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### 診斷醫材領域 Medical Examination Devices

No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
1	101A04-05	劉烈邦 LIEH-PANG LIU	免疫球蛋白G的阿爾發2,6唾液酸絕對值之檢測 <b>Method for Measuring Sialic Acid Absolute Value in Immunoglobulin G:</b> An examination method that measures the IgG α2,6-sialic acid absolute value using human blood.	Taiwan	Invention	TW I518328
			免疫球蛋白G抗雙股去氧核糖核酸抗體的阿爾發2,6 唾液酸量之檢測方法 <b>Method for measuring sialic acid in immunoglobulin G and immunoglobulin G anti-double-stranded DNA antibodies:</b> A method for measuring the amount of sialic acid in immunoglobulin G and immunoglobulin G anti-ds DNA antibodies.	Taiwan	Invention	TW I579563
			USA	Invention	US 8790884	

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2	103A25-28	郭和昌 HO-CHANG KUO	用於檢測川崎病的方法及套組 <b>The Diagnosis Kit for Kawasaki Disease:</b> Kits for detecting Kawasaki disease, containing an agent for sequencing or measuring the expression level of one or more of the following: miR-941, miR-182-5p and miR-183-5p are provided.	USA	Invention	US 10358676
				Japan	Invention	JP 6816963
				China	Invention	CN 106047991B
				Hong Kong	Invention	HK 1225759B
3	104A21	張璧月 PI-YUEH CHANG	評估罹患大腸直腸癌風險的方法 <b>Method For Accessing The Risk of Having Colorectal Cancer:</b> A new examination method that evaluates the risk of having colorectal cancer by measuring a new set of biomarkers in the human blood or stool sample.	Taiwan	Invention	TW I626314
4	96A04-05	王子豪 TZU-HAO WANG	<b>STIP1於卵巢腫瘤與子宮內膜異位症之相關應用</b> <b>Stress-induced phosphoprotein 1 as a biomarker for the detection of human ovarian cancers and endometriosis:</b> A method for the detection, preliminary screening or monitoring of a gynecological disease selected from ovarian cancers and endometriosis, in which STIP1 is used as a biomarker for the gynecological disease.	USA	Invention	US 7851230

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5	P10435	林潔欣 CHIEH-HSIN LIN	診斷阿茲海默氏症的方法 <b>Methods For Diagnosing And Treating Alzheimer's Disease Using G72 Protein And SLC7A11 mRNA As Biomarkers:</b> Diagnosing the human subject with Alzheimer's Disease when the G72 protein level is higher than the first predetermined standard and the SLC7A11 mRNA expression level is higher than the second predetermined standard.	China	Invention	CN 108414765B
				Germany	Invention	EP 3361257B
				France	Invention	EP 3361257B
				United Kingdom	Invention	EP 3361257B
				Taiwan	Invention	TW I706135
				USA	Invention	US 10473672
6	P10436	葉昭廷 CHAU-TING YEH	預測病人對肝癌治療方法之療效分析方法 <b>Methods And Kits For Predicting The Responsiveness of Hepatocellular Carcinoma Patients to 5-Fluorouracil-Based Combination Chemotherapy:</b> Biological sample derived from the patient is processed to determine the presence of a T/T genotype of rs9679162 GALNT14 gene. The presence of the above-identified genotype is an indication that the patient is responsive to the 5-FU-based combination chemotherapy.	USA	Invention	US 8709720

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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
7	P10505	林佳霓 CHIA-NI LIN	早期偵測流感病毒感染後發展成重症的指標 <b>Method For Predicting The Severity of Influenza A At An Early Stage:</b> Measure and compare the expression levels of 14 different bio-markers to predict if the influenza A infection will progress into critical stage.	Taiwan	Invention	TW I765350
8	P10507	鐘文宏 WEN-HONG ZHONG	鑑定藥物過敏反應之致敏藥物的方法與鑑定套組 <b>Method and Identification Kit for Identifying Causative Drug for Drug Hypersensitivity Reaction:</b> The expression levels of the granulysin protein, polypeptide or mRNA in the reactants are detected and compared with the control values, then the degree that the suspicious drug or the metabolites thereof activate lymphocytes can be identified, thus identifying the sensitizing drug that initiates the drug allergic reaction.	Australia	Invention	AU 2015413017B
				Japan	Invention	JP 6726278B
				Korea	Invention	KR102131543B
				Singapore	Invention	SG 11201803579VA
				Taiwan	Invention	TW I606237

