

Degeneración macular
Diabetes
Sistema nervioso
Sistema inmune



**Vigilancia
Tecnológica**
4º trimestre 2014

Este Boletín de Vigilancia Tecnológica en Biotecnología aplicada al sector sanitario surge del trabajo conjunto entre la Oficina Española de Patentes y Marcas (OEPM) y ASEBIO como miembro de la Plataforma Tecnológica Española de Mercados Biotecnológicos, y se encuadra dentro de una de las actividades de colaboración que la OEPM viene llevando a cabo con las referidas Plataformas para hacer llegar a las empresas, investigadores, y organizaciones que las integran una selección de las patentes más recientemente publicadas en determinados sectores tecnológicos.

Estos Boletines trimestrales, como el resto de los elaborados por la OEPM, ofrecen una información puntual, esquemática y de rápida

lectura sobre una selección de las últimas patentes biotecnológicas publicadas en el mundo relativas a cuatro líneas de investigación concretas: Sistema Nervioso, Sistema Inmune, Diabetes y Degeneración Macular.

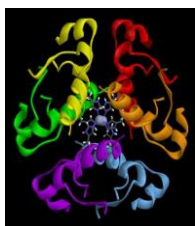
También incluyen noticias sobre actividades realizadas por la OEPM que puedan resultar de interés a los usuarios. Si se desea recibir este Boletín periódicamente basta con cumplimentar el correspondiente formulario de suscripción.

Se puede acceder al listado de solicitudes de patentes analizadas pulsando sobre las imágenes que aparecen a continuación

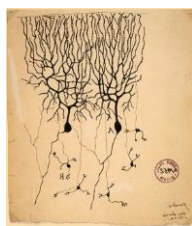
Contenido



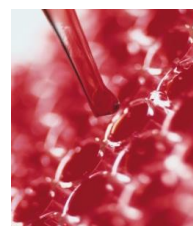
DEGENERACIÓN
MACULAR



DIABETES



SISTEMA NERVIOSO



SISTEMA INMUNE

Degeneración Macular

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO2014182726 A2</u> <u>20141113</u>	SEQUENOM INC [US]	Genetic markers for macular degeneration disorder treatment
<u>WO2014179799 A2</u> <u>20141106</u>	UNIV NORTHEASTERN [US]	Retina extracellular matrix based biomaterial
<u>WO2014172560 A1</u> <u>20141023</u>	GENZYME CORP [US]; US HEALTH [US]	Compositions and methods for treating and preventing macular degeneration
<u>WO2014157926 A1</u> <u>20141002</u>	KOREA INST SCI & TECH [KR]; SEOUL NAT UNIVERSITY BUNDANG HOSPITAL [KR]	Marker for diagnosing age-related macular degeneration, and method for diagnosing age-related macular degeneration by using same
<u>EP2784092 A2</u> <u>20141001</u>	SAMSUNG ELECTRONICS CO LTD [KR]	Fusion protein comprising anti-c-Met antibody and VEGF-binding fragment
<u>WO2014153166 A2</u> <u>20140925</u>	ALDER BIOPHARMACEUTICALS INC [US]	Therapeutic use of antibodies to hgf
<u>WO2014153117 A2</u> <u>20140925</u>	ALDER BIOPHARMACEUTICALS INC [US]	Antibodies to hgf and compositions containing
<u>WO2014152971 A2</u> <u>20140925</u>	UNIV ROCHESTER [US]; BERK BRADFORD C [US]; PANG JINJIANG [US]; MAJUMDER SYAMANTAK [US]	Modulation of angiogenesis and related conditions using inhibitors of g-protein-coupled receptor kinase interacting protein-1 (git1)
<u>WO2014151917 A1</u> <u>20140925</u>	FFE THERAPEUTICS LLC [US]	Compositions and methods for treating angiogenesis-related disorders
<u>WO2014151725 A1</u> <u>20140925</u>	ALLERGAN INC [US]	Composition of a sustained-release delivery and method of stabilizing proteins during fabrication process
<u>WO2014145108 A1</u> <u>20140918</u>	ADVANCED CELL TECH INC [US]	Photoreceptors and photoreceptor progenitors produced from pluripotent stem cells
<u>WO2014161004 A2</u> <u>20141002</u>	MACKAY JOHN ANDREW [US]; WANG WAN [US]; LAURIE GORDON W [US]	Compositions and methods for the delivery of drugs to the ocular surface by contact lenses
<u>WO2014159679 A1</u> <u>20141002</u>	US OF AMERICA AS REPRESENTED BY THE SECRETARY DEPT OF HEALTH & HUMAN SERVICES [US]	Methods for using lubiprostone to absorb fluid from the subretinal space

Diabetes

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO2014197524 A2</u> <u>20141211</u>	SERPIN PHARMA LLC [US]	Peptide therapy for treatment of alpha-1 antitrypsin deficiency and associated pathologies
<u>WO2014194244 A1</u> <u>20141204</u>	UNIV DUKE [US]	Enzyme-catalyzed synthesis of site-specific and stoichiometric biomolecule-polymer conjugates
<u>WO2014191542 A1</u> <u>20141204</u>	FUNDACIÓ HOSPITAL UNI VALL D HEBRON INST DE RECERCA [ES]	Sex hormone-binding globulin for use as a medicament
<u>WO2014187964 A2</u> <u>20141127</u>	UNIV BREMEN [DE]	Novel treatment of metabolic diseases
<u>WO2014186746 A1</u> <u>20141120</u>	UNIV FLORIDA [US]	Hairpin mrna elements and methods for the regulation of protein translation
<u>WO2014185985 A1</u> <u>20141120</u>	AMBRX INC [US]	Novel polypeptide small molecule conjugates and their uses
<u>WO2014183207 A1</u> <u>20141120</u>	EXERKINE CORP [CA]	Therapeutic method of treating metabolic syndrome
<u>WO2014182601 A1</u> <u>20141113</u>	CHILDRENS MEDICAL CENTER [US]	A method of preventing and treating type 1 diabetes, allograft rejection and lung fibrosis (by targeting the atp/p2x7r axis)
<u>WO2014179586 A1</u> <u>20141106</u>	TOLERION [US]	Compositions and methods for treatment of type 1 diabetes
<u>WO2014179344 A1</u> <u>20141106</u>	MASSACHUSETTS INST TECHNOLOGY [US]	Injectable nano-network gels for diabetes treatment
<u>WO2014178653 A1</u> <u>20141106</u>	UNIV KOREA RES & BUS FOUND [KR]	Use of human small leucine zipper protein in adipocyte differentiation procedure
<u>WO2014178018 A1</u> <u>20141106</u>	GLAXOSMITHKLINE IP DEV LTD [GB]	Therapeutic peptides
<u>WO2014177864 A1</u> <u>20141106</u>	UNIV SOUTHAMPTON [GB]	Haplotype detection

