



EN ESTE NÚMERO

VacCiencia es una publicación dirigida a investigadores y especialistas dedicados a la vacunología y temas afines, con el objetivo de serle útil. Usted puede realizar sugerencias sobre los contenidos y de esta forma crear una retroalimentación que nos permita acercarnos más a sus necesidades de información.

- Noticias más recientes en la Web sobre vacunas.
- Artículos científicos más recientes de Medline sobre vacunas.
- Patentes más recientes en Patentscope sobre vacunas.

Noticias en la Web

Covid boosters needed as vaccine protection wanes after six months, finds UKHSA

Jan 2. There is a continued need for Covid boosters, according to a Government study, which found they provide significant protection against death but this wanes after six months.

Researchers from the UK Health Security Agency analysed data on more than 10.6 million cases of COVID-19 in adults that had been recorded by England's laboratory reporting system between May 2020 and February 2022.

They found a clear time link between a fall in 'case fatality risk' and when the age group became eligible for COVID-19 vaccination and first booster.

Reporting in the Journal of the Royal Society of Medicine, they also pinpointed that the case fatality risk was also at its lowest for all groups in the six months after vaccination when the protective effect diminished at it began to rise again.

In adults over the age of 50, the case fatality risk was 10 times higher in the unvaccinated (6.3%) compared to those who had been vaccinated in the six months before they tested positive (0.6%), they reported.

The researchers also found a steep decline in mortality from Covid-19 in early 2021, which aligned with the initial vaccine rollout.

They were able to do the detailed analysis because of the wide availability of SARS-CoV-2 testing during the study period, the researchers noted.

Risk of death was also linked to sex, deprivation and ethnicity, they said. But it also fluctuated over time which could relate to the emergence of different variants as well as population immunity from natural exposure to the virus.

But after vaccination was introduced, the case fatality rate remained low, in those who took up the offer, they added.

Mortality remained high in the small unvaccinated group even through the changing transmission rates and severity associated with emerging variants indicating that vaccination is a key factor in reducing deaths from COVID-19.

While the study shows that continued booster programmes are needed to keep deaths from COVID-19 low, more investigation is needed on the appropriate age cut offs, the team said.

An analysis from the Joint Committee on Vaccination and Immunisation (JCVI) published in October had noted that it would be most 'cost-effective' to limit vaccination to the over 80s and high risk over 45s.

But it had ultimately decided to take a 'precautionary' in selecting who should get a booster job because of



uncertainties in the modelling around how it would impact NHS winter pressures and what would happen if there was a more significant COVID-19 wave than expected.

Study lead Florence Halford from the UKHSA's COVID-19 Vaccines and Epidemiology Division said: 'COVID-19 case fatality risk reduced after vaccination, with the lowest seen across all age bands when vaccinated up to six months prior to the specimen date.

'This provides some evidence for continued booster doses in older age groups.'

Fuente: Pulse Today. Disponible en <https://acortar.link/unhYm0>

FDA advierte sobre la 'proliferación de información errónea' de las vacunas contra la COVID-19

3 ene. La Administración de Alimentos y Medicamentos de EE.UU. advirtió sobre la "proliferación de información errónea y desinformación" que ha bajado el uso de las vacunas contra la COVID-19.

La FDA emitió un comunicado en el que informaba del desacuerdo con el cirujano general de Florida, Joseph Ladapo, sobre la seguridad de los más de mil millones de dosis de vacunas contra la COVID-19 de ARNm de Pfizer y Moderna que se han administrado.

Aunque Ladapo estaba preocupado por los contaminantes de ADN, la FDA advirtió que "perpetuar las referencias a la información sobre el ADN residual en las vacunas COVID-19 sin situarla en el contexto del proceso de fabricación y los beneficios conocidos de la vacuna es engañoso".

En una carta anterior dirigida a Ladapo el 14 de diciembre, Peter Marks, director del Centro de Evaluación e Investigación Biológica de la FDA, informó de que en las vacunas no había un virus ADN y que los estudios no habían encontrado pruebas de la genotoxicidad planteada como cuestión teórica.

Marks respondía a la carta de Ladapo del 6 de diciembre en la que informaba de su "preocupación por la presencia de ADN promotor/reforzador del SV40 en estas vacunas" y escribía que "no hay proteínas SV40 codificadas ni presentes en las vacunas" y que "no hay pruebas de genotoxicidad de la vacuna".

La Dra. Aileen Marty, experta en enfermedades infecciosas de la Universidad Internacional de Florida, dijo que era "algo válido" que el Departamento de Salud de Florida investigara la calidad de una vacuna. Dijo que la mayor parte de la información en cuestión se basa en un artículo preimpreso que no ha sido aceptado para su publicación.

"Lo que hay no es realmente alarmante", dijo Marty añadiendo también que "la eficacia es muy alta para todas las vacunas".

Fuente: WPLG Local 10. Disponible en <https://acortar.link/fKPXya>

Patria, la vacuna mexicana contra COVID-19, ya está lista: AMLO

4 ene. México ya tiene su vacuna contra el COVID-19, Patria, tras varios meses de trabajos, las investigaciones concluyeron y en unos meses podría aplicarse, adelantó el presidente Andrés Manuel López Obrador. Remarcó que si bien se dieron retrasos, esto fue porque fabricar un producto como éste "no son tamalitos de chipilín".

A pregunta sobre la adquisición de México de las vacunas Sputnik (rusa) y Abdala (cubana) para la aplicación entre la población y no de otras farmacéuticas, el jefe del Ejecutivo federal planteó que la decisión

se tomó por tres razones:

En primer lugar porque todos los biológicos que se han aplicado en México cuentan con la autorización de la Comisión Federal para la Protección contra Riesgos Sanitarios; dos, porque el país tenía convenios de entrega con los fabricantes de Sputnik y de Abdala y también se han considerado los precios.

Y finalmente, planteó, “es importante que se sepa, y que nos debe de dar mucho gusto, es que ya tenemos nuestra vacuna: Patria”.

-¿Cuándo va a comenzar a aplicarse? -se le planteó al mandatario en la mañana de este jueves en Palacio Nacional.

-Pues espero que en unos meses más, pero ya se terminó la investigación y se demostró que funciona, que es eficaz.

-¿A qué se debió el retraso? -se le insistió.

-A que lleva tiempo. ¿Sabes cuánto tiempo se llevaron los invasores europeos en hacer la vacuna contra la viruela, y eso que nos trajeron la civilización? Trescientos años para tener la vacuna —comparó con lo sucedido hace casi dos siglos.

E insistió: “No son tamalitos de chipilín hacer una vacuna. Fue una cosa extraordinaria el que en muy poco tiempo se tenga ya esta vacuna de México, del país”.

Fuente: La Jornada. Disponible en <https://acortar.link/QfBWef>

New Identity Assay Simplifies Process to Identify Polysaccharide Pneumococcal Serotypes in Vaccines

Jan 5. Investigators have developed an identity assay, an automated capillary western system, to help determine polysaccharide serotypes. The assay was optimized during development and qualification to be used in the clinical setting for pneumococcal conjugate vaccines (PCV), according to results of a study published in the Journal of Pharmaceutical and Biomedical Analysis.

According to the CDC, there are 2 types of pneumococcal vaccines that are recommended in the United States: PCVs and pneumococcal polysaccharide vaccines (PPSV).² For those younger than 6, PCV15 and PCV20 are recommended by the CDC while those aged 2 through 18 years who have certain risk conditions may require more vaccines against pneumococcal disease.



El presidente Andrés Manuel López Obrador durante la conferencia matutina en la que se presentó el plan para crear la vacuna nacional contra COVID-19 llamada Patria, el 13 de abril de 2021. Foto Cuartoscuro



Fotofabrika—stock.adobe.com

For adults aged 65 years and older or aged 18 years through 64 years with certain risk conditions, PCV15 and PCV20 are both recommended. However, with PCV15, PPSV23 should be a follow up dose, according to the CDC.²

The study authors stated that PCVs are very complex, requiring rigorous analytical testing including release, stability, and characterization of the vaccine.¹ They added that the polysaccharide antigen should be conjugated with a protein, such as CRM197, to help boost the T-cell dependent response, which is what makes the PCVs complex. The tests are documented by the WHO, with required identity testing for each polysaccharide and protein carrier, according to the study authors. The identification should be performed for monovalent polysaccharide conjugate bulk and final container of all different types.

For the identification, the gold standard is nuclear magnetic resonance, which is recommended by the WHO. The study authors said that this method is "not capable of measuring polysaccharides in conjugate with a protein due to the highly complex structure." Therefore, immune-based assays were developed, including ELISA and dot blot, the investigators said. However, the authors noted both methods are labor intensive and time consuming. Other methods have been created, but the study authors stated that methods are expensive, complex, and not ideal for a quality control environment.

Investigators therefore developed and qualified a new identity assay specifically for multivalent serotypes of polysaccharides with the CRM197 protein and protein conjugate. The ProteinSimple Wes is a capillary western system, combining common laboratory techniques of sodium dodecyl sulfate polyacrylamide gel electrophoresis and western blotting, according to the study authors. The system was designed for fast usage, automated operation, and simple technology.

The study authors said the method was successfully qualified and successfully identified "polysaccharides in monovalent bulk conjugates or [drug substance] during clinical release of the PCV program." They added that this method identified the specificity of polysaccharides among approximately 30 other potential polysaccharides, according to the results.

Additionally, the study authors said that the assay for PCVs was faster and simpler than ELISA or the manual dot blot. Furthermore, the developed assay was easy to use and had minimal training needed for operation, making it simple and quick for PCV. The investigators added that the method was accurate and efficient, resulting in the further production and advancements in vaccine research beyond PCVs.

Fuente: Pharmacy Times. Disponible en <https://acortar.link/LntdP9>

Vuelvan a las mascarillas y a las vacunas contra la COVID-19, ese es el consejo de la OMS tras fin de año

7 ene. A causa de la creciente incidencia de la COVID-19 en el mundo, es necesario continuar con el uso de mascarillas y la vacunación, afirmó recientemente el director general de la Organización Mundial de la Salud (OMS), Tedros Adhanom Ghebreyesus.

"Las enfermedades respiratorias causadas por COVID-19, la gripe y otros patógenos han aumentado en muchos países durante semanas y se espera que esto continúe después de las recientes festividades", escribió Ghebreyesus en su cuenta personal de la red social X (antes Twitter).

Ante tal situación, el jefe de la OMS instó al público a "hacerse la prueba y buscar atención cuando sea necesario, porque los tratamientos contra la COVID-19 pueden prevenir enfermedades graves y la muerte".

"Continúen usando mascarillas, ventilación y distanciamiento para reducir la exposición, y asegúrense de que ustedes y sus seres queridos estén al día con sus vacunas contra la COVID-19 y la gripe", agregó.

Además, sugirió a los gobiernos "brindar acceso a pruebas, tratamientos y vacunas confiables, especialmente a quienes corren mayor riesgo de sufrir una infección grave". Las autoridades deben "mantener la vigilancia, la secuenciación y la presentación de informes para seguir la evolución del virus [que provoca la COVID-19 y proporcionar mensajes claros sobre los riesgos y las medidas para reducir el riesgo para sus poblaciones", señaló Ghebreyesus.

En el mismo contexto, el funcionario recordó que hay que seguir las recomendaciones permanentes para contrarrestar la COVID-19, que fueron emitidas por la OMS en 2023 para abordar las amenazas globales de la enfermedad.

Fuente: Cubadebate. Disponible en <https://acortar.link/XlaOiv>

Las vacunas sin aguja contra la COVID-19 están (aún) en desarrollo

8 ene. Las vacunas contra la gripe hacen un trabajo admirable al reforzar lo suficiente la respuesta inmunitaria como para protegernos de enfermedades graves, pero no refuerzan la inmunidad allí donde podrían hacerlo: las vías respiratorias. Por eso, los investigadores han trabajado en vacunas que se pulverizan en la nariz o llegan a los pulmones. La idea es que estas vacunas provoquen una respuesta inmunitaria en las membranas mucosas de las vías respiratorias que ayude a evitar la infección o, en caso de infección, reduzca la probabilidad de transmitir el virus.

"Las vacunas administradas por vía nasal u oral ayudarían a detener la infección allí donde comienza. Pero los investigadores siguen trabajando para recopilar los datos que necesitan para demostrarlo."

Estas vacunas "mucosas" contra la COVID-19 no están disponibles en EE UU ni en Europa, pero sí en otras partes del mundo. La última vez que informamos sobre los esfuerzos para desarrollar una vacuna mucosa en 2022, se aprobaron dos de ellas en China e India. Ahora, ya se utilizan cinco en China, India, Irán, Indonesia, Marruecos y Rusia. Además, un par de docenas más se encuentran en ensayos clínicos, y aún más están en desarrollo.

A principios de diciembre, leí un artículo de un equipo chino que está desarrollando otra vacuna inhalable. Esta difiere de las demás, al menos en un aspecto notable: se encuentra en polvo, es decir, puede almacenarse y no necesita refrigeración. Esto facilitaría su transporte y distribución, en especial, en lugares donde la refrigeración es difícil.

Esta candidata no estará disponible pronto, pues todavía está en fase de desarrollo preclínico, junto con más de cien vacunas similares. Ahora que han pasado casi cuatro años desde el inicio de la pandemia, parece un buen momento para hacer un balance. ¿Cuándo tendrá EE UU su primera vacuna mucosa contra la COVID-19? ¿Qué aspecto tendrá? ¿Y funcionará según lo previsto?

