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1. [3827003](#) PROCESS FOR PREPARING MANNOSE DERIVATIVES

EP - 02.06.2021

Int.Class [C07D 405/14](#) Appl.No 19746466 Applicant ENTEROME Inventor AREFYEV DENIS VIKTOROVICH

The invention relates to a process to prepare a compound of the following formula (I): (I), in which P represents a protective group of a hydroxyl function which is a -COR₁ group with R₁ representing an aryl or a [C₁C₆]alkyl, R represents a hydrogen atom or a protective group of a terminal alkyne, from mannose, comprising the following steps: (a) protecting the 5 hydroxyl groups of the mannose by a protective group P; (b) coupling the protected mannose obtained at step (a) with a compound of the following formula (II). The present invention also relates to a compound of formula (IIIa).

2. [20210309682](#) PROCESS FOR PREPARING MANNOSE DERIVATIVES

US - 07.10.2021

Int.Class [C07H 1/06](#) Appl.No 17263012 Applicant ENTEROME Inventor Denis Viktorovich AREFYEV

The invention relates to a process to prepare a compound of the following formula (I): (I), in which P represents a protective group of a hydroxyl function which is a -COR¹ group with R¹ representing an aryl or a [C₁C₆]alkyl, R represents a hydrogen atom or a protective group of a terminal alkyne, from mannose, comprising the following steps: (a) protecting the 5 hydroxyl groups of the mannose by a protective group P; (b) coupling the protected mannose obtained at step (a) with a compound of the following formula (II). The present invention also relates to a compound of formula (IIIa).

3. [WO/2020/021113](#) PROCESS FOR PREPARING MANNOSE DERIVATIVES

WO - 30.01.2020

Int.Class [C07D 405/14](#) Appl.No PCT/EP2019/070276 Applicant ENTEROME Inventor AREFYEV, Denis Viktorovich

The invention relates to a process to prepare a compound of the following formula (I): (I), in which P represents a protective group of a hydroxyl function which is a -COR₁ group with R₁ representing an aryl or a [C₁C₆]alkyl, R represents a hydrogen atom or a protective group of a terminal alkyne, from mannose, comprising the following steps: (a) protecting the 5 hydroxyl groups of the mannose by a protective group P; (b) coupling the protected mannose obtained at step (a) with a compound of the following formula (II). The present invention also relates to a compound of formula (IIIa).

4. [20200025774](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES

US - 23.01.2020

Int.Class [G01N 33/68](#) Appl.No 16338954 Applicant ENTEROME S.A. Inventor Laurent CHENE

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

5. [WO/2018/065628](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES

WO - 12.04.2018

Int.Class [A61K 39/00](#) Appl.No PCT/EP2017/075683 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

6. [20210106652](#) IMMUNOGENIC COMPOUNDS FOR TREATMENT OF FIBROSIS, AUTOIMMUNE DISEASES AND INFLAMMATION

US - 15.04.2021

Int.Class [A61K 38/17](#) Appl.No 17043197 Applicant ENTEROME S.A. Inventor Laurent CHENE

The present invention relates to antigen-based immunotherapy targeting interleukin 13 receptor alpha 2 (IL13RA2) for prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease. In particular, the present invention provides the use of a (poly)peptide comprising an epitope of IL13RA2 or a sequence variant thereof for prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease. Moreover, the present invention also provides an immunogenic compound, a nanoparticle and a pharmaceutical composition comprising such a (poly)peptide and a nucleic acid encoding such a (poly)peptide for use in prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease.

7. [112022007203](#) COMPOSTOS IMUNOGÊNICOS PARA TRATAMENTO DE CÂNCER ADRENAL

BR - 05.07.2022

Int.Class [A61P 35/00](#) Appl.No EP2020079226 Applicant ENTEROME S.A. Inventor LAURENT CHENE

COMPOSTOS IMUNOGÊNICOS PARA TRATAMENTO DE CÂNCER ADRENAL. A presente invenção refere-se a imunoterapia baseada em antígeno direcionando o receptor alfa 2 de interleucina 13 (IL13RA2), BIRC5 e/ou FOXM1 para o tratamento de cânceres adrenais. Em particular, a presente invenção fornece o uso de um [poli]peptídeo compreendendo um epítipo de IL13RA2, BIRC5 e/ou FOXM1 ou uma variante de sequência dos mesmos para o tratamento de um câncer adrenal. Além disso, a presente invenção também fornece combinações do [poli]peptídeo compreendendo um epítipo de IL13RA2, BIRC5 e/ou FOXM1 ou uma variante de sequência dos mesmos com [poli]peptídeos compreendendo outros epítipos ou sequências variantes dos mesmos para tratamento de cânceres adrenais.

8. [WO/2019/197563](#) IMMUNOGENIC COMPOUNDS FOR TREATMENT OF FIBROSIS, AUTOIMMUNE DISEASES AND INFLAMMATION WO - 17.10.2019

Int.Class [A61K 38/17](#) Appl.No PCT/EP2019/059319 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to antigen-based immunotherapy targeting interleukin 13 receptor alpha 2 (IL13RA2) for prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease. In particular, the present invention provides the use of a [poly]peptide comprising an epitope of IL13RA2 or a sequence variant thereof for prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease. Moreover, the present invention also provides an immunogenic compound, a nanoparticle and a pharmaceutical composition comprising such a [poly]peptide and a nucleic acid encoding such a [poly]peptide for use in prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease.