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO2014177683 A1</u> <u>20141106</u>	NOVO NORDISK AS [DK]	Oral dosing of glp-1 compounds
<u>WO2014177623 A1</u> <u>20141106</u>	NOVO NORDISK AS [DK]	Novel administration regime
<u>EP2799062 A1</u> <u>20141105</u>	BRITO GILBERTO BORGES DE [BR]	Pharmaceutical product for inducing magnified release of endogenous gut hormones, ppy and glp-1, to a therapeutic effect on obesity and dm2
<u>WO2014174899 A1</u> <u>20141030</u>	UNIV TOKUSHIMA [JP]; FUNAKI MAKOTO [JP]	Compressed cell or compressed tissue as cell model of pathological condition and manufacturing method therefor
<u>WO2014173867 A1</u> <u>20141030</u>	ROCHE DIAGNOSTICS GMBH [DE]; HOFFMANN LA ROCHE [CH]	Pairing and synchronizing a mobile phone application with a handheld glucose meter
<u>WO2014172488 A2</u> <u>20141023</u>	AMIDEBIO LLC [US]	Chemically and thermodynamically stable insulin analogues and improved methods for their production
<u>WO2014170916 A2</u> <u>20141023</u>	COUNCIL SCIENT IND RES [IN]	Novel uricase mutants uricase mutants
<u>WO2014170898 A1</u> <u>20141023</u>	UNIV BAR ILAN [IL]	Non-immunogenic and nuclease resistant nucleic acid origami devices and compositions thereof
<u>WO2014170496 A1</u> <u>20141023</u>	NOVO NORDISK AS [DK]	Stable, protracted glp-1/glucagon receptor co-agonists for medical use
<u>WO2014169250 A1</u> <u>20141016</u>	HARVARD COLLEGE [US]; BETH ISRAEL HOSPITAL [US]	Prefabricated alginate-drug bandages
<u>EP2787008 A1</u> <u>20141008</u>	SAMSUNG ELECTRONICS CO LTD [KR]	Anti-idiotypic antibody against anti-C-met antibody
<u>WO2014165607 A2</u> <u>20141009</u>	STEALTH PEPTIDES INT INC [MC]; WILSON D TRAVIS [US]	Aromatic-cationic peptide formulations, compositions and methods of use
<u>WO2014164160 A1</u> <u>20141009</u>	ROBUST FOR LIFE INC [US]	Systems and methods for network-based calculation and reporting of metabolic risk
<u>WO2014161884 A2</u> <u>20141009</u>	ALIOPHTHA AG [CH]	Artificial transcription factors regulating nuclear receptors and their therapeutic use

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO2014161835 A1</u> <u>20141009</u>	SANOFI SA [FR]	Modified blood glucose regulating proteins with altered pharmacological activity profile and preparation thereof
<u>WO2014160363 A1</u> <u>20141002</u>	BAYLOR RES INST [US]	Surface modification of porcine islets
<u>WO2014160358 A1</u> <u>20141002</u>	WOODS THOMAS COOPER [US]	Use of mir-221 and 222 lowering agents to prevent cardiovascular disease in diabetic subjects
<u>WO2014160266 A1</u> <u>20141002</u>	CORONADO BIOSCIENCES INC [US]	Treatment of type i diabetes mellitus using helminthic parasite preparations
<u>WO2014160210 A1</u> <u>20141002</u>	UNIV MICHIGAN [US]	Method for determining tear glucose concentration with blood glucose test strips
<u>WO2014159764 A1</u> <u>20141002</u>	AMGEN INC [US]	Chrdl-1 antigen binding proteins and methods of treatment
<u>WO2014159354 A1</u> <u>20141002</u>	BAYER HEALTHCARE LLC [US]	Progressive approximation of sample analyte concentration
<u>WO2014159244 A2</u> <u>20141002</u>	MERCK PATENT GMBH [DE]; HERING HEIKE [US]; DHANABAL MOHANRAJ [US]; ZHANG MEI [US]	O-glcnac TAU ANTIBODY AND USE THEREOF
<u>WO2014159171 A1</u> <u>20141002</u>	ABRAXIS BIOSCIENCE LLC [US]	Methods of treating lung cancer
<u>WO2014158900 A1</u> <u>20141002</u>	UNIV INDIANA RES & TECH CORP [US]	Insulin-incretin conjugates
<u>WO2014156339 A1</u> <u>20141002</u>	ZERIA PHARM CO LTD [JP]; UNIV SAITAMA [JP]	Postprandial gastrokinetic agent
<u>WO2014156196 A1</u> <u>20141002</u>	GEN INC ASS PHARMA VALLEY PROJECT SUPPORTING ORGANIZATION [JP]; UNIV KUMAMOTO NAT UNIV CORP [JP]; KUMAMOTO HEALTH SCIENCE UNIVERSITY [JP]	Therapeutic agent for type 2 diabetes
<u>WO2014153753 A1</u> <u>20141002</u>	BGI SHENZHEN CO LTD [CN]	Gene mutant and use thereof
<u>WO2014153666 A1</u> <u>20141002</u>	VIDA THERAPEUTICS INC [CA]	Indoline compounds as granzyme b inhibitors
<u>EP2783684 A1</u> <u>20141001</u>	NATUREWISE BIOTECH & MEDICALS CORP [TW]	Prenylflavone compounds for modulating diabetes