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9	P10518	王東弘 TONG HONG WANG	用於預測一帶有一癌症的人類個體的存活時間的方法 <b>Method For Predicting Survival Time of A Human Subject With A Cancer:</b> Measure and compare the IncRNA AOC4P expression level of a tumor and its surrounding tissue. The difference ratio is verified to have positive correlation with survival rate.	Taiwan	Invention	TW I619945
10	P10534	郭明澤 MING-TSE KUO	檢測角膜炎病原體的核酸分子、檢驗套組、生物晶片以及方法 <b>Nucleic Acid Molecule, Diagnostic Kit, Biochip And Method For The Detection Of Keratitis Pathogens:</b> A more sensitive and specified kit that identifies the type of herpes simplex virus which causes keratitis.	Taiwan	Invention	TW I602922
11	P10535	馬惠康 HUI-KANG MA	口腔黏膜上皮細胞培養製程 <b>Method For The Ex Vivo Cultivation of Oral Mucosal Epithelial Progenitor Cells And Oral Mucosal Epithelial Cells:</b> Cultivating the cell aggregates adhered on the amniotic membrane in a serum-free proliferation-facilitating medium in the absence of feeder cells.	Taiwan	Invention	TW I627280
				USA	Invention	US 10415014



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12	P10538	賴瓊慧 CHYONG-HUEY LAI	評估子宮頸癌風險之方法 <b>Methods For Assessing The Risk of Cervical Cancer:</b> Kits that include agents such as primers for detecting at least one single nucleotide polymorphism (SNP). Also provided are methods for diagnosing or evaluating the risk of developing cervical cancer in a subject, including detecting at least one SNP.	Korea	Invention	KR 102086204B1
				Taiwan	Invention	TW I661050
13	P10543	王亮人 LIANG-JEN WANG	偵測注意力缺陷/過動症 (ADHD) 之套組 <b>Methods For Detecting Attention-Deficit/Hyperactivity Disorder:</b> Measuring the expression level of miR-140-3p in the test sample of the subject; wherein a lower expression level of miR140-3p in the test sample, relative to the expression level of miR140-3p in an ADHD-free sample, is indicative of the subject having ADHD.	China	Invention	CN 108531571B
				Germany	Invention	EP 3369829B1
				France	Invention	EP 3369829B1
				United Kingdom	Invention	EP 3369829B1



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14	P10616	賴瓊慧 CHYONG-HUEY LAI	利用微細核醣核酸協助子宮內膜癌診斷 <b>Methods For Assessing The Risk of Developing or Diagnosing Endometrial Cancer:</b> Measuring the expression level of at least two miRNAs disclosed herein in the sample of the subject, and compared the expression level of at least two of the miRNAs in the test sample with that of the endometrial cancer-free sample.	Germany	Invention	EP 3372696B1
				France	Invention	EP 3372696B1
				United Kingdom	Invention	EP 3372696B1
				Taiwan	Invention	TW I682034
				Taiwan	Invention	TW 108143920
				USA	Invention	US 10704106
15	P10620	褚柏顯 PAO-HSIEN CHU	用於預測一帶有急性心肌梗塞的人類個體發展出急性腎損傷之風險的方法 <b>Method For Predicting The Risk of Developing Acute Kidney Injury (AKI) in A Human Subject With Acute Myocardial Infraction (AMI):</b> Calculating the probability of developing AKI from AMI based on at least two miRNA expression levels extracted from blood samples and a logistic regression model.	China	Invention	CN 109694909A
				Taiwan	Invention	TW I646199
				USA	Invention	US 20190119751A1



