs pour prédire l'efficacité d'un inhibiteur de MDM2 ou de doubles inhibiteurs de Bcl -2/Bcl-xL ou d'un inhibiteur de Bcl-2 ou d'un inhibiteur de Bcl-xL dans le traitement de patients atteints de cancer. L'invention concerne également des compositions, par exemple, des kits, pour évaluer les niveaux de gènes des biomarqueurs et des méthodes d'utilisation de tels niveaux de gènes pour prédire une réponse d'un patient cancéreux aux inhibiteurs de MDM2 ou aux doubles inhibiteurs de Bcl-2/Bcl-xL ou à un inhibiteur de Bcl -2 ou à un inhibiteur de Bcl-xL. De telles informations peuvent être utilisées pour déterminer des options de pronostic et de traitement pour des patients atteints d'un cancer.

Also published as
CN112852959

EN_AB:(biomarker NEAR10 cancer)

Single Family Member false Include NPL false

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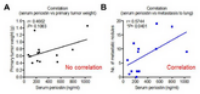
Multi-columns

ILLARY WESTERN BLOT ASSAY KR - 29.08.2017

RY COLLABORATION FOUNDATION **Inventor** SHEEN, YHUN YHONG

biomarkers using capillary western blot assay. According to the present invention, cancer biomarkers or cancer metastasis biomarkers can be eful for initial diagnosis and clinical stage judgment of cancer. COPYRIGHT KIPO 2017



LUNG CANCER US - 12.03.2015

ames

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NO IMAGE AVAILABLE

3. WO/2020/160108 LIPID BIOMARKERS FOR CANCER SCREENING AND MONITORING WO - 06.08.2020

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NO IMAGE AVAILABLE

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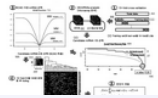

EN_AB:(biomarker NEAR10 cancer)

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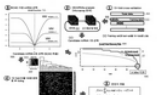

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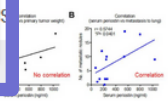

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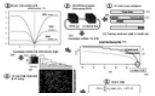
The present invention relates to a method for discovery of a novel miRNA biomarker for cancer diagnosis, a biomarker for diagnosis of bile duct cancer or pancreatic cancer which has been discovered through the method for discovery of a biomarker, a method for diagnosing cancer, comprising a step in which cancer is diagnosed when f(x) > 0 by substitution of the expression level of the miRNA biomarker, which is detected by the method for discovery of an miRNA biomarker for cancer diagnosis, in a sample into a novel SVM classifier function, a kit for diagnosing bile duct cancer or pancreatic cancer comprising the biomarker for diagnosing bile duct cancer or pancreatic cancer, and a computing device for performing a process of diagnosing cancer when f(x) > 0 as a result of a calculation by substitution of the expression level of an miRNA biomarker, which is detected by the method for discovery of an miRNA biomarker for cancer diagnosis, into the novel SVM



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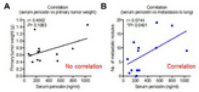
1. **1020170097956** METHOD FOR SCREENING CANCER BIOMARKERS BY USING CAPILLARY WESTERN BLOT ASSAY — KR - 29.08.2017

Int.Class G01N 33/574 **Appl.No** 1020160019700 **Applicant** EWHA UNIVERSITY - INDUSTRY COLLABORATION FOUNDATION **Inventor** SHEEN, YHUN YHONG

The present invention relates to a method for screening cancer biomarkers or cancer metastasis biomarkers using capillary western blot assay. According to the present invention, cancer biomarkers or cancer metastasis biomarkers can be rapidly and precisely screened. Accordingly, the method can be used for developing biomarkers useful for initial diagnosis and clinical stage judgment of cancer. COPYRIGHT KIPO 2017



2. **20150072890** METHODS AND COMPOSITIONS FOR AIDING IN THE DETECTION OF LUNG CANCER — US - 12.03.2015

Int.Class C12Q 1/68 **Appl.No** 14483503 **Applicant** William James **Inventor** William James

A lung cancer biomarker panel comprising an microRNA (miRNA) lung cancer biomarker and at least one additional lung cancer biomarker selected from a tumor protein (TP) lung cancer biomarker and/or a autoantibody (AAB) lung cancer biomarker is provided herein and methods for screening patients for lung cancer. The present lung cancer biomarker panel provides an improvement in sensitivity and diagnostic accuracy for lung cancer as compared to a lung cancer biomarker panel without the miRNA biomarkers.

3. **WO/2020/160108** LIPID BIOMARKERS FOR CANCER SCREENING AND MONITORING — WO - 06.08.2020

Int.Class G01N 33/92 **Appl.No** PCT/US2020/015617 **Applicant** ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA **Inventor** CHILTON, Floyd H.

Provided herein are biomarkers for cancer screening and monitoring. In particular, provided herein are lipid biomarkers for cancer diagnosis, prognosis, risk, and response to treatment.

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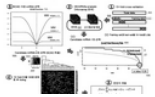

EN_CL:(biomarker NEAR10 cancer) AND DP:[2018 TO 2021]

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1 / 8

1. 20180188252 METHODS FOR DIAGNOSIS AND PROGNOSIS OF EPITHELIAL CANCERS — US - 05.07.2018

Int.Class G01N 33/574 Appl.No 15675151 Applicant Children's Medical Center Corporation
Inventor BRUCE R. ZETTER

The present invention is based on the discovery that three proteins, Cystatin B, Chaperonin 10, and Profilin are present in the urine of patients with bladder cancer, a cancer of epithelial origin. Accordingly, the present invention is directed to methods for prognostic evaluation of cancers of epithelial origin and to methods for facilitating diagnosis of cancers of epithelial origin

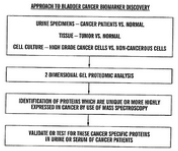

FIG. 1

2. 2020202066 METHODS AND COMPOSITIONS FOR DETECTING PANCREATIC CANCER — AU - 09.04.2020

Int.Class G01N 33/574 Appl.No 2020202066 Applicant Creatics LLC Inventor

The present invention relates to non-invasive methods for the diagnosis and prognosis of pancreatic cancer. In some embodiments, such methods and compositions relate to particular pancreatic cancer biomarkers and combinations thereof.

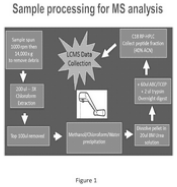

Figure 1

3. 20180282815 COLORECTAL CANCER SCREENING METHOD AND DEVICE — US - 04.10.2018

Int.Class C12Q 1/6886 Appl.No 15570507 Applicant GENEOSCOPY, LLC Inventor Erica BARNELL

Provided herein are compositions and methods for diagnosis and treatment of colorectal cancer. Methods and kits for detection of colorectal cancer biomarker genes in a stool sample are provided.

1. US20180188252 - METHODS FOR DIAGNOSIS AND PROGNOSIS OF EPITHELIAL CANCERS

National Biblio. Data | Description | Claims | Drawings | Patent Family | Compounds | Documents

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[EN]

Claims

1. A method for facilitating the diagnosis of a patient for a cancer of epithelial origin comprising:
a. obtaining a biological sample from the patient; and
b. detecting the presence or absence of at least one epithelial cancer biomarker in the biological sample,
wherein the presence of at least one epithelial cancer biomarker is indicative of cancer of epithelial origin, and wherein the epithelial cancer biomarker is selected from the group consisting of Cystatin B, Chaperonin 10, and Profilin.
2. A method for diagnosing a cancer of epithelial origin in a patient comprising:
a. measuring at least one epithelial cancer biomarker levels present in a biological sample obtained from the patient, a test sample;
b. comparing the level of at least one epithelial cancer biomarker in the test sample with the level of epithelial cancer biomarker present in a control sample;
wherein a higher level of at least one epithelial cancer biomarker in the test sample as compared to the level of epithelial cancer biomarker in the control sample is indicative of cancer of epithelial origin, and wherein the epithelial cancer biomarker is selected from the group consisting of Cystatin B, Chaperonin 10, and Profilin.
3. The method of **claim 1**, wherein the cancer of epithelial origin is selected from the group consisting of breast cancer, basal cell carcinoma, adenocarcinoma, gastrointestinal cancer, lip cancer, mouth cancer, esophageal cancer, small bowel cancer, stomach cancer, colon cancer, liver cancer, bladder cancer, pancreas cancer, ovary cancer, cervical cancer, lung cancer, skin cancer, prostate cancer, and renal cell carcinoma.
4- **6**. (canceled)
7. The method of **claim 1**, wherein the biological sample is urine.
8. The method of **claim 1**, wherein the presence or absence of at least
one epithelial cancer biomarker or Cystatin B is detected using an antibody-based binding moiety which specifically binds to at least one epithelial cancer biomarker or to Cystatin B.
9. The method of **claim 2**, wherein the level of at least one
epithelial cancer biomarker or Cystatin B is measured by measuring the protein level of at least one epithelial cancer biomarker protein or Cystatin B.
10. The method of **claim 9**, wherein the protein level of epithelial cancer biomarker or level of Cystatin B is measured by a method comprising the steps of:
a. contacting the test sample, or preparation thereof, with an antibody-based binding moiety which specifically binds the epithelial cancer biomarker or to

EN_AB:(biomarker NEAR10 cancer)

4. 8 results Offices all Languages all Stemming true Single Family Member false Include NPL false

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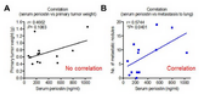