¿Cuál es el calendario?

En EE UU solo se ha aprobado FluMist, una vacuna contra las mucosas, y eso ocurrió hace dos décadas. Pero los esfuerzos por desarrollar una contra la COVID-19 avanzan con rapidez. ¿Cuándo verá EE UU su primera vacuna mucosa contra la COVID-19? "Quizá nunca, pero creo que cada vez hay más probabilidades de que ocurra antes de finales de 2024", especuló Eric Topol, cardiólogo que sigue la investigación sobre la COVID-19 desde 2020, en un boletín reciente.

El gobierno de EE UU trabaja para acelerar los procesos con una inyección de dinero a través del Proyecto NextGen, un esfuerzo de 5.000 millones de dólares (4.600 millones de euros) para introducir en el mercado nuevas y mejoradas vacunas contra la COVID-19. En octubre, el Departamento de Salud y Servicios Humanos de EE UU anunció que se entregarían casi 20 millones de dólares (18 millones de euros) a Codagenix y CastleVax, dos compañías que desarrollan vacunas mucosas. Esta cantidad ayudará a las empresas a prepararse para realizar estudios que prueben la eficacia de sus vacunas en la prevención de infecciones sintomáticas.

CoviLiv, la vacuna nasal de Codagenix, ya forma parte de un ensayo de eficacia de fase 3 coordinado por la Organización Mundial de la Salud. En octubre, la empresa comunicó los resultados de un estudio de seguridad en adultos del Reino Unido que nunca se habían vacunado contra la COVID-19. Se concluyó que el pulverizador nasal provocó una inmunidad robusta, según los marcadores en la sangre, pero la evidencia de una respuesta inmunitaria en la sangre no indica necesariamente una respuesta inmunitaria en la mucosa de las vías respiratorias. O, como aseguró un médico, "al igual que el «lado oculto de la Luna», que no es visible desde la Tierra, la respuesta de las mucosas a los patógenos se encuentran en un lado oculto de la inmunidad, que es poco o nada visible desde la sangre periférica, y más complicado de sondear que la inmunidad sistémica".

¿Cuál es la mejor manera de provocar la inmunidad de las mucosas?

Eso está por determinar, diferentes grupos ya están probando diversas estrategias. El objetivo es inducir una inmunidad robusta, amplia y duradera en las vías respiratorias. Pero, por el momento, se desconoce qué estrategia tendrá éxito. Las vacunas contra las mucosas se dividen en varias categorías según cómo se administren y la plataforma que utilicen. Algunas son aerosoles que se aplican en la nariz, CovLiv, por ejemplo; mientras otras se inhalan en los pulmones, como la desarrollada por CanSinBIO en China.



A veces, estas dos vías de administración se meten en el mismo saco, pero son muy diferentes, afirma Mangalakumari Jeyanathan, investigador de la Universidad McMaster (Canadá) y coautor de un editorial que acompaña al nuevo artículo sobre vacunas inhalables. Con una vacuna nasal, el contenido se introduce en la cavidad nasal. Pero Jeyanathan opina que las vacunas inhalables, que penetran con profundidad en los pulmones, puede que sean más efectivas. La investigación de su equipo sugiere que las vacunas nasales inducen respuestas inmunitarias solo en las vías respiratorias superiores, no en las inferiores. Es decir, si la vacuna no previene la infección, los pulmones siguen siendo vulnerables, y "necesitamos las respuestas inmunitarias para prevenir cualquier tipo de daño grave al pulmón".

La vacuna descrita en el reciente artículo de Nature fue ideada para ser inhalada. Es una vacuna de subunidades, es decir, contiene una parte del patógeno. En este caso, la subunidad es una parte de toxina del cólera que se ha diseñado para que muestre una parte del virus del SARS-CoV-2. Estas proteínas se colocan en microcápsulas lo suficientemente pequeñas como para viajar hasta las profundidades de los pulmones.

Me he vacunado y tuve COVID-19. ¿Ya no tengo una buena inmunidad en las mucosas?

Tal vez. Los estudios demuestran que las personas infectadas y vacunadas tienen mejor inmunidad en las mucosas que quienes se vacunaron pero no se infectaron. Sin embargo, Jeyanathan asegura que su grupo también ha detectado que bastantes personas infectadas no tienen mucha inmunidad mucosa en los pulmones. Al lavar los pulmones con solución salina para recoger muestras del tracto respiratorio inferior, no encuentran respuestas detectables de células T. "Es muy extraño", afirmó.

Sin embargo, no se trata solo de tener inmunidad en las mucosas, también importa cuán amplia es esa inmunidad. Una de las temas más problemáticos del SARS-CoV-2 es que evoluciona de manera constante. Parece que cada mes surge una nueva variante. Los cambios afectan principalmente a la proteína *spike*, el objetivo de todas las vacunas actuales. Pero algunos grupos trabajan para hacer sus vacunas mucosas a prueba de variantes. El grupo de Jeyanathan introduce partes del interior del virus de la COVID-19, que no suelen cambiar con tanta rapidez como la parte que se une a las células, "así no tenemos que perseguir las variantes".

¿Qué se necesita para demostrar que una vacuna mucosa funciona?

Los organismos reguladores todavía intentan averiguar cómo medir el éxito. En algunos casos, las empresas pueden demostrar la eficacia de la vacuna mediante marcadores sustitutos, como los niveles de anticuerpos. Así es como se aprobaron las últimas vacunas de refuerzo. Pero en el caso de las vacunas contra las mucosas, no está claro qué marcador sustitutivo sería más útil: ¿los niveles de anticuerpos en la nariz o la boca? ¿O la abundancia de determinadas células inmunitarias?

En un editorial publicado en 2022, Peter Marks (Administración de Alimentación y Medicamentos de EE UU), y sus colegas argumentaron que las vacunas que difieren de manera sustancial de las ya aprobadas necesitarían ser probadas en grandes ensayos clínicos aleatorizados. Queremos ver que estas vacunas de nueva generación superan a las vacunas ya existentes y frenan la transmisión. Aún no disponemos de esos datos, y podrían pasar años antes de que sepamos si las vacunas mucosas consiguen lo que esperamos: impedir que el virus se propague.

Otra cuestión

Vertex, fabricante de la recién aprobada terapia CRISPR contra la anemia falciforme, acordó pagar decenas de millones de dólares para evitar cualquier demanda por infracción de patentes. Antonio Regalado contó la historia.

Más información del archivo de MIT Technology Review

Cuando se aprobaron las dos primeras vacunas contra las mucosas en 2022, publicamos un reportaje escrito por Jessica Hamelzou.

¿No sería maravilloso disponer de una vacuna que funcionara contra todas las versiones de COVID-19? La nanopartícula mosaico de este equipo puede ser la clave del éxito, según informó Adam Piore.

Fuente: MIT Technology Review. Disponible en <https://acortar.link/by2R0S>

ANVISA aprueba vacuna COVID-19 de India

9 ene. Mientras que en Argentina se registraron incrementos en la cantidad de contagios diarios de COVID-19 desde la segunda quincena de diciembre, en Brasil la agencia reguladora ANVISA le subió el pulgar a una nueva vacuna contra el coronavirus. Denominada Covovax, es un desarrollo del Instituto Serum de India. Ver Comunicado de prensa

El registro había sido solicitado por su representante en el país, la empresa brasileña Zalika Farmaceutica. La vacuna aprobada es un inmunizante monovalente, con antígeno de proteína S recombinante (*spike*) con adyuvante a base de saponina.

La tecnología de proteínas recombinantes permite producir dentro de la industria el material que se utilizará para generar la formación de anticuerpos en el organismo. El adyuvante tiene la función de incrementar esta producción, explicó ANVISA.



La vacuna fue aprobada para la prevención de la COVID-19 en personas de 12 años o más. En un esquema de primovacunación, debe administrarse en dos dosis separadas, de 0,5 ml cada una. La segunda dosis debe administrarse 21 días después de la primera. Se recomienda un refuerzo aproximadamente 6 meses después de la inmunización primaria, para personas de 18 años o más.

La vacuna es fabricada por el Serum Institute of India. En el futuro, tras la evaluación por parte del Ministerio de Salud, podrá incorporarse al Programa Nacional de Inmunización (PNI).

Fuente: PHARMABIZ.net. Disponible en <https://acortar.link/Kvd48D>

Actualización Epidemiológica: Circulación de SARS-CoV-2 y otros virus respiratorios en la región de las Américas

10 ene. La Organización Panamericana de la Salud (OPS) emitió esta semana una actualización epidemiológica sobre la actividad de los virus respiratorios en la región de las Américas. La actualización proporciona recomendaciones para mantener la vigilancia de estos virus y reforzar la respuesta de los sistemas de salud, especialmente en el contexto del periodo epidémico de otras enfermedades transmisibles.

En 2023, se registraron niveles elevados de enfermedad respiratoria aguda en la región, impulsados por la circulación de SARS-CoV-2, influenza y virus sincitial respiratorio. Actualmente, el hemisferio norte atraviesa una actividad epidémica asociada a la circulación de estos tres virus esperada en el invierno, mientras que algunos países del hemisferio sur experimentan incidencias más altas que la esperada para esta temporada, debido a la circulación de SARS-CoV-2.

La OPS recomienda a los Estados Miembros que mantengan la vigilancia de los virus respiratorios para detectar cualquier cambio en la circulación o en la gravedad de la enfermedad; estén preparados para responder a un posible aumento de casos y hospitalizaciones; y continúen con los esfuerzos para aumentar la vacunación contra la influenza y la COVID-19, principalmente en población vulnerable y de alto riesgo.



La OPS continuará monitoreando la situación y proporcionando actualizaciones y apoyo a los países según sea necesario.

Fuente: Organización Panamericana de la Salud. Disponible en <https://acortar.link/PD68m>

Avanza estudio de candidato vacunal para población pediátrica de Cuba

11 ene. El estudio de intervención con el candidato vacunal Quimi-Vio, desarrollado por especialistas del Instituto Finlay de Vacunas (IFV) y aplicado a más de 11 mil 700 infantes en la provincia de Cienfuegos, sobresale como uno de los aportes más relevantes para la protección de la población pediátrica en Cuba.

Esa investigación figura entre las contribuciones del sector de la Salud a la conmemoración nacional por el Día de la Ciencia Cubana, por celebrarse el próximo 15 de enero, logro reflejado en un informe de la delegación del Ministerio de Ciencia, Tecnología y Medio Ambiente del territorio centrosureño.



(ACN) (Foto: Dirección General de Salud de Cienfuegos)

De acuerdo con el texto, el objetivo general de la pesquisa fue estimar los efectos directos e indirectos de la vacunación frente a la enfermedad neomocócica invasiva, así como la resistencia antimicrobiana en niños de entre uno y cinco años.

La doctora Yagén Pomares Pérez, directora general de Salud en Cienfuegos, destacó a la Agencia Cubana de Noticias que, durante el último proceso, efectuado entre septiembre y noviembre de 2023, alcanzaron a más del 95 por ciento de la población objeto de estudio con el inyectable heptavalente que actúa frente a los siete serotipos predominantes de la bacteria.

Desde 2013 los expertos del IFV se acercaron a las autoridades sanitarias de la provincia con el propósito de realizar la primera intervención contra el neumococo en pequeños de dos a 18 meses, investigación en la que participó la Doctora en Ciencias María Felicia Casanova González, Especialista de II Grado en Neurofisiología.

Casanova González subrayó que Quimi-Vio ha demostrado ser segura desde el punto de vista inmunológico, resulta competente porque desarrolla respuestas en el menor y es no inferior a la Prevenar 13, considerada una de las mejores vacunas a nivel mundial.

Asimismo, recalcó que con la aplicación del esquema disminuyó la carga hospitalaria por la enfermedad neumocócica, la meningoencefalitis, la neumonía, la otitis media y otras afecciones respiratorias.

Organizado desde los 20 policlínicos cienfuegueros y otros sitios clínicos de forma temporal como los círculos infantiles, el cronograma incluyó la administración de dos dosis a pequeños de 12 a 23 meses de edad, con un período intermedio de ocho semanas; mientras que los niños hasta cinco años recibieron una inyección única.

Fuente: Radio Cadena Agramonte. Disponible en <https://acortar.link/JmzMRj>

La ANMAT autorizó a Laboratorios Richmond a producir la vacuna contra la COVID-19 Convidecia®

12 ene. La Organización Mundial de la Salud (OMS) dio por finalizada la emergencia sanitaria por la COVID-19 en mayo del año pasado. Aún cuando simbólicamente fue tomado como el fin de la devastadora crisis de salud que se había iniciado 3 años antes, el organismo de la ONU advirtió que la pandemia no terminó. Es así como los grandes actores de la salud a nivel global continúan generando novedades en torno de la protección ante el coronavirus SARS-CoV-2, especialmente a través de la actualización de las vacunas y la continuidad de su producción.

Una más de estas novedades se conoció en las últimas horas, ya que Laboratorios Richmond anunció que obtuvo la certificación de Administración Nacional de Alimentos, Medicamentos y Tecnología Médica (ANMAT) para la vacuna Convidecia® contra COVID-19 de la empresa farmacéutica CanSino Biologics Inc. (CanSinoBIO) y reveló que actualmente está trabajando frente al organismo regulador la presentación del inmunizante para la nueva subvariante XBB1.5, de Ómicron.

