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Personal Information

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Educational Background

- ***Ph.D., Molecular Immunology***, Karolinska Institute, Department of Biosciences at NOVUM Sweden; 1990-1997
- ***M.Sc., Medical Microbiology***, Medical Science University of Tehran, Tehran, Iran; 1985-1988
- ***B.Sc., Laboratory Sciences***, Shahid Beheshti University, Tehran, Iran; 1980-1984

- **Executive Experience**

Founder of PADZA PADTAN PAJHOOH Company (www.padzaco.com) (2017) which is active in the field of developing monoclonal antibodies for detecting infectious diseases and

also developing cancer diagnostic and therapeutic tools. Currently, I am working as Chief Scientific Officer (CSO) at PADZA.

Academic Experience

2023-current: Head of Institute of Medical Biotechnology, National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran

2017-2023: Head of Antigen and Antibody Engineering Group, Avicenna Research Institute, Tehran, Iran

2016-2017: Head of Monoclonal Antibody Research Center, Avicenna Research Institute, Tehran, Iran

2005-2016: Head of Antigen and Antibody Engineering Group, Avicenna Research Institute, Tehran, Iran

1999-2011: Head of laboratory at Prof. Håkan Mellstedt's group, Associate Professor in Experimental Oncology, Department of Oncology-Pathology, University Hospital of Karolinska, Stockholm, Sweden

1997-1999: Postdoctoral Fellow in Karolinska Hospital, Cancer Center Karolinska, Stockholm, Sweden

Publications

1. The effect of Nano-liposomal sodium nitrite on smooth muscle cell growth in a tissue-engineered small-diameter vascular graft. Ghasem Amoabediny, Mehrdad Khakbiz, Saeed Jafarkhani, Javad Mohammadi, Shervin Ilanlou, Fariba Khajouei, Leila Lotfi, **Hodjattallah Rabbani**, Sonia Abbasi Ravasjani, Fardin Rahimi, Ki-Bum Lee, Artificial Organs, 23 February 2023
2. Cell Surface Vimentin Detection in Cancer Cells by Peptide-Based Monoclonal Antibody. Niloufar Sadeghi, Ghazaleh Fazli, Ali Ahmad Bayat, Raminasadat Fatemi, Nasim Ebrahimnejhad, Ali Salimi, Omid Zarei , and **Hodjattallah Rabbani***. AJMB, Volume 15, Issue 2, 68-75.2023
3. Diagnostic and Therapeutic Implications of Sortilin Expressed on the Surface of Bladder Carcinoma Cells. Ali-Ahmad Bayat, Niloufar Sadeghi, Ghazaleh Fazli, Mohammad Reza Nowroozi, Solmaz Ohadian Moghadam, Amin Radmanesh, Mohammadjavad Hedayatshodeh, Ali Reza Sarrafzadeh, Omid Zarei, Fatemeh Ghaemimanesh, **Hodjattallah Rabbani***. Iran J Pathol. 2022; 17(2): 174-182
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6. Development of sandwich electrochemiluminescence immunosensor for COVID-19 diagnosis by SARS-CoV-2 spike protein detection based on Au@BSA-luminol nanocomposites. Morteza Hosseini*, Ebtessam Sobhanie, Foad Salehnia, Guobao Xu, **Hodjattallah Rabbani**, Mahsa Naghavi Sheikholeslami, Ali Firoozbakhtian, Niloufar Sadeghi, Mohammad Hossein Farajollah, Mohammad Reza Ganjali, Houman Vosough. *Bioelectrochemistry* **147** (2022)
7. An Anti-TAZ Monoclonal Antibody Recognizing Cell Surface Expressed TAZ Protein in Human Tumor Cells. Mozhan Haji Ghaffari, Mahsa Mohammadzadeh, Miganoosh Simonian, Mehrdad Hashemi, Niloufar Sadeghi, Babak Negahdari, Mohammadali Mazloomi, and **Hodjattallah Rabbani**. *Avicenna Journal of Medical Biotechnology*. Volume 15, Issue no. 1, 2022
8. Developing of specific monoclonal recombinant antibody fused to alkaline phosphatase (AP) for one- step detection of fig mosaic virus. Niloufar Rajabi · Mohammad Reza Safarnejad · Farshad Rakhshandehroo · Masoud Shamsbakhsh · **Hodjattallah Rabbani**. *Biotech* (2022). <https://doi.org/10.1007/s13205-022-03154-x>
9. Monoclonal Antibody Against Sortilin Induces Apoptosis in Human Breast Cancer Cells. Miganoosh Simonian, Mozhan Haji Ghaffari, Ali Salimi, Ebrahim Mirzadegan, Niloufar Sadeghi, Nasim Ebrahimnezhad, Ghazaleh Fazli, Ramina Fatemi, Ali-Ahmad Bayat, Saeideh Milani, Babak Negahdari, and **Hodjattallah Rabbani**. *Avicenna J Med Biotech* 2022; 14(1): 37-45
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38. Mahdi Shabani, Azam Hemmati, Mahdi Zandemami, Jalal Khoshnoodi, Mahmood Jeddi-Tehrani, **Hodjatallah Rabbani**, Zahra Amirghofran, Fazel Shokri. *Cloning, Expression and Characterization of Recombinant Human Fc Receptor Like 1, 2 and 4 Molecules*. *Iranian Journal of Biotechnology*, Volume 11, Issue 3, Summer 2013, Page 182-192.
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51. Amir Hassan Zarnani, Mehdi Shahbazi, Alireza Salek-Moghaddam, Mehri Zareie, Maryam Tavakoli, Jemileh Ghasemi, Simin Rezania, Ali Moravej, Ebrahim Torkabadi, **Hodjattallah Rabbani**, Mahmood Jeddi-Tehrani. *Vitamin D₃ receptor is expressed in the endometrium of cycling mice throughout the estrous cycle*. Fertility and Sterility, May 15, 2010, Volume 93, Issue 8, Pages 2738–2743.
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Abstracts