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Int.Class C12Q 1/68 **Appl.No** 14483503 **Applicant** William James **Inventor** William James

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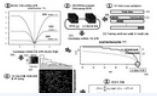

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ANALYSIS

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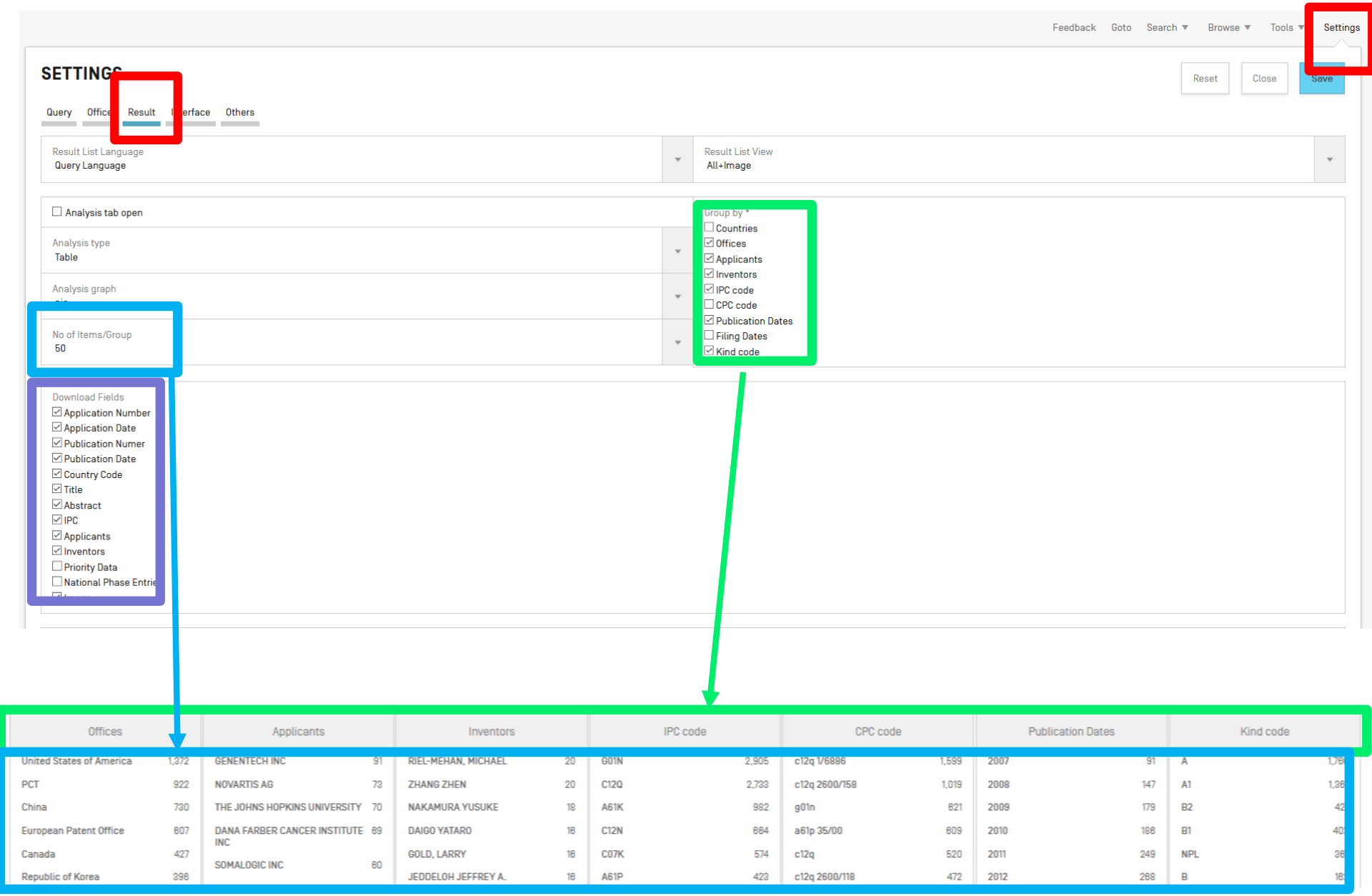
Offices		Applicants		Inventors		IPC code		CPC code		Publication Dates		Kind code	
United States of America	1,372	GENENTECH INC	91	RIEL-MEHAN, MICHAEL	20	G01N	2,905	c12q 1/6886	1,599	2007	91	A	1,788
PCT	922	NOVARTIS AG		ZHANG ZHEN	20	C12Q	2,733	c12q 2600/158	1,019	2008	147	A1	1,381
China	730			NAKAMURA YUSUKE	18	A61K	982	g01n	821	2009	179	B2	421
European Patent Office	607	DANA FARBER CANCER INSTITUTE INC	69	DAIGO YATARO	18	C12N	884	a61p 35/00	809	2010	186		2
Canada	427	SOMALOGIC INC	60	GOLD, LARRY	18	C07K	574	c12q	520	2011	249	NPL	1
Republic of Korea	398	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	57	JEDDELOH JEFFREY A.	18	A61P	423	c12q 2600/118	472	2012	268	B	162
Australia	222	BAYER PHARMA AG	52	KORSHUNOVA YULIA	18	G06F	252	g01n 2800/52	484	2013	287	A4	140
India	139	GENOMIC HEALTH INC	40	MALONEY REBECCA	18	C40B	185	c12q 2600/106	435	2014	333	T3	41
Mexico	121	MYRIAD GENETICS INC	38	PENA, CAROL	18	C07H	115	g01n 33/57484	314	2015	318	A2	40
Japan	114	BAYER HEALTHCARE LLC	35	FUNG ERIC THOMAS	15	A61B	98	c12q 2600/178	289	2016	337	C	30
Singapore	97	MEMORIAL SLOAN KETTERING CANCER CENTER	33	BUDIMAN MUHAMMAD A.	14	G16H	70	c12q 2600/156	275	2017	387	A3	13
Russian Federation	67	TRIPATH IMAGING INC	33	MORGAN, RICHARD	13	G16B	65	c12q 2600/112	267	2018	463	C1	10
Israel	48	ONCOTHERAPY SCIENCE INC	29	NAKAMURA, YUSUKE	13	C12P	54	a61p	223	2019	510	C2	10
New Zealand	38	OSLO UNIVERSITETSSYKEHUS HF	29	RIEL-MEHAN MICHAEL	13	C12M	48	g01n 33/57423	221	2020	627	A5	7
Germany	30	THE UNIVERSITY OF SURREY	29	CHENG, JIE	12	C07D	39	g01n 33/57415	214	2021	201	B8	5



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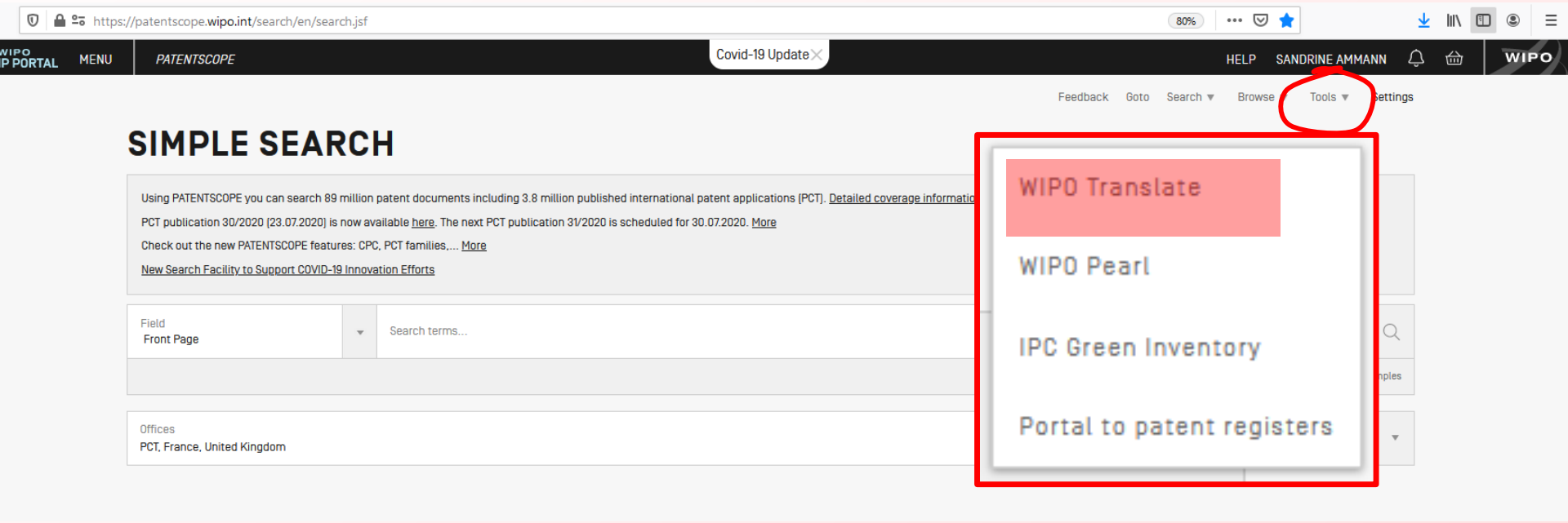
Republic of Korea	398			JEDDELOH JEFFREY A.	18	A61P	423	c12q 2600/118	472	2012	268	B	16