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>EP2784092 A2</u> <u>20141001</u>	SAMSUNG ELECTRONICS CO LTD [KR]	Fusion protein comprising anti-c-Met antibody and VEGF-binding fragment
<u>WO2014153111 A2</u> <u>20140925</u>	AMGEN INC [US]	Interleukin-2 muteins for the expansion of t-regulatory cells
<u>WO2014152970 A1</u> <u>20140925</u>	POLYMER TECHNOLOGY SYSTEMS INC [US]	Direct temperature measurement of a test strip
<u>WO2014152955 A1</u> <u>20140925</u>	REGENERON PHARMA [US]	Apelin fusion proteins and uses thereof
<u>WO2014152460 A2</u> <u>20140925</u>	UNIV INDIANA RES & TECH CORP [US]	Prodrugs with prolonged action
<u>WO2014152090 A1</u> <u>20140925</u>	UNIV GEORGETOWN [US]	Compositions and treatments of metabolic disorders using fgf binding protein 3 and fgf 19
<u>WO2014151725 A1</u> <u>20140925</u>	ALLERGAN INC [US]	Composition of a sustained-release delivery and method of stabilizing proteins during fabrication process
<u>WO2014151648 A1</u> <u>20140925</u>	CORONADO BIOSCIENCES INC [US]	Treatment of autoimmune disease using helminthic parasites
<u>WO2014151422 A1</u> <u>20140925</u>	JANSSEN BIOTECH INC [US]	Interferon alpha and omega antibody antagonists
<u>WO2014151229 A1</u> <u>20140925</u>	PHILADELPHIA MEDICAL SCIENT CT L L C [US]	Cell therapy: a method and a composition for treating diabetes
<u>WO2014151107 A1</u> <u>20140925</u>	KCL LICENSING INC [US]	Wound healing compositions
<u>WO2014150556 A1</u> <u>20140925</u>	MJN US HOLDINGS LLC [US]	Nutritional compositions containing a peptide component and uses thereof
<u>WO2014149699 A1</u> <u>20140925</u>	LILLY CO ELI [US]	Bifunctional protein
<u>WO2014146097 A1</u> <u>20140918</u>	UNIV FLORIDA [US]	Compositions for treatment and/or prevention of autoimmune disorders
<u>WO2014145958 A2</u> <u>20140918</u>	SERES HEALTH INC [US]	Network-based microbial compositions and methods

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2014145683 A1 20140918	BETH ISRAEL HOSPITAL [US]; KOULMANDA MARIA [US]	Diabetes treatment
WO2014145593 A2 20140918	UNIV CASE WESTERN RESERVE [US]; WEISS MICHAEL A [US]	Site 2 insulin analogues
WO2014145342 A2 20140918	CODA THERAPEUTICS INC [US]	Improved wound healing compositions and treatments
WO2014145335 A1 20140918	ABBOTT DIABETES CARE INC [US]	System and method to manage diabetes based on glucose median, glucose variability, and hypoglycemic risk
WO2014144965 A1 20140918	HUSSEINY ELSAYED MOHAMED I [US]; FERRERI KEVIN [US]	Attenuated salmonella bacteria and methods of using
WO2014144895 A1 20140918	MANKIND CORP [US]	Microcrystalline diketopiperazine compositions and methods
WO2014144842 A2 20140918	RHYTHM METABOLIC INC [US]	Pharmaceutical compositions
WO2014144777 A2 20140918	BETH ISRAEL HOSPITAL [US]; HARVARD COLLEGE [US]	Lipids that increase insulin sensitivity and methods of using the same
WO2014144553 A1 20140918	AMGEN INC [US]	Secreted frizzle-related protein 5 (sfrp5) binding proteins and methods of treatment
WO2014144521 A1 20140918	UNIV CALIFORNIA [US]	Mitochondrial-derived peptide mots3 regulates metabolism and cell survival
WO2014144280 A2 20140918	ABBVIE INC [US]	Dual specific binding proteins directed against il-1[beta] and / or il-17
WO2014143080 A1 20140918	BEYOND OBESITY LLC [US]	Methods for generating personalized dietary guidance using fatty acids for purposes of reducing risk of pathology
WO2014143022 A1 20140918	TRESE MICHAEL T [US]; CAPONE ANTONIO JR [US]; DRENSER KIMBERLY [US]	Compositions and methods for treating retinal disease
WO2014142649 A1 20140918	BIOMARKER DESIGN FORSCHUNGSGMBH [AT]; UNIV GRONINGEN [NL]; GRONINGEN ACAD ZIEKENHUIS [NL]	Biomarkers for improved diagnosis and prognosis of chronic kidney disease

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO2014142182 A1</u> <u>20140918</u>	SHIONOGI & CO [JP]	Monoclonal antibody inhibiting enzymatic activity of endothelial lipase
<u>WO2014141165 A1</u> <u>20140918</u>	UNIV GENEVE [CH]	Use of insulin signaling antagonists, optionally in combination of transfection of non-beta cells, for inducing insulin production
<u>WO2014141124 A1</u> <u>20140918</u>	INST NAT SANTE RECH MED [FR]	Erk-pathway activating compound for preventing or treating leptin resistance
<u>WO2014140974 A2</u> <u>20140918</u>	WALLAC OY [FI]	System and method for determining risk of diabetes based on biochemical marker analysis
<u>WO2014140930 A2</u> <u>20140918</u>	LONZA COLOGNE GMBH [DE]	Compositions and methods for enhancing the therapeutic potential of stem cells
<u>WO2014140222 A1</u> <u>20140918</u>	MEDIMMUNE LTD [GB]	Pegylated glucagon and glp-1 co-agonists for the treatment of obesity
<u>WO2014140117 A1</u> <u>20140918</u>	ROCHE DIAGNOSTICS GMBH [DE]; HOFFMANN LA ROCHE [CH]	Method for transmitting a glucose measure, method for displaying status during a wireless transmission of a glucose measure and handheld glucose meter
<u>WO2014140113 A1</u> <u>20140918</u>	BIOCRINE AB [SE]	Methods for treating and/or limiting development of diabetes
<u>WO2014138725 A1</u> <u>20140912</u>	UNIV MISSOURI [US]; ZAGHOUBI HABIB [US]	Methods and compositions for the treatment and/or prevention of type 1 diabetes
<u>WO2014137997 A1</u> <u>20140912</u>	JOSLIN DIABETES CENTER INC [US]	Exercise-regulated adipokines as therapy for diabetes management
<u>WO2014135653 A1</u> <u>20140912</u>	ROYAL COLLEGE OF SURGEONS IE [IE]	Diagnosis and treatment of metabolic disorders
<u>WO2014134970 A1</u> <u>20140912</u>	UNIV HONG KONG CHINESE [CN]; HOSPITAL AUTHORITY [CN]; SHANGHAI JIAOTONG UNIVERSITY AFFILIATED SIXTH PEOPLE S HOSPITAL [CN]	New biomarker for type 2 diabetes
<u>WO2014081872 A1</u> <u>20140530</u>	MEDERIS DIABETES LLC [US]	Improved peptide pharmaceuticals for insulin resistance