9. [WO/2021/074389](#) IMMUNOGENIC COMPOUNDS FOR TREATMENT OF ADRENAL CANCER WO - 22.04.2021

Int.Class [A61P 35/00](#) Appl.No PCT/EP2020/079226 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to antigen-based immunotherapy targeting interleukin 13 receptor alpha 2 (IL13RA2), BIRC5 and/or FOXM1 for treatment of adrenal cancers. In particular, the present invention provides the use of a [poly]peptide comprising an epitope of IL13RA2, BIRC5 and/or FOXM1 or a sequence variant thereof for treatment of an adrenal cancer. Moreover, the present invention also provides combinations of the [poly]peptide comprising an epitope of IL13RA2, BIRC5 and/or FOXM1 or a sequence variant thereof with [poly]peptides comprising other epitopes or sequence variants thereof for treatment of adrenal cancers.

10. [20160258017](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE US - 08.09.2016

Int.Class [C12Q 1/68](#) Appl.No 15011314 Applicant ENTEROME Inventor Alessandra Cristina L. Cervino

The invention relates to methods of analyzing a sample from a subject having or suspected of having Crohn's disease for the abundance of the subject's nucleic acid (e.g., DNA) in the sample. The invention also relates to methods for measuring abundance of nucleic acid (e.g., DNA) in stool from a human subject having or suspected of having Crohn's Disease (CD). In various embodiments, an in vitro method includes analyzing the relative abundance of the host [human] DNA in said sample of stool or nucleic acid extracted or isolated from a stool sample from the host [human]; determining the relative abundance of the host [human's] DNA in the sample; and associating the abundance of the host [human] DNA with the host [human] providing the stool sample, or the host [human] providing the stool sample from which the nucleic acid was extracted.

11. [201717023697](#) HOST DNA AS A BIOMARKER OF CROHN S DISEASE IN - 06.10.2017

Int.Class [C12Q 1/68](#) Appl.No 201717023697 Applicant ENTEROME Inventor CERVINO Alessandra

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

12. [20180251844](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE US - 06.09.2018

Int.Class [C12Q 1/68](#) Appl.No 15877336 Applicant ENTEROME Inventor Alessandra Cristina L Cervino

The invention relates to methods of analysing a sample from a subject having or suspected of having Crohn's disease for the abundance of the subject's nucleic acid (e.g., DNA) in the sample. The invention also relates to methods for measuring abundance of nucleic acid (e.g., DNA) in stool from a human subject having or suspected of having Crohn's Disease (CD). In various embodiments, an in vitro method includes analysing the relative abundance of the host [human] DNA in said sample of stool or nucleic acid extracted or isolated from a stool sample from the host [human]; determining the relative abundance of the host [human's] DNA in the sample; and associating the abundance of the host [human] DNA with the host [human] providing the stool sample, or the host [human] providing the stool sample from which the nucleic acid was extracted.

13. [734710](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE NZ - 25.08.2017

Int.Class [C12Q 1/68](#) Appl.No 734710 Applicant ENTEROME Inventor CERVINO, Alessandra

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

14. [2016211113](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE AU - 04.08.2016

Int.Class [C12Q 1/68](#) Appl.No 2016211113 Applicant Enterome Inventor Cervino, Alessandra

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

15. [2973307](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE

CA - 04.08.2016

Int.Class [C12Q 1/6809](#) Appl.No 2973307 Applicant ENTEROME Inventor CERVINO, ALESSANDRA

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

16. [112017014978](#) MÉTODO IN VITRO DE DIAGNÓSTICO DA ATIVIDADE DE DOENÇA DE CROHN E KIT

BR - 20.03.2018

Int.Class [C12Q 1](#) Appl.No 112017014978 Applicant ENTEROME Inventor ALESSANDRA CERVINO

a presente invenção refere-se a um método in vitro de diagnóstico de doença de crohn em pacientes, que compreende: [a] obtenção de amostra biológica do mencionado paciente; [b] análise da abundância relativa do dna hospedeiro na mencionada amostra; e [c] diagnóstico de que o mencionado paciente sofre de doença de crohn se a mencionada abundância relativa for mais alta que um valor de referência. a presente invenção também se refere a um método in vitro de diagnóstico do estado [estável ou instável] da doença de crohn em pacientes, que compreende as etapas de: [a] obtenção de amostra biológica do mencionado paciente; [b] análise da abundância relativa do dna hospedeiro na mencionada amostra; e [c] diagnóstico de que o mencionado paciente sofre de doença de crohn em estado instável se a mencionada abundância relativa for mais alta que outro valor de referência.

17. [2693973](#) ADN HOSPEDADOR COMO UN BIOMARCADOR DE LA ENFERMEDAD DE CROHN

ES - 17.12.2018

Int.Class [C12Q 1/6883](#) Appl.No 16702120 Applicant Enterome Inventor CERVINO, Alessandra

Método in vitro para diagnosticar la actividad de la enfermedad de Crohn (CD) en un sujeto que sufre de la misma, comprendiendo dicho método las etapas de: a) obtener una muestra de heces de dicho sujeto, b) determinar la abundancia relativa del ADN hospedador en dicha muestra, y c) diagnosticar que dicho sujeto presenta una enfermedad de Crohn en un estado inestable si dicha abundancia relativa es superior a un valor de referencia, siendo dicho valor de referencia preferentemente de aproximadamente 10%.

18. [2017009752](#) ADN HUESPED COMO BIOMARCADOR DE LA ENFERMEDAD DE CROHN.