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16	P10622	黃瀛賢 YING-HSIEN HUANG	使用用於診斷及/或治療川崎氏病的新穎生物標記的方法 <b>Methods And Kits For Diagnosing Kawasaki Disease And Methods For Treating Kawasaki Disease:</b> The novel biomarkers of the invention show altered cytosine methylations state of certain CpG loci in subject with Kawasaki Disease relative to subject without Kawasaki diseases.	Australia	Invention	AU 2018253505B2
				China	Invention	CN 109811047B
				Hong Kong	Invention	HK 40002995A
				Japan	Invention	JP 6813555
				Korea	Invention	KR 102119972
				Taiwan	Invention	TW I683905
				USA	Invention	US 11377691
17	P10631	郭明澤 MING-TSE KUO	用於檢測角膜炎病原體的核酸分子、檢驗套組、生物晶片以及方法 <b>Nucleic Acid Molecule, Diagnostic Kit, Biochip And Method For The Detection Of Keratitis Pathogens:</b> A more sensitive and specified kit that identifies the type of microspora which causes keratitis.	Taiwan	Invention	TW I649329



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18	P10634	李健峰 KIN-FONG LEI	高濃度血小板血漿製劑個體差異之分析方法 <b>Analytical Method For Individual Differences of Platelet-Rich Plasma:</b> An automated, real-time, mixed cultivation and simulation system to examine and select the most effective platelet-rich plasma ratio that should be applied on the affected parts while treating arthritis or sports Injury.	Taiwan	Invention	TW I680184
19	P10635	鐘文宏 WEN-HONG ZHONG	評估抗癲癇藥物拉莫三嗪( <b>Lamotrigine</b> )引發皮膚藥物不良反應風險的方法 <b>Risk Assessment For Lamotrigine-Induced Cutaneous Adverse Drug Reactions And Detecting Agent Thereof And Use Thereof:</b> A detection reagent for assessing the risk of a patient developing the cutaneous adverse drug reactions induced by the anti-epileptic drug Lamotrigine, comprising agents for measuring a particular HLA allele and the use thereof.	Korea	Invention	KR 20200077555A
				Singapore	Invention	SG 11202003391XA
				USA	Invention	US 20200318189A
				China	Invention	CN 111278990A
				Taiwan	Invention	TW I650423

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20	P10708	邱清旗 CHING-CHI CHIU	早發型帕金森病(D331Y)PLA2G6突變基因嵌入模式與藥物篩選平台和方法 <b>Early-Onset Parkinson's Disease Model: (D331Y) PLA2G6 Knocking Model, And Platform And Method For Drug Screening:</b> A (D331Y) PLA2G6 knockin mouse, which shows similar clinical symptoms to those of patients suffering from Parkinson's disease (PD), and begins to display early-onset cell death of dopaminergic neurons in its substantia nigra (SN), synucleinopathy, and tau pathology at the age of about 6 months, wherein the dopaminergic neurons exhibit mitochondrial structural abnormality and dysfunction.	Taiwan	Invention	TW I695891
				USA	Invention	US 20200215204A1
21	P10712	陳志丞 CHIH-CHENG CHEN	量化標的基因的突變型等位基因負擔的方法 <b>Method of Quantifying Mutant Allele Burden of Target Gene:</b> Quantifying the mutant allele expression level of JAK2V617F in Myeloproliferative neoplasms patients to provide a more sensitive examination method.	China	Invention	CN 110295218A
				Taiwan	Invention	TW I780315
				USA	Invention	US 11414698