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and their relation with sperm morphology. 15th Congress of Iranian Society for Reproductive Medicine, Iranian Journal of Reproductive Medicine, Vol. 7, Suppl 1, Winter 2009 (Oral).

32. Fatemi F, Chamani Tabriz L, Pakzad P, Zeraati H, **Rabbani H**. *Prevalence of infection with group B Streptococcus (GBS) and Lactobacillus species in pregnant women at delivery room*. The 17th Iranian Congress on Infectious Diseases and Tropical Medicine, December 20, 2008 - December 24, 2008, (Oral).

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37. Mahyar Ostadkarampour, Fazel Shokri, Mohammad Mehdi Akhondi, Pouneh Dokouhaki, Jamileh Ghasemi, Abbas Basiri, Shahram Gooran, Mahmood Jeddi-Tehrani, **Hodjattallah Rabbani**. *Expression of Ror1 as an Orphan Receptor for Diagnosis of Renal Cancer*. The 9th Iranian Congress of Biochemistry & the 2nd International Congress of Biochemistry and Molecular Biology Shiraz-Iran, Oct.29-Nov, 1, 2007 (Poster).

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39. **Hodjattallah Rabbani**, Eva Mikaelsson, Amir Hossein Daneshmanesh, Alfred Lüppert, Mahmood Jeddi- Tehrani, Mohammad-Reza Rezvany, Ramazan Ali Sharifian, Reza Safaie, Azam Roohi, Anders Österborg, Fazel Shokri, and Håkan Mellstedt. **Fibromodulin, A Novel Tumor-Associated Antigen Exclusively Expressed in Tumor B-Cells From all Patients with Chronic Lymphocytic Leukemia**. 8th Congress of the European Hematology Association, 12-15 June, 2003, Lyon, France

40. Shahryar Kiaii, Mahmood Jeddi-Tehrani, Anders Österborg, Håkan Mellstedt, and **Hodjattallah Rabbani**. *Utilizing Ki67 Gene Expression for Monitoring T Cell Activation in Vaccination Studies The Society for Biological Therapy's*. 16th Annual Meeting, November 9-11, 2001 in NIH, Bethesda, USA.