Tools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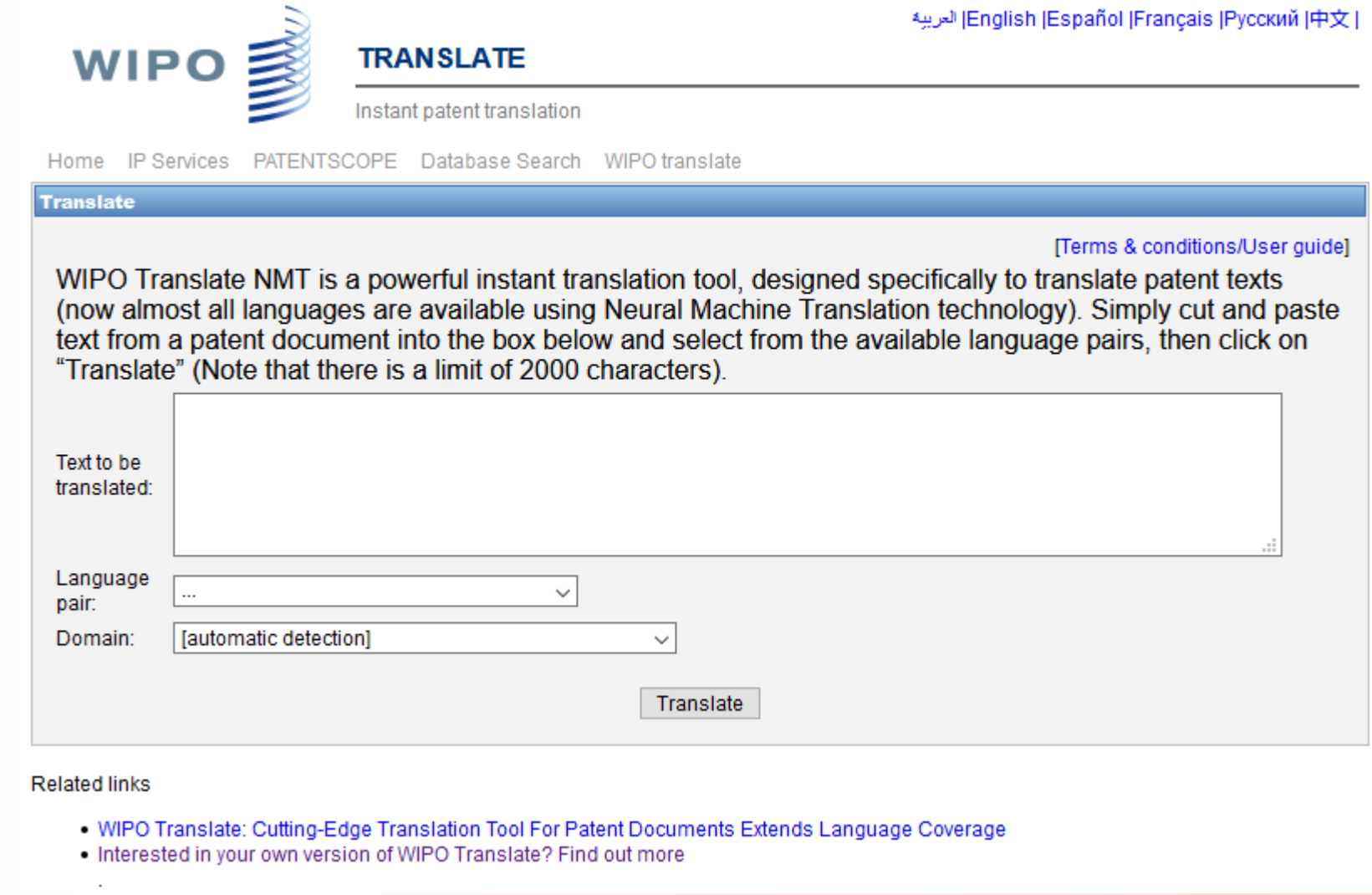

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Language pair: Chinese->English (Neural MT)

Domain: AUTO-Automotive & Road Vehicle Engineering

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the walking of wiring personnel is reduced , so that the working efficiency is improved , the mounting plate and the groove are in a vertical state , and the mounting plate is clamped on the surface of the groove

the walking of wiring personnel is reduced, **and therefore the working efficiency is improved;** the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove

the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in **the** vertical state, and the mounting plate is clamped on the surface of the groove

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and the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove

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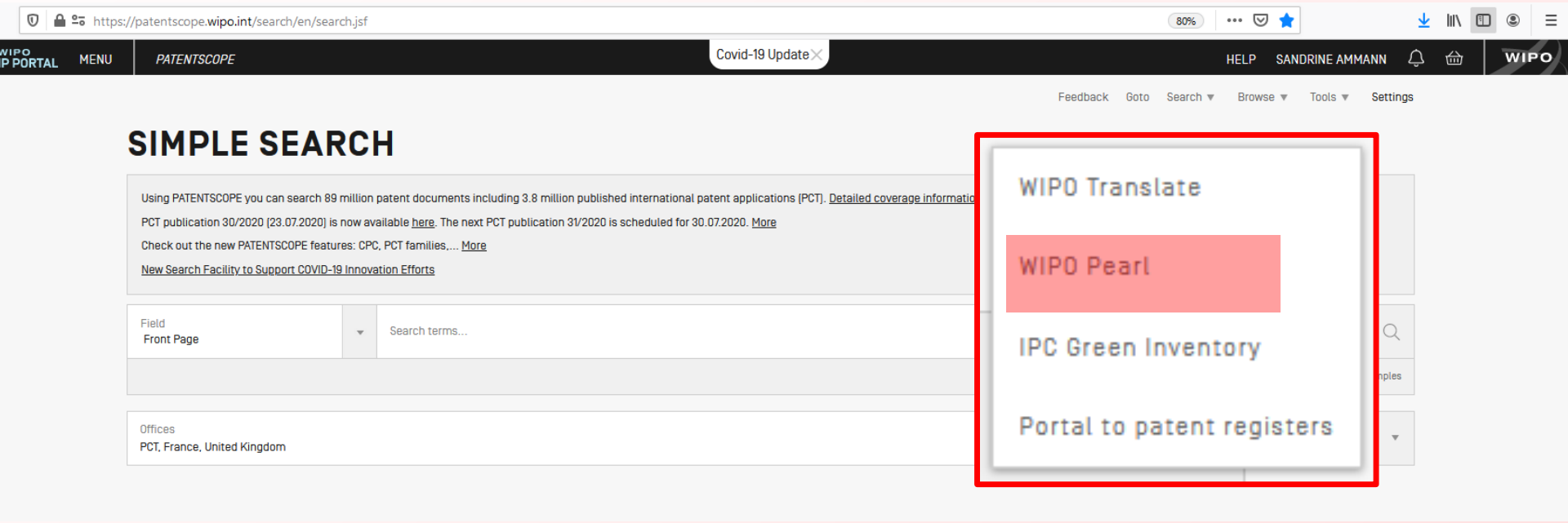
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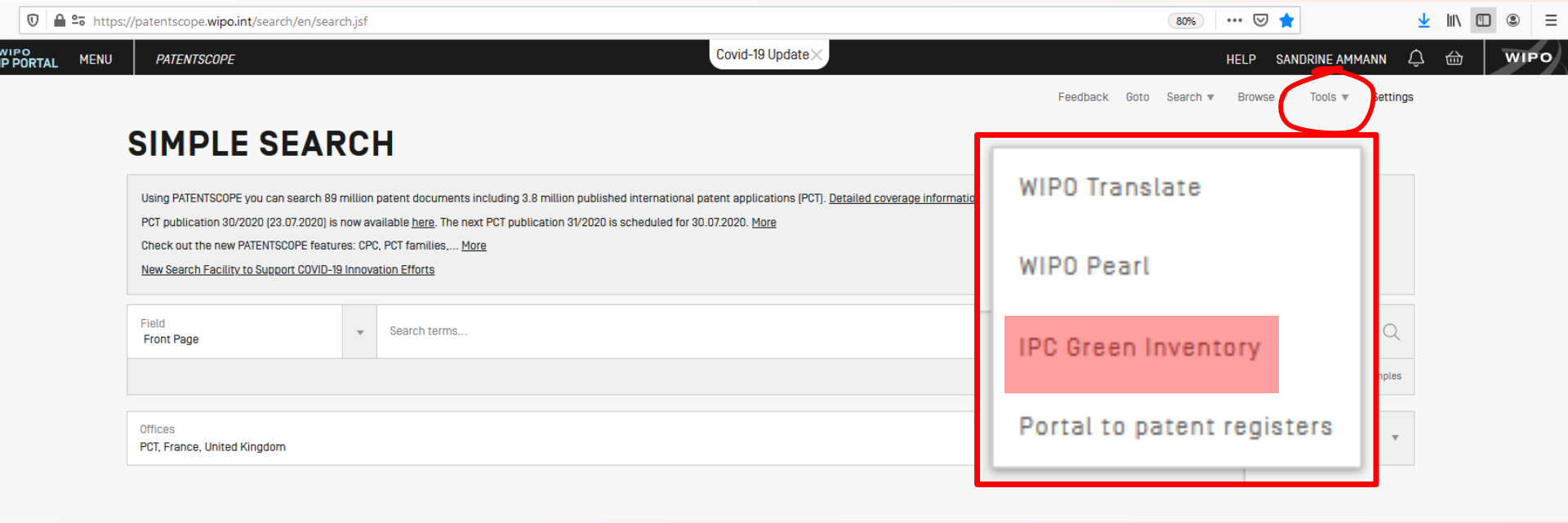

IPC Green Inventory

The "IPC Green Inventory", developed by the IPC Committee of Experts, facilitates searches for patent information relating to Environmentally Sound Technologies (ESTs), as listed by the United Nations Framework Convention on Climate Change (UNFCCC).