MX - 07.12.2017

Int.Class [C12Q 1/68](#) Appl.No 2017009752 Applicant ENTEROME Inventor Alessandra CERVINO

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

19. [WO/2016/120475](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE

WO - 04.08.2016

Int.Class [C12Q 1/68](#) Appl.No PCT/EP2016/051989 Applicant ENTEROME Inventor CERVINO, Alessandra

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

20. [3250710](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE

EP - 06.12.2017

Int.Class [C12Q 1/6883](#) Appl.No 16702120 Applicant ENTEROME Inventor CERVINO ALESSANDRA

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

21. [107208159](#) HOST DNA AS BIOMARKER OF CROHN'S DISEASE

CN - 26.09.2017

Int.Class [C12Q 1/68](#) Appl.No 201680007943.4 Applicant ENTEROME Inventor CERVINO ALESSANDRA

The present invention relates to an in vitro method for diagnosing Crohn disease in a subject comprising: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject suffers from Crohn disease if said relative abundance is higher than a reference value. The present invention also relates to an in vitro method for diagnosing the state (stable or unstable) of the Crohn disease in a subject, comprising the steps of: a) obtaining a biological sample from said subject, b) analysing the relative abundance of the host DNA in said sample, and, c) diagnosing that said subject has a Crohn disease in an unstable state if said relative abundance is higher than another reference value.

22. [253327](#) HOST DNA AS A BIOMARKER OF CROHN'S DISEASE

IL - 28.09.2017

Int.Class [C12Q 01/68](#) Appl.No 253327 Applicant ENTEROME Inventor23. [WO/2019/076931](#) NEW TOOLS FOR ASSESSING FIMH BLOCKERS THERAPEUTIC EFFICIENCY

WO - 25.04.2019

Int.Class [C12Q 1/68](#) Appl.No PCT/EP2018/078297 Applicant ENTEROME Inventor CERVINO, Alessandra

The present invention relates to an *in vitro* method for identifying subjects hosting high amounts of Fim H expressing proteobacteria in their gut, said method comprising the step of detecting the expression of the *fimH* gene in a stool sample of said subjects.

24. [3079119](#) NEW TOOLS FOR ASSESSING FIMH BLOCKERS THERAPEUTIC EFFICIENCY CA - 25.04.2019

Int.Class [C12Q 1/68](#) Appl.No 3079119 Applicant ENTEROME Inventor

The present invention relates to an *in vitro* method for identifying subjects hosting high amounts of Fim H expressing proteobacteria in their gut, said method comprising the step of detecting the expression of the *fimH* gene in a stool sample of said subjects.

25. [3697924](#) NEW TOOLS FOR ASSESSING FIMH BLOCKERS THERAPEUTIC EFFICIENCY EP - 26.08.2020

Int.Class [C12Q 1/68](#) Appl.No 18785378 Applicant ENTEROME Inventor CERVINO ALESSANDRA

The present invention relates to an *in vitro* method for identifying subjects hosting high amounts of Fim H expressing proteobacteria in their gut, said method comprising the step of detecting the expression of the *fimH* gene in a stool sample of said subjects.

26. [20200277655](#) NEW TOOLS FOR ASSESSING FIMH BLOCKERS THERAPEUTIC EFFICIENCY US - 03.09.2020

Int.Class [C12Q 1/689](#) Appl.No 16755829 Applicant ENTEROME Inventor Alessandra CERVINO

The present invention relates to an *in vitro* method for identifying subjects hosting high amounts of Fim H expressing proteobacteria in their gut, said method comprising the step of detecting the expression of the *fimH* gene in a stool sample of said subjects.

27. [2018351471](#) NEW TOOLS FOR ASSESSING FIMH BLOCKERS THERAPEUTIC EFFICIENCY AU - 25.04.2019

Int.Class [C12Q 1/68](#) Appl.No 2018351471 Applicant Enterome Inventor BONNY, Christophe

The present invention relates to an *in vitro* method for identifying subjects hosting high amounts of Fim H expressing proteobacteria in their gut, said method comprising the step of detecting the expression of the *fimH* gene in a stool sample of said subjects.

28. [2017339577](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY AU - 12.04.2018

Int.Class [C07K 14/715](#) Appl.No 2017339577 Applicant Enterome S.A. Inventor Chene, Laurent

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of sequences described in the specification.

29. [3039322](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY CA - 12.04.2018

Int.Class [A61K 39/00](#) Appl.No 3039322 Applicant ENTEROME S.A. Inventor

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of sequences described in the specification.

30. [20200113983](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY US - 16.04.2020

Int.Class [A61K 39/00](#) Appl.No 16338953 Applicant ENTEROME S.A. Inventor Laurent CHENE

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of sequences described in the specification.

31. [WO/2018/065623](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY WO - 12.04.2018

Int.Class [A61K 39/00](#) Appl.No PCT/EP2017/075673 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of sequences described in the specification.

32. [201917013678](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY IN - 28.06.2019

Int.Class [A61K 39/00A](#) Appl.No 201917013678 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen which antigenic peptide is selected in the group consisting of sequences described in the specification.

33. [2022200872](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY AU - 24.02.2022

Int.Class [C07K 14/715](#) Appl.No 2022200872 Applicant Enterome S.A. Inventor Chene, Laurent

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of sequences described in the specification.