Sistema Nervioso

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2014193935 A1 20141204	NEUROPHAGE PHARMACEUTICALS INC [US]; CARR FRANCIS JOSEPH [GB]; JONES TIMOTHY DAVID [GB]	Polypeptides comprising a modified bacteriophage g3p amino acid sequence with reduced immunogenicity
WO2014193632 A2 20141204	VYBION INC [US]	Single chain intrabodies that alter huntingtin mutant degradation
WO2014193625 A1 20141204	PHARM OVERSEAS INC R [US]	Fully human antibodies against human receptor integrin alpha-4
WO2014193060 A1 20141204	CATHOLIC UNIV IND ACAD COOP [KR]	Therapeutic agent and treatment method for multiple sclerosis through concomitant administration of human bone marrow-derived mesenchymal stem cell and minocycline
WO2014192907 A1 20141204	NAT UNIV CORP TOKYO MED & DENT [JP]	Microna detection method used to differentiate disease exhibiting motor nerve disability
WO2014190441 A1 20141204	ZYMEWORKS INC [CA]	Heteromultimers with reduced or silenced effector function
WO2014190056 A2 20141127	BIOGEN IDEC INC [US]	Prodrugs and drugs in the treatment of multiple sclerosis
WO2014188436 A1 20141127	YEDA RES & DEV [IL]	Human monocyte sub-population for treatment of eye diseases and disorders
EP2806276 A1 20141126	RED BULL GMBH [AT]	Method for post mortem diagnosis of Alzheimer's Disease (AD)
WO2014186746 A1 20141120	UNIV FLORIDA [US]	Hairpin mrna elements and methods for the regulation of protein translation
WO2014185145 A1 20141120	NAT INST RADIOLOG [JP]	Biomarker for psychiatric and neurological disorders
WO2014184562 A1 20141120	IMP INNOVATIONS LTD [GB]	Lentiviral vectors with tropism to motor neurons comprising an antibody that binds to a pre-synaptic terminal receptor on the neuromuscular junction and a fusogenic protein

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<u>WO2014184545 A2</u> <u>20141120</u>	ISIS INNOVATION [GB]	Antibodies
<u>WO2014183220 A1</u> <u>20141120</u>	LONDON HEALTH SCI CT RES INC [CA]	Expandable cell populations from brain biopsies of living subjects
<u>WO2014183023 A1</u> <u>20141113</u>	UNIV BOSTON [US]	Using plexin-a4 as a biomarker and therapeutic target for alzheimer's disease
<u>WO2014182631 A1</u> <u>20141113</u>	BAXTER INT [US]; BAXTER HEALTHCARE SA [CH]	Treatment of alzheimer's disease subpopulations with pooled immunoglobulin g
<u>WO2014182072 A1</u> <u>20141113</u>	KYUNGPOOK NAT UNIV IND ACAD [KR]	Diagnostic marker composition comprising apolipoprotein m for alzheimer's disease
<u>WO2014180229 A1</u> <u>20141113</u>	SHANGHAI JIAOTONG UNIVERSITY SCHOOL OF MEDICINE [CN]	Use of bionic recombinant high density lipoprotein in preparation of drugs for preventing and treating alzheimer's disease
<u>WO2014177867 A2</u> <u>20141106</u>	UNIV NOTTINGHAM TRENT [GB]	Biomarkers differentially expressed biomarkers for alzheimer's disease
<u>WO2014175693 A1</u> <u>20141030</u>	KOREA INST SCI & TECH [KR]	Diagnostic kit for diagnosing disorders or diseases related to abnormal protein aggregation or misfolding of protein using dissolution of protein aggregates
<u>ES2514165 A1</u> <u>20141027</u>	CONSEJO SUPERIOR INVESTIGACION [ES]; INST DE SALUD CARLOS III [ES]	Anticuerpo anti-factor b, composicion farmaceutica util para el tratamiento de enfermedades del complemento y sus aplicaciones
<u>WO2014171434 A1</u> <u>20141023</u>	UNIV OKAYAMA NAT UNIV CORP [JP]; UNIV HOKKAIDO NAT UNIV CORP [JP]	Treatment agent for cognitive disorders, induced by amyloid [beta]-protein, therapeutic agent for alzheimer's disease, and treatment method and pathological analysis method related to these
<u>WO2014170900 A1</u> <u>20141023</u>	UNIV HAIFA [IL]	Inhibitors of the eph-a receptor and uses thereof
<u>WO2014168715 A1</u> <u>20141016</u>	PHARM OVERSEAS INC R [US]	B7 ligands/cd20 inhibitor composition and use thereof

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2014167826 A1 20141016	IMMUNO BIOLOGICAL LAB CO LTD [JP]	Antibody for specifically recognizing cleavage surface of c-terminal fragment after [alpha]-secretase cleavage of amyloid precursor protein and use thereof
WO2014165524 A2 20141009	UNIV CALIFORNIA [US]	Methods and compositions for treating and preventing disease associated with avb8 integrin
WO2014165280 A1 20141009	TEVA PHARMA [IL]; VOLLMER TIMOTHY [US]	Rituximab induction therapy followed by glatiramer acetate therapy
WO2014165271 A2 20141009	NEOTOPE BIOSCIENCES LTD [IE]; SEUBERT PETER [US]; DOLAN PHILIP JAMES III [US]; LIU YUE [US]; BARBOUR ROBIN [US]	Tau immunotherapy
WO2014165164 A2 20141009	ALBANY MEDICAL COLLEGE [US]; AVRAM DORINA [US]	Compositions and methods for treating autoimmune diseases
WO2014163381 A1 20141009	SAMSUNG LIFE PUBLIC WELFARE FOUNDATION [KR]; CHONG KUN DANG PHARM CORP [KR]	Animal model of charcot-marie-tooth disease as hsp27 mutant (s135f) carrier
WO2014163380 A1 20141009	SAMSUNG LIFE PUBLIC WELFARE FOUNDATION [KR]; CHONG KUN DANG PHARM CORP [KR]	Screening method for therapeutic agents for charcot-marie-tooth disease and self-differentiation motor neurons used therefor
WO2014161095 A1 20141009	CRP40 INC [CA]	Crp40 fragments for the treatment of neurological disorders
WO2014161835 A1 20141009	SANOFI SA [FR]	Modified blood glucose regulating proteins with altered pharmacological activity profile and preparation thereof
WO2014161570 A1 20141009	ROCHE GLYCART AG [CH]	Antibodies against human il17 and uses thereof
WO2014159247 A1 20141002	UNIV FLORIDA [US]	Di-amino acid repeat-containing proteins associated with als
WO2014159244 A2 20141002	MERCK PATENT GMBH [DE]; HERING HEIKE [US]; DHANABAL MOHANRAJ [US]; ZHANG MEI [US]	O-glcnac tau antibody and use thereof
WO2014153166 A2 20140925	ALDER BIOPHARMACEUTICALS INC [US]	Therapeutic use of antibodies to hgf