CanSinoBIO y Laboratorios Richmond —una empresa de capitales argentinos con presencia en la región desde hace más de 85 años— firmaron en 2022 un acuerdo para la producción y comercialización de distintas vacunas y esta es la primera sobre la que se realizó la transferencia tecnológica. La biotecnológica nacional informó que “el acuerdo potencia el desarrollo de conocimiento científico argentino y a su vez, permitirá sustituir importaciones y posicionará al país como referente de vacunas para América Latina”.

“Esta certificación es un paso más que damos en el desarrollo de vacunas con el objetivo siempre presente de velar por la salud de los argentinos. Somos una empresa farmacéutica argentina con presencia en la región que lleva varias décadas apostando a la ciencia, la tecnología y la industria como motores del desarrollo”, destacó Marcelo Figueiras, presidente de Laboratorios Richmond.

Además, Richmond anunció que, en este marco, “incorporará en diferentes etapas de producción tecnologías como adenovirus, proteínas recombinantes y ARN mensajero”.

Convidecia® se encuentra aprobada por la OMS y su eficacia fue evaluada en estudios realizados en distintos países, entre los cuales se encuentra Argentina. Los resultados del estudio principal fueron publicados en la prestigiosa revista *The Lancet*.

Fuente: infobae. Disponible en <https://acortar.link/LRKNKY>

"La farmacéutica argentina recibió hoy la certificación de la agencia reguladora argentina para elaborar la vacuna originaria de la empresa china CanSino. Se administra en una sola dosis que utiliza un adenovirus humano modificado para generar inmunidad contra el coronavirus."



VacciMonitor es una revista dedicada a la vacunología y temas afines como Inmunología, Adyuvantes, Infectología, Microbiología, Epidemiología, Validación, Aspectos regulatorios, entre otros. Arbitrada, de acceso abierto y bajo la Licencia *Creative Commons* está indexada en:



Síguenos en redes sociales



@vaccimonitor



@finlayediciones



@finlayediciones



<https://ediciones.finlay.edu.cu/>

Artículos científicos publicados en Medline

Filters activated: Publication date from 2024/01/01 to 2024/01/12. "Covid-19 vaccine" (Title/Abstract) 308 records.

[Immune responses and clinical outcomes after COVID-19 vaccination in patients with liver disease and liver transplant recipients.](#)

Murray SM, Pose E, Wittner M, Londoño MC, Schaub G, Cook J, Dimitriadis S, Meacham G, Irwin S, Lim Z, Duengelhof P, Sterneck M, Lohse AW, Perez V, Trivedi P, Bhandal K, Mullish BH, Manousou P, Provine NM, Avitabile E, Carroll M, Tipton T, Healy S, Burra P, Klenerman P, Dunachie S, Kronsteiner B, Maciola AK, Pasqual G, Hernandez-Gea V, Garcia-Pagan JC, Lampertico P, Iavarone M, Gines P, Lütgehetmann M, Schulze Zur Wiesch J, Russo FP, Barnes E, Marjot T; OCTAVE Collaborative Group, PITCH study, and the EASL supported COVID-Hep vaccine network. *J Hepatol.* 2024 Jan;80(1):109-123. doi: 10.1016/j.jhep.2023.10.009. Epub 2023 Oct 19. PMID: 37863203

[Message Fatigue and COVID-19 Vaccine Booster Uptake in the United States.](#)

Zhao X, Kadono M, Kranzler EC, Pavisic I, Miles S, Maher M, Strausser L, Cai X, Hoffman L. *J Health Commun.* 2024 Jan 2;29(1):61-71. doi: 10.1080/10810730.2023.2282036. Epub 2024 Jan 9. PMID: 37962284

[Association of COVID-19 Versus COVID-19 Vaccination With Kidney Function and Disease Activity in Primary Glomerular Disease: A Report of the Cure Glomerulonephropathy Study.](#)

Wang CS, Glenn DA, Helmuth M, Smith AR, Bomback AS, Canetta PA, Coppock GM, Khalid M, Tuttle KR, Bou-Matar R, Greenbaum LA, Robinson BM, Holzman LB, Smoyer WE, Rheault MN, Gipson D, Mariani LH; Cure Glomerulonephropathy (CureGN) Study Consortium. *Am J Kidney Dis.* 2024 Jan;83(1):37-46. doi: 10.1053/j.ajkd.2023.07.008. Epub 2023 Aug 31. PMID: 37657635

[Global COVID-19 vaccine acceptance level and its determinants: an umbrella review.](#)

Abate BB, Tilahun BD, Yayeh BM. *BMC Public Health.* 2024 Jan 2;24(1):5. doi: 10.1186/s12889-023-17497-4. PMID: 38166750

[Flares in IIMs and the timeline following COVID-19 vaccination: a combined analysis of the COVAD-1 and -2 surveys.](#)

R N, Sen P, Griger Z, Day J, Joshi M, Nune A, Nikiphorou E, Saha S, Tan AL, Shinjo SK, Ziade N, Velikova T, Milchert M, Jagtap K, Parodis I, Gracia-Ramos AE, Cavagna L, Kuwana M, Knitza J, Chen YM, Makol A, Agarwal V, Patel A, Pauling JD, Wincup C, Barman B, Zamora Tehozol EA, Rojas Serrano J, García-De La Torre I, Colunga-Pedraza IJ, Merayo-Chalico J, Chibuzo OC, Katchamart W, Akarawatcharapura Goo P, Shumnaliev R, Hoff LS, El Kibbi L, Halabi H, Vaidya B, Shaharir SS, Hasan ATMT, Dey D, Toro Gutiérrez CE, Caballero-Urbe CV, Lilleker JB, Salim B, Gheita T, Chatterjee T, Distler O, Saavedra MA, Chinoy H, Agarwal V, Aggarwal R, Gupta L; COVAD Study Group. *Rheumatology (Oxford).* 2024 Jan 4;63(1):127-139. doi: 10.1093/rheumatology/kead180. PMID: 37084267

[COVID-19 Vaccine Uptake, Hesitancy, and Flare in a Large Rheumatology Practice Network.](#)

Holladay EE, Mudano AS, Xie F, Stewart P, Jackson LE, Danila MI, Gavigan K, Nowell WB, Venkatachalam S, Curtis JR. *Arthritis Care Res (Hoboken).* 2024 Jan;76(1):111-119. doi: 10.1002/acr.25241. Epub 2023 Dec 12. PMID: 37750035

[COVID-19 Vaccine Policy Implementation and Differential Vaccine Uptake Trajectories in Chicago Communities.](#)

Kim SJ, McWhirter N, Duong K, Khare MM, Giles WH, Basu S, Hershow RC, Stiehl E. J Public Health Manag Pract. 2024 Jan-Feb 01;30(1):E21-E30. doi: 10.1097/PHH.0000000000001841. PMID: 37966958

[COVID-19 vaccine hesitancy: assessing the prevalence, predictors, and effectiveness of a community pharmacy based counseling intervention.](#)

Kiptoo J, Isiiko J, Yadesa TM, Rhodah T, Alele PE, Mulogo EM. BMC Public Health. 2024 Jan 6;24(1):111. doi: 10.1186/s12889-023-17532-4. PMID: 38184570

[Virology-the path forward.](#)

Rasmussen AL, Gronvall GK, Lowen AC, Goodrum F, Alwine J, Andersen KG, Anthony SJ, Baines J, Banerjee A, Broadbent AJ, Brooke CB, Campos SK, Caposio P, Casadevall A, Chan GC, Cliffe AR, Collins-McMillen D, Connell N, Damania B, Daugherty MD, Debbink K, Dermody TS, DiMaio D, Duprex WP, Emerman M, Galloway DA, Garry RF, Goldstein SA, Greninger AL, Hartman AL, Hogue BG, Horner SM, Hotez PJ, Jung JU, Kamil JP, Karst SM, Laimins L, Lakdawala SS, Landais I, Letko M, Lindenbach B, Liu S-L, Luftig M, McFadden G, Mehle A, Morrison J, Moscona A, Mühlberger E, Munger J, Münger K, Murphy E, Neufeldt CJ, Nikolich JZ, O'Connor CM, Pekosz A, Permar SR, Pfeiffer JK, Popescu SV, Purdy JG, Racaniello VR, Rice CM, Runstadler JA, Sapp MJ, Scott RS, Smith GA, Sorrell EM, Speranza E, Streblow D, Tibbetts SA, Toth Z, Van Doorslaer K, Weiss SR, White EA, White TM, Wobus CE, Worobey M, Yamaoka S, Yurochko A. J Virol. 2024 Jan 3:e0179123. doi: 10.1128/jvi.01791-23. Online ahead of print. PMID: 38168672

[Early COVID-19 vaccine effectiveness of XBB.1.5 vaccine against hospitalisation and admission to intensive care, the Netherlands, 9 October to 5 December 2023.](#)

van Werkhoven CH, Valk AW, Smagge B, de Melker HE, Knol MJ, Hahné SJ, van den Hof S, de Gier B. Euro Surveill. 2024 Jan;29(1). doi: 10.2807/1560-7917.ES.2024.29.1.2300703. PMID: 38179623

[Attitudes of healthcare workers toward the COVID-19 vaccine and related factors: A systematic review.](#)

Tunç AM, Çevirme A. Public Health Nurs. 2024 Jan-Feb;41(1):10-21. doi: 10.1111/phn.13250. Epub 2023 Sep 5. PMID: 37668422

[COVID-19 vaccine hesitancy among healthcare workers in Arab Countries: A systematic review and meta-analysis.](#)

Alalawi M, Alsalloum MA, Garwan YM, Abuzeid M, Alalawi H, Eljaaly K, Thabit AK, Jose J. PLoS One. 2024 Jan 2;19(1):e0296432. doi: 10.1371/journal.pone.0296432. eCollection 2024. PMID: 38166119

[Therapeutic Challenges in COVID-19.](#)

Maiti AK. Curr Mol Med. 2024;24(1):14-25. doi: 10.2174/1566524023666221222162641. PMID: 36567277

[Lessons learnt from COVID-19 to reduce mortality and morbidity in the Global South: addressing global vaccine equity for future pandemics.](#)

Martin R, Maleche A, Gay J, Fatima H. BMJ Glob Health. 2024 Jan 1;9(1):e013680. doi: 10.1136/bmjgh-2023-013680. PMID: 38167259

[Vaccination against COVID-19 - risks and benefits in children.](#)

Munro APS, Jones CE, Faust SN. Eur J Pediatr. 2024 Jan 2. doi: 10.1007/s00431-023-05380-8. Online ahead of print. PMID: 38169007

[Prevalence, predictors and reasons for COVID-19 vaccine hesitancy: Comment.](#)

Daungsupawong H, Wiwanitkit V. Health Policy. 2024 Jan;139:104964. doi: 10.1016/j.healthpol.2023.104964. Epub 2023 Dec 11. PMID: 38113539

[Political orientation of online media sources and reporting of Covid-19 vaccine myocarditis.](#)

Matsumura A, Garg R, Hussain M, Matsumura ME. PLoS One. 2024 Jan 2;19(1):e0296295. doi: 10.1371/journal.pone.0296295. eCollection 2024. PMID: 38166122

[Vaccine development: Current trends and technologies.](#)

Poria R, Kala D, Nagraik R, Dhir Y, Dhir S, Singh B, Kaushik NK, Noorani MS, Kaushal A, Gupta S. Life Sci. 2024 Jan 1;336:122331. doi: 10.1016/j.lfs.2023.122331. Epub 2023 Dec 7. PMID: 38070863

[Unpacking adverse events and associations post COVID-19 vaccination: a deep dive into vaccine adverse event reporting system data.](#)

Li Y, Lundin SK, Li J, Tao W, Dang Y, Chen Y, Tao C. Expert Rev Vaccines. 2024 Jan-Dec;23(1):53-59. doi: 10.1080/14760584.2023.2292203. Epub 2023 Dec 14. PMID: 38063069

[Natural and genetically-modified animal models to investigate pulmonary and extrapulmonary manifestations of COVID-19.](#)

Tiwari S, Goel G, Kumar A. Int Rev Immunol. 2024;43(1):13-32. doi: 10.1080/08830185.2022.2089666. Epub 2022 Jun 25. PMID: 35757923

[Cytokine-responsive T- and NK-cells portray SARS-CoV-2 vaccine-responders and infection in multiple myeloma patients.](#)

Enssle JC, Campe J, Moter A, Voit I, Gessner A, Yu W, Wolf S, Steffen B, Serve H, Bremm M, Huenecke S, Lohoff M, Vehreschild M, Rabenau HF, Widera M, Ciesek S, Oellerich T, Imkeller K, Rieger MA, von Metzler I, Ullrich E. Leukemia. 2024 Jan;38(1):168-180. doi: 10.1038/s41375-023-02070-0. Epub 2023 Dec 4. PMID: 38049509

[Health system quality and COVID-19 vaccination: a cross-sectional analysis in 14 countries.](#)