34. [265751](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY

IL - 30.05.2019

Int.Class [A61K/](#) Appl.No 265751 Applicant ENTEROME S.A. Inventor35. [3153470](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF B-CELL MALIGNANCY

CA - 20.05.2021

Int.Class [A61K 39/00](#) Appl.No 3153470 Applicant ENTEROME S.A. Inventor CHENE, LAURENT

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, especially share the same core sequence with epitopes of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

36. [2020384926](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF B-CELL MALIGNANCY

AU - 20.05.2021

Int.Class [A61K 39/00](#) Appl.No 2020384926 Applicant Enterome S.A. Inventor CHENE, Laurent

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, especially share the same core sequence with epitopes of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

37. [WO/2021/148650](#) IDENTIFICATION AND SYNTHESIS OF DRUG CANDIDATES DERIVED FROM HUMAN MICROBIOME METASECRETOME PROTEINS

WO - 29.07.2021

Int.Class [G01N 33/569](#) Appl.No PCT/EP2021/051523 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to the treatment of diseases relating to proteins of the human microbiome metasecretome and, thus, to microbiome interactions, especially microbiome- host interactions. In particular the present invention relates to a method for identification of secreted peptides and proteins of the human microbiome. The present invention also relates to methods for generating a database of human microbiome metasecretome protein sequences. Furthermore, the present invention relates to a method for preparing a protein of the human microbiome metasecretome as well as to the use of such proteins in medicine.

38. [WO/2021/094562](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF B-CELL MALIGNANCY

WO - 20.05.2021

Int.Class [A61K 39/00](#) Appl.No PCT/EP2020/082101 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, especially share the same core sequence with epitopes of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

39. [WO/2019/197567](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER

WO - 17.10.2019

Int.Class [A61K 39/00](#) Appl.No PCT/EP2019/059329 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

40. [202017042535](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER

IN - 22.01.2021

Int.Class [A61K 39/00](#) Appl.No 202017042535 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

41. [112020020780](#) PEPTÍDEOS ANTIGÊNICOS PARA PREVENÇÃO E TRATAMENTO DO CÂNCER

BR - 02.03.2021

Int.Class [A61K 39](#) Appl.No 112020020780 Applicant ENTEROME S.A. Inventor CHRISTOPHE BONNY

a presente invenção se refere a imunoterapia baseada em antígeno, em particular imunoterapia contra o câncer. em particular, a presente invenção fornece peptídeos antigênicos, que são distintos, mas têm similaridade de aminoácidos com fragmentos de antígenos tumorais humanos. a presente invenção fornece ainda compostos imunogênicos, nanoparticulas, células e composições farmacêuticas compreendendo tais peptídeos antigênicos e ácidos nucleicos que codificam tais peptídeos antigênicos.

42. [2019253217](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER

AU - 17.10.2019

Int.Class [A61K 39/00](#) Appl.No 2019253217 Applicant Enterome S.A. Inventor CHENE, Laurent

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

43. [20210113678](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER US - 22.04.2021

Int.Class [A61K 39/00](#) Appl.No 17043192 Applicant ENTEROME S.A. Inventor Laurent CHENE

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

44. [3094262](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER CA - 17.10.2019

Int.Class [A61K 39/00](#) Appl.No 3094262 Applicant ENTEROME S.A. Inventor CHENE, LAURENT

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

45. [3522917](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES EP - 14.08.2019

Int.Class [A61K 39/00](#) Appl.No 17788150 Applicant ENTEROME S A Inventor CHENE LAURENT

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

46. [3773673](#) IMMUNOGENIC COMPOUNDS FOR TREATMENT OF FIBROSIS, AUTOIMMUNE DISEASES AND INFLAMMATION EP - 17.02.2021

Int.Class [A61K 38/17](#) Appl.No 19718636 Applicant ENTEROME S A Inventor CHENE LAURENT

The present invention relates to antigen-based immunotherapy targeting interleukin 13 receptor alpha 2 (IL13RA2) for prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease. In particular, the present invention provides the use of a [poly]peptide comprising an epitope of IL13RA2 or a sequence variant thereof for prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease. Moreover, the present invention also provides an immunogenic compound, a nanoparticle and a pharmaceutical composition comprising such a [poly]peptide and a nucleic acid encoding such a [poly]peptide for use in prevention and/or treatment of fibrosis, an autoimmune disease and/or an inflammatory disease.

47. [3023614](#) SYSTEME DE COLLECTE D'ECHANTILLONS DE MATIERE FECALE FR - 15.01.2016

Int.Class [G01N 1/02](#) Appl.No 1456674 Applicant ENTEROME Inventor DORE JOEL

L'invention concerne un système de collecte [1] d'échantillons de matière fécale comprenant : - un récipient [10] adapté pour recevoir un fluide de conservation [2], ledit récipient [10] présentant un orifice d'entrée [12], - une cuillère de prélèvement [20], configurée pour être fixée de manière étanche sur le récipient [10], et - un manchon [40], fixé sur le récipient [10] de manière à entourer l'orifice d'entrée [12], la cuillère de prélèvement [20] étant configurée pour être introduite dans le récipient [10] à travers le manchon [40] et l'orifice d'entrée [12].

48. [WO/2018/065625](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY WO - 12.04.2018

Int.Class [A61K 39/00](#) Appl.No PCT/EP2017/075676 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of peptides having amino acid similarity with IL13RA2, the said antigenic peptide being selected in the group consisting of sequences described in the specification.

49. [20190388532](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY US - 26.12.2019

Int.Class [A61K 39/00](#) Appl.No 16338955 Applicant ENTEROME S.A. Inventor Laurent CHENE

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of peptides having amino acid similarity with IL13RA2, the said antigenic peptide being selected in the group consisting of sequences described in the specification.

