

**Editor: NOEL GONZÁLEZ GOTERA**  
**Diseño: Lic. Roberto Chávez y Liuder Machado.**  
**Foto: Lic. Belkis Romeu e Instituto Finlay**

**Número 171**  
**Semana 170115 - 230115**  
**La Habana, Cuba.**



## ARTÍCULOS CIENTÍFICOS

**Publicaciones incluidas en PubMed durante el período comprendido entre el 17 y el 23 de enero de 2015. Con "vaccin\*" en título: 98 artículos recuperados.**

### **Vacunas meningococo (*Neisseria meningitidis*)**

**17. [Outbreaks of meningococcal B infection and the 4CMenB vaccine: historical and future perspectives.](#)**

Whelan J, Bambini S, Biolchi A, Brunelli B, Robert-Du Ry van Beest Holle M.

Expert Rev Vaccines. 2015 Jan 21:1-24. [Epub ahead of print]

PMID: 25603916  
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#### [Related citations](#)

Select item 25603531

### **Vacunas BCG – ONCO BCG (*Mycobacterium bovis*)**

**11. [Toll-like receptor 2 subfamily gene polymorphisms are associated with Bacillus Calmette-Guérin osteitis following newborn vaccination.](#)**

Pöyhönen L, Nuolivirta K, Vuononvirta J, Kröger L, Huhtala H, Mertsola J, He Q, Korppi M.

Acta Paediatr. 2015 Jan 20. doi: 10.1111/apa.12927. [Epub ahead of print]

PMID: 25605403  
 [PubMed - as supplied by publisher]

#### [Related citations](#)

Select item 25605165

**Vacunas neumococo (*Streptococcus pneumoniae*)**

42. [Trivalent pneumococcal protein recombinant vaccine protects against lethal \*Streptococcus pneumoniae\* pneumonia and correlates with phagocytosis by neutrophils during early pathogenesis.](#)

Xu Q, Surendran N, Verhoeven D, Klapa J, Ochs M, Pichichero ME.

Vaccine. 2015 Jan 15. pii: S0264-410X(15)00033-X. doi: 10.1016/j.vaccine.2015.01.014. [Epub ahead of print]

PMID: 25597944

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Select item 25597942

51. [Effectiveness of the Bacillus Calmette-Guerin vaccine in an Indonesian population with D543N NRAMP1 polymorphism.](#)

Putera I, Pakasi TA, Syahmar I, Bramantyo AA, Karyadi E, Melani A, Sahiratmadja E.

J Infect Dev Ctries. 2015 Jan 15;9(1):42-7. doi: 10.3855/jidc.5047.

PMID:

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**Related citations**

Select item 25596460

59. [Pneumococcal conjugate vaccines PREVenar13 and SynflorIX in sequence or alone in high-risk Indigenous infants \(PREV-IX COMBO\): protocol of a randomised controlled trial.](#)

Leach AJ, Mulholland EK, Santosham M, Torzillo PJ, Brown NJ, McIntyre P, Smith-Vaughan H, Skull S, Balloch A, Andrews R, Carapetis J, McDonnell J, Krause V, Morris PS.

BMJ Open. 2015 Jan 16;5(1):e007247. doi: 10.1136/bmjopen-2014-007247.

PMID: 25596202

[PubMed - in process]

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**Related citations**

Select item 25595867

60. [Compound 48/80 acts as a potent mucosal adjuvant for vaccination against \*Streptococcus pneumoniae\* infection in young mice.](#)

Zeng L, Liu Y, Wang H, Liao P, Song Z, Gao S, Wu Y, Zhang X, Yin Y, Xu W.

Vaccine. 2015 Jan 14. pii: S0264-410X(15)00032-8. doi: 10.1016/j.vaccine.2015.01.013. [Epub ahead of print]

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[Related citations](#)

Select item 25595637

72. [Measuring the effects of pneumococcal conjugate vaccine \(PCV7\) on Streptococcus pneumoniae carriage and antibiotic resistance: The Palestinian-Israeli Collaborative Research \(PICR\).](#)

Daana M, Rahav G, Hamdan A, Thalji A, Jaar F, Abdeen Z, Jaber H, Goral A, Huppert A, Raz M, Regev-Yochay G; for the PICR study group.