41.H. Mellstedt, L. Henriksson, A. O. Abdalla, **H. Rabbani**, A. Österborg. *Combination of the Adjuvant Cytokines GM-CSF and IL-12 With the Idiotype Vaccine Induces a Strong T Cell Immunity and Clinical Effects Might be Obtained*. 8th International Myeloma Workshop, May 4-8, 2001, Banff, Canada

42.**Hodjattallah Rabbani**, Fariba Seyed-Mozaffari, Katja Markovic, Jan-Erik Frödin, and Håkan Mellstedt. *Immunization of Colorectal Carcinoma Patients With Avipox Vector, Expressing The Full-Length Gene of The Ga733/Epcam/Ksa Antigen*. 11th International Congress of Immunology, Stockholm, Sweden, 2001 (Poster).

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44.Parviz Kokhaei, Mohammad-Reza Rezvany, Anders Österborg, **Hodjattallah Rabbani**, and Håkan Mellstedt. *Uptake of Apoptotic Tumor Cell by Autologous Dendritic Cells, A Tool for Immunotherapy in B Cell Malignancies*. 11th International Congress of Immunology, Stockholm, Sweden, 2001

45.**Hodjattallah Rabbani**, Qiang Pan, Naomi Kondo, C. I. Edvard Smith and Lennart Hammarström. *Deletion, Duplication, and Triplication in the Human IGHC Locus in Different Ethnic Groups VII Meeting of the European Society of Immunodeficiencies*, ESID June 6-9, 1996, Göteborg, Sweden (Poster and oral presentation)

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47.**H. Rabbani**, C. I. E. Smith and L. Hammarström. *Analysis of the Human Ig Heavy Chain Constant Locus by PFGE in Different Ethnic Groups*. The 9th International congress of immunology", SanFrancisco, USA, 1995 (oral)

48.**H. Rabbani**, C. I. E. Smith and L. Hammarström. *Deletions and Duplications in the Human Immunoglobulin Heavy Chain Constant Locus*. 8th International Congress of Immunology, Budapest, Hungary, 1992 (oral).

49.L. Hammarström, **H. Rabbani**, A. Bottaro, and CIE Smith. *The Influence of Gene Duplications in the Human IGH Locus on Serum Levels of Immunoglobulins*. 11th European Immunology Meeting, June 10-12, 1991, Helsinki, Finland

Teaching Experience

- Number of Ph.D students under current supervision: **3** Ph.D student: Ali Ahmad Bayat, Miganosh Simonian, Mozhan Haji Ghaffari
- Number of Supervised Ph.D students: **8** Ph.D students: Eva Mikaelson, Amir Hossein DaneshManesh, Shila Sarial, Fatemeh Ghaemimanesh, Mona Noori Koopaei, Flora Forouzes, Lia Farahi, Zahra Tahmasebi Fard
- Number of M. Sc. students under current supervision: **2** Parisa Javadi, Somaieh Roozbahani

- Course No: 1784, 2004, 28 hours, Cancer Center Karolinska, Sweden
- Course no: 1490, October 20-24, 2003, 3 hours, NOVUM, Huddinge, Sweden
- Course: Neurotransmitters and their receptors-molecular biological techniques, Sweden
- Invited seminar, Department of Hematology, 2003, 2 hours, Huddinge Hospital, Sweden
- From gene to protein, Course No: 1594, October 29, 2002, 4 Hours, Cancer Center Karolinska, Sweden
- Organizing Seminar in cDNA Microarray (Affymetrix GeneChip) (Educational), March 12, 200, 1.5 Hours, Cancer Center Karolinska, Sweden
- Course: Neurotransmitters and their receptors-molecular biological techniques, Course no: 1490, 15 and 19 Oct 2001, NOVUM, Huddinge, Sweden
- Course: Biotherapy of human malignant disease (No: 1213) 2000, 4 hours, Cancer Center Karolinska, Sweden
- Seminar series, immunology, 1998, 2 hours; Stockholm University, Sweden
- Seminar series, basic immunology dental school, 1998, 6 hours; Huddinge Hospital, Sweden
- Bioinformatics Course for teachers in biology, 1996, 10 hours; Dept. of Biosciences at NOVUM, Sweden
- Bacteriology course, 1995, 20 hours theory and 20 hours practical teaching
- Hematology course, 1995, 20 hours theory and 20 hours practical teaching,

Granted patents:

Patents by Inventor Hodjattallah Rabbani

Hodjattallah Rabbani has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

DIAGNOSTIC AND THERAPEUTIC TARGET

Publication number: 20140161809

Abstract: An in vitro method for assessing the risk that a subject suffers from a cancer, comprising measuring the expression level of Proline/arginine-rich end leucine repeat protein (PRELP) in cells from said subject, wherein an increased expression level of PRELP, as compared to healthy donors, indicates an increased probability of said subject suffering from cancer. The disclosure further relates to antibodies specific for PRELP and their use in diagnosis and therapy as well as a method for indicating a cell as a cancer cell.