50. [20200256877](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES US - 13.08.2020

Int.Class [G01N 33/68](#) Appl.No 16753657 Applicant ENTEROME S.A. Inventor Laurent CHENE

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

51. [2018348432](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES AU - 18.04.2019

Int.Class [A61K 39/00](#) Appl.No 2018348432 Applicant Enterome S.A. Inventor BONNY, Christophe

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota

sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

52. [3075363](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES

CA - 18.04.2019

Int.Class [A61K 39/00](#) Appl.No 3075363 Applicant ENTEROME S.A. Inventor

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

53. [273648](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES

IL - 31.05.2020

Int.Class [A61K 39/00](#) Appl.No 273648 Applicant ENTEROME S.A. Inventor

54. [WO/2019/072871](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES

WO - 18.04.2019

Int.Class [A61K 39/00](#) Appl.No PCT/EP2018/077515 Applicant ENTEROME S.A. Inventor CHENE, Laurent

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

55. [WO/2021/148646](#) MICRIBIOTA-DERIVED PROTEINS INDUCING IL-10 RELEASE FROM HUMAN CELLS AND USES THEREOF

WO - 29.07.2021

Int.Class [A61K 35/74](#) Appl.No PCT/EP2021/051519 Applicant ENTEROME S.A. Inventor CULTRONE, Antoinetta

The present invention relates to microbiota-derived proteins, which are capable of inducing and/or enhancing secretion of IL-10 from human cells. Accordingly, the present invention provides microbial proteins, and fragments and sequence variants thereof, which stimulate IL-10 release from human immune cells. The present invention also relates to nucleic acids encoding such proteins, cells expressing such proteins, respective pharmaceutical compositions and uses thereof.

56. [3522915](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY

EP - 14.08.2019

Int.Class [A61K 39/00](#) Appl.No 17787365 Applicant ENTEROME S A Inventor CHENE LAURENT

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of sequences described in the specification.

57. [3855183](#) IDENTIFICATION AND SYNTHESIS OF DRUG CANDIDATES DERIVED FROM HUMAN MICROBIOME METASECRETOME PROTEINS

EP - 28.07.2021

Int.Class [G01N 33/569](#) Appl.No 20305060 Applicant ENTEROME SA Inventor CHENE LAURENT

The present invention relates to the treatment of diseases relating to proteins of the human microbiome metasecretome and, thus, to microbiome interactions, especially microbiome-host interactions. In particular the present invention relates to a method for identification of secreted peptides and proteins of the human microbiome. The present invention also relates to methods for generating a database of human microbiome metasecretome protein sequences. Furthermore, the present invention relates to a method for preparing a protein of the human microbiome metasecretome as well as to the use of such proteins in medicine.

58. [4021487](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF B-CELL MALIGNANCY

EP - 06.07.2022

Int.Class [A61K 39/00](#) Appl.No 20804279 Applicant ENTEROME SA Inventor CHENE LAURENT

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, especially share the same core sequence with epitopes of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

59. [3773689](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER

EP - 17.02.2021

Int.Class [A61K 39/00](#) Appl.No 19716176 Applicant ENTEROME SA Inventor CHENE LAURENT

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

60. [3522916](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY

EP - 14.08.2019

Int.Class [A61K 39/00](#) Appl.No 17788147 Applicant ENTEROME SA Inventor CHENE LAURENT

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of peptides having amino acid similarity with IL13RA2, the said antigenic peptide being selected in the group consisting of sequences described in the specification.

61. [3854407](#) MICROBIOTA-DERIVED PROTEINS INDUCING IL-10 RELEASE FROM HUMAN CELLS AND USES THEREOF EP - 28.07.2021

Int.Class [A61K 35/74](#) Appl.No 20305061 Applicant ENTEROME S A Inventor CULTRONE ANTONIETTA

The present invention relates to microbiota-derived proteins, which are capable of inducing and/or enhancing secretion of IL-10 from human cells. Accordingly, the present invention provides microbial proteins, and fragments and sequence variants thereof, which stimulate IL-10 release from human immune cells. The present invention also relates to nucleic acids encoding such proteins, cells expressing such proteins, respective pharmaceutical compositions and uses thereof.

62. [3694541](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES EP - 19.08.2020

Int.Class [A61K 39/00](#) Appl.No 18782459 Applicant ENTEROME S A Inventor CHENE LAURENT

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

63. [110049774](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES CN - 23.07.2019

Int.Class [A61K 39/00](#) Appl.No 201780075898.0 Applicant ENTEROME S.A. Inventor CHENE LAURENT

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

64. [110022893](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY CN - 16.07.2019

Int.Class [A61K 39/00](#) Appl.No 201780074774.0 Applicant ENTEROME Inventor CHENE LAURENT

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of sequences described in the specification.

65. [20180251819](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER US - 06.09.2018

Int.Class [C12Q 1/689](#) Appl.No 15972620 Applicant ENTEROME Inventor Matthieu Pichaud

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

66. [112015008621](#) MÉTODOS E KIT DE DIAGNÓSTICO E/OU PROGNÓSTICO IN VITRO MICROCONJUNTO DE ÁCIDOS NUCLEICOS. BR - 28.08.2018

Int.Class [C12Q 1](#) Appl.No 112015008621 Applicant ENTEROME Inventor MATTHIEU PICHAUD

67. [WO/2014/060555](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER WO - 24.04.2014

Int.Class [C12Q 1/68](#) Appl.No PCT/EP2013/071793 Applicant ENTEROME Inventor PICHAUD, Matthieu

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

68. [3796/DELNP/2015](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER IN - 02.10.2015

Int.Class [C12Q 1/68](#) Appl.No 3796/DELNP/2015 Applicant ENTEROME Inventor PICHAUD Matthieu

This invention is related to the area of characterization of inflammation in relation with the gut microbiota in metabolic and autoimmune disorders. In particular it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases such as liver related metabolic disorders in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis prognosis stratification for drug studies for monitoring patient and for assigning an appropriate treatment.