Vaccine. 2015 Jan 12. pii: S0264-410X(15)00004-3. doi: 10.1016/j.vaccine.2015.01.003. [Epub ahead of print]

PMID: 25593104  
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[Related citations](#)

Select item 25593103

**Vacunas leptospirosis (*Leptospira* sp.)**

77. [Current immunological and molecular tools for leptospirosis: diagnostics, vaccine design, and biomarkers for predicting severity.](#)

Rajapakse S, Rodrigo C, Handunnetti SM, Fernando S.

Ann Clin Microbiol Antimicrob. 2015 Jan 16;14(1):2. [Epub ahead of print]

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Select item 25591489

**Vacuna Salmonella No-tifoidea.**

88. [Mouse models for assessing the cross-protective efficacy of oral non-typhoidal Salmonella vaccine candidates harboring in-frame deletions of the ATP-dependent protease lon and other genes.](#)

Matsui H, Fukiya S, Kodama-Akaboshi C, Eguchi M, Yamamoto T.

J Med Microbiol. 2015 Jan 14. pii: jmm.0.000014. doi: 10.1099/jmm.0.000014. [Epub ahead of print]

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Select item 25589652

**Vacuna tosferina (*Bordetella pertussis*)**

7. [Combating pertussis resurgence: One booster vaccination schedule does not fit all.](#)

Riolo MA, Rohani P.

Proc Natl Acad Sci U S A. 2015 Jan 20. pii: 201415573. [Epub ahead of print]

PMID: 25605878  
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53. [Effectiveness of acellular pertussis vaccine in a routine immunization program: A multicenter, case-control study in Japan.](#)

Ohfuji S, Okada K, Nakano T, Ito H, Hara M, Kuroki H, Hirota Y.

Vaccine. 2015 Jan 14. pii: S0264-410X(15)00009-2. doi: 10.1016/j.vaccine.2015.01.008. [Epub ahead of print]

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**Vacunas, otras**

1. [Influenza A \(H1N1\) pandemic vaccination - an underlying risk factor for many CNS complications in Brazil.](#)

Fernandes GB, Tufik S, Coelho FM.

Arq Neuropsiquiatr. 2015 Jan;73(1):72. Epub 2015 Jan 1. No abstract available.

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[Cross-protection against influenza virus infection by intranasal administration of nucleoprotein-based vaccine with compound 48/80 adjuvant.](#)

Zheng M, Liu F, Shen Y, Wang S, Xu W, Fang F, Sun B, Xie Z, Chen Z.

Hum Vaccin Immunother. 2015 Jan 21:0. [Epub ahead of print]

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Select item 25607773 ☐ 3.

[Comparison of the effect of two different doses of recombinant hepatitis B vaccine on immunogenicity in healthy adults.](#)

Li J, Yao J, Shan H, Chen Y, Jiang ZG, Ren JJ, Xu KJ, Ruan B, Yang SG, Wang B, Xie TS, Li Q.

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[Association of Influenza Vaccination on Decreased Stillbirth Rate.](#)

Wortman AC, Casey BM, McIntire DD, Sheffield JS.

Am J Perinatol. 2015 Jan 21. [Epub ahead of print]

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Select item 25606861 ☐ 5.

[Historical review of clinical vaccine studies at Oswaldo Cruz Institute and Oswaldo Cruz Foundation - technological development issues.](#)

Martins RM, Possas CA, Homma A.

Mem Inst Oswaldo Cruz. 2015 Jan 16;0:0. [Epub ahead of print]

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Select item 25605894 ☐ 6.

[Synergistic and antagonistic interactions between bednets and vaccines in the control of malaria.](#)

Artzy-Randrup Y, Dobson AP, Pascual M.

Proc Natl Acad Sci U S A. 2015 Jan 20. pii: 201409467. [Epub ahead of print]

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Select item 25605878 ☐ 7.

[Combating pertussis resurgence: One booster vaccination schedule does not fit all.](#)

Riolo MA, Rohani P.

Proc Natl Acad Sci U S A. 2015 Jan 20. pii: 201415573. [Epub ahead of print]

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Select item 25605799 ☐ 8.