Type: Application

Filed: January 30, 2014

Publication date: June 12, 2014

Applicant: Avicenna Research Institute

Inventor: Hodjattallah Rabbani

Diagnostic and therapeutic target

Patent number: 8658380

Abstract: The present invention relates to an in vitro method for assessing the risk that a subject suffers from a cancer, comprising measuring the expression level of Proline/arginine-rich end leucine repeat protein (PRELP) in cells from said subject, wherein an increased expression level of PRELP, as compared to healthy donors, indicates an increased probability of said subject suffering from cancer. It further relates to antibodies specific for PRELP and their use in diagnosis and therapy as well as a method for indicating a cell as a cancer cell.

Type: Grant

Filed: October 28, 2011

1 of 2

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Date of Patent: February 25, 2014

Assignee: Avicenna Research Institute

Inventor: Hodjattallah Rabbani

BIOLOGICAL INHIBITORS OF ROR1 CAPABLE OF INDUCING CELL DEATH

Publication number: 20140004156

Abstract: The invention relates to antibodies and siRNA molecules for inducing cell death by the specific binding of ROR1, domains thereof of nucleotide molecules encoding ROR1. There are also provided methods involving and uses of the antibodies and siRNA molecules of the invention.

Type: Application

Filed: December 10, 2010

Publication date: January 2, 2014

Inventors: Hakan Mellstedt, Hodjattallah Rabbani, Ingrid Teige

DIAGNOSTIC AND THERAPEUTIC TARGET

Publication number: 20130039917

Abstract: The present invention relates to an in vitro method for assessing the risk that a subject suffers from a cancer, comprising measuring the expression level of Proline/arginine-rich end leucine repeat protein (PRELP) in cells from said subject, wherein an increased expression level of PRELP, as compared to healthy donors, indicates an increased probability of said subject suffering from cancer. It further relates to antibodies specific for PRELP and their use in diagnosis and therapy as well as a method for indicating a cell as a cancer cell.

Type: Application

Filed: October 28, 2011

Publication date: February 14, 2013

Inventor: Hodjattallah Rabbani

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بسمه تعالی

جناب آقای الیاسی

رئیس محترم اداره ثبت اختراعات

با سلام

احتراماً، پیرو نامه استعلام به شماره ۱۳۹۶۵۰۷۴۰۰۰۳۰۱۰۶۸۳ مورخ ۱۳۹۶/۱۱/۲۸ آن اداره در خصوص ثبت اختراع با عنوان " تولید آنتی بادی مونوکلونال اختصاصی بر ضد Sortilin بیان شونده در سلول های خونی بیماران مبتلا به لوسمی لنفوئیدی مزمن به عنوان محصولی با عملکرد تشخیصی و درمانی " به شماره اظهارنامه ۱۳۹۶۵۰۱۴۰۰۰۳۰۱۲۵۳۳ باستحضار می‌رساند موضوع درخواست در کمیته مالکیت فکری انستیتو مطرح و طبق بند ۵ مصوبات جلسه شماره ۹۷/۵/۰۷ م ف به تاریخ ۹۷/۰۵/۰۷ موضوع اختراع در صورت تغییر ادعاینامه و شرح و توصیف (به پیوست) سه شرط نوآوری، گام‌ابتکاری و کاربرد صنعتی را احراز نموده و پیگیری روند ثبت آن بلامانع است.

ضمناً یادآور می‌شود درخواست ثبت اختراع جاری از شمول تبصره د ماده ۴ قانون ثبت اختراعات خارج است و متقاضیان در روند بررسی و داوری هیچگونه مداخله و مشارکت ندارد. همچنین اعلام می‌دارد کلیه بررسی و داوری‌ها در کمیته مالکیت فکری انستیتو پاستور که یک کمیته مستقل است انجام می‌شود لکن انستیتو پاستور ایران هیچگونه مسئولیتی در قبال تولید، فروش یا صادرات محصولات مشتق از این اختراع ندارد.