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22	P10713	蘇昱日 YU-JIH SU	用於檢測狼瘡性腎炎或評估狼瘡性腎炎風險的方法及其應用 <b>Methods For Detecting or Assessing The Risk of Developing Lupus Nephritis And Application Thereof:</b> If the miRNA expression level is lower than the corresponding miRNA expression level in a sample taken from a subject not suffering from lupus nephritis, then the suspected lupus nephritis subject is at risk of developing lupus nephritis.	China	Invention	CN 110387411A
				Japan	Invention	JP 6827067
				Taiwan	Invention	TW I698640
23	P10715	林尚宏 SHANG- HUNG LIN	乾癬性關節炎的診斷及治療、與其之套組 <b>Diagnosis And Treatment of Psoriatic Arthritis And Kit Therefore:</b> Measuring the expression level of one or more miRNAs disclosed herein in the sample of the subject, and compared the expression level of at least one of the miRNAs in the test sample with that of the psoriatic arthritis-free sample. Also provided are methods of treating psoriatic arthritis by reducing the expression level of at least one of the miRNAs disclosed herein.	China	Invention	CN 110777199A
				European Union	Invention	EP 3599288A3
				Japan	Invention	JP 2020054336A
				Taiwan	Invention	TW I704927
				USA	Invention	US 11220712

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24	P10801	陳宏吉 HUNG-CHI CHEN	角膜組織培養系統及其角膜組織培養方法 <b>Corneal Tissue Culture System And Corneal Tissue Culture Method Thereof:</b> A corneal tissue culture system and a corneal tissue culture method for increasing corneal endothelial cell density, healing of damaged corneal endothelial cell, and stimulating corneal endothelial cell proliferation.	China	Invention	CN 112760222A
				Taiwan	Invention	TW I730464
				USA	Invention	US 20210115398A1
25	P10808	吳逸文 I-WEN WU	使用腸道菌叢偵測慢性腎病及其嚴重度之方法 <b>Method for Diagnosing Chronic Kidney Disease and Its Severity Using Gut Microbiome:</b> Measure the expression levels of 4 microbiome from human stool sample to diagnose chronic kidney disease.	Taiwan	Invention	I745780



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26	P10815	鐘文宏 WEN-HONG ZHONG	評估疾病調節抗風濕藥物引發嚴重皮膚藥物不良反應風險的方法、其檢測套組及其用途 <b>Methods And Kits For Detecting DMARD-Induced Severe Cutaneous Adverse Drug Reactions And Use of The Kits:</b> A test kit for assessing the risk of patients developing cutaneous adverse drug reactions, comprising a kit for determining specific HLA alleles and a use of the test kit in assessing the risk of patients developing cutaneous adverse drug reactions.	Canada	Invention	CA 3137521A1
				Korea	Invention	KR 20210149135A
				China	Invention	CN 112513294A
				Taiwan	Invention	TW 202041678
27	P10823	林祖功 ZU-GONG LIN	組合使用粒線體的活性抑制處理與人類瓦頓氏膠間葉幹細胞來治療粒線體DNA突變關聯性疾病 <b>Treatment of Mitochondrial DNA Mutation-Associated Disease With Inhibitory Treatments of Mitochondrial Activity And Human Wharton's Jelly Mesenchymal Stem Cells in Combination</b>	Taiwan	Invention	TW I717840

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28	P10825	游正博 JOHN CHENG-PO YU	癌症標靶抗體 <b>Novel LRRN1 Antibody and Uses Thereof:</b> The LRRN1 E36 monoclonal antibody is effective to inhibit LRRN1-expressing cancer cells by antibody-dependent cellular cytotoxicity.	China	Invention	CN 112770772A
				USA	Invention	US 20210214424A1
				European Union	Invention	EP 3793603A1
29	P10827	鐘文宏 WEN-HONG ZHONG	評估表皮生長因子受體抑制劑引發皮膚藥物不良反應風險的方法 <b>Methods And Kits For Detecting Cutaneous Adverse Drug Reactions Induced By EGFR Inhibitor And Uses of The Kits:</b> A test kit for assessing the risk of patients developing cutaneous adverse drug reactions, comprising a kit for determining specific HLA alleles and a use of the test kit in assessing the risk of patients developing cutaneous adverse drug reactions.	Taiwan	Invention	TW I728427
				PCT	Invention	WO 2021030925A1
30	P10832	謝佳訓 CHIA HSUN HSIEH	周邊血液中 <b>EGFR</b> 基因突變腫瘤細胞偵測之方法 <b>A Sensitive Detection Method of EGFR Mutations on Circulating Tumor Cells in Cancer Patients:</b> To detect EGFR mutations using human blood sample.	Taiwan	Invention	TW I745939