ESTs are currently scattered widely across the IPC in numerous technical fields. The Inventory attempts to collect them in one place.

Warning - the Inventory does not purport to be fully exhaustive in its coverage.

Tips!

- The ESTs are presented in a hierarchical structure. Click on the ▸ sign to open the hierarchy.
- The links in the "IPC" column will take you to the corresponding place in the scheme.
- The links in the PATENTSCOPE column let you automatically search and display all international patent applications available through PATENTSCOPE which are classified in the relevant IPC place. Note: search results may include irrelevant results not relating to the EST.

▸ More tips

TOPIC	IPC	PATENTSCOPE
◂ **ALTERNATIVE ENERGY PRODUCTION**		
▸ Bio-fuels		
Integrated gasification combined cycle (IGCC)	C10L 3/00 F02C 3/28	C10L 3/00 F02C 3/28
▸ Fuel cells	H01M 4/86-4/98, 8/00-8/24, 12/00-12/08	H01M 4/86-4/98, 8/00-8/24, 12/00-12/08
Pyrolysis or gasification of biomass	C10B 53/00 C10J	C10B 53/00 C10J

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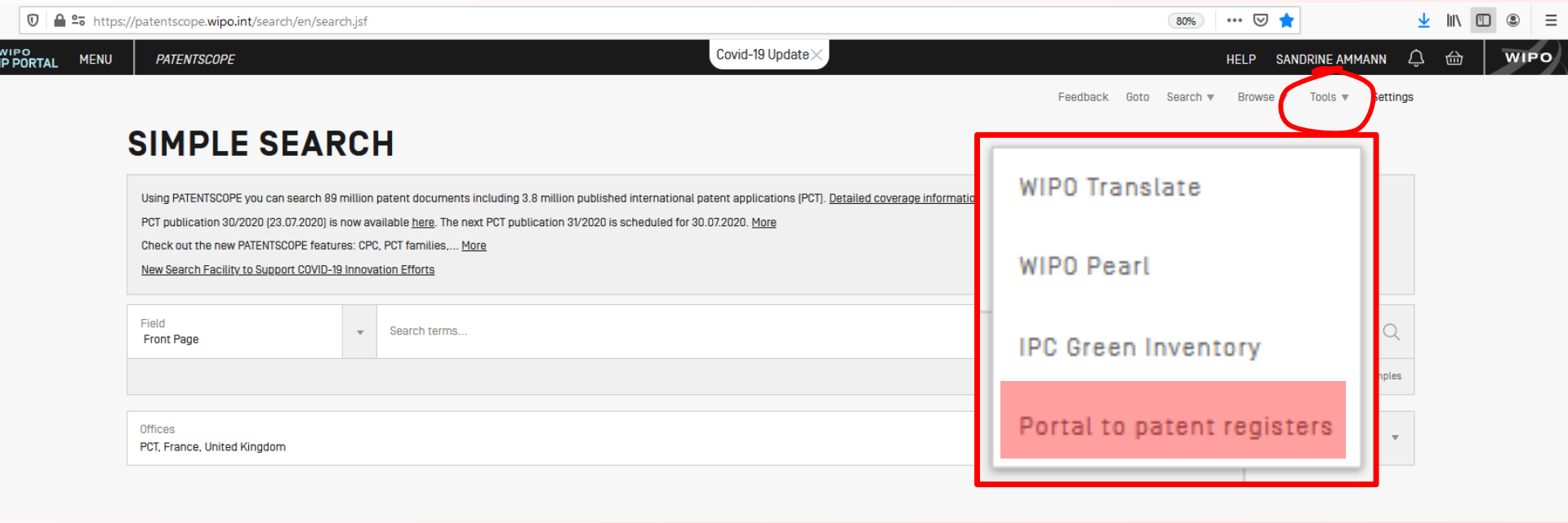

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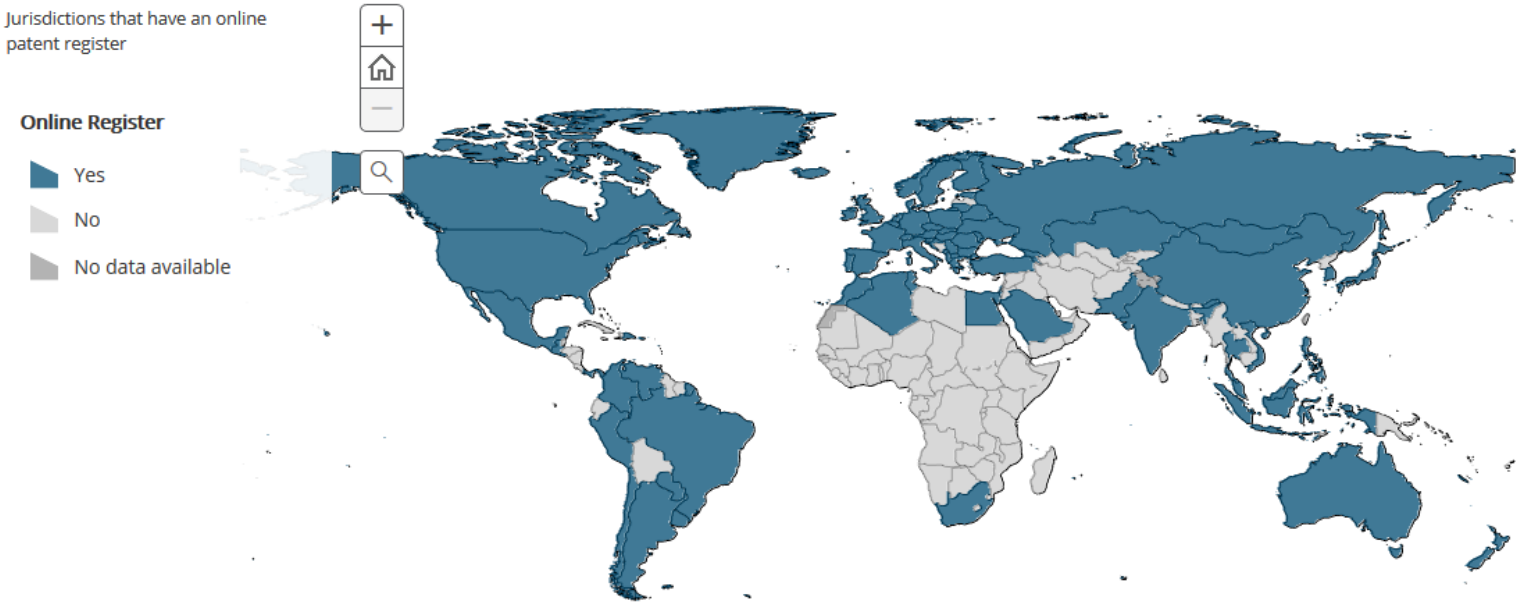
Online Register | Online Gazette | English Interface | PCT Application/Publication Number | Inventor/Applicant Name | Priority Data | Fee Payment

Jurisdictions that have an online patent register



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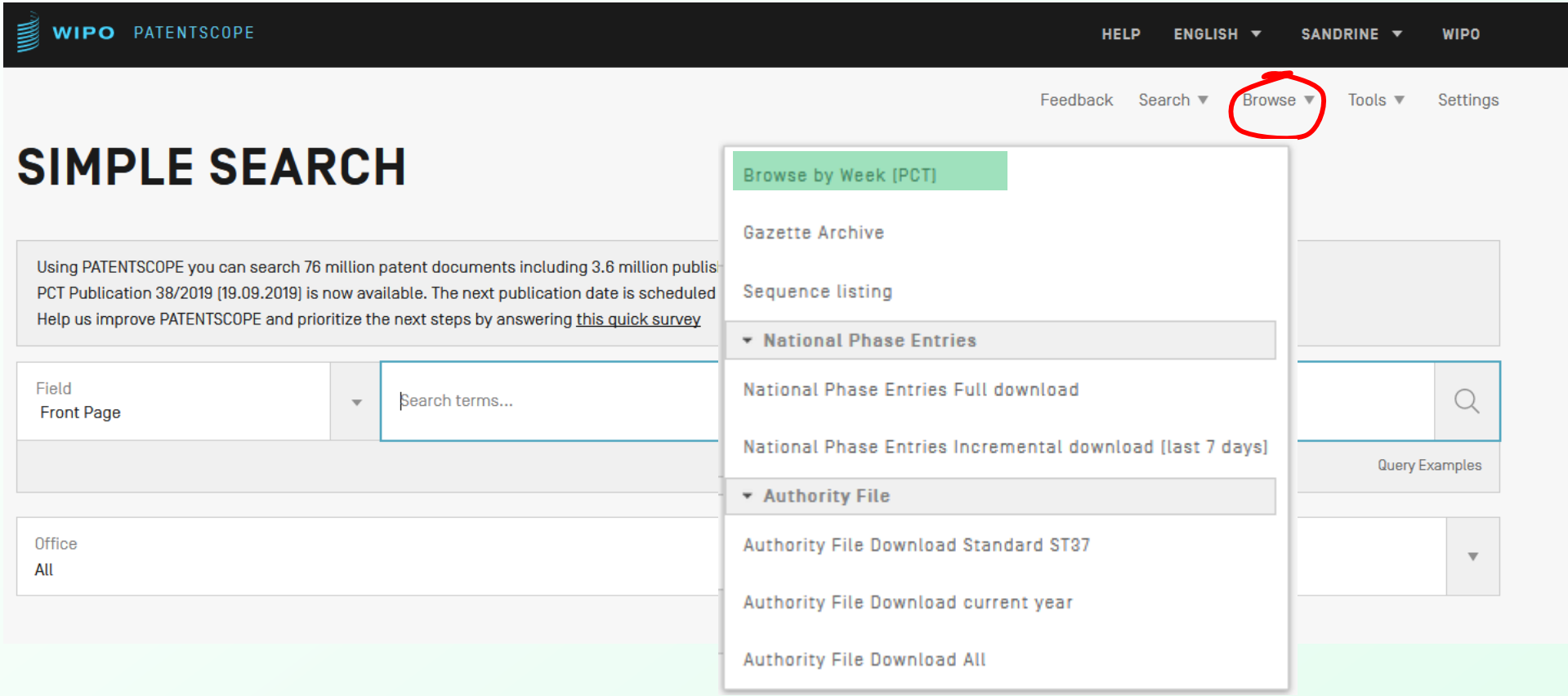
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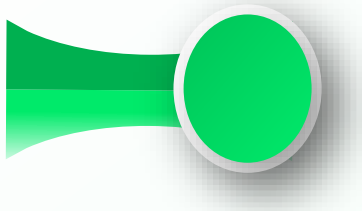