رد	تائید	وضعیت	رد	تائید	وضعیت
	✓	۵- اختراع واحد		✓	۱- نوآوری
	✓	۶- کفایت افشاء		✓	۲- گام ابتکاری
	✓	۷- امکان بررسی مجدد پرونده توسط مرجع دیگر حسب صلاحدید		✓	۳- کاربرد صنعتی
	✓	۸- نظر نهایی کمیته مالکیت فکری انستیتو پاستور		✓	۴- شفافیت ادعاها

دکتر سعید بوذری
معاون تحقیقات، فناوری و آموزش



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سازمان ثبت اسناد و املاک کشور

گواهی نامه ثبت اختراع



۰۲۸۲۵۰ الف/۸۹

شخصات مالک: حجت اله ربانی، شماره ملی: ۰۰۵۰۳۲۹۶۸۵، نشانی: تهران-شهرک نفت-خیابان ۲۹ اسفند-خیابان بیست و دوم، پلاک ۱۴-برج کوهپایه، طبقه نهم، واحد ۹۵-شرکت پادزا پادتن پژوه، کد پستی: ۱۴۶۹۸۶۳۹۷۱، تابعیت جمهوری اسلامی ایران

شخصات مخترع: حجت اله ربانی، شماره ملی: ۰۰۵۰۳۲۹۶۸۵، نشانی: تهران-شهرک نفت-خیابان ۲۹ اسفند-خیابان بیست و دوم-پلاک ۱۴-برج کوهپایه-طبقه ۹-واحد ۹۵-شرکت پادزا پادتن پژوه، کد پستی: ۱۴۶۹۸۶۳۹۷۱، تابعیت جمهوری اسلامی ایران

عنوان اختراع: اپتی بادی بر مبنای پیپتید ضد فیبرومودولین (FMOD) با خصوصیت تشخیص فیبرومودولین سطح سلولی به عنوان یک هدف تشخیصی و درمانی در بیماران مبتلا به سرطان

طبقه بندی بین المللی: A61K 39/395; A61P 35/00; C07K 16/28

حق تقدم:

شماره و تاریخ اظهارنامه اصلی:
 کپی ثبت:

شماره و تاریخ ثبت اختراع:	شماره و تاریخ ثبت اختراع:	شماره و تاریخ ثبت اختراع:	شماره و تاریخ ثبت اختراع:
۱۳۹۷/۰۶/۱۴ - ۹۶۶۹۱	۱۳۹۶/۰۷/۲۶	۱۳۹۶۵۰۱۴۰۰۰۳۰۰۸۶۱۳	۱۴۱۶/۰۷/۲۶ - ۱۳۹۶/۰۷/۲۶
امضاء:	تاریخ: ۶/۳۰/۹۷	مهرداد الیاسی	اداره کل مالکیت صنعتی مرکز مالکیت معنوی ریس اداره ثبت اختراعات

مدت حمایت اختراع 20 سال از تاریخ تسلیم اظهارنامه مع باشد موط به اینکه اساط سالانه اختراع در موعدهمقرر توسط متقاضی پرداخت شود
* تمام گواهی نامه، توصیف ادعا، ظاهر توصیف و نقش
* در صورت ندره مخترع، مالکین و یا شیراز مراتب بشن ندرج در گواهی نامه می باشد.

۱۳۹۷/۰۶/۱۴

۵۵۰
سال



قوه قضائیه

سازمان ثبت اسناد و املاک کشور



کوپایی نامه ثبت اختراع

۰۲۸۳۴۹ الف / ۸۹

حجت اله ربانی، شماره ملی: ۰۰۵۰۳۲۹۶۸۵، نشانی: تهران-شهرک نفت-خیابان ۲۹ اسفند-خیابان بیست و دوم-پلاک ۱۳-برج کوهپایه-طبقه نهم-واحد ۹۵-شرکت پادزا پادتن پژوه، کد پستی: ۱۴۶۹۸۶۳۹۷۱، تابعیت جمهوری اسلامی ایران