69. [110022894](#) IMMUNOGENIC COMPOUNDS FOR CANCER THERAPY CN - 16.07.2019 

Int.Class [A61K 39/00](#) Appl.No 201780074779.3 Applicant ENTEROME Inventor CHENE LAURENT

The invention relates to an immunogenic compound comprising an antigenic peptide having amino acid similarity with a tumor antigen, which antigenic peptide is selected in the group consisting of peptides having amino acid similarity with IL13RA2, the said antigenic peptide being selected in the group consisting of sequences described in the specification.

70. [2886748](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER

CA - 24.04.2014

Int.Class [C12Q 1/6876](#) Appl.No 2886748 Applicant ENTEROME Inventor PICHAUD, MATTHIEU

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms [steatohepatitis and cirrhosis] or autoimmune disorders, in particular inflammatory bowel diseases [Crohn's and Ulcerative Colitis]. These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

71. [2019210666](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER

AU - 15.08.2019

Int.Class [C12Q 1/68](#) Appl.No 2019210666 Applicant Enterome Inventor Ehrlich, Stanislav

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms [steatohepatitis and cirrhosis] or autoimmune disorders, in particular inflammatory bowel diseases [Crohn's and Ulcerative Colitis]. These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

72. [238025](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER

IL - 31.05.2015

Int.Class [C12Q 01/68](#) Appl.No 238025 Applicant INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE Inventor

73. [WO/2021/148661](#) COMPOSITIONS FOR TREATING EPITHELIAL BARRIER FUNCTION DISORDERS

WO - 29.07.2021

Int.Class [C07K 14/195](#) Appl.No PCT/EP2021/051535 Applicant ENTEROME Inventor NEPELSKA, Malgorzata

The present disclosure relates to novel pharmaceutical compositions comprising recombinantly engineered probiotic bacteria that can be used, inter alia, in the treatment of gastrointestinal inflammatory diseases and epithelial barrier function disorders. The probiotic bacteria preferably contain a nucleic acid encoding the heterodimeric protein of SEQ ID NO:1 and 2, or homologous sequences thereof sharing at least 80% identity with said sequences. In some embodiments, the pharmaceutical compositions described herein have particular application in the treatment or prevention of disease states associated with abnormally permeable epithelial barriers as well as inflammatory bowel diseases or disorders.

74. [112118863](#) ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER

CN - 22.12.2020

Int.Class [A61K 39/00](#) Appl.No 201980032574.8 Applicant ENTEROME S.A. Inventor CHENE LAURENT

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

75. [3331893](#) MANNOSE DERIVATIVES USEFUL FOR TREATING PATHOLOGIES ASSOCIATED WITH ADHERENT E. COLI

EP - 13.06.2018

Int.Class [C07D 309/10](#) Appl.No 16750780 Applicant ENTEROME Inventor GOUIN SÉBASTIEN

The present invention relates to mannose derivatives of formula (I): wherein R1 represents H, CO-[C1-C6]-alkyl or CO-alkylaryl, Y represents a single bond, CH2, O, NR3, S, A represents O, NH or S, X represents H and X' represents OH or X and X' taken together with the carbon atom bearing them form a CO group, R2 represents H, a linear or branched [C1-C6]-alkyl or CF3, R3 represents H, a C1-C6 alkyl, a CO-[C1-C6]-alkyl, CF3 or COCF3, and R is as described in claim 1. The mannose derivatives of formulae (I) are useful for treating pathologies associated with the presence of adherent Escherichia coli [AEC], in particular inflammatory bowel diseases [IBD], such as Crohn's disease and ulcerative colitis; a urinary tract infection, in particular painful bladder syndrome and cystitis, more particularly interstitial cystitis; irritable bowel syndrome; metabolic diseases such as metabolic obesity, diabetes, hypercholesterolemia; autoimmune inflammatory diseases; and colorectal cancer, in particular colon cancer.

76. [111201032](#) MICROBIOTA SEQUENCE VARIANTS OF TUMOR-RELATED ANTIGENIC EPITOPES

CN - 26.05.2020

Int.Class [A61K 39/00](#) Appl.No 201880065726.X Applicant ENTEROME SA Inventor CHENE LAURENT

The present invention relates to cancer immunotherapy, in particular to sequence variants of tumor-related antigenic epitope sequences. Namely, the present invention provides a method for identification of microbiota sequence variants of tumor-related antigenic epitope sequences. Such microbiota sequence variants are useful for the preparation of anticancer medicaments, since they differ from self-antigens and, thus, they may elicit a strong immune response. Accordingly, medicaments comprising microbiota sequence variants, methods of preparing such medicaments and uses of such medicaments are provided.

77. [112771035](#) PROCESS FOR PREPARING MANNOSE DERIVATIVES

CN - 07.05.2021

Int.Class [C07D 405/14](#) Appl.No 201980063090.X Applicant ENTEROME Inventor AREFYEV DENIS VIKTOROVICH

The invention relates to a process to prepare a compound of the following formula (I): (I), in which P represents a protective group of a hydroxyl function which is a -COR1 group with R1 representing an aryl or a [C1-C6]alkyl, R represents a hydrogen atom or a protective group of a terminal alkyne, from mannose, comprising the following steps: (a) protecting the 5 hydroxyl groups of the mannose by a protective group P; (b) coupling the protected mannose obtained at step (a) with a compound of the following formula (II). The present invention also relates to a compound of formula (IIIa).