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Title	Kind	Appl.No	IPC	Applicant
1. WO/2019/174287 SLAG RESIDUAL HEAT UTILIZATION DEVICE AND MOLTEN SLAG GRANULATION METHOD	Initial Publication with ISR[A1]	CN2018/1151...	F27D 17/00	NANJING YOU RONG ENERGY-SAVING TECHNOLOGY CO., LTD
2. WO/2019/174288 TOUCH PANEL, PRESSURE TOUCH DETECTION METHOD THEREFOR, AND TOUCH DEVICE	Initial Publication with ISR[A1]	CN2018/1154...	G06F 3/041	BOE TECHNOLOGY GROUP CO., LTD.
3. WO/2019/174290 ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREFOR, AND DISPLAY DEVICE	Initial Publication with ISR[A1]	CN2018/1157...	H01L 27/32	BOE TECHNOLOGY GROUP CO., LTD.
4. WO/2019/174291 CONTROL METHOD FOR PORTABLE READ-WRITE PEN AND PORTABLE READ-WRITE PEN	Initial Publication with ISR[A1]	CN2018/1159...	G06F 3/033	MPEN TECHNOLOGY (SHENZHEN) CO., LTD.
5. WO/2019/174292 PRINT, AND PRODUCTION METHOD AND PRODUCTION SYSTEM FOR TOUCH-AND-TALK CONTENT OF PRINT	Initial Publication with ISR[A1]	CN2018/1159...	G09B 5/06	MPEN TECHNOLOGY (SHENZHEN) CO., LTD

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☐	A61P 35/00	62	53	78	63	44	300	-19	-20.00
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☐	G06K 9/00	62	34	32	42	37	207	-5	-5.50
☐	H04W 72/04	17	26	50	50	35	178	-15	-.75
☐	H04L 29/06	48	33	49	101	33	264	-68	-24.75
☐	H04N 19/70	18	5	5	29	31	88	+2	+16.75
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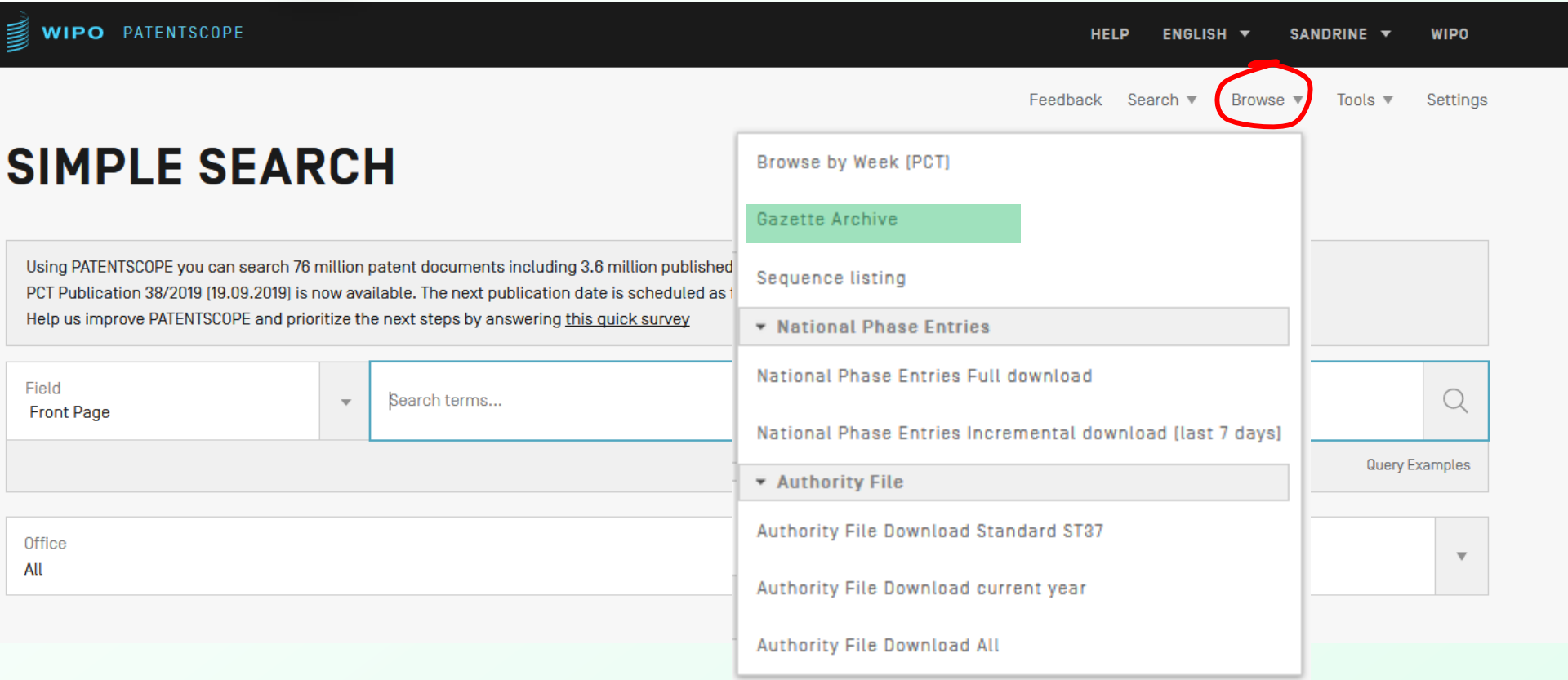
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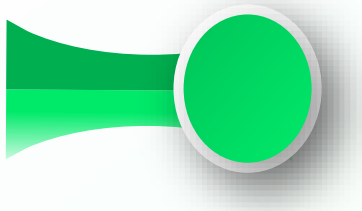

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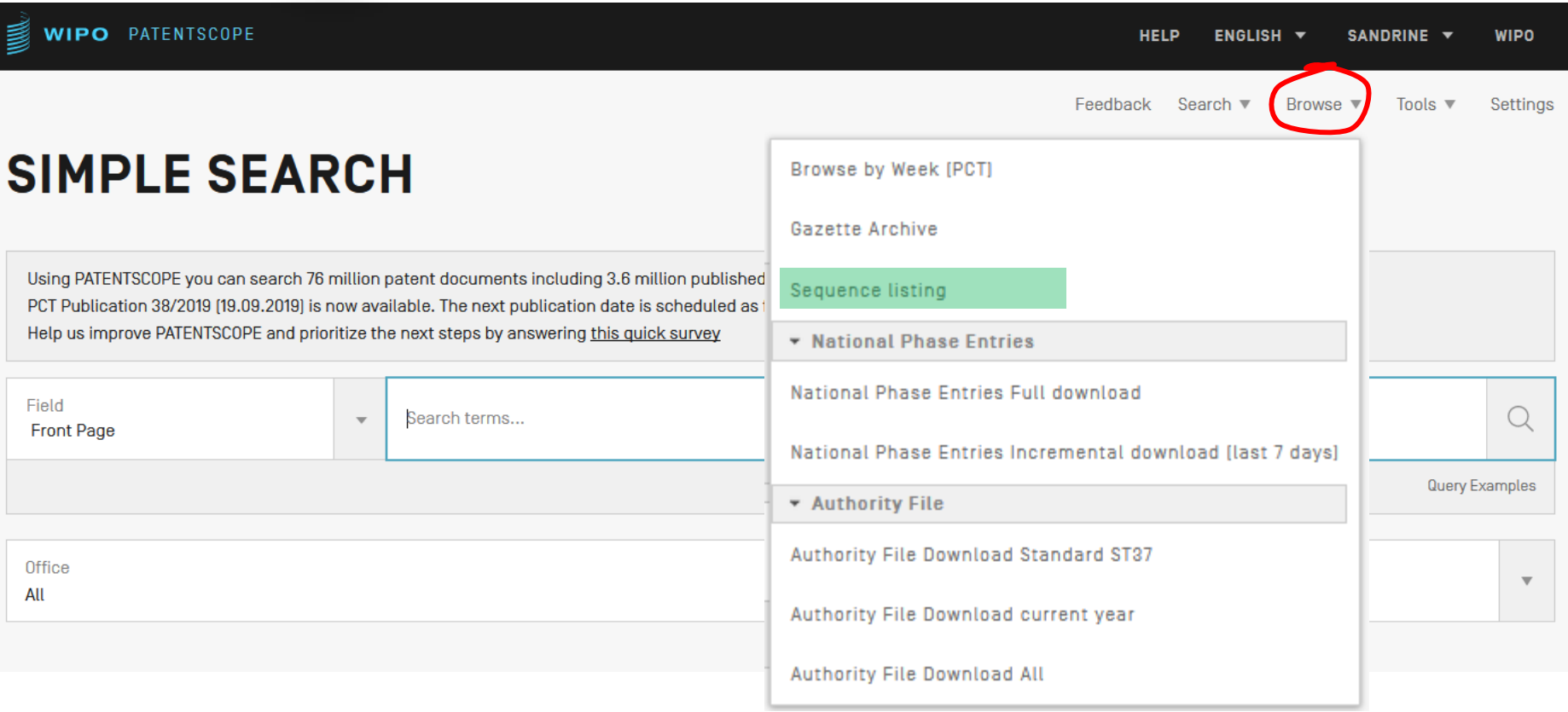