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<u>WO2014153117 A2</u> <u>20140925</u>	ALDER BIOPHARMACEUTICALS INC [US]	Antibodies to hgf and compositions containing
<u>WO2014153063 A1</u> <u>20140925</u>	AMGEN INC [US]	Aglycosylated fc-containing polypeptides
<u>WO2014152965 A2</u> <u>20140925</u>	PHILADELPHIA CHILDREN HOSPITAL [US]	Schizophrenia-associated genetic loci identified in genome wide association studies and use thereof as novel therapeutic targets
<u>WO2014151747 A1</u> <u>20140925</u>	UNIV RAMOT [IL]; NASVAX LTD [IL]; GERAGHTY ERIN [US]	Methods and compositions with immune therapy for treatment of dementia
<u>WO2014151644 A2</u> <u>20140925</u>	GENZYME CORP [US]	Anti-cd52 antibodies
<u>WO2014151338 A1</u> <u>20140925</u>	UNIV SOUTHERN CALIFORNIA [US]	Methods for treating multiple sclerosis
<u>WO2014151279 A1</u> <u>20140925</u>	UNIV PENNSYLVANIA [US]; WEINER DAVID [US]; MORROW MATTHEW [US]; YAN JIAN [US]; FERRARO BERNADETTE [US]; HOKEY DAVID [US]	Vaccines having an antigen and interleukin-23 as an adjuvant
<u>WO2014150877 A2</u> <u>20140925</u>	AC IMMUNE SA [CH]; GENENTECH INC [US]	Anti-tau antibodies and methods of use
<u>WO2014149882 A1</u> <u>20140925</u>	UNIV IOWA RES FOUND [US]	Promoter compositions
<u>WO2014145975 A2</u> <u>20140918</u>	WHITEHEAD BIOMEDICAL INST [US]	Cellular discovery platform for neurodegenerative diseases
<u>WO2014145347 A1</u> <u>20140918</u>	TRANSLATIONAL GENOMICS RES INS [US]; VAN KEUREN- JENSEN KENDALL [US]	Methods for the diagnosis of amyotrophic lateral sclerosis
<u>WO2014145000 A2</u> <u>20140918</u>	ABBVIE BIOTHERAPEUTICS INC [US]	Anti-cd25 antibodies and their uses
<u>WO2014143087 A1</u> <u>20140918</u>	UNITED BIOMEDICAL INC [US]	Peptide vaccine for prevention and immunotherapy of dementia of the alzheimer's type
<u>WO2014141265 A1</u> <u>20140918</u>	NOFAR GIL [IL]; COGAN URI [IL]	Inhibition of neurodegenerative disease by grape seed extract, green tea extract and probiotic bacteria
<u>WO2014138791 A1</u> <u>20140918</u>	AUSTRALIAN NUCLEAR SCIENCE TEC [AU]; UNIV SYDNEY [AU]	Transgenic non-human organisms with non- functional tspo genes

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<u>WO2014137962 A1</u> <u>20140912</u>	LILLY CO ELI [US]	Antibodies that bind il-23
<u>WO2014137355 A1</u> <u>20140912</u>	VACCINEX INC [US]	Anti-cxcl13 antibodies and associated epitope sequences
<u>WO2014135546 A1</u> <u>20140912</u>	RANDEX TEORANTA [IE]	Methods and compositions for the diagnosis of alzheimer's disease
<u>EP2774991 A1</u> <u>20140910</u>	LIFE SCIENCE INKUBATOR BETR S GMBH & CO KG [DE]	Drug delivery system for use in the treatment or diagnosis of neurological disorders
<u>WO2014133428 A1</u> <u>20140904</u>	SCHEDIN WEISS SOPHIA [SE]; TJERNBERG LARS [SE]; WINBLAD BENGT [SE]	Diagnosis of alzheimer disease, cognitive decline and dementia

Sistema Inmune

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO2014197524 A2</u> <u>20141211</u>	SERPIN PHARMA LLC [US]	Peptide therapy for treatment of alpha-1 antitrypsin deficiency and associated pathologies
<u>WO2014194302 A2</u> <u>20141204</u>	SORRENTO THERAPEUTICS INC [US]	Antigen binding proteins that bind pd-1
<u>WO2014193625 A1</u> <u>20141204</u>	PHARM OVERSEAS INC R [US]	Fully human antibodies against human receptor integrin alpha-4
<u>WO2014193248 A1</u> <u>20141204</u>	A2 MILK COMPANY LTD [NZ]	Beta-casein a2 and prevention of inflammation of the bowel
<u>WO2014191839 A2</u> <u>20141204</u>	OSLO UNIVERSITETSSYKEHUS HF [NO]	Detection of gluten-specific t-cells
<u>WO2014191499 A1</u> <u>20141204</u>	NAT UNIV IRELAND MAYNOOTH [IE]	Diagnostic markers for crohn's disease
<u>WO2014189201 A1</u> <u>20141127</u>	CATHOLIC UNIV IND ACAD COOP [KR]	Composition for preventing or treating autoimmune disease, comprising, as active ingredient, pink1 protein or polynucleotide encoding same
<u>WO2014188378 A1</u> <u>20141127</u>	NESTEC SA [CH]	Pathway specific markers for diagnosing irritable bowel syndrome
<u>WO2014188373 A1</u> <u>20141127</u>	UNIV MANITOBA [CA]; INST NAT SANTE RECH MED [FR]; GHIA JEAN-ERIC [CA]; METZ-BOUTIGUE MARIE-HELENE [FR]; RABBI MOHAMMAD [CA]	Chromogranin-a-derived polypeptides and methods of use
<u>WO2014186750 A2</u> <u>20141120</u>	CEDARS SINAI MEDICAL CENTER [US]	Variants of tnfsf15 and dcr3 associated with crohn's disease
<u>WO2014186728 A2</u> <u>20141120</u>	GENENTECH INC [US]; HOFFMANN LA ROCHE [CH]	Methods for diagnosing and treating inflammatory bowel disease
<u>WO2014186665 A2</u> <u>20141120</u>	CEDARS SINAI MEDICAL CENTER [US]	Distinct effects of ifn-gamma and il-17 on t1a modulated inflammation and fibrosis
<u>WO2014186416 A1</u> <u>20141120</u>	CHILDRENS HOSP MEDICAL CENTER [US]; UNIV MUENSTER WILHELMS [DE]	Methods and compositions for determining relapse in inflammatory bowel disease
<u>WO2014184545 A2</u> <u>20141120</u>	ISIS INNOVATION [GB]	Antibodies