78. [2013333882](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER

AU - 07.05.2015

Int.Class [C12Q 1/68](#) Appl.No 2013333882 Applicant Enterome Inventor

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

79. [707035](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER

NZ - 30.11.2018

Int.Class [C12Q 1/68](#) Appl.No 707035 Applicant INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT Inventor PICHAUD, Matthieu

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

80. [2909334](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER AND TO CROHN'S DISEASE

EP - 26.08.2015

Int.Class [C12Q 1/68](#) Appl.No 13779214 Applicant ENTEROME Inventor PICHAUD MATTHIEU

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

81. [2909334](#) GENSIGNATURER AF INFLAMMATORISKE LIDELSER, SOM ER RELATERET TIL LEVEREN OG CROHNS SYGDOM

DK - 28.09.2020

Int.Class [C12Q 1/68](#) Appl.No 13779214 Applicant Enterome Inventor RIMBAUD, Pierre

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

82. [2821383](#) FIRMAS GENÉTICAS DE TRASTORNOS INFLAMATORIOS RELACIONADOS CON EL HÍGADO Y LA ENFERMEDAD DE CROHN

ES - 26.04.2021

Int.Class [C12Q 1/68](#) Appl.No 13779214 Applicant Enterome Inventor PICHAUD, Matthieu

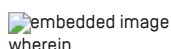
Método para el diagnóstico y/o pronóstico in vitro de esteatosis benigna, esteatohepatitis, fibrosis hepática NASH, o enfermedad de Crohn en un sujeto, que comprende las etapas siguientes: a) determinar a partir de una muestra biológica de dicho sujeto la abundancia relativa de por lo menos uno o dos genes bacterianos cuyas secuencias se seleccionan en el grupo que consiste en: SEC ID N°: 1, SEC ID N°: 6, SEC ID N°: 11, SEC ID N°: 16, SEC ID N°: 21, SEC ID N°: 26, SEC ID N°: 31, SEC ID N°: 36, SEC ID N°: 41, SEC ID N°: 46, SEC ID N°: 51, SEC ID N°: 56, SEC ID N°: 61, SEC ID N°: 66, SEC ID N°: 71, SEC ID N°: 76, SEC ID N°: 81, SEC ID N°: 86, SEC ID N°: 96, SEC ID N°: 101, o de por lo menos un gen covariante de los mismos, en el que los genes covariantes de la SEC ID N°: 1 se seleccionan en el grupo que consiste en las SEC ID N°: 2 a 5, los genes covariantes de la SEC ID N°: 6 se seleccionan en el grupo que consiste en las SEC ID N°: 7 a 10, los genes covariantes de la SEC ID N°: 11 se seleccionan en el grupo que consiste en las SEC ID N°: 12 a 15, los genes covariantes de la SEC ID N°: 16 se seleccionan en el grupo que consiste en las SEC ID N°: 17 a 20, los genes covariantes de la SEC ID N°: 21 se seleccionan en el grupo que consiste en las SEC ID N°: 22 a 25, los genes covariantes de la SEC ID N°: 26 se seleccionan en el grupo que consiste en las SEC ID N°: 27 a 30, los genes covariantes de la SEC ID N°: 31 se seleccionan en el grupo que consiste en las SEC ID N°: 32 a 35, los genes covariantes de la SEC ID N°: 36 se seleccionan en el grupo que consiste en las SEC ID N°: 37 a 40, los genes covariantes de la SEC ID N°: 41 se seleccionan en el grupo que consiste en las SEC ID N°: 42 a 45, los genes covariantes de la SEC ID N°: 46 se seleccionan en el grupo que consiste en las SEC ID N°: 47 a 50, los genes covariantes de la SEC ID N°: 51 se seleccionan en el grupo que consiste en las SEC ID N°: 52 a 55, los genes covariantes de la SEC ID N°: 56 se seleccionan en el grupo que consiste en las SEC ID N°: 57 a 60, los genes covariantes de la SEC ID N°: 61 se seleccionan en el grupo que consiste en las SEC ID N°: 62 a 65, los genes covariantes de la SEC ID N°: 66 se seleccionan en el grupo que consiste en las SEC ID N°: 67 a 70, los genes covariantes de la SEC ID N°: 71 se seleccionan en el grupo que consiste en las SEC ID N°: 72 a 75, los genes covariantes de la SEC ID N°: 76 se seleccionan en las SEC ID N°: 77 a 80, los genes covariantes de la SEC ID N°: 81 se seleccionan en el grupo que consiste en las SEC ID N°: 82 a 85, los genes covariantes de la SEC ID N°: 86 se seleccionan en el grupo que consiste en las SEC ID N°: 87 a 90, los genes covariantes de la SEC ID N°: 91 se seleccionan en el grupo que consiste en las SEC ID N°: 92 a 95, los genes covariantes de la SEC ID N°: 96 se seleccionan en el grupo que consiste en las SEC ID N°: 97 a 100, los genes covariantes de la SEC ID N°: 101 se seleccionan en el grupo que consiste en las SEC ID N°: 102 a 105, b) comparar dicha abundancia relativa con por lo menos una firma de referencia, correspondiendo dicha firma de referencia a la abundancia relativa de los mismos genes bacterianos, que se determinó en muestras de referencia, c) diagnosticar a partir de dicha comparación que dicho sujeto presenta esteatosis benigna, esteatohepatitis, o una enfermedad de Crohn en un estado estable o inestable.