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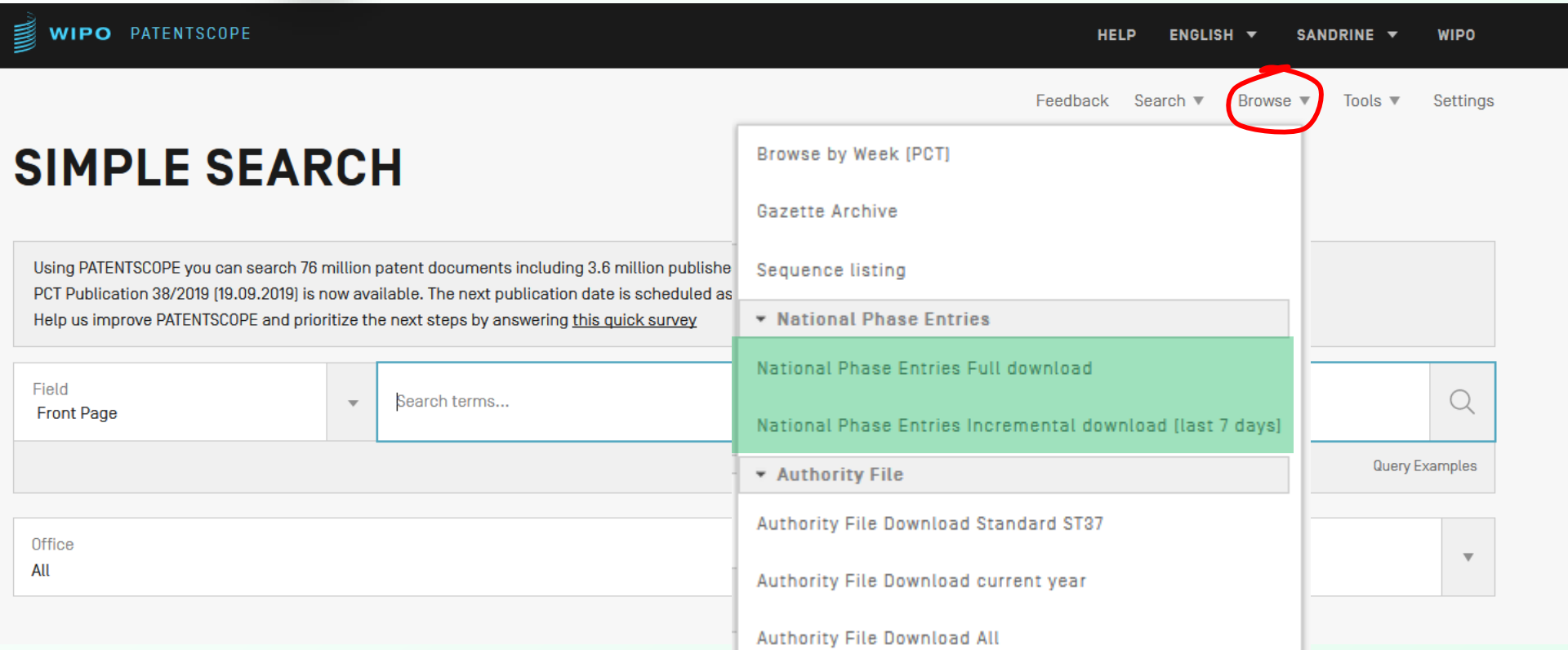
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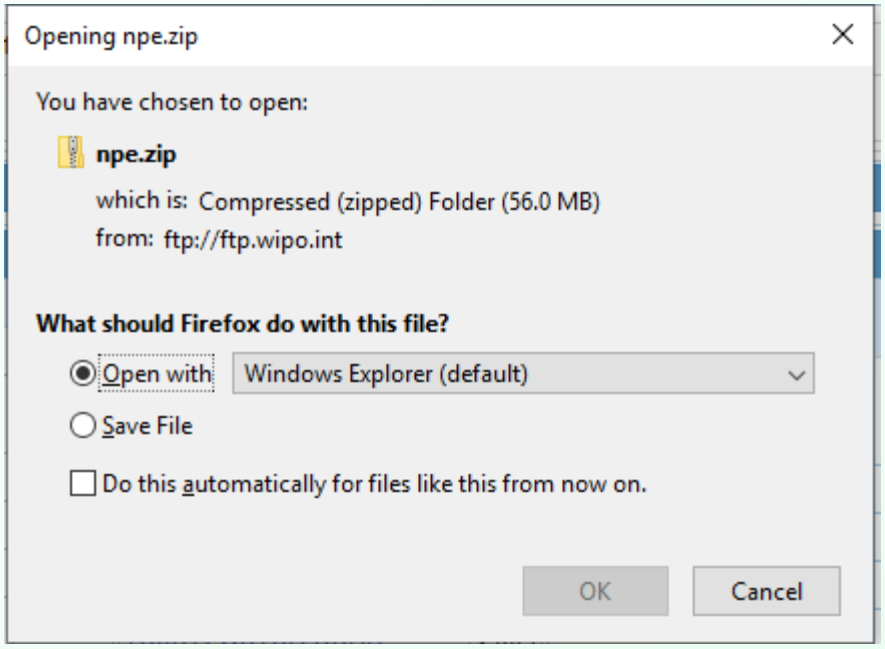
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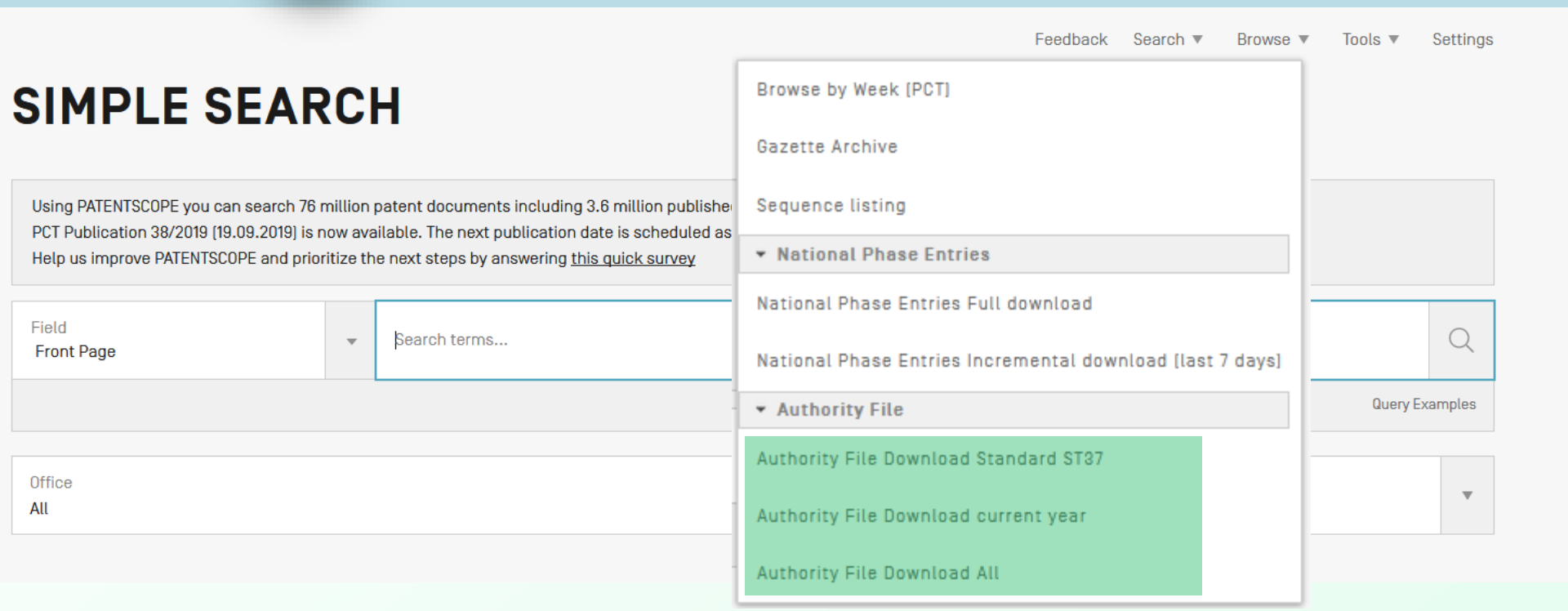
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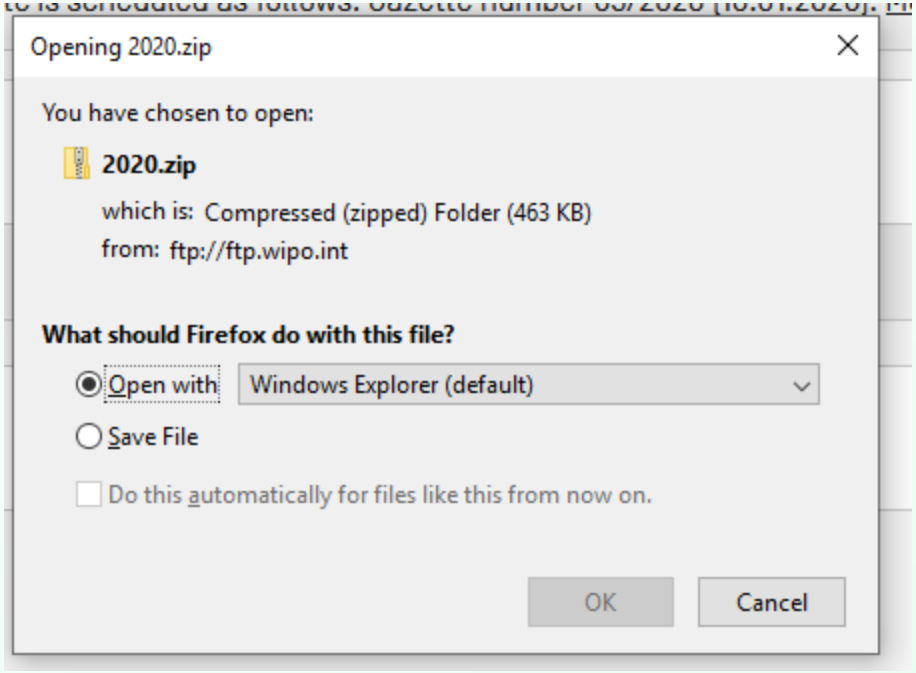
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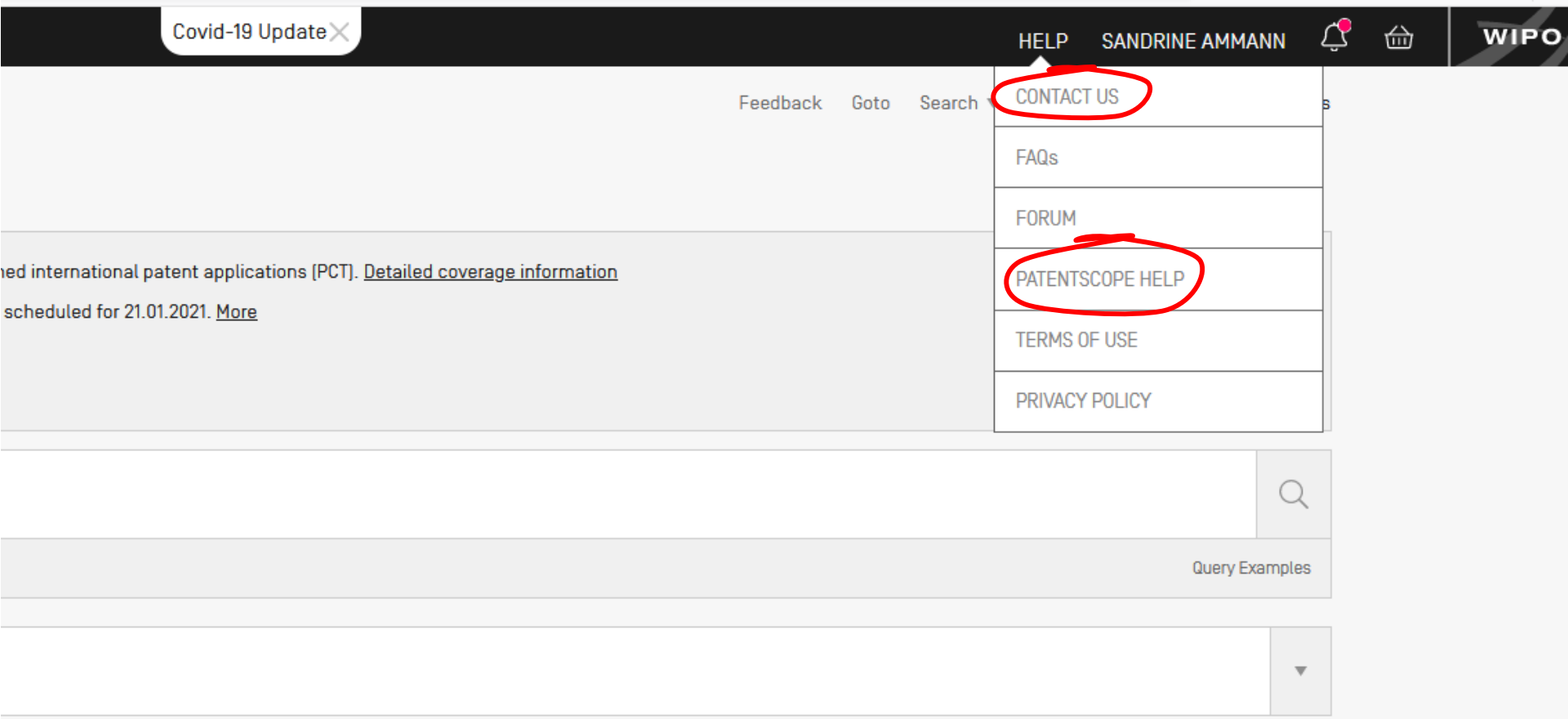
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14.01.2021 - [WIPO webinar] Overview of PATENTSCOPE