Arsenault C, Lewis TP, Kapoor NR, Okiro EA, Leslie HH, Armeni P, Jarhyan P, Doubova SV, Wright KD, Aryal A, Kounnavong S, Mohan S, Odipo E, Lee HY, Shin J, Ayele W, Medina-Ranilla J, Espinoza-Pajuelo L, Derseh Mebratie A, García Elorrio E, Mazzoni A, Oh J, SteelFisher GK, Tarricone R, Kruk ME. Lancet Glob Health. 2024 Jan;12(1):e156-e165. doi: 10.1016/S2214-109X(23)00490-4. Epub 2023 Dec 11. PMID: 38096888

[COVID-19 vaccination intention and vaccine hesitancy among citizens of the Métis Nation of Ontario.](#)

Tsui N, Edwards SA, Simms AJ, King KD, Mecredy G; Métis Nation of Ontario. Can J Public Health. 2024 Jan 8. doi: 10.17269/s41997-023-00836-8. Online ahead of print. PMID: 38189860

[Spatiotemporal trends in COVID-19 vaccine sentiments on a social media platform and correlations with reported vaccine coverage.](#)

Zhou X, Zhang X, Larson HJ, de Figueiredo A, Jit M, Fodeh S, Vermund SH, Zang S, Lin L, Hou Z. Bull World Health Organ. 2024 Jan 1;102(1):32-45. doi: 10.2471/BLT.23.289682. Epub 2023 Oct 31. PMID: 38164328

[Attitudes and perceptions toward COVID-19 virus and vaccines among a Somali population in Northern Wisconsin.](#)

Alasagheirin M, Canales MK, Decker E. Public Health Nurs. 2024 Jan-Feb;41(1):151-163. doi: 10.1111/phn.13258. Epub 2023 Nov 16. PMID: 37970916

[Parental concerns and vaccine hesitancy against COVID-19 vaccination for children in Greece: A cross-sectional survey.](#)

Steletou E, Giannouchos T, Dimitriou G, Karatza A, Sinopidis X, Maltezou HC, Souliotis K, Gkenti D. Vaccine. 2024 Jan 6:S0264-410X(24)00003-3. doi: 10.1016/j.vaccine.2024.01.008. Online ahead of print. PMID: 38185545

[Repeated Omicron exposures override ancestral SARS-CoV-2 immune imprinting.](#)

Yisimayi A, Song W, Wang J, Jian F, Yu Y, Chen X, Xu Y, Yang S, Niu X, Xiao T, Wang J, Zhao L, Sun H, An R, Zhang N, Wang Y, Wang P, Yu L, Lv Z, Gu Q, Shao F, Jin R, Shen Z, Xie XS, Wang Y, Cao Y. Nature. 2024 Jan;625(7993):148-156. doi: 10.1038/s41586-023-06753-7. Epub 2023 Nov 22. PMID: 37993710

[COVID-19 Vaccine Hesitancy Among US Adults: Safety and Effectiveness Perceptions and Messaging to Increase Vaccine Confidence and Intent to Vaccinate.](#)

Weinstein N, Schwarz K, Chan I, Kobau R, Alexander R, Kollar L, Rodriguez L, Mansergh G, Repetski T, Gandhi P, Pechta L. Public Health Rep. 2024 Jan-Feb;139(1):102-111. doi: 10.1177/00333549231204419. Epub 2023 Nov 4. PMID: 37924246

[N1-methylpseudouridylation of mRNA causes +1 ribosomal frameshifting.](#)

Mulrone TE, Pöyry T, Yam-Puc JC, Rust M, Harvey RF, Kalmar L, Horner E, Booth L, Ferreira AP, Stoneley M, Sawarkar R, Mentzer AJ, Lilley KS, Smales CM, von der Haar T, Turtle L, Dunachie S, Klenerman P, Thaventhiran JED, Willis AE. Nature. 2024 Jan;625(7993):189-194. doi: 10.1038/s41586-023-06800-3. Epub 2023 Dec 6. PMID: 38057663

[The relative effectiveness of three and four doses of COVID-19 vaccine in Victoria, Australia: A data linkage study.](#)

Canevari JT, Cheng AC, Wu L, Rowe SL, Wollersheim DE, West D, Majumdar SS, Sullivan SG. Vaccine. 2024 Jan 1;42(1):53-58. doi: 10.1016/j.vaccine.2023.11.047. Epub 2023 Dec 5. PMID: 38057205

[Bell's Palsy and COVID-19: Insights from a Population-Based Analysis.](#)

Balchander D, Cabrera CI, Qureshi H, Perez JA, Goslawski A, Tranchito E, Johnson BR, Tamaki A, Rabbani CC. Facial Plast Surg Aesthet Med. 2024 Jan-Feb;26(1):41-46. doi: 10.1089/fpsam.2022.0394. Epub 2023 Sep 25. PMID: 37751178

[Postmenopausal bleeding after COVID-19 vaccination.](#)

Kauffman TL, Irving SA, Brooks N, Vesco KK, Slaughter M, Smith N, Tepper NK, Olson CK, Weintraub ES, Naleway AL; Vaccine Safety Datalink Menstrual Irregularities Workgroup. Am J Obstet Gynecol. 2024 Jan;230(1):71.e1-71.e14. doi: 10.1016/j.ajog.2023.09.007. Epub 2023 Sep 17. PMID: 37726057

[Emerging mRNA therapies for cardiac fibrosis.](#)

Jardin B, Epstein JA. Am J Physiol Cell Physiol. 2024 Jan 1;326(1):C107-C111. doi: 10.1152/ajpcell.00504.2023. Epub 2023 Dec 4. PMID: 38047297

[Universal masking during COVID-19 outbreaks in aged care settings: A systematic review and meta-analysis.](#)

Chen R, Kezhekkekara SG, Kunasekaran MP, MacIntyre CR. Ageing Res Rev. 2024 Jan;93:102138. doi: 10.1016/j.arr.2023.102138. Epub 2023 Nov 23. PMID: 38007047

[Vaccinating humanitarian workers against COVID-19.](#)

Selod AG, Perhati J, Dumont C, Danjou B, Cook D. Bull World Health Organ. 2024 Jan 1;102(1):46-57. doi: 10.2471/BLT.23.289980. Epub 2023 Nov 21. PMID: 38164336

[Perspectives and experiences of COVID-19 vaccination in people with autoimmune and inflammatory rheumatic disease.](#)

Peng D, Kelly A, Brady B, Faasse K, El-Haddad C, Frade S. Patient Educ Couns. 2024 Jan;118:107996. doi: 10.1016/j.pec.2023.107996. Epub 2023 Sep 30. PMID: 37832345

[Analysis of clinical factors and ultrasound features associated with COVID-19 vaccine-related axillary lymphadenopathy: A large group study.](#)

Lim J, Khil EK, Lee SA, Choi JA, Lee KY, Jo SW, Lee J. Clin Imaging. 2024 Jan;105:110046. doi: 10.1016/j.clinimag.2023.110046. Epub 2023 Nov 28. PMID: 38039749

[COVID-19 vaccines should be evaluated from the societal perspective.](#)

Sevilla JP. J Med Econ. 2024 Jan-Dec;27(1):1-9. doi: 10.1080/13696998.2023.2287935. Epub 2023 Dec 15. PMID: 38014424

[Vaccinating international seafarers during the COVID-19 pandemic.](#)

Lucas D, Stannard S, Shaw N, Verbist R, Walker K, Zuidema J. Lancet Glob Health. 2024 Jan;12(1):e166-e169. doi: 10.1016/S2214-109X(23)00486-2. PMID: 38097286

[Impact of prior COVID-19 infection on perceptions about the benefit and safety of COVID-19 vaccines.](#)

Thorpe A, Gurmankin Levy A, Scherer LD, Scherer AM, Drews FA, Butler JM, Fagerlin A. Am J Infect Control. 2024 Jan;52(1):125-128. doi: 10.1016/j.ajic.2023.08.002. Epub 2023 Aug 5. PMID: 37544513

[Political affiliation as a moderator of the relationship between organizational climate and COVID-19 vaccine readiness.](#)

Roswag M, Häusser JA, Abdel Hadi S, Hubert P, Mojzisch A. Soc Sci Med. 2024 Jan 3;342:116557. doi: 10.1016/j.socscimed.2024.116557. Online ahead of print. PMID: 38184965

[A Psychosocial Model of COVID-19 Vaccination: Antecedent and Concurrent Effects of Demographics, Traits, Political Beliefs, Vaccine Intention, Information Sources, Mandates, and Flu Vaccine History.](#)

Godfrey O, Bogg T, Milad E. Ann Behav Med. 2024 Jan 1;58(1):12-21. doi: 10.1093/abm/kaad043. PMID: 37540839

[Clinical course and follow-up of pediatric patients with COVID-19 vaccine-associated myocarditis compared to non-vaccine-associated myocarditis within the prospective multicenter registry-"MYKKE".](#)

Rolfs N, Huber C, Schwarzkopf E, Mentzer D, Keller-Stanislawski B, Opgen-Rhein B, Frede W, Rentzsch A, Hecht T, Boehne M, Grafmann M, Kiski D, Graumann I, Foth R, Voges I, Schweigmann U, Ruf B, Fischer M, Wiegand G, Klingel K, Pickardt T, Friede T, Messroghli D, Schubert S, Seidel F; MYKKE Consortium. Am Heart J. 2024 Jan;267:101-115. doi: 10.1016/j.ahj.2023.11.006. Epub 2023 Nov 11. PMID: 37956921

[Health Care Costs Following COVID-19 Hospitalization Prior to Vaccine Availability.](#)

Khan T, Tsipas S, Wozniak GD, Kirley K, Mainous AG 3rd. J Am Board Fam Med. 2024 Jan 5;36(6):883-891. doi: 10.3122/jabfm.2023.230069R1. PMID: 37857443

[Cutaneous lymphoproliferative disorders after COVID-19 vaccination: clinical presentation, histopathology, and outcomes.](#)

Gordon ER, Kwinta BD, Schreidah CM, Fahmy LM, Adeuyan O, Queen D, Trager MH, Magro CM, Geskin LJ. Leuk Lymphoma. 2024 Jan;65(1):48-54. doi: 10.1080/10428194.2023.2270766. Epub 2024 Jan 10. PMID: 37861685

[Effectiveness of Vaccines and Antiviral Drugs in Preventing Severe and Fatal COVID-19, Hong Kong.](#)

Cheung YYH, Lau EHY, Yin G, Lin Y, Cowling BJ, Lam KF. Emerg Infect Dis. 2024 Jan;30(1):70-78. doi: 10.3201/eid3001.230414. Epub 2023 Dec 1. PMID: 38040664

[COVID-19 vaccination among health care workers in Finland: coverage, perceptions and attitudes.](#)

Hämäläinen A, Patovirta RL, Vuorinen S, Leppäaho-Lakka J, Kilpinen S, Sieberns J, Ruotsalainen E, Koivula I, Hämäläinen S. Scand J Public Health. 2024 Jan 3:14034948231203779. doi: 10.1177/14034948231203779. Online ahead of print. PMID: 38166531

[COVID-19 Vaccine Effectiveness Among Adolescents.](#)

Poukka E, Andersson NW, Thiesson EM, Baum U, Pihlström N, Perälä J, Kristoffersen AB, Meijerink H, Starrfelt J, Ljung R, Hviid A. Pediatrics. 2024 Jan 10:e2023062520. doi: 10.1542/peds.2023-062520. Online ahead of print. PMID: 38196395

[Sex differences in the relationship between post-vaccination adverse reactions, decision regret, and WTP for the booster dose of COVID-19 vaccine in Taizhou, China.](#)

Luo C, Chen HX, Tung TH. Prev Med Rep. 2023 Dec 6;37:102538. doi: 10.1016/j.pmedr.2023.102538. eCollection 2024 Jan. PMID: 38162118

[Tracking COVID-19 vaccination expectancies and vaccination refusal in the United States.](#)

Hennessy M, Bleakley A, Langbaum JB. Psychol Health Med. 2024 Jan-Jun;29(2):297-316. doi: 10.1080/13548506.2023.2181977. Epub 2023 Feb 21. PMID: 36809232

[Political ideology shapes risk and benefit judgments of COVID-19 vaccines.](#)

Rubaltelli E, Dickert S, Markowitz DM, Slovic P. Risk Anal. 2024 Jan;44(1):126-140. doi: 10.1111/risa.14150. Epub 2023 Apr 26. PMID: 37186310

[Harnessing Nanovaccines for Effective Immunization—A Special Concern on COVID-19: Facts, Fidelity, and Future Prospective.](#)

Gholap AD, Gupta J, Kamandar P, Bhowmik DD, Rojekar S, Faiyazuddin M, Hatvate NT, Mohanto S, Ahmed MG, Subramaniyan V, Kumarasamy V. ACS Biomater Sci Eng. 2024 Jan 8;10(1):271-297. doi: 10.1021/acsbomaterials.3c01247. Epub 2023 Dec 14. PMID: 38096426

[Targeted degrader technologies as prospective SARS-CoV-2 therapies.](#)

Khurshid R, Schulz JM, Hu J, Snowden TS, Reynolds RC, Schürer SC. Drug Discov Today. 2024 Jan;29(1):103847. doi: 10.1016/j.drudis.2023.103847. Epub 2023 Nov 28. PMID: 38029836

[Racial and ethnic differences in COVID-19 vaccine readiness among adults in the United States, January 2021-April 2023.](#)