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WO2014182897 A2 20141113	JM BIOLOG [US]	Compositions and methods for the production of gluten free food products
WO2014182689 A1 20141113	YACYSHYN BRUCE R [US]; YACYSHYN MARY BETH [US]; WANG FENG [US]	Method of using biomarkers in predicting inflammatory bowel disease
WO2014182655 A1 20141113	STIEFEL LABORATORIES [US]	Assay for screening a compound for the ability to modulate proinflammatory cytokine production in human skin
WO2014181273 A1 20141113	UNIV MANITOBA [CA]; GHIA JEAN-ERIC [CA]; SOUSI GOUNI ABDELILAH [CA]	Methods for treating inflammatory bowel disease
WO2014177864 A1 20141106	UNIV SOUTHAMPTON [GB]	Haplotype detection
WO2014177746 A1 20141106	FUNDACIÓ HOSPITAL UNI VALL D HEBRON INST DE RECERCA [ES]	Prognosis of response to treatment with anti-tnf-alpha in patients with rheumatoid arthritis
WO2014177622 A1 20141106	FERRING BV [NL]; PASTEUR INSTITUT [FR]	Bacteriophage therapy
WO2014175333 A1 20141030	PREVENTEC INC [JP]	External skin preparation for treating and/or preventing psoriasis vulgaris
WO2014173975 A1 20141030	UNIV ABERDEEN [GB]	Isolation of therapeutic target specific vna domains to icosl
WO2014171721 A1 20141023	CATHOLIC UNIV IND ACAD COOP [KR]; CELLINBIO CO LTD [KR]	Ik factor and pharmaceutical use of nucleic acid encoding ik factor
WO2014171532 A1 20141023	ASTELLAS PHARMA INC [JP]	Novel anti-human tweak antibody
WO2014168964 A1 20141016	ASANA MEDICAL INC [US]; UNIV PITTSBURGH [US]	Method and composition for treating inflammatory bowel disease without colectomy
WO2014168548 A2 20141016	EL ANDALOUSSI SAMIR [SE]; WIKLANDER OSCAR [SE]; NORDIN JOEL [SE]; SMITH EDVARD [SE]; GRINNEMO KARL-HENRIK [SE]; SIMONSON OSCAR [SE]	Therapeutic delivery vesicles
WO2014167030 A1 20141016	ACONDICIONAMIENTO TARRASENSE [ES]	Anti-s100a7 antibodies for the treatment and diagnosis of cancer
WO2014165524 A2 20141009	UNIV CALIFORNIA [US]	Methods and compositions for treating and preventing disease associated with avb8 integrin
WO2014165449 A1 20141009	PROTAGONIST THERAPEUTICS INC [US]; BHANDARI ASHOK [US]; PATEL DINESH V [US]; MATTHEAKIS LARRY C [US]	Novel [alpha]4[beta]7 peptide antagonists

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WO2014165448 A1 20141009	PROTAGONIST THERAPEUTICS INC [US]; BHANDARI ASHOK [US]; PATEL DINESH V [US]; MATTHEAKIS LARRY C [US]	Novel [alpha]4[beta]7 peptide dimer antagonists
WO2014165282 A1 20141009	INST OF ARTHRITIS RES LLC [US]	Immunologically active polypeptide
WO2014164670 A1 20141009	UNIV EMORY [US]; GEORGIA TECH RES INST [US]	Protein particles comprising disulfide crosslinkers and uses related thereto
WO2014163101 A1 20141009	CHUGAI PHARMACEUTICAL CO LTD [JP]	Fc region variant
WO2014161570 A1 20141009	ROCHE GLYCART AG [CH]	Antibodies against human il17 and uses thereof
WO2014160129 A2 20141002	ALNYLAM PHARMACEUTICALS INC [US]	Complement component c5 erna compositions and methods of use thereof
WO2014159725 A1 20141002	AMGEN INC [US]	Proteins specific for baff and b7rp1 and uses thereof
WO2014159669 A2 20141002	SOMALOGIC INC [US]; OTSUKA PHARMA CO LTD [JP]	Aptamers that bind to il-6 and their use in treating or diagnosing il-6 mediated conditions
WO2014159579 A1 20141002	ABBVIE INC [US]	Mutated anti-tnf[alpha] antibodies and methods of their use
WO2014159430 A1 20141002	APEXIGEN INC [US]	Anti-rankl antibodies and methods of use
WO2014157380 A1 20141002	UNIV NAGASAKI [JP]	Therapeutic agent for wounds or fibrosis
WO2014157229 A1 20141002	UNIV TOHOKU [JP]	Tace peptide epitope, antihuman tace protein antibody and hybridoma producing antibody
WO2014153111 A2 20140925	AMGEN INC [US]	Interleukin-2 muteins for the expansion of t-regulatory cells
WO2014153063 A1 20140925	AMGEN INC [US]	Aglycosylated fc-containing polypeptides
WO2014152754 A2 20140925	CEDARS SINAI MEDICAL CENTER [US]	Methods of diagnosis, selection, and treatment of diseases and conditions caused by or associated with methanogens
WO2014152247 A1 20140925	ABBVIE INC [US]	Improved tnf binding proteins
WO2014152233 A1 20140925	IMMUSANT INC [US]; ANDERSON ROBERT P [US]; GRIFFIN PATRICK [US]	Placebo-controlled gluten challenge method
WO2014152232 A2 20140925	DYAX CORP [US]	Anti-plasma kallikrein antibodies