Updated: July 12, 2021

Country	Biblio Data	Abstract	Doc images	OCR [full-text] Indexed		Nb records
PCT	19.10.1978 - 08.07.2021	19.10.1978 - 08.07.2021	4,093,397	**Total:** English: French: Spanish: German: Korean: Japanese: Chinese: Russian: Portuguese:	**4,088,817** 2,330,866 137,245 28,002 407,786 129,066 681,188 348,252 21,049 5,363	4,093,397
African Regional Intellectual Property Organization (ARIPO)	03.07.1985 - 28.07.2008	03.07.1985 - 28.07.2008	1,676	**Total:** English:	**1,671** 1,671	1,868
Argentina	11.02.1965 - 26.05.2021	31.10.1990 - 26.05.2021	9,741	**Total:** Spanish:	**8,906** 8,906	167,040
Australia	14.01.1900 - 08.07.2021	08.01.1981 - 08.07.2021		**Total:** English:	**674,659** 674,659	1,780,874
Bahrain	09.03.1957 - 28.09.2005	09.03.1957 - 28.09.2005				1,411
Brazil	25.04.1972 - 22.06.2021	25.04.1989 - 22.06.2021	230,201	**Total:** Portuguese:	**228,879** 228,879	837,902
Brunei Darussalam	14.03.1979 - 15.06.2020	30.06.1992 - 15.06.2020				1,458
Bulgaria	15.02.1973 - 31.12.2020	15.09.1987 - 31.12.2020				51,611
Cambodia	27.05.2009 - 09.08.2019	27.05.2009 - 09.08.2019				60
Canada	11.08.1869 - 03.07.2021	06.02.1973 - 03.07.2021		**Total:** English:	**1,245,673** 1,198,435	2,448,884

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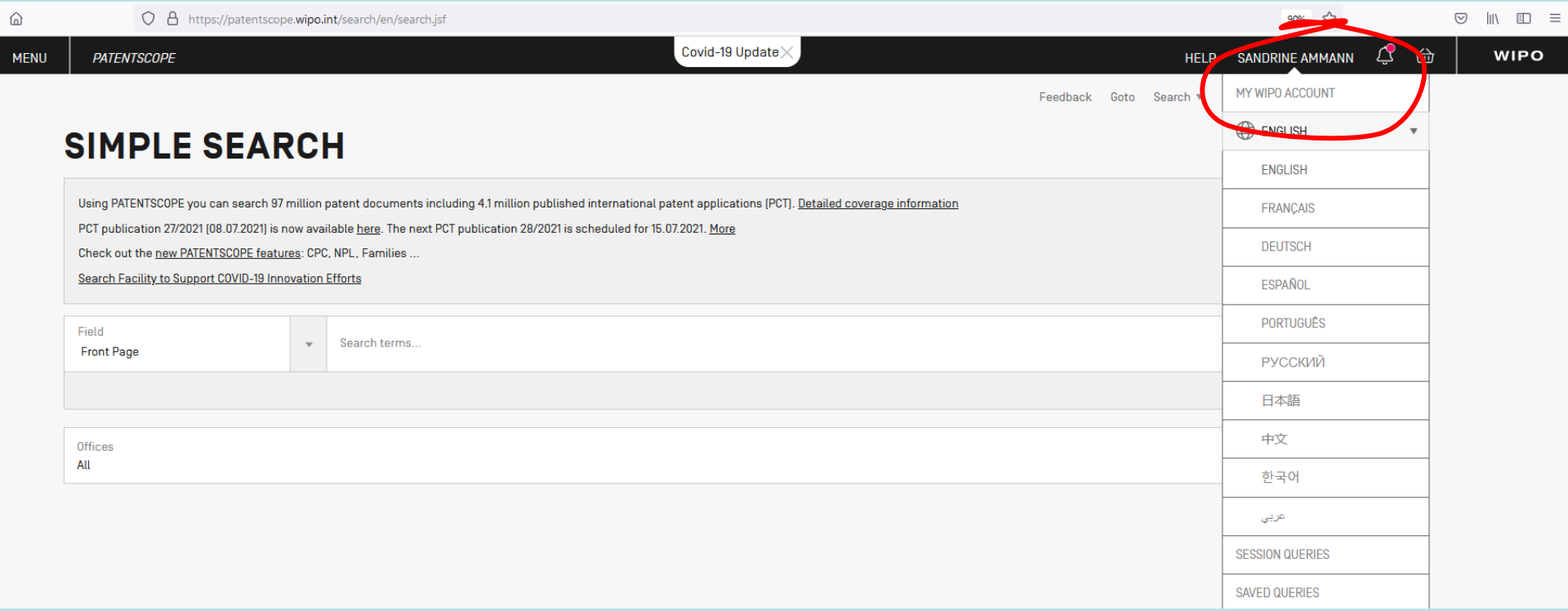