Kranzler EC, Ihongbe TO, Marshall MC, Denison B, Dahlen H, Hoffman B, Seserman K, Xie J, Hoffman L. Vaccine. 2024 Jan 4:S0264-410X(23)01537-2. doi: 10.1016/j.vaccine.2023.12.078. Online ahead of print. PMID: 38182461

[IgM N-glycosylation correlates with COVID-19 severity and rate of complement deposition.](#)

Haslund-Gourley BS, Woloszczuk K, Hou J, Connors J, Cusimano G, Bell M, Taramangalam B, Fourati S, Mege N, Bernui M, Altman MC, Krammer F, van Bakel H; IMPACC Network; Maecker HT, Roupheal N, Diray-Arce J, Wigdahl B, Kutzler MA, Cairns CB, Haddad EK, Comunale MA. Nat Commun. 2024 Jan 9;15(1):404. doi: 10.1038/s41467-023-44211-0. PMID: 38195739

[How to increase COVID-19 vaccination among a population with persistently suboptimal vaccine uptake? Evidence from the North Macedonia mobile vaccination and public health advice caravan.](#)

Serrano-Alarcón M, Mckee M, Palumbo L, Salvi C, Johansen A, Stuckler D. Health Policy. 2024 Jan;139:104966. doi: 10.1016/j.healthpol.2023.104966. Epub 2023 Dec 12. PMID: 38101148

[Prenatal Exposure to COVID-19 mRNA Vaccine BNT162b2 Induces Autism-Like Behaviors in Male Neonatal Rats: Insights into WNT and BDNF Signaling Perturbations.](#)

Erdogan MA, Gurbuz O, Bozkurt MF, Erbas O. Neurochem Res. 2024 Jan 10. doi: 10.1007/s11064-023-04089-2. Online ahead of print. PMID: 38198049

[Dermatomyositis in Association With SARS-CoV-2 Infection or COVID-19 Vaccine.](#)

Diaz-Menindez M, Sullivan MM, Wang B, Majithia V, Abril A, Butendieck RR Jr, Ball CT, Berianu F. Arthritis Care Res (Hoboken). 2024 Jan;76(1):98-104. doi: 10.1002/acr.25236. Epub 2023 Nov 3. PMID: 37728071

[The mental health symptoms of individuals with sensory disabilities and the reasons that lead to COVID-19 vaccine refusal and hesitancy.](#)

Hinson-Enslin AM, Espinoza LE. Vaccine. 2024 Jan 9:S0264-410X(24)00012-4. doi: 10.1016/j.vaccine.2024.01.007. Online ahead of print. PMID: 38199922

[Factors Associated With COVID-19 Vaccine Hesitancy in Rheumatology Outpatients in New York City.](#)

Barbhaiya M, Schneider B, Levine JM, Bruce O, Do H, Siegel CH, Bykerk VP, Feldman CH, Jannat-Khah D, Mandl LA. J Clin Rheumatol. 2024 Jan 1;30(1):e1-e8. doi: 10.1097/RHU.0000000000002041. Epub 2023 Nov 9. PMID: 37946323

[Epidemiology, pathogenesis, and management of Coronavirus disease 2019-associated stroke.](#)

Liu L, Zhou C, Jiang H, Wei H, Zhou Y, Zhou C, Ji X. Front Med. 2024 Jan 2. doi: 10.1007/s11684-023-1041-7. Online ahead of print. PMID: 38165535

[ISOM 2023 Research Panel 5: Interventions- Vaccines and prevention, medical and surgical treatment, and impact of COVID-19 pandemic.](#)

Pelton SI, Hullege S, Leach AJ, Marchisio P, Marom T, Sabharwal V, Shaikh N, Tähtinen PA, Venekamp RP. Int J Pediatr Otorhinolaryngol. 2024 Jan;176:111782. doi: 10.1016/j.ijporl.2023.111782. Epub 2023 Nov 13. PMID: 38000342

[Common characteristics of shoulder injury related to vaccine administration following COVID-19 vaccination: a comprehensive systematic review.](#)

Fortier LM, Smith KL, Ina JG, Sinkler MA, Calcei JG, Salata MJ, Gillespie R, Voos JE. J Shoulder Elbow Surg. 2024 Jan;33(1):202-209. doi: 10.1016/j.jse.2023.07.040. Epub 2023 Sep 3. PMID: 37660886

[Adverse Effects Post COVID-19 Vaccination and its Association with Age, Gender and Comorbid Disease in Basrah City Southern of Iraq.](#)

Abdul-Nabi ZN, Mohamed-Jawad NK, Fareed NY, Neamah NF, Shari FH. Curr Drug Saf. 2024;19(2):248-254. doi: 10.2174/1574886318666230525142152. PMID: 37231751

[Type 1 diabetes, COVID-19 vaccines and short-term safety: Subgroup analysis from the global COVAD study.](#)

Chatterjee T, Ravichandran N, Nair N, Gracia-Ramos AE, Barman B, Sen P, Joshi M, Saha S, Nune A, Pande AKR, Velikova T, Parodis I, Tan AL, Shinjo SK, Boro H, Agarwal V, Aggarwal R, Gupta L; COVAD Study Group. J Diabetes Investig. 2024 Jan;15(1):131-138. doi: 10.1111/jdi.14079. Epub 2023 Sep 11. PMID: 37697820

[Dynamic predictors of COVID-19 vaccination uptake and their interconnections over two years in Hong Kong.](#)

Yuan J, Xu Y, Wong IOL, Lam WWT, Ni MY, Cowling BJ, Liao Q. Nat Commun. 2024 Jan 4;15(1):290. doi: 10.1038/s41467-023-44650-9. PMID: 38177142

[Clinical impact and cost-effectiveness of the updated COVID-19 mRNA Autumn 2023 vaccines in Germany.](#)

Joshi K, Scholz S, Maschio M, Kohli M, Lee A, Fust K, Ultsch B, Van de Velde N, Beck E. J Med Econ. 2024 Jan-Dec;27(1):39-50. doi: 10.1080/13696998.2023.2290388. Epub 2023 Dec 13. PMID: 38050685

[Associations Among Menstrual Cycle Length, Coronavirus Disease 2019 \(COVID-19\), and Vaccination.](#)

Alvergne A, Boniface E, Darney B, Shea A, Weber K, Ventola C, Vitzthum VJ, Edelman A. Obstet Gynecol. 2024 Jan 1;143(1):83-91. doi: 10.1097/AOG.0000000000005343. Epub 2023 Aug 10. PMID: 37562052

[Leukopenia associated with lamotrigine initiation after COVID-19 vaccine booster: A case report and literature review.](#)

Murata T, Uno K, Ito M, Nagamine T. Int J Clin Pharmacol Ther. 2024 Jan;62(1):48-55. doi: 10.5414/CP204452. PMID: 37942926

[Coronavirus disease 2019 vaccine mandates and the Owl of Minerva.](#)

Hippen BE. Am J Transplant. 2024 Jan;24(1):9-10. doi: 10.1016/j.ajt.2023.10.005. Epub 2023 Oct 13. PMID: 37839710

[Reported side-effects following Oxford/AstraZeneca COVID-19 vaccine in the north-west province, Iran: A cross-sectional study.](#)

Eterafi M, Fouladi N, Golizadeh M, Shaker H, Matin S, Safarzadeh E. PLoS One. 2024 Jan 5;19(1):e0296669. doi: 10.1371/journal.pone.0296669. eCollection 2024. PMID: 38181026

[Population Attributable Fraction of Nonvaccination of COVID-19 Due to Vaccine Hesitancy, United States, 2021.](#)

Nguyen KH, Zhao R, Chen S, Vaish AK, Bednarczyk RA, Vasudevan L. Am J Epidemiol. 2024 Jan 8;193(1):121-133. doi: 10.1093/aje/kwad167. PMID: 37552958

[Patterns and outcomes of late onset thyroid disturbances after COVID-19 vaccination: A report of 75 cases.](#)

Kaur U, Reddy NTS, Reddy J, Krishna DVV, Dehade A, Agrawal NK. Trop Med Int Health. 2024 Jan;29(1):63-71. doi: 10.1111/tmi.13947. Epub 2023 Nov 20. PMID: 37985133

[Factors affecting subsequent dose of COVID-19 vaccine uptake based on BASNEF model among older adults.](#)

Barati M, Jormand H, Khazaei S, Bashirian S, Sadri M, Afshari M. BMC Infect Dis. 2024 Jan 2;24(1):18. doi: 10.1186/s12879-023-08903-8. PMID: 38166817

[A Multivariate Probit Regression of the Uptake of Adolescent Vaccines Among Racial/Ethnic Minority Adolescents Before and During the COVID-19 Pandemic.](#)

Ejezie CL, Shegog R, Durand C, Cuccaro P, Savas LS. J Adolesc Health. 2024 Jan;74(1):28-35. doi: 10.1016/j.jadohealth.2023.08.007. Epub 2023 Oct 7. PMID: 37804299

[Professional quality of life and fear of COVID-19 among Spanish nurses: A longitudinal repeated cross-sectional study.](#)

González-Nuevo C, Postigo Á, González-Menéndez A, Alonso-Pérez F, Cuesta M, González-Pando D. J Clin Nurs. 2024 Jan;33(1):357-367. doi: 10.1111/jocn.16688. Epub 2023 Mar 15. PMID: 36919674

[Parents' and Caregivers' Support for in-School COVID-19 Mitigation Strategies: A Socioecological Perspective.](#)

Prichett L, Berry AA, Calderon G, Wang J, Hager ER, Klein LM, Edwards LV, Liu Y, Johnson SB. Health Promot Pract. 2024 Jan 4:15248399231221160. doi: 10.1177/15248399231221160. Online ahead of print. PMID: 38174691

[COVID-19 mRNA Vaccination Trends Among Immunocompromised Patients.](#)

Lazarevic B, Casola AR, Chambers CV. J Am Board Fam Med. 2024 Jan 5;36(6):927-932. doi: 10.3122/jabfm.2023.230028R1. PMID: 38171578

[Impact of COVID-19 on HPV Vaccination Rates in New York City and Long Island.](#)

Bower M, Kothari U, Akerman M, Krilov LR, Fiorito TM. Pediatr Infect Dis J. 2024 Jan 1;43(1):84-87. doi: 10.1097/INF.0000000000004149. Epub 2023 Dec 19. PMID: 37963272

[Detection of CTLA-4 level and humeral immune response after the second dose of COVID-19 vaccine in certain Iraqi provinces participants.](#)

Al-Kaif LAIK, Al-Ameri H, Alfatlawi WRO, Mahdi AE, Al-Khafaji YAK, Al-Saadi MA, Al-Charrakh AH, Al-Mammori RT, Akkaif MA. PLoS One. 2024 Jan 5;19(1):e0296521. doi: 10.1371/journal.pone.0296521. eCollection 2024. PMID: 38180994

[A repository of COVID-19 related molecular dynamics simulations and utilisation in the context of nsp10-nsp16 antivirals.](#)

Liang JJ, Pitsillou E, Hung A, Karagiannis TC. J Mol Graph Model. 2024 Jan;126:108666. doi: 10.1016/j.jmgm.2023.108666. Epub 2023 Nov 10. PMID: 37976980

[From Vaccines to Vitality: The Progression of a Community-Academic Collaboration.](#)

Krakora M, Townsend T, Castillo Smyntek XA, Sickler L, Henry C, Hardeman C, Savage Friedman F, Sidani JE, Amodei J, Ruiz M, Rosen D, Ho K, Patterson K, Massart M, Miller E, Tharp-Gilliam S, Ragavan MI. Health Promot Pract. 2024 Jan;25(1):13-16. doi: 10.1177/15248399221137271. Epub 2022 Dec 8. PMID: 36482669

[The COVID-19 vaccination experience of non-English speaking immigrant and refugee communities of color: A community co-created study.](#)

Salib Y, Amodei J, Sanchez C, Castillo Smyntek XA, Lien M, Liu S, Acharya G, Kihumbu B, Mishra P, Chaves-Gnecco D, Timsina K, Diaz J, Henry C, Mickiewicz E, Mwaliya A, Ho K, Sidani J, Ragavan MI. Community Health Equity Res Policy. 2024 Jan;44(2):177-188. doi: 10.1177/2752535X221133140. Epub 2022 Oct 25. PMID: 36283968

[One-year antibody durability induced by EuCorVac-19, a liposome-displayed COVID-19 receptor binding domain subunit vaccine, in healthy Korean subjects.](#)

Lovell JF, Miura K, Baik YO, Lee C, Lee JY, Park YS, Hong I, Lee JH, Kim T, Seo SH, Kim JO, Song M, Kim CJ, Choi JK, Kim J, Choo EJ, Choi JH. Int J Infect Dis. 2024 Jan;138:73-80. doi: 10.1016/j.ijid.2023.11.004. Epub 2023 Nov 7. PMID: 37944586

[COVID-19 Vaccination and Gout Flare Risk in Patients With Infrequent or Frequent Flares: A Prospective Cohort Study.](#)

He Y, Xue X, Dalbeth N, Terkeltaub R, Chen Y, Yan F, Pang L, Li X, Yuan X, Cheng X, Li C, Sun M. Arthritis Care Res (Hoboken). 2024 Jan;76(1):131-139. doi: 10.1002/acr.25215. Epub 2023 Nov 9. PMID: 37553607