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<u>WO2014151923 A1</u> <u>20140925</u>	BAXTER INT [US]; BAXTER HEALTHCARE SA [CH]; JOHNSON RICHARD [US]	Factor h for treatment of rheumatoid arthritis
<u>WO2014151551 A1</u> <u>20140925</u>	BAYLOR RES INST [US]	Ulcerative colitis (uc)-associated colorectal neoplasia markers
<u>WO2014151422 A1</u> <u>20140925</u>	JANSSEN BIOTECH INC [US]	Interferon alpha and omega antibody antagonists
<u>WO2014151279 A1</u> <u>20140925</u>	UNIV PENNSYLVANIA [US]; WEINER DAVID [US]; MORROW MATTHEW [US]; YAN JIAN [US]; FERRARO BERNADETTE [US]; HOKEY DAVID [US]	Vaccines having an antigen and interleukin-23 as an adjuvant
<u>WO2014151238 A1</u> <u>20140925</u>	EXAGEN DIAGNOSTICS INC [US]	Methods for treating and diagnosing systemic lupus erythematosus
<u>WO2014151206 A1</u> <u>20140925</u>	SYNERGY PHARMACEUTICALS INC [US]	Agonists of guanylate cyclase and their uses
<u>WO2014150350 A1</u> <u>20140925</u>	US HEALTH [US]	Inhibitors of the linear ubiquitin chain assembly complex (lubac) and related methods
<u>WO2014149733 A1</u> <u>20140925</u>	LILLY CO ELI [US]	Pan-ELR+ cxc chemokine antibodies
<u>WO2014149425 A1</u> <u>20140925</u>	AMGEN INC [US]	Methods for treating psoriasis using an anti-il-23 antibody
<u>WO2014148932 A2</u> <u>20140925</u>	BIOCANT ASSOCIAÇ O DE TRANSFER NCIA DE TECNOLOGIA [PT]	Aspartic proteases use if plantasparticproteases for treating skin conditions
<u>WO2014148216 A1</u> <u>20140925</u>	UNIV TOKUSHIMA [JP]	Pharmaceutical composition for treatment of inflammatory bowel disease
<u>WO2014145016 A2</u> <u>20140918</u>	GENENTECH INC [US]; HOFFMANN LA ROCHE [CH]	Il-22 polypeptides and il-22 fc fusion proteins and methods of use
<u>WO2014144960 A2</u> <u>20140918</u>	ABBVIE BIOTHERAPEUTICS INC [US]	Fc variants
<u>WO2014144911 A2</u> <u>20140918</u>	CAPON DANIEL J [US]	Hybrid immunoglobulin containing non-peptidyl linkage
<u>WO2014144600 A2</u> <u>20140918</u>	ROSCHKE VIKTOR [US]; LAFLEUR DAVID [US]; HILBERT DAVID M [US]; KIENER PETER [US]	Multivalent and monovalent multispecific complexes and their uses
<u>WO2014144299 A2</u> <u>20140918</u>	ABBVIE INC [US]	Dual specific binding proteins directed against tnf[alpha]
<u>WO2014144280 A2</u> <u>20140918</u>	ABBVIE INC [US]	Dual specific binding proteins directed against il-1[beta] and / or il-17

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<u>WO2014143540 A1</u> <u>20140918</u>	AMGEN INC [US]	Methods for treating crohn's disease using an anti-il23 antibody
<u>WO2014141271 A1</u> <u>20140918</u>	IMMUNE PHARMACEUTICALS LTD [IL]; TEPER DANIEL [IL]	Use of anti-eotaxin antibodies for treating inflammatory bowel disease
<u>WO2014141244 A1</u> <u>20140918</u>	TEL HASHOMER MEDICAL RES INFRA [IL]	Synthetic peptides for the treatment of autoimmune diseases
<u>WO2014140856 A2</u> <u>20140918</u>	LORD GRAHAM [GB]	Mir-142 and antagonists thereof for treating disease
<u>WO2014140509 A1</u> <u>20140918</u>	UNIV BIRMINGHAM [GB]	Diagnosis and treatment of arthritic conditions
<u>WO2014140180 A1</u> <u>20140918</u>	GLAXOSMITHKLINE IP DEV LTD [GB]	Anti-lag-3 binding proteins
<u>WO2014139994 A1</u> <u>20140918</u>	NOVO NORDISK HEALTHCARE AG [CH]; ZHAO XIN [CN]; THYGESEN PETER [DK]; JOHANSEN NILS LANGELAND [DK]; NÖRSKOV-LAURITSEN LEIF [DK]	Growth hormone compounds
<u>WO2014138999 A1</u> <u>20140918</u>	UNIV OTTAWA [CA]	Methods for the diagnosis and treatment of inflammatory bowel disease
<u>WO2014138953 A1</u> <u>20140918</u>	SYNG PHARMACEUTICALS INC [CA]	Treatment of endometriosis, angiogenesis and/or endometrial lesion growth
<u>WO2014138670 A1</u> <u>20140912</u>	UNIV COLORADO REGENTS [US]; WANG XIAO-JING [US]; ZHANG QINGHONG [US]; REFAELI YOSEF [US]	Ptd-smad7 therapeutics
<u>WO2014137962 A1</u> <u>20140912</u>	LILLY CO ELI [US]	Antibodies that bind il-23
<u>WO2014137961 A1</u> <u>20140912</u>	LILLY CO ELI [US]	Anti-tnf-anti-il-17 bispecific antibodies
<u>WO2014136114 A1</u> <u>20140912</u>	PROTALIX LTD [IL]	Tnf alpha inhibitor polypeptides, polynucleotides encoding same, cells expressing same and methods of producing same
<u>WO2014135668 A1</u> <u>20140912</u>	UNIVERSITÄT LEIPZIG [DE]	Method and kit for cytokine analysis from a human whole blood sample
<u>WO2014130789 A1</u> <u>20140828</u>	CHILDRENS HOSP MEDICAL CENTER [US]	Use of glycans and glycosyltransferases for diagnosing/monitoring inflammatory bowel disease

Noticias

El Consejo de Ministros aprueba el texto del anteproyecto de Ley de Patentes

El Consejo de Ministros aprobó el 14 de noviembre la remisión a las Cortes de un [proyecto de Ley](#) que revisa el marco legal de la Propiedad Industrial en España, mediante una profunda renovación de la [Ley 11/1986 de Patentes](#). El objeto principal es fortalecer el sistema español de patentes, pasando de fomentar la iniciativa de patentar a primar la actividad verdaderamente inventiva, innovadora y novedosa.