83. [20180235991](#) MANNOSE DERIVATIVES USEFUL FOR TREATING PATHOLOGIES ASSOCIATED WITH ADHERENT *E. COLI*

US - 23.08.2018

Int.Class [A61K 31/7056](#) Appl.No 15750471 Applicant ENTEROME Inventor Sebastien Guoin

The present invention relates to mannose derivatives of formula (I):


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wherein

- R_1 represents H, CO—[C₁–C₆]–alkyl or CO–alkylaryl,

- o Y represents a single bond, CH₂, O, NR₃, S,
- o A represents O, NH or S,
- o X represents H and X' represents OH or X and X' taken together with the carbon atom bearing them form a CO group,
- o R₂ represents H, a linear or branched [C₁-C₆]-alkyl or CF₃,
- o R₃ represents H, a C₁-C₆ alkyl, a CO-[C₁-C₆]-alkyl, CF₃ or COCF₃, and
- o R is as described in claim 1.

The mannose derivatives of formulae (I) are useful for treating pathologies associated with the presence of adherent *Escherichia coli* (AEC), in particular inflammatory bowel diseases (IBD), such as Crohn's disease and ulcerative colitis; a urinary tract infection, in particular painful bladder syndrome and cystitis, more particularly interstitial cystitis; irritable bowel syndrome; metabolic diseases such as metabolic obesity, diabetes, hypercholesterolemia; autoimmune inflammatory diseases; and colorectal cancer, in particular colon cancer.

84. [WO/2017/021549](#) MANNOSE DERIVATIVES USEFUL FOR TREATING PATHOLOGIES ASSOCIATED WITH ADHERENT E. COLI WO - 09.02.2017

Int.Class [C07H 7/06](#) Appl.No PCT/EP2016/068813 Applicant ENTEROME Inventor GOUIN, Sébastien

The present invention relates to mannose derivatives of formula (I): wherein R1 represents H, CO-[C1-C6]-alkyl or CO-alkylaryl, Y represents a single bond, CH₂, O, NR₃, S, A represents O, NH or S, X represents H and X' represents OH or X and X' taken together with the carbon atom bearing them form a CO group, R2 represents H, a linear or branched [C1-C6]-alkyl or CF₃, R3 represents H, a C1-C6 alkyl, a CO-[C1-C6]-alkyl, CF₃ or COCF₃, and R is as described in claim 1. The mannose derivatives of formulae (I) are useful for treating pathologies associated with the presence of adherent *Escherichia coli* (AEC), in particular inflammatory bowel diseases (IBD), such as Crohn's disease and ulcerative colitis; a urinary tract infection, in particular painful bladder syndrome and cystitis, more particularly interstitial cystitis; irritable bowel syndrome; metabolic diseases such as metabolic obesity, diabetes, hypercholesterolemia; autoimmune inflammatory diseases; and colorectal cancer, in particular colon cancer.

85. [2994778](#) MANNOSE DERIVATIVES USEFUL FOR TREATING PATHOLOGIES ASSOCIATED WITH ADHERENT E. COLI CA - 09.02.2017

Int.Class [C07H 7/06](#) Appl.No 2994778 Applicant ENTEROME Inventor GOUIN, SEBASTIEN

The present invention relates to mannose derivatives of formula (I): wherein R1 represents H, CO-[C1-C6]-alkyl or CO-alkylaryl, Y represents a single bond, CH₂, O, NR₃, S, A represents O, NH or S, X represents H and X' represents OH or X and X' taken together with the carbon atom bearing them form a CO group, R2 represents H, a linear or branched [C1-C6]-alkyl or CF₃, R3 represents H, a C1-C6 alkyl, a CO-[C1-C6]-alkyl, CF₃ or COCF₃, and R is as described in claim 1. The mannose derivatives of formulae (I) are useful for treating pathologies associated with the presence of adherent *Escherichia coli* (AEC), in particular inflammatory bowel diseases (IBD), such as Crohn's disease and ulcerative colitis; a urinary tract infection, in particular painful bladder syndrome and cystitis, more particularly interstitial cystitis; irritable bowel syndrome; metabolic diseases such as metabolic obesity, diabetes, hypercholesterolemia; autoimmune inflammatory diseases; and colorectal cancer, in particular colon cancer.

86. [2019092522](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER JP - 20.06.2019

Int.Class [C12Q 1/6813](#) Appl.No 2019039947 Applicant ENTEROME Inventor MATTHIEU PICHAUD

PROBLEM TO BE SOLVED: To develop prognosis tests to assess the risk of liver related morbidity, in particular, to predict the risk of progression from benign fatty liver towards NASH and advanced liver diseases.

SOLUTION: This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis), or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification, for studying drugs, monitoring patient, and assigning an appropriate treatment.

SELECTED DRAWING: None

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87. [20160068890](#) GENE SIGNATURES OF INFLAMMATORY DISORDERS THAT RELATE TO THE LIVER US - 10.03.2016

Int.Class [C12Q 1/68](#) Appl.No 14435750 Applicant ENTEROME Inventor Matthieu Pichaud

This invention is related to the area of characterization of inflammation in relation with the gut microbiota, in metabolic and autoimmune disorders. In particular, it relates to the identification of gene signatures which can be used as a marker predictive of inflammation associated diseases, such as liver-related metabolic disorders, in particular to the evolution of benign steatosis towards its most severe forms (steatohepatitis and cirrhosis) or autoimmune disorders, in particular inflammatory bowel diseases (Crohn's and Ulcerative Colitis). These gene signatures can therefore be used as a means of diagnosis, prognosis, stratification for drug studies, for monitoring patient and for assigning an appropriate treatment.