[COVID vaccine-induced lupus nephritis: Case report and review of the literature.](#)

Salas A, Fatola A, Krimins R, Kamel IR, Geetha D, Fine D, Monroy-Trujillo M, Rosenberg A, Arend L, Timlin H. Lupus. 2024 Jan 2:9612033231222390. doi: 10.1177/09612033231222390. Online ahead of print. PMID: 38164925

[A Quantitative Clinical Pharmacology-Based Framework For Model-Informed Vaccine Development.](#)

Desikan R, Germani M, van der Graaf PH, Magee M. J Pharm Sci. 2024 Jan;113(1):22-32. doi: 10.1016/j.xphs.2023.10.043. Epub 2023 Nov 2. PMID: 37924975

[Original Research: Predictors of COVID-19 Vaccine Hesitancy Among Asian Indians in the United States: A Cross-Sectional Descriptive Study.](#)

Albuquerque LH, Luckose AB, Joseph M, Mathews N, Devarayasamudram S, Mahon E. Am J Nurs. 2024 Jan 1;124(1):20-27. doi: 10.1097/01.NAJ.0000998220.62535.e4. PMID: 38055842

[Association Between Low Anti-spike Antibody Levels After the Third Dose of SARS-CoV-2 Vaccination and Hospitalization due to Symptomatic Breakthrough Infection in Kidney Transplant Recipients.](#)

Han A, Min S, Jo EA, Lee H, Kim YC, Han SS, Kang HG, Ahn YH, Oh I, Song EY, Ha J. Ann Lab Med. 2024 Jan 1;44(1):64-73. doi: 10.3343/alm.2024.44.1.64. Epub 2023 Sep 4. PMID: 37665287

[Plausible Influence of HLA Class I and Class II Diversity on SARS-CoV-2 Vulnerability.](#)

Sharma N, Sharma G, Toor D. Crit Rev Immunol. 2024;44(1):31-40. doi: 10.1615/CritRevImmunol.2023049920. PMID: 37947070

[Postural orthostatic tachycardia syndrome after COVID-19 vaccination.](#)

Teodorescu DL, Kote A, Reaso JN, Rosenberg C, Liu X, Kwan AC, Cheng S, Chen PS. Heart Rhythm. 2024 Jan;21(1):74-81. doi: 10.1016/j.hrthm.2023.09.012. Epub 2023 Nov 11. PMID: 38176772

[COVID-19 Vaccine Hesitancy Among Caregivers of Developmentally Disabled Youth.](#)

Romani PW, Hammad I, Luehring MC. Clin Pediatr (Phila). 2024 Jan;63(1):14-17. doi: 10.1177/00099228231201717. Epub 2023 Sep 16. PMID: 37715700

[Effectiveness of a Fourth COVID-19 mRNA Vaccine Dose Against the Omicron Variant in Solid Organ Transplant Recipients.](#)

Naylor KL, Knoll GA, Smith G, McArthur E, Kwong JC, Dixon SN, Treleaven D, Kim SJ. Transplantation. 2024 Jan 1;108(1):294-302. doi: 10.1097/TP.0000000000004766. Epub 2023 Dec 13. PMID: 38098159

[Clinical and immunological responses to COVID-19 vaccination in rheumatoid arthritis patients on disease modifying antirheumatic drugs: a cross-sectional study.](#)

Eerike M, Parimi VP, D M, Pyati A, Sundaramurthy R, Sakthivadivel V, Pidugu AB, Pharm D, Surapareddy B, Ramineni NT, Priyadarshini R, Patil PP. J Rheum Dis. 2024 Jan 1;31(1):15-24. doi: 10.4078/jrd.2023.0054. Epub 2023 Nov 10. PMID: 38130958

[COVID and the Kidney: An Update.](#)

Bell S, Perkins GB, Anandh U, Coates PT. Semin Nephrol. 2024 Jan 9;151471. doi: 10.1016/j.semnephrol.2023.151471. Online ahead of print. PMID: 38199827

[Comparison between European Medicines Agency and US Food and Drug Administration in Granting Accelerated Marketing Authorizations for Covid-19 Medicines and their Utilized Regulations.](#)

Ghadanian M, Schafheutle E. Ther Innov Regul Sci. 2024 Jan;58(1):79-113. doi: 10.1007/s43441-023-00574-6. Epub 2023 Oct 20. PMID: 37861859

[Influvac Tetra: clinical experience on safety, efficacy, and immunogenicity.](#)

Colombo L, Hadigal S, Nauta J, Kondratenko A, Rogoll J, Van de Witte S. Expert Rev Vaccines. 2024 Jan-Dec;23(1):88-101. doi: 10.1080/14760584.2023.2293241. Epub 2023 Dec 15. PMID: 38088157

[Program Offering Free COVID-19 and Flu Services Expands Nationwide.](#)

Harris E. JAMA. 2024 Jan 9;331(2):101. doi: 10.1001/jama.2023.25268. PMID: 38117506

[SARS-CoV-2 vaccine immunogenicity for people living with HIV: A systematic review and meta-analysis.](#)

Søndergaard MH, Thavarajah JJ, Churchill Henson H, Wejse CM. HIV Med. 2024 Jan;25(1):16-37. doi: 10.1111/hiv.13537. Epub 2023 Sep 21. PMID: 37731375

[Vaccination against influenza viruses reduces infection, not hospitalization or death, from respiratory COVID-19: A systematic review and meta-analysis.](#)

Pontiroli AE, Scovenna F, Carlini V, Tagliabue E, Martin-Delgado J, Sala L, Tanzi E, Zanoni I. J Med Virol. 2024 Jan;96(1):e29343. doi: 10.1002/jmv.29343. PMID: 38163281

[Graves' disease post-COVID-19 m-RNA vaccine in pediatric age group.](#)

Al-Jahhafi AS, Al-Sawaai AA, Al-Bimani ZK, Al-Bulushi NK. Asia Ocean J Nucl Med Biol. 2024;12(1):65-68. doi: 10.22038/AOJNMB.2023.73051.1510. PMID: 38164230

[COVID-19 breakthrough infections in type 1 diabetes mellitus: a cross-sectional study by the COVID-19 Vaccination in Autoimmune Diseases \(COVAD\) Group.](#)

Panchawagh S, Ravichandran N, Barman B, Nune A, Javaid M, Gracia-Ramos AE, Day J, Joshi M, Kuwana M, Saha S, Pande AR, Caballero-Urbe CV, Velikova T, Parodis I, Knitza J, Kadam E, Tan AL, Shinjo SK, Boro H; COVAD Study Group; Aggarwal R, Agarwal V, Chatterjee T, Gupta L. Rheumatol Int. 2024 Jan;44(1):73-80. doi: 10.1007/s00296-023-05496-y. Epub 2023 Dec 7. PMID: 38060005

[Tobacco Use and Uptake of COVID-19 Vaccinations in Finland: A Population-Based Study.](#)

Peña S, Zhou Z, Kestilä L, Galanti MR, Shaaban AN, Caspersen IH, Magnus P, Geraldo P, Rojas-Saunero P, Parikka S, Nohynek H, Karvonen S. Nicotine Tob Res. 2024 Jan 10:ntad234. doi: 10.1093/ntr/ntad234. Online ahead of print. PMID: 38196092

[Remdesivir for the Treatment of COVID-19: A Narrative Review.](#)

Godwin PO, Polsonetti B, Caron MF, Oppelt TF. Infect Dis Ther. 2024 Jan 9. doi: 10.1007/s40121-023-00900-3. Online ahead of print. PMID: 38193988

[Safety of COVID-19 Vaccination During Pregnancy and Lactation: A VigiBase Analysis.](#)

Kang D, Choi A, Park S, Choe SA, Shin JY. J Korean Med Sci. 2024 Jan 8;39(1):e3. doi: 10.3346/jkms.2024.39.e3. PMID: 38193325

["We're Here to Take Care of Our Community": Lessons Learned From the U.S. Federal Health Center Covid-19 Vaccine Program.](#)

Crane JT, Fabi R, Pacia D, Neuhaus CP, Berlinger N. Health Promot Pract. 2024 Jan;25(1):137-144. doi: 10.1177/15248399221151178. Epub 2023 Jan 23. PMID: 36688376

[COVID-19 VACCINE-INDUCED ACUTE EXUDATIVE POLYMORPHOUS VITELLIFORM MACULOPATHY: CASE REPORTS.](#)

Baddar D, Fayed AE, Tawfik CA, Bassily S, Gergess MM, El-Agha MH. Retin Cases Brief Rep. 2024 Jan 1;18(1):66-70. doi: 10.1097/ICB.0000000000001319. PMID: 36731098

[Association between COVID-19 vaccines and development of chronic morbidities: a cross-sectional study in the Jordanian population.](#)

Al-Hawamdeh MI, Abu-Huwai R, Isteati TA, Al-Debe'e AK, Abazeed OJ, Raees MA. Curr Med Res Opin. 2024 Jan 9:1-23. doi: 10.1080/03007995.2024.2303417. Online ahead of print. PMID: 38193825

[COVID-19 Vaccination Rates Among North Dakota Residents Who Gave Birth Between April 1, 2021, and July 15, 2022.](#)

Aguilar O, Woinarowicz M. Am J Public Health. 2024 Jan 4:e1-e4. doi: 10.2105/AJPH.2023.307500. Online ahead of print. PMID: 38175966

[Immunogenicity of BNT162b2 vaccine after two and three doses in health personnel and institutionalized elderly people not infected with SARS-CoV-2.](#)

Rodríguez-Prieto M, Modino-García F, de la Arada-Benavides C, de la Puente R, Carvajal A, Rodríguez-Cabañeros I, de Prado-Santos C, de Mota-Luna B, Fernández-Villa T, Fernández-Vázquez JP, Martín V. Semergen. 2024 Jan-Feb;50(1):102092. doi: 10.1016/j.semerg.2023.102092. Epub 2023 Oct 11. PMID: 37832164

[Increased Vaccine Uptake Among Eligible Patients at a Veterans Affairs Hospital Through an Inpatient COVID-19 Vaccination Program, Atlanta, Georgia, 2021.](#)

Fujita AW, Goolsby TA, Powell KM, Cartwright EJ. Public Health Rep. 2024 Jan-Feb;139(1):94-101. doi: 10.1177/00333549231203238. Epub 2023 Nov 4. PMID: 37924253

[Modelling the Potential Public Health Impact of Different COVID-19 Vaccination Strategies with an Adapted Vaccine in Singapore.](#)

Thakkar K, Spinardi J, Kyaw MH, Yang J, Mendoza CF, Ozbilgili E, Taysi B, Dodd J, Yarnoff B, Oh HM. Expert Rev Vaccines. 2024 Jan-Dec;23(1):16-26. doi: 10.1080/14760584.2023.2290931. Epub 2023 Dec 12. PMID: 38047434

[COVID-19 vaccine refusal as unfair free-riding.](#)

Kelsall J. Med Health Care Philos. 2024 Jan 8. doi: 10.1007/s11019-023-10188-2. Online ahead of print. PMID: 38189907

[Effect of SARS-CoV-2 infection and vaccine on ovarian reserve: A systematic review.](#)

Zhu S, Luan C, Zhang S, Wang X, Long F, Zhang Q, Yan J. Eur J Obstet Gynecol Reprod Biol. 2024 Jan;292:63-70. doi: 10.1016/j.ejogrb.2023.10.029. Epub 2023 Oct 27. PMID: 37976767

[Correction: Fairness and efficiency considerations in COVID-19 vaccine allocation strategies: A case study comparing front-line workers and 65-74 year olds in the United States.](#)

PLOS Global Public Health Staff. PLOS Glob Public Health. 2024 Jan 3;4(1):e0002785. doi: 10.1371/journal.pgph.0002785. eCollection 2024. PMID: 38170708

[Evaluation of antibody and T Cell immunity response in different immunization groups of inactive and mRNA COVID-19 vaccines.](#)

Zerey Albayrak M, Gül Yurtsever S, Peker BO, Mùderris T, Kaya S. Diagn Microbiol Infect Dis. 2024 Jan;108(1):116122. doi: 10.1016/j.diagmicrobio.2023.116122. Epub 2023 Oct 27. PMID: 37963419

[Up the Nose and Down the Windpipe May Be the Path to New and Improved COVID-19 Vaccines.](#)

Rubin R. JAMA. 2024 Jan 2;331(1):12-14. doi: 10.1001/jama.2023.0644. PMID: 38055302

[Short-term effectiveness of single-dose intranasal spray COVID-19 vaccine against symptomatic SARS-CoV-2 Omicron infection in healthcare workers: a prospective cohort study.](#)

Mi H, Chen Q, Lin H, He T, Zhang R, Ren S, Liu L, Wang J, Huang H, Wang M, Guo Z, Su C. *EClinicalMedicine*. 2023 Dec 13;67:102374. doi: 10.1016/j.eclinm.2023.102374. eCollection 2024 Jan. PMID: 38169940

[Adjuvant activities of immunostimulating natural products: *Astragalus membranaceus* \(Fisch.\) Bge. and *Coriolus versicolor* in BNT162b2 vaccination against COVID-19 infection.](#)