[A KALA-modified lipid nanoparticle containing CpG-free plasmid DNA as a potential DNA vaccine carrier for antigen presentation and as an immune-stimulative adjuvant.](#)

Miura N, Shaheen SM, Akita H, Nakamura T, Harashima H.

Nucleic Acids Res. 2015 Jan 20. pii: gkv008. [Epub ahead of print]

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[Vaccinia Virus Protein A49 is an Unexpected Member of the B-cell Lymphoma \(Bcl\)-2 Protein Family.](#)

Neidel S, Maluquer de Motes C, Mansur DS, Strnadova P, Smith GL, Graham SC.

J Biol Chem. 2015 Jan 20. pii: jbc.M114.624650. [Epub ahead of print]

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[Comparing risk behaviours of human papillomavirus-vaccinated and non-vaccinated women.](#)

Sadler L, Roberts SA, Hampal G, McManus D, Mandal D, Brabin L.

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Select item 25605403 ☐ 11.

[Toll-like receptor 2 subfamily gene polymorphisms are associated with Bacillus Calmette-Guérin osteitis following newborn vaccination.](#)

Pöyhönen L, Nuolivirta K, Vuononvirta J, Kröger L, Huhtala H, Mertsola J, He Q, Korppi M.

Acta Paediatr. 2015 Jan 20. doi: 10.1111/apa.12927. [Epub ahead of print]

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Select item 25605165 ☐ 12.

[Awareness and attitude relating to the human papilloma virus and its vaccines among pediatrics, obstetrics and gynecology specialists in Turkey.](#)

Tolunay O, Celik U, Karaman SS, Celik T, Resitoglu S, Donmezer C, Aydin F, Baspinar H, Mert MK, Samsa H, Arli S.

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[Impact of influenza vaccination on mortality in the French elderly population during the 2000-2009 period.](#)

Bonmarin I, Belchior E, Lévy-Bruhl D.

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[Size-exclusion HPLC provides a simple, rapid, and versatile alternative method for quality control of vaccines by characterizing the assembly of antigens.](#)

Yang Y, Li H, Li Z, Zhang Y, Zhang S, Chen Y, Yu M, Ma G, Su Z.

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Select item 25604387  16.

[Subcutaneous vaccination with Porphyromonas gingivalis ameliorates periodontitis by modulating Th17/Treg imbalance in a murine model.](#)

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Select item 25603916  17.

[Outbreaks of meningococcal B infection and the 4CMenB vaccine: historical and future perspectives.](#)

Whelan J, Bambini S, Biolchi A, Brunelli B, Robert-Du Ry van Beest Holle M.

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[Immunogenicity and anti-fecundity effect of nanoparticle coated glutathione S-transferase \(SjGST\) DNA vaccine against murine Schistosoma japonicum infection.](#)

Mbanefo EC, Kumagai T, Kodama Y, Kurosaki T, Furushima-Shimogawara R, Cherif MS, Mizukami S, Kikuchi M, Huy NT, Ohta N, Sasaki H, Hirayama K.

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[Legislative prescriptions for controlling nonmedical vaccine exemptions.](#)

Yang YT, Silverman RD.

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[Risk Stratification By p16 Immunostaining of CIN1 Biopsies: A Retrospective Study of Patients From the Quadrivalent HPV Vaccine Trials.](#)

Mills AM, Paquette C, Castle PE, Stoler MH.

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[A Japanese encephalitis vaccine from India induces durable and cross-protective immunity against temporally and spatially wide-ranging global field strains.](#)

Singh A, Mitra M, Sampath G, Venugopal P, Rao JV, Krishnamurthy B, Gupta MK, Krishna SS, Sudhakar B, Rao NB, Kaushik Y, Gopinathan K, Hegde NR, Gore MM, Mohan VK, Ella KM.

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[A Nonhuman Primate Scrub Typhus Model: Protective Immune Responses Induced by pKarp47 DNA Vaccination in Cynomolgus Macaques.](#)

Paris DH, Chattopadhyay S, Jiang J, Nawtaison P, Lee JS, Tan E, Dela Cruz E, Burgos J, Abalos R, Blacksell SD, Lombardini E, Turner GD, Day NP, Richards AL.