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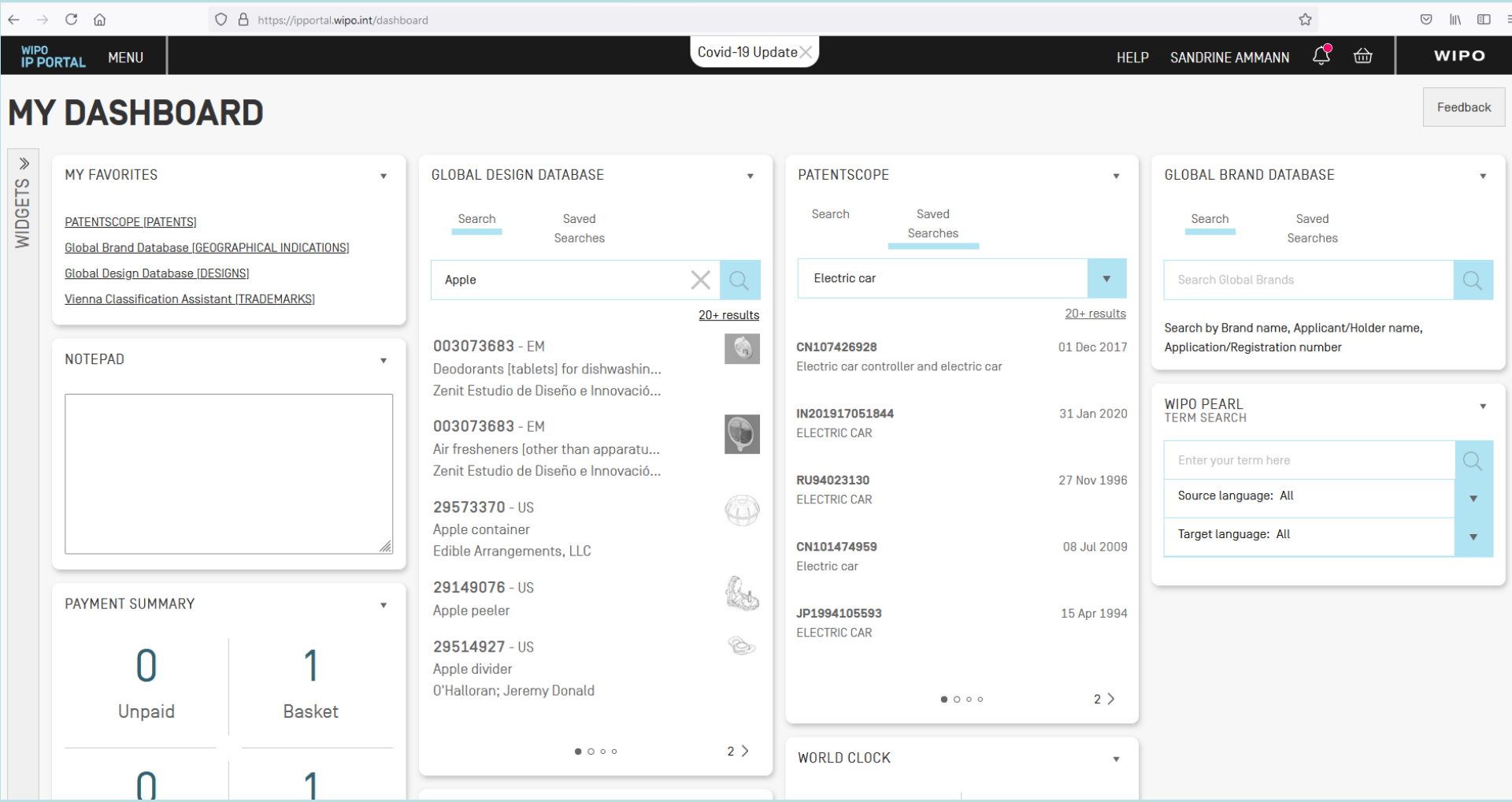

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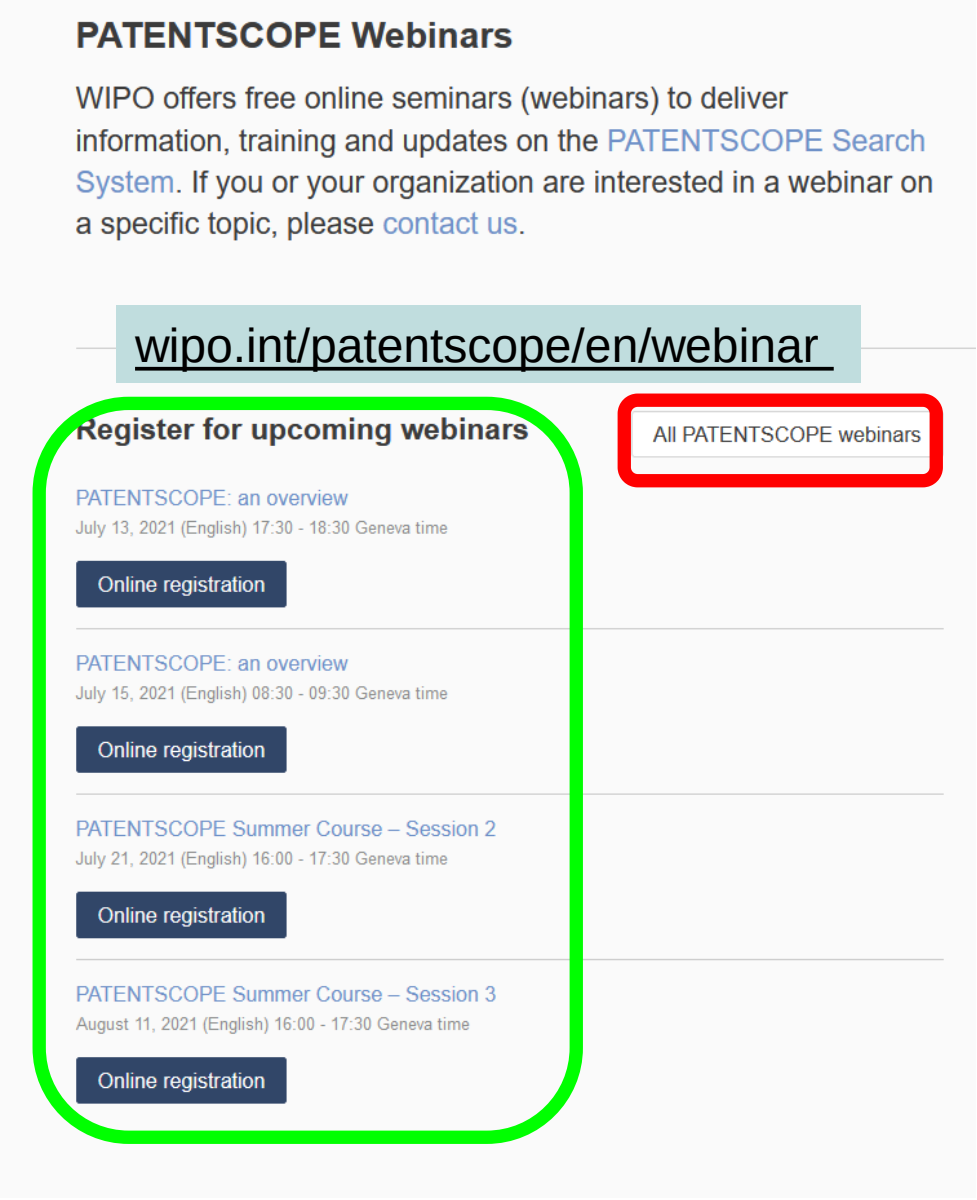

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PATENTSCOPE Summer Course – Session 2
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- IPC & CPC in PATENTSCOPE
  - August 17 at 5:30 pm or August 19 at 8:30am to 9:30 am

- Summer courses:
  - Session 1: July 7 - search fields, combination of those fields, use of (…)
  - **Session 1: July 14 - search fields, combination of those fields, use of (…)**
  - Session 2: July 21- caret, stemming, wildcards, truncation, fuzzy
  - Session 3: August 11- narrowing down the results, NPL, families
  - Session 4: August 24 – combination of different searches

Global Brand Database, Global Design Database

Webinars:

- https://www.wipo.int/reference/en/branddb/webinar/index.html
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