Chan BC, Li P, Tsang MS, Sung JC, Kwong KW, Zheng T, Hon SS, Lau CP, Ho RC, Chen F, Lau CB, Leung PC, Wong CK. *J Leukoc Biol*. 2024 Jan 5;115(1):177-189. doi: 10.1093/jleuko/qiad106. PMID: 37713617

[Analysis of influencing factors on long COVID in COVID-19 patients infected with omicron variant three months after discharge: a cross-sectional study.](#)

Shang H, Chang T, Yang W, Shi L, Hu S, Tian L, Ren J, Wang T, Wang J, Guo J, Cui Y. *BMC Infect Dis*. 2024 Jan 2;24(1):36. doi: 10.1186/s12879-023-08947-w. PMID: 38166694

[Mixed methods approach to understanding COVID-19 vaccine hesitancy among immigrants in the Chicago.](#)

Sharp M, Lozano P, Southworth A, Peters A, Lam H, Randal FT, Quinn M, Kim KE. *Vaccine*. 2024 Jan 9:S0264-410X(23)01508-6. doi: 10.1016/j.vaccine.2023.12.062. Online ahead of print. PMID: 38199924

[Vaccination and clozapine use: a systematic review and an analysis of the VAERS database.](#)

Aksar A, Lutz J, Wagner E, Strube W, Luykx JJ, Hasan A. *Eur Arch Psychiatry Clin Neurosci*. 2024 Jan 2. doi: 10.1007/s00406-023-01729-0. Online ahead of print. PMID: 38165458

[Myocarditis and Pericarditis Related to mRNA COVID-19 Vaccination: A Case Report.](#)

María PLE, Diego RS, Jorge NR. *Curr Drug Saf*. 2024;19(1):154-158. doi: 10.2174/1574886318666230329123459. PMID: 36999413

[Investigation of COVID-19 vaccination among maintenance hemodialysis patients in Sichuan, China.](#)

He L, Chen L, Zheng H, Zhang Y, Tang S, Chen H. *Jpn J Nurs Sci*. 2024 Jan;21(1):e12556. doi: 10.1111/jjns.12556. Epub 2023 Aug 9. PMID: 37559431

[Mobile Distribution of COVID-19 Vaccines to Migrant Farmworkers in Minnesota.](#)

Hoard J, Thomas CM, Eckerstorfer M, Atoma B, Adamek A, Quintanilla D, Kirsch JD. *J Agromedicine*. 2024 Jan;29(1):106-111. doi: 10.1080/1059924X.2023.2278804. Epub 2023 Dec 28. PMID: 37937807

[COVID-19 booster vaccine acceptance following allergy evaluation in individuals with allergies.](#)

Stehlin F, Khoudja RY, Al-Otaibi I, ALMuhizi F, Fein M, Gilbert L, Tsoukas C, Ben-Shoshan M, Copaescu AM, Isabwe GAC. *J Allergy Clin Immunol Pract*. 2024 Jan;12(1):242-245.e2. doi: 10.1016/j.jaip.2023.09.037. Epub 2023 Oct 5. PMID: 37802251

[Nanoparticle technology for mRNA: Delivery strategy, clinical application and developmental landscape.](#)

Li X, Qi J, Wang J, Hu W, Zhou W, Wang Y, Li T. *Theranostics*. 2024 Jan 1;14(2):738-760. doi: 10.7150/thno.84291. eCollection 2024. PMID: 38169577

[Psychological variables linked to hesitation toward vaccination against COVID-19 among late adolescents and young adults: The role of magical thinking and right-wing authoritarianism.](#)

Pace U, Buzzai C, Passanisi A. J Adolesc. 2024 Jan;96(1):49-56. doi: 10.1002/jad.12251. Epub 2023 Sep 20. PMID: 37728244

[Validity of Routine Health Data To Identify Safety Outcomes of Interest For **COVID-19 Vaccines** and Therapeutics in the Context of the Emerging Pandemic: A Comprehensive Literature Review.](#)

Andresen K, Hinojosa-Campos M, Podmore B, Drysdale M, Qizilbash N, Cunnington M. Drug Healthc Patient Saf. 2024 Jan 3;16:1-17. doi: 10.2147/DHPS.S415292. eCollection 2024. PMID: 38192299

[Stress and Anxiety Among Correctional Health Care Professionals in a U.S. State Prison System During **COVID-19**.](#)

Leach BCB, Ahalt C, Williams B, Kwan AT. J Correct Health Care. 2024 Jan 4. doi: 10.1089/jchc.23.09.0081. Online ahead of print. PMID: 38174991

[School-based vaccination program against HPV and Hepatitis B: A longitudinal analysis of vaccine coverage between 2015 and 2021 in Quebec.](#)

Dionne M, Sauvageau C, Kiely M, Dahhou M, Hamel D, Rathwell M, Bandara T, Neudorf C, Dubé É. Vaccine. 2024 Jan 1;42(1):17-23. doi: 10.1016/j.vaccine.2023.11.055. Epub 2023 Dec 2. PMID: 38044245

[Challenges and opportunities during the **COVID-19** vaccination efforts in long-term care.](#)

Stone ND, Parker Fiebelkorn A, Guo A, Mothershed E, Moccia L, Bell J, Yassanye D, Hall E, Duggar C, Srinivasan A, Meyer SA, Link-Gelles R. Vaccine. 2024 Jan 5:S0264-410X(23)01510-4. doi: 10.1016/j.vaccine.2023.12.064. Online ahead of print. PMID: 38184394

[Characterizing predictors of **COVID-19** vaccine refusal in an urban southern California jail population.](#)

Qureshi NS, Miller LG, Judge SP, Tran NDT, Henderson SO. Vaccine. 2024 Jan 9:S0264-410X(24)00017-3. doi: 10.1016/j.vaccine.2024.01.017. Online ahead of print. PMID: 38195263

[Geospatially clustered low **COVID-19** vaccine rates among adolescents in socially vulnerable US counties.](#)

Alphonso SR, Andrews MR, Regan SD, Shishkov A, Cantor JH, Powell-Wiley TM, Tamura K. Prev Med Rep. 2023 Dec 12;37:102545. doi: 10.1016/j.pmedr.2023.102545. eCollection 2024 Jan. PMID: 38186659

[Effectiveness of BNT162b2 mRNA vaccine third doses and previous infection in protecting against SARS-CoV-2 infections during the Delta and Omicron variant waves: the UK SIREN cohort study September 2021 to February 2022.](#)

Hall VJ, Insalata F, Foulkes S, Kirwan P, Sparkes D, Atti A, Cole M, de Lacy E, Price L, Corrigan D, Brown CS, Islam J, Charlett A, Hopkins S; SIREN Study Group. J Infect. 2024 Jan;88(1):30-40. doi: 10.1016/j.jinf.2023.10.022. Epub 2023 Nov 4. PMID: 37926119

[Longitudinal study of theory-based predictors of **COVID-19** vaccination.](#)

Rabin C. Psychol Health Med. 2024 Jan-Jun;29(1):153-162. doi: 10.1080/13548506.2022.2160873. Epub 2023 Jan 5. PMID: 36602884

[Modeling long **COVID** dynamics: Impact of underlying health conditions.](#)

Bai J, Wang J. J Theor Biol. 2024 Jan 7;576:111669. doi: 10.1016/j.jtbi.2023.111669. Epub 2023 Nov 15. PMID: 37977479

[A patient safety knowledge graph supporting vaccine product development.](#)

Simms AM, Kanakia A, Sipra M, Dutta B, Southall N. BMC Med Inform Decis Mak. 2024 Jan 4;24(1):10. doi: 10.1186/s12911-023-02409-8. PMID: 38178113

[Public's perspective on COVID-19 adenovirus vector vaccines after thrombosis with thrombocytopenia syndrome \(TTS\) reports and associated regulatory actions - A cross-sectional study in six EU member states.](#)

Buhl C, Jacobsen R, Almarsdóttir AB, Abtahi S, Andersen A, Deligianni E, Dermiki-Gkana F, Kontogiorgis C, Oikonomou C, Kursite M, Poplavska E, Hegger I, van der Goot M, Sousa Ferreira PB, Ribeiro-Vaz I, Silva AM, Kos M, Lipovec NČ, van Vliet E, Alves TL. Vaccine. 2024 Jan 4:S0264-410X(23)01511-6. doi: 10.1016/j.vaccine.2023.12.065. Online ahead of print. PMID: 38182460

[Optic Neuritis and Cranial Neuropathies Diagnosis Rates before Coronavirus Disease 2019, in the Initial Pandemic Phase, and Post-Vaccine Introduction.](#)

Zhao D, Li X, Carey AR, Henderson AD; Sight Outcomes Research Collaborative Consortium. Ophthalmology. 2024 Jan;131(1):78-86. doi: 10.1016/j.ophtha.2023.08.021. Epub 2023 Aug 25. PMID: 37634758

[Development of Dermatomyositis after Pfizer BioNTech COVID-19 Vaccine: A Case Report.](#)

Aouintia I, Daly W, Lakhoua G, Kaabi W, Charfi O, Debbeche S, Kastalli S, Zaiem A, El Aidli S. Curr Drug Saf. 2024;19(2):306-308. doi: 10.2174/1574886318666230614164607. PMID: 37317919

[Effectiveness of Drug Repurposing and Natural Products Against SARS-CoV-2: A Comprehensive Review.](#)

Velásquez PA, Hernandez JC, Galeano E, Hincapié-García J, Rugeles MT, Zapata-Builes W. Clin Pharmacol. 2024 Jan 4;16:1-25. doi: 10.2147/CPAA.S429064. eCollection 2024. PMID: 38197085

[Characteristics of long COVID and the impact of COVID-19 vaccination on long COVID 2 years following COVID-19 infection: prospective cohort study.](#)

Kim Y, Bae S, Chang HH, Kim SW. Sci Rep. 2024 Jan 9;14(1):854. doi: 10.1038/s41598-023-50024-4. PMID: 38191556

[Increased Risk of New-Onset Asthma After COVID-19: A Nationwide Population-Based Cohort Study.](#)

Kim BG, Lee H, Yeom SW, Jeong CY, Park DW, Park TS, Moon JY, Kim TH, Sohn JW, Yoon HJ, Kim JS, Kim SH. J Allergy Clin Immunol Pract. 2024 Jan;12(1):120-132.e5. doi: 10.1016/j.jaip.2023.09.015. Epub 2023 Sep 27. PMID: 37774780

[Let's call! Using the phone to increase vaccine acceptance.](#)

Armand A, Fracchia M, Vicente PC. Health Econ. 2024 Jan;33(1):82-106. doi: 10.1002/hec.4760. Epub 2023 Oct 4. PMID: 37792290

[Non-vaccination of dogs is linked to uncompleted COVID-19 vaccination protocols of owners.](#)

Zanon IP, Campos JVF, de Castro YG, de Souza TGV, do Amarante VS, de Oliveira CSF, Nicolino RR, Silva ROS. Prev Vet Med. 2024 Jan;222:106093. doi: 10.1016/j.prevetmed.2023.106093. Epub 2023 Dec 6. PMID: 38103432

[Association of COVID-19 Vaccinations with Flares of Systemic Rheumatic Disease: A Case-Crossover Study.](#)

Braverman G, Barbhैया M, Nong M, Bykerk VP, Hupert N, Lewis C 5th, Mandl LA. Arthritis Care Res (Hoboken). 2024 Jan 1. doi: 10.1002/acr.25288. Online ahead of print. PMID: 38163750

[Lumpy skin disease: Insights into current status and geographical expansion of a transboundary viral disease.](#)

Moudgil G, Chadha J, Khullar L, Chhibber S, Harjai K. Microb Pathog. 2024 Jan;186:106485. doi: 10.1016/j.micpath.2023.106485. Epub 2023 Dec 3. PMID: 38052279

[Genetic determinants of IgG antibody response to COVID-19 vaccination.](#)

Bian S, Guo X, Yang X, Wei Y, Yang Z, Cheng S, Yan J, Chen Y, Chen GB, Du X, Francis SS, Shu Y, Liu S. Am J Hum Genet. 2024 Jan 4;111(1):181-199. doi: 10.1016/j.ajhg.2023.12.005. PMID: 38181733

[Posterior scleritis following COVID-19 vaccination or infection simulating uveal melanoma in 8 consecutive patients.](#)

Negretti GS, Zeiger JS, Cherkas E, Shields CL. Eye (Lond). 2024 Jan;38(1):185-191. doi: 10.1038/s41433-023-02656-z. Epub 2023 Jul 8. PMID: 37422535

[Omicron-specific and bivalent omicron-containing vaccine candidates elicit potent virus neutralisation in the animal model.](#)

Abdoli A, Jamshidi H, Taqavian M, Baghal ML, Jalili H. Sci Rep. 2024 Jan 2;14(1):268. doi: 10.1038/s41598-023-50822-w. PMID: 38168473

[Safety and Efficacy of Inactivated SARS-CoV-2 Vaccine in Patients with Rheumatic Diseases and Serum Antibody Changes Post-Omicron Variant Infection.](#)

Zhang X, Li Y, Dai C, Chu Y, Luan C, Wang G. Rheumatol Ther. 2024 Jan 4. doi: 10.1007/s40744-023-00630-5. Online ahead of print. PMID: 38175331

[Immunisation coverage and factors associated with incomplete immunisation in children under two during the COVID-19 pandemic in Sierra Leone.](#)