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[Ebola vaccine trials back on track.](#)

Mohammadi D.

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[Hepatitis B virus infection in post-vaccination South Africa: Occult HBV infection and circulating surface gene variants.](#)

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[Immunodeficiency-related vaccine-derived poliovirus \(iVDPV\) cases: A systematic review and implications for polio eradication.](#)

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["It All Depends": A Qualitative Study of Parents' Views of Human Papillomavirus Vaccine for their Adolescents at Ages 11-12 years.](#)

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J Cancer Educ. 2015 Jan 20. [Epub ahead of print]

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**[H5N1 Influenza Virus-Like Particle Vaccine Protects Mice from Heterologous Virus Challenge better than Whole Inactivated Virus.](#)**

Ren Z, Ji X, Meng L, Wei Y, Wang T, Feng N, Zheng X, Wang H, Li N, Gao X, Jin H, Zhao Y, Yang S, Qin C, Gao Y, Xia X.

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Trends Parasitol. 2015 Jan 15. pii: S1471-4922(14)00227-X. doi: 10.1016/j.pt.2014.12.011. [Epub ahead of print]

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**[Vaccination during concurrent subcutaneous immunotherapy: safety of simultaneous application.](#)**

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[Impact of parent-directed education on parental use of pain treatments during routine infant vaccinations: a cluster randomized trial.](#)

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Zolla-Pazner S, Edlefsen PT, Rolland M, Kong XP, deCamp A, Gottardo R, Williams C, Tovanabutra S, Sharpe-Cohen S, Mullins JI, deSouza MS, Karasavvas N, Nitayaphan S, Rerks-Ngarm S, Pitisuttihum P, Kaewkungwal J, O'Connell RJ, Robb ML, Michael NL, Kim JH, Gilbert P.

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Stephens DP, Thomas TL.

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Wilson AR, Welch RJ, Hashibe M, Greenwood J, Jackson B, She RC.

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[Before the vaccines: medical treatments of acute paralysis in the 1916 new york epidemic of poliomyelitis.](#)

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[Characterization of HCV genotype 5a envelope proteins: implications for vaccine development and therapeutic entry target.](#)

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Phengxay M, Mirza SA, Reyburn R, Xeuatvongsa A, Winter C, Lewis H, Olsen SJ, Tsuyuoka R, Khanthamaly V, Palomeque FS, Bresee JS, Moen AC, Corwin AL; the Lao PDR Field Epidemiology Training Cohort Team.

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[Adverse Events following Haemophilus influenzae Type b Vaccines in the Vaccine Adverse Event Reporting System, 1990-2013.](#)

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[Human papillomavirus vaccination: Assessing knowledge, attitudes, and intentions of college female students in Lebanon, a developing country.](#)

Dany M, Chidiac A, Nassar AH.

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[Trivalent pneumococcal protein recombinant vaccine protects against lethal \*Streptococcus pneumoniae\* pneumonia and correlates with phagocytosis by neutrophils during early pathogenesis.](#)

Xu Q, Surendran N, Verhoeven D, Klapa J, Ochs M, Pichichero ME.

Vaccine. 2015 Jan 15. pii: S0264-410X(15)00033-X. doi: 10.1016/j.vaccine.2015.01.014. [Epub ahead of print]

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[Vaccination with a live multi-gene deletion strain protects horses against virulent challenge with \*Streptococcus equi\*.](#)

Robinson C, Heather Z, Slater J, Potts N, Steward KF, Maskell DJ, Fontaine MC, Lee JJ, Smith K, Waller AS.

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[Expansion of syndromic vaccine preventable disease surveillance to include bacterial meningitis and Japanese encephalitis: Evaluation of adapting polio and measles laboratory networks in Bangladesh, China and India, 2007-2008.](#)

Cavallaro KF, Sandhu HS, Hyde TB, Johnson BW, Fischer M, Mayer LW, Clark TA, Pallansch MA, Yin Z, Zuo S, Hadler SC, Diorditsa S, Hasan AS, Bose AS, Dietz V; the AMES Study Group.

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Share: <http://m.amedeo.com/25585441>

## PATENTES

### United States Patent and Trademark Office (USPTO)

#### Estrategia de búsqueda "vaccine" en título y abstract

(ABST/vaccine AND ISD/20150113->20150123): **3** patentes recuperadas.