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31	P10837	林嘉鴻 CHIA-HUNG LIN	評估GLP-1類似物療法之反應的方法 <b>Method For Predicting The Response to Glucagon-Like Peptide-1 Analogue Therapy:</b> To measure the expression level of a target gene for predicting the response to Glucagon-Like Peptide-1 Analogue Therapy.	Taiwan	Invention	TW I755027
32	P10902	魏國良 KUO-LIANG WEI	非侵入性胃癌生物標記 <b>Method For Assessing Risk of A Subject Suffering From Gastric Cancer or Precancerous Lesions, Kit, Analyzer, And Biomarker Thereof:</b> A new biomarker for assessing the risk of suffering from gastric cancer.	Taiwan	Invention	TW I753455
33	P10912	許德耀 TE-YAO HSU	利用羊水蛋白質來預測早產 <b>Using The Proteins in Amniotic Fluid to Predict Preterm Birth</b>	Taiwan	Invention	TW 202223394
34	P10916	賴瓊慧 CHYONG-HUEY LAI	評估罹患子宮頸癌之風險之方法 <b>Methods For Assessing The Risk of Developing Cervical Cancer:</b> Methods for diagnosing or assessing the risk of developing cervical cancer in a subject, comprising the detection of at least one single nucleotide polymorphism (SNP) disclosed herein.	Taiwan	Invention	TW I783352

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### 診斷醫材領域 Medical Examination Devices

No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
35	P10920	蔡宗廷 TSUNG-TING TSAI	冠狀病毒檢測裝置 <b>Coronavirus Detection Device:</b> Implementing a new bioarker system to capture coronavirus antigen and express positive signals through capillary.	Taiwan	Utility Model	TW M599910
36	P10941	曾敏華 MIN-HUA ZENG	自體隱性腎小管發育不全之檢測方法其基因標誌及檢測套組 <b>Method for Detecting Autosomal Recessive Renal Tubular Dysgenesis, Gene Markers And Detection Kit Thereof:</b> A new gene marker to assess if a fetus suffers from Renal Tubular Dysgenesis.	Taiwan	Invention	TW 202108772 (Approved and registering)
37	P11010	盧章智 ZHANG-ZHI LU	應用於生物表面檢測之裝置及方法 <b>Apparatus of examining surface of an organism and method thereof:</b> A device which automatically collects body fluid leaking from the surface of a wound and detects if there is any bacterial infection.	Taiwan	Invention	TW I758797
				USA	Invention	US 20220031247A1





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相關技術公告如下，歡迎有意者洽詢產學合作中心。

The patents listed below are open to authorization. Please contact CAIC Chang Gung for more information.

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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
38	P11042	鐘文宏 WEN-HONG ZHONG	檢測磺胺衍生物的抗癲癇藥物引起的藥物過敏反應的方法及試劑盒，以及試劑盒的用途 <b>Methods And Kits For Detecting Drug Hypersensitivity Reactions Induced By Sulfonamide Derivative Anticonvulsant And Uses of The Kits:</b> A test kit for assessing the risk of patients developing cutaneous adverse drug reactions, comprising a kit for determining specific HLA alleles and a use of the test kit in assessing the risk of patients developing cutaneous adverse drug reactions.	Taiwan	Invention	TW 202208635
				PCT	Invention	WO 2022037524A1
39	P11051	田亞中 YA-CHUNG TIEN	慢性腎臟病預測方法及系統 <b>Method of Predicting Chronic Kidney Disease And System Thereof:</b> A device which predicts if a patient is suffering from chronic kidney disease based on ammonia concentration in the breath.	Taiwan	Invention	TW I777833