Wassenaar M, Fombah AE, Chen H, Owusu-Kyei K, Williams J, Sunders JC, Llach M, Quinto L, Sesay T, Samai M, Menéndez C, González R. BMC Public Health. 2024 Jan 10;24(1):143. doi: 10.1186/s12889-023-17534-2. PMID: 38200476

[Quantitatively Identifying Messaging Topics to Encourage West Virginia nurses' COVID-19 Vaccination.](#)

Austin ET, Totzkay D, Fraustino JD, Costello LM, Kunkle CE, Dillow MR. J Health Commun. 2024 Jan 2;29(1):72-85. doi: 10.1080/10810730.2023.2285983. Epub 2024 Jan 9. PMID: 38037373

[An inoculation site-retained mRNA vaccine induces robust immune responses against SARS-CoV-2 variants.](#)

Huang L, Zhao F, He M, Fang Y, Ma X, Lu S, Li E, Xiao H, Zhu H, Wang X, Tang S, Yu B, Wang J, Zhao D, Wang C, Li H, Gao Y, Peng X, Shen H. J Control Release. 2024 Jan 4:S0168-3659(24)00006-3. doi: 10.1016/j.jconrel.2024.01.002. Online ahead of print. PMID: 38184234

[Impact of the COVID-19 pandemic on incidence and serotype distribution of pneumococcal meningitis - A prospective, nationwide cohort study from the Netherlands.](#)

Liechti FD, Bijlsma MW, Brouwer MC, van Sorge NM, van de Beek D. J Infect. 2024 Jan;88(1):65-67. doi: 10.1016/j.jinf.2023.11.002. Epub 2023 Nov 9. PMID: 37949362

[Bacterial Artificial Chromosome Reverse Genetics Approaches for SARS-CoV-2.](#)

Chiem K, Nogales A, Almazán F, Ye C, Martínez-Sobrido L. *Methods Mol Biol.* 2024;2733:133-153. doi: 10.1007/978-1-0716-3533-9_9. PMID: 38064031

[Massachusetts companion program bolsters COVID-19 vaccine rates among seniors.](#)

Charpignon ML, Gupta S, Shahnaz Majumder M. *Vaccine.* 2024 Jan 3:S0264-410X(23)01494-9. doi: 10.1016/j.vaccine.2023.12.048. Online ahead of print. PMID: 38177029

[Side Effects Reported by Moroccan Medical Students Who Received COVID-19 Vaccines.](#)

Moukafih B, Belaroussi L, Achour S, Kartouti AE. *Curr Drug Saf.* 2024;19(2):268-276. doi: 10.2174/1574886318666230503113713. PMID: 37138485

[Examining the impact of several factors including COVID-19 on thyroid fine-needle aspiration biopsy.](#)

Deniz MS, Dindar M. *Diagn Cytopathol.* 2024 Jan;52(1):42-49. doi: 10.1002/dc.25239. Epub 2023 Oct 12. PMID: 37823334

[COVID-19 Vaccination Program for Children: An Electronic Assessment of Symptoms.](#)

Kumar N, Khora A, Loomba R, Sharma N, Kumar A, Rana A, Kamboj R, Kamboj S, Guarve K, Guatam SP. *Curr Drug Saf.* 2024;19(1):96-105. doi: 10.2174/1574886318666230331085630. PMID: 36999717

[Information gaps in persuasion knowledge: The discourse regarding the Covid-19 vaccination.](#)

Israeli T, Popper-Giveon A, Keshet Y. *Health (London).* 2024 Jan;28(1):58-73. doi: 10.1177/13634593221113208. Epub 2022 Jul 19. PMID: 35852156

[Social determinants of health and vaccine uptake in pregnancy: Disparities in a diverse, predominately foreign-born population.](#)

Agasse E, Rodriguez GF, Vilariño V, Galli JH, Potter J. *Vaccine.* 2024 Jan 2:S0264-410X(23)01515-3. doi: 10.1016/j.vaccine.2023.12.069. Online ahead of print. PMID: 38172017

[Is decision-making based on the internet during pregnancy a predictive factor for vaccine hesitancy in pregnant women during the pandemic?](#)

Uludağ E, Serçekeş P, Yıldırım Gökşen DF, Alataş SE, Özkan S. *Women Health.* 2024 Jan 2;64(1):5-13. doi: 10.1080/03630242.2023.2277879. Epub 2023 Dec 28. PMID: 37933189

[CHALLENGES IN ESTIMATING THE EFFECTIVENESS OF 2 DOSES OF COVID-19 VACCINE BEYOND 6 MONTHS IN ENGLAND.](#)

Horne EMF, Hulme WJ, Keogh RH, Palmer TM, Williamson EJ, Parker EPK, Walker VM, Knight R, Wei Y, Taylor K, Fisher L, Morley J, Mehrkar A, Dillingham I, Bacon S, Goldacre B, Sterne JAC, OpenSAFELY Collaborative FT. *Am J Epidemiol.* 2024 Jan 8;193(1):227-231. doi: 10.1093/aje/kwad179. PMID: 37656609

[Anti-S Antibodies Against SARS-CoV-2 Infection Among Four Types of Vaccines in Malaysia.](#)

Lodz NA, Mat Tamizi NF, Abd Mutalip MH, Ganapathy SS, Lin CZ, Ismail R, Ahmad NA. *Asia Pac J Public Health.* 2024 Jan 2:10105395231223332. doi: 10.1177/10105395231223332. Online ahead of print. PMID: 38166431

[Responses of primary human nasal epithelial cells to COVID-19 vaccine candidate.](#)

Jakaew P, Jearanaiwitayakul T, Midoeng P, Masrinoul P, Sunintaboon P, Ubol S. Asian Pac J Allergy Immunol. 2024 Jan 6. doi: 10.12932/AP-230523-1623. Online ahead of print. PMID: 38183648

[Humoral SARS-CoV-2 Vaccine Responses in Patients With Giant Cell Arteritis and Polymyalgia Rheumatica: Decay After Primary Vaccination and Effects of the Booster.](#)

van Sleen Y, van der Geest KSM, Buisman AM, Sandovici M, van Baarle D, Brouwer E. Arthritis Care Res (Hoboken). 2024 Jan;76(1):105-110. doi: 10.1002/acr.25173. Epub 2023 Aug 4. PMID: 37332051

[Exploring the reasons behind low COVID-19 vaccination coverage in ethnic minorities-A qualitative study among Arabic-speaking public in Denmark.](#)

Al-Saudi G, Thabit AK, Jose J, Badr AF, Jad L, Kaae S, Jacobsen R. Health Policy. 2024 Jan;139:104965. doi: 10.1016/j.healthpol.2023.104965. Epub 2023 Dec 13. PMID: 38104373

[Incorporating migrants into National COVID-19 Vaccination Plans in Latin America: A comparative analysis of policies in seven countries.](#)

Bojorquez-Chapela I, Rojas-Botero ML, Marín DP, Riveros MA, Roa AY, Fernández-Niño JA. J Migr Health. 2023 Nov 17;9:100207. doi: 10.1016/j.jmh.2023.100207. eCollection 2024. PMID: 38053942

[Longevity of the humoral and cellular responses after SARS-CoV-2 booster vaccinations in immunocompromised patients.](#)

Oyaert M, De Scheerder MA, Van Herreweghe S, Laureys G, Van Assche S, Cambron M, Naesens L, Hoste L, Claes K, Haerynck F, Kerre T, Van Laecke S, Jacques P, Padalko E. Eur J Clin Microbiol Infect Dis. 2024 Jan;43(1):177-185. doi: 10.1007/s10096-023-04701-x. Epub 2023 Nov 13. PMID: 37953413

[Typology of ICU-Healthcare Providers Who Delayed or Declined COVID-19 Vaccination.](#)

Azoulay E, Pochard F, Dumas G, Kentish-Barnes N; FAMIREA Study Group. Crit Care Med. 2024 Jan 1;52(1):e21-e26. doi: 10.1097/CCM.0000000000006090. Epub 2023 Oct 30. PMID: 37902430

[Differentiating behavioral impact with or without vaccination certification under mass vaccination and non-pharmaceutical interventions on mitigating COVID-19.](#)

Cao H, Cao L. Sci Rep. 2024 Jan 6;14(1):707. doi: 10.1038/s41598-023-50421-9. PMID: 38184669

[The Social Ecology of Health Beliefs and Misinformation Framework: Examining the impact of misinformation on vaccine uptake through individual and sociological factors.](#)

Enyinnaya JC, Anderson AA, Kelp NC, Long M, Duncan CG. Vaccine. 2024 Jan 5:S0264-410X(24)00001-X. doi: 10.1016/j.vaccine.2024.01.001. Online ahead of print. PMID: 38184392

[Effectiveness of Pfizer-BioNTech \(BNT162b2\) Vaccine Among Adolescents \(Aged 12-15 Years\): An Observational Study in Qatar.](#)

Azeez MA, Hussain MS, Veettil ST, Al Mesallam MS, Muhammed AC, Abdulmajeed J, Krishnan JI. Clin Pediatr (Phila). 2024 Jan;63(1):89-95. doi: 10.1177/00099228231212775. Epub 2023 Nov 22. PMID: 37991172

[\[After the COVID-19 pandemic-Which new vaccinations for adults are available or coming soon?\].](#)

Kwetkat A, Leischker A, Endres AS, Heppner HJ. Inn Med (Heidelb). 2024 Jan;65(1):79-85. doi: 10.1007/s00108-023-01640-9. Epub 2023 Dec 18. PMID: 38108878

[Community-Academic Partnerships: Addressing Health Inequities Through Community-Engaged Service Learning.](#)

Bernstein M, Frintner M, Gao S, Gibbons T, Green N, Hildreth D, Lustig M, Stamps J, Turner J, Singer R, Singer R. Health Promot Pract. 2024 Jan;25(1):5-7. doi: 10.1177/15248399221102913. Epub 2022 Sep 16. PMID: 36113088

[Drug- or Vaccine-Induced/Aggravated Psoriatic Arthritis: A Systematic Review.](#)

Yeh YT, Tsai TF. Dermatol Ther (Heidelb). 2024 Jan 6. doi: 10.1007/s13555-023-01082-z. Online ahead of print. PMID: 38183617

[Seroincidence of SARS-CoV-2 infection prior to and during the rollout of vaccines in a community-based prospective cohort of U.S. adults.](#)

Nash D, Srivastava A, Shen Y, Penrose K, Kulkarni SG, Zimba R, You W, Berry A, Mirzayi C, Maroko A, Parcesepe AM, Grov C, Robertson MM. Sci Rep. 2024 Jan 5;14(1):644. doi: 10.1038/s41598-023-51029-9. PMID: 38182731

[Lipschutz's vulvar ulcer in an adolescent after Pfizer COVID-19 vaccine.](#)

Morón-Ocaña JM, Lorente-Lavirgen AI, Coronel-Pérez IM, Martínez-Barranca ML. An Bras Dermatol. 2024 Jan-Feb;99(1):125-126. doi: 10.1016/j.abd.2023.03.003. Epub 2023 Aug 29. PMID: 37652818

[Rural-urban variation in COVID-19 vaccination uptake in Aotearoa New Zealand: Examining the national roll-out.](#)

Liepins T, Davie G, Miller R, Whitehead J, De Graaf B, Clay L, Crengle S, Nixon G. Epidemiol Infect. 2024 Jan 4;152:e7. doi: 10.1017/S0950268823001978. PMID: 38174436

[Current Trends and Future Directions of Malignancy After kidney Transplantation: A 1970-2022 Bibliometric Analysis.](#)

Jiang F, Wang F, Zhang T, Dong H, Bai H, Chen L. Ann Transplant. 2024 Jan 2;29:e942074. doi: 10.12659/AOT.942074. PMID: 38163947

[Nano-carrier DMSN for effective multi-antigen vaccination against SARS-CoV-2.](#)

Sun P, Cheng B, Ru J, Li X, Fang G, Xie Y, Shi G, Hou J, Zhao L, Gan L, Ma L, Liang C, Chen Y, Li Z. J Nanobiotechnology. 2024 Jan 3;22(1):11. doi: 10.1186/s12951-023-02271-w. PMID: 38167103

[Hypophysitis after COVID-19 vaccination in a patient with Rathke's cleft cyst: A case report.](#)

Yu Y, Zhou G, Du J, Zhu H, Guan H, Bi Y, Zhang D. Hum Vaccin Immunother. 2024 Dec 31;20(1):2297455. doi: 10.1080/21645515.2023.2297455. Epub 2024 Jan 4. PMID: 38174857

[Pediatric hemophagocytic lymphohistiocytosis after concomitant administration of SARS-CoV-2 vaccine and influenza vaccine.](#)

Kaizuka A, Tokuda Y, Morooka S, Gocho Y, Funaki T, Uchiyama T, Hirata Y, Yasumi T, Maekawa T, Kubota M, Ishiguro A. J Infect Chemother. 2024 Jan;30(1):67-70. doi: 10.1016/j.jiac.2023.08.015. Epub 2023 Aug 30. PMID: 37657516

[Clinical outcome of breakthrough COVID-19 in multiple myeloma patients after three or more anti-SARS-CoV-2 vaccine doses: a single center analysis of 64 cases.](#)

Sgherza N, Curci P, Rizzi R, Battisti O, Perfetto A, Weigl S, Larocca AMV, Chironna M, Tafuri