#### Adyuvantes

2 [8,932,594](#) [Adjuvants and methods of use](#)

#### Vacunas, otras

| PAT. NO.                    | Title                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|
| 1 <a href="#">8,937,218</a> | <a href="#">Transformed soybean plant which accumulates vaccine, and use thereof</a>                      |
| 2 <a href="#">8,932,594</a> | <a href="#">Adjuvants and methods of use</a>                                                              |
| 3 <a href="#">8,932,575</a> | <a href="#">Compositions and methods for inducing migration by dendritic cells and an immune response</a> |

### European Patent Office (EPO)

Acumulado entre el 13 y el 23 de enero de 2015: **8** patentes recuperadas

#### Adyuvantes



#### 5. [ADJUVANT AND VACCINE COMPOSITIONS](#)

##### Inventor:

GERBER JAY D [US]  
CARROW EMILY [US]  
Applicant: ADVANCED BIOADJUVANTS LLC [US]

##### CPC:

[A61K39/39](#) [A61K39/39](#)

##### IPC:

[A61K39/39](#) [A61K39/39](#)

##### Publication info:

EP2825196 (A1)  
2015-01-21

##### Priority date:

2012-03-12

#### Vacunas, otras



#### 1. [UNIVERSAL INFLUENZA VACCINE](#)

##### Inventor:

ZENG MINGTAO [US]

##### Applicant:

UNIV TEXAS TECH SYSTEM [US]

##### CPC:

##### IPC:

[A61K39/145](#)  
[A61P31/16](#)  
[C07K19/00](#)

##### Publication info:

WO2015006384 (A1)  
2015-01-15

##### Priority date:

2013-07-09

LI JUNWEI  
[US]

☐ 2. GUT FLORA-DERIVED EXTRACELLULAR VESICLES, AND METHOD FOR SEARCHING FOR A DISEASE MODEL, VACCINE, AND CANDIDATE DRUG AND FOR DIAGNOSIS USING THE SAME

Inventor:

|                                  |                        |                                                                                                     |                                                        |                                 |                   |
|----------------------------------|------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------|-------------------|
| KIM YOON<br>KEUN<br>[KR]         | Applicant:             | CPC:                                                                                                | IPC:                                                   | Publication info:               | Priority<br>date: |
| GHO YONG<br>SONG<br>[KR]<br>(+7) | AEON MEDIX<br>INC [KR] | <a href="#">A01K2207/20</a><br><a href="#">A01K2217/075</a><br><a href="#">A01K2227/105</a><br>(+6) | <a href="#">C12Q1/37</a><br><a href="#">G01N33/569</a> | US2015017664 (A1)<br>2015-01-15 | 2009-<br>09-01    |

☐ 3. CHOLERA TOXIN CHIMERA AND ITS USE AS A STAPH VACCINE

|                            |                          |                                 |                                                                                              |                   |
|----------------------------|--------------------------|---------------------------------|----------------------------------------------------------------------------------------------|-------------------|
| Inventor:                  | Applicant:               | Publication info:               | IPC:                                                                                         | Priority<br>date: |
| TINKER<br>JULIETTE<br>[US] | UNIV BOISE<br>STATE [US] | US2015017199 (A1)<br>2015-01-15 | <a href="#">A61K39/02</a><br><a href="#">A61K39/085</a><br><a href="#">C07K14/28</a><br>(+1) | 2011-<br>12-16    |

☐ 4. SUPPRESSOR CELL FUNCTION INHIBITION FOLLOWING LISTERIA VACCINE TREATMENT

|                                                 |                     |                                                                                                     |                                                        |                              |                   |
|-------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------|-------------------|
| Inventor:                                       | Applicant:          | CPC:                                                                                                | IPC:                                                   | Publication info:            | Priority<br>date: |
| SINGH<br>RESHMA<br>[US]<br>WALLECHA<br>ANU [US] | ADVAXIS INC<br>[US] | <a href="#">A61K2039/522</a><br><a href="#">A61K2039/523</a><br><a href="#">A61K39/0011</a><br>(+1) | <a href="#">A61K39/00</a><br><a href="#">A61K39/02</a> | EP2825195 (A1)<br>2015-01-21 | 2012-<br>03-12    |