حجت اله ربانی، شماره ملی: ۰۰۵۰۳۲۹۶۸۵، نشانی: تهران-شهرک نفت-خیابان ۲۹ اسفند-خیابان بیست و دوم-پلاک ۱۳-برج کوهپایه-طبقه نهم-پلاک ۹۵-شرکت پادزا پادتن پژوه، کد پستی: ۱۴۶۹۸۶۳۹۷۱، تابعیت جمهوری اسلامی ایران

عنوان اختراع: تولید آنتی بادی منوکلونال اختصاصی ضد مارکر سرطانی Rof1 و متصل به ماده رادیویزوتوپ ^{67}Ga به عنوان محصولی اختصاصی جهت تسویبربرداری و تشخیص میتلابان بد سرطان پستان

طبقه بندی بین المللی A61P 35/00; A61K 39/395; C07K 16/28

حق تقدم:

شماره و تاریخ اظهار نامه اصلی:
 عمل ثبت:

شماره و تاریخ ثبت اختراع:	شماره و تاریخ ثبت اظهار نامه:	بذت ثابت: ۲۰ سال از تاریخ
۱۴۹۷/۰۶/۱۸ - ۱۶۶۸۳	۱۳۹۶/۰۹/۰۹ - ۱۳۹۶۵۰۱۴۰۰۰۲۰۱۰۳۴۴	۱۴۹۶/۰۹/۰۹ تا ۱۳۹۶/۰۹/۰۹
مهر داد الیاسی		رئیس اداره ثبت اختراعات

مدت حمایت اختراع 20 سال از تاریخ تسلیم اظهارنامه می باشد موطوبه اینکه اقسام سالانه اختراع در مواعد مقرر توسط متقاضی پرداخت شود

* تمام کوپایی نامه: توصیف ادعا، شماره توصیف و متن

* در صورت تعدد مخترعین، مالکین یا مخترعات در انب شرح ندرج در کوپایی نامه می باشد.

۱۳۹۷/۰۶/۱۸

۵۵۰
سال



قوه قضائیه

سازمان ثبت اسناد و املاک کشور

گواهی نامه ثبت اختراع



۰۲۸۳۵۱ الف / ۸۹

شخصات مالک: ۱۲ برج کوهپایه، طبقه نهم، واحد ۹۵، شرکت پادزا پادتن پژوه، کد پستی: ۱۴۶۹۸۶۳۹۷۱، تابعیت جمهوری اسلامی ایران

شخصات مخترع: حجت اله ربانی، شماره ملی: ۰۰۵۰۳۲۹۶۸۵، نشانی: تهران-شهرک نفت-خیابان ۲۹ اسفند-خیابان بیست و دوم، پلاک ۱۲-برج کوهپایه-طبقه نهم-واحد ۹۵-شرکت پادزا پادتن پژوه، کد پستی: ۱۴۶۹۸۶۳۹۷۱، تابعیت جمهوری اسلامی ایران

موضوع اختراع: تولید آنتی بادی منوکلونال اختصاصی بر ضد **Sortilin** بیان شونده در سلول های خونی بیماران مبتلا به لوسمی لنفوبیدی مزمن، به عنوان محصولی با عملکرد تشخیصی و درمانی

طبقه بندی بین المللی: A61P 35/02; A61K 39/395; C07K 16/28

حق تقدم:

شماره و تاریخ اظهار نامه اصلی:

کل ثبت:

مدرک حمایت: ۲۰ سال از تاریخ	شماره و تاریخ ثبت اختراع اصلی:	شماره و تاریخ ثبت اختراع:
۱۳۹۶/۱۰/۳۰ تا ۱۴۱۶/۱۰/۳۰	۱۳۹۶/۱۰/۳۰	۱۳۹۷/۰۶/۱۹
اداره مالکیت صنعتی * مرکز مالکیت صنعتی	تاریخ: ۱۳۹۷/۱۰/۳۰	امضاء:
رئیس اداره ثبت اختراعات	مهرداد الیاسی	

مدت حمایت اختراع ۲۰ سال از تاریخ تسلیم اظهارنامه می باشد منوط به اینکه اساط سالانه اختراع در مواعید مقرر توسط متقاضی پرداخت شود

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