Para ello, se sustituyen las patentes 'débiles', que generan a menudo burbujas tecnológicas, alta litigiosidad y monopolios injustificados, por patentes 'fuertes' comparables a las de los sistemas internacionales y países industrializados. También se **simplifican los procedimientos** y se adapta la normativa al marco internacional de Propiedad Industrial, favoreciendo la internacionalización de las empresas.

Principales aspectos regulados

- Clarifica y simplifica el procedimiento de concesión de la patente, que siempre conllevará un examen previo. Además, se adapta la normativa española al ámbito comunitario y a otras normas y tratados internacionales.
- Fomenta la iniciativa emprendedora mediante la reducción de un 50% para PYME y emprendedores de la tasa para la obtención de una patente.
- Las patentes se hacen más fuertes, lo que significa que siempre llevarán un examen previo que acredite que la invención es nueva, con actividad inventiva y aplicación industrial. Si no se cumplen estos requisitos, no se concederá la patente.
- Los modelos de utilidad también se fortalecen. Se amplía su ámbito a los productos químicos y se modifica su régimen mediante el requisito de novedad mundial. Además, se garantiza su solidez mediante la exigencia del informe sobre el estado de la técnica prejudicial.
- Se incluyen, expresamente, entre los títulos de protección los [Certificados Complementarios de Protección](#), o CCP, título de propiedad industrial que extiende por un plazo máximo de cinco años la protección otorgada a una patente de un producto farmacéutico o fitosanitario, para compensar el mayor plazo de tiempo que transcurre para estos productos desde que se concede la patente hasta que se autoriza su comercialización.



La creación de una patente fuerte supone **importantes beneficios** para:

- La competencia: Evita monopolios injustificados, ya que no se da la protección y el derecho de exclusividad que la patente supone a no ser que se justifique realmente la novedad y altura inventiva.
- Los ciudadanos: Se garantiza la seriedad de las patentes y se simplifican los procedimientos, reduciendo así las cargas administrativas.
- La Administración y los Tribunales: Se evita la sobrecarga de la Administración (al no tener que tramitar patentes de escasa calidad técnica) y de los Tribunales, ya que no se otorgarán monopolios injustificados.
- La imagen de la patente española: Se fortalece y equipara a los sistemas de Propiedad Industrial más avanzados.

Para más información, [pinche aquí](#).

Recomendaciones para Mejorar el Modelo de Transferencia de Tecnología en las Universidades españolas

La Conferencia de Consejos Sociales (CCS) y la Red de Fundaciones Universidad Empresa (REDFUE), en su misión de facilitar las relaciones entre las universidades y las empresas, ha realizado un documento sobre 'Recomendaciones para Mejorar el Modelo de Transferencia de Tecnología en las Universidades Españolas'.

El estudio analiza de qué manera están transfiriendo las universidades españolas sus avances en tecnología y conocimiento al mundo empresarial, así como algunos modelos de referencia extranjeros, para, finalmente, proponer una serie de recomendaciones a las universidades y demás agentes del sistema de Transferencia de Tecnología y Conocimiento (TTYC). Estas recomendaciones definen unas líneas de actuación futura con el objetivo de **mejorar y optimizar el Sistema de Transferencia de Tecnología** actual e impulsar la llamada 'universidad emprendedora'.



Creación de una Cartera de Tecnología para cada Universidad

Dentro de estas líneas de actuación cabe señalar la dotación a las unidades de transferencia de tecnología de cada centro universitario de una red de agentes de transferencia que acompañen a la empresa y al investigador durante el desarrollo de todo el proceso, especialmente en la etapa de comercialización de la tecnología, en la que actuarían como mediadores. También destaca la necesidad de creación de una **Cartera de Tecnología para cada Universidad** para así pasar a comercializar aquellos activos más interesantes vía nacional o, aprovechando las oportunidades que ofrecen otros mercados, internacionalizando la oferta tecnológica.

Colaboración de la OEPM

La Oficina Española de Patentes y Marcas ha colaborado en la elaboración del estudio poniendo de relieve la importancia de una cultura adecuada de Propiedad Industrial e Intelectual en la Universidad, indispensable para una apropiada protección de las innovaciones y comercialización de los resultados de investigación a nivel nacional e internacional. Proteger adecuadamente supone un mecanismo que pone en valor el conocimiento generado.

La OMPI ha publicado un nuevo estudio sobre patentes de los recursos genéticos animales.

El Informe de la OMPI sobre patentes en el ámbito de los recursos zoogenéticos, el primer análisis cuantitativo en gran escala que recopila datos de patentes en este sector, se presentó en noviembre de 2014, en una reunión paralela de la 8ª Reunión del Grupo de Trabajo Técnico Intergubernamental sobre los Recursos Zoogenéticos para la Alimentación y la Agricultura.

En el informe se analizan más de 14 millones de documentos de patente correspondientes al período entre 1976 y 2013, relativos a 17 especies y subespecies animales fundamentales para la agricultura y la seguridad alimentaria en todo el mundo. Los documentos de patente analizados en el informe están agrupados en seis categorías de la tecnología relativas a animales y recursos zoogenéticos, a saber, inseminación artificial, selección asistida por marcadores, animales transgénicos, clonación animal, xenotransplantes y modelos animales.

En el informe se pone de manifiesto un declive prolongado del número de solicitudes de patentes en la esfera de los recursos zoogenéticos para la alimentación y la agricultura, tras haber alcanzado su apogeo en 2001. Es probable que ese declive esté vinculado al mayor carácter restrictivo de las legislaciones sobre patentes en algunos países, así como a la desaceleración de la demanda de consumo de animales genéticamente modificados.

Algunas de las nuevas esferas que se señalan en el informe son las de la biología sintética, la ingeniería metabólica, la ingeniería del genoma y la edición del genoma, vinculadas al avance de los proyectos de secuenciación del genoma.