☐ 5. ADJUVANT AND VACCINE COMPOSITIONS

Inventor:

|                                                    |                                      |                           |                           |                              |                   |
|----------------------------------------------------|--------------------------------------|---------------------------|---------------------------|------------------------------|-------------------|
| GERBER<br>JAY D<br>[US]<br>CARROW<br>EMILY<br>[US] | Applicant:                           | CPC:                      | IPC:                      | Publication info:            | Priority<br>date: |
|                                                    | ADVANCED<br>BIOADJUVANTS<br>LLC [US] | <a href="#">A61K39/39</a> | <a href="#">A61K39/39</a> | EP2825196 (A1)<br>2015-01-21 | 2012-<br>03-12    |

☐ 6. MULTIVALENT VACCINE PROTECTION FROM STAPHYLOCOCCUS AUREUS INFECTION

Inventor:

|                                                               |                          |                            |                                                                                              |                              |                   |
|---------------------------------------------------------------|--------------------------|----------------------------|----------------------------------------------------------------------------------------------|------------------------------|-------------------|
| SHIRTLIFF<br>MARK<br>[US]<br>HARRO<br>JANETTE<br>[US]<br>(+1) | Applicant:               | CPC:                       | IPC:                                                                                         | Publication info:            | Priority<br>date: |
|                                                               | UNIV<br>MARYLAND<br>[US] | <a href="#">A61K39/085</a> | <a href="#">A61K39/02</a><br><a href="#">A61K39/085</a><br><a href="#">A61P31/00</a><br>(+1) | EP2822582 (A1)<br>2015-01-14 | 2012-<br>03-05    |

☐ **7. VACCINE FORMULATION**

|                  |            |                                |                           |                          |                       |
|------------------|------------|--------------------------------|---------------------------|--------------------------|-----------------------|
| <b>Inventor:</b> |            | <b>CPC:</b>                    | <b>IPC:</b>               | <b>Publication info:</b> | <b>Priority date:</b> |
| MOODY M          | Applicant: | <a href="#">A61K2039/55511</a> | <a href="#">A61K31/18</a> | EP2822599 (A1)           | 2012-                 |
| ANTHONY          | UNIV DUKE  | <a href="#">A61K2039/55516</a> | <a href="#">A61K38/16</a> | 2015-01-14               | 03-05                 |
| [US]             | [US]       | <a href="#">A61K31/01</a>      | <a href="#">A61K38/17</a> |                          |                       |
| HAYNES           |            | (+2)                           | (+1)                      |                          |                       |
| BARTON F         |            |                                |                           |                          |                       |
| [US]             |            |                                |                           |                          |                       |

☐ **8. USE OF SPHINGOSINE-1 -PHOSPHATE RECEPTORS MODULATORS FOR IMPROVING VACCINE IMMUNIZATION**

|                  |                   |                             |                             |                          |                       |
|------------------|-------------------|-----------------------------|-----------------------------|--------------------------|-----------------------|
| <b>Inventor:</b> | <b>Applicant:</b> | <b>CPC:</b>                 | <b>IPC:</b>                 | <b>Publication info:</b> | <b>Priority date:</b> |
| VENDETTI         | ISTITUTO          | <a href="#">A61K2300/00</a> | <a href="#">A61K31/133</a>  | EP2822595 (A1)           | 2012-                 |
| SILVIA           | SUPERIORE DI      | (+14)                       | <a href="#">A61K31/381</a>  | 2015-01-14               | 03-07                 |
| [IT]             | SANIT [IT]        |                             | <a href="#">A61K31/4245</a> |                          |                       |
|                  |                   |                             | (+5)                        |                          |                       |

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#### **Graphical abstract**

Illustrates the study design of the CWD vaccination experiment. There were five vaccinated white-tailed deer and 6 vehicle controls. Deer were matched for *Prnp* genotype (95Q/96G/116A/138S/226Q), except two deer in both the control and vaccinated group had the most common polymorphism (~26% of deer) that confers partial resistance to CWD infection, codon 96 G/S instead of 96 G/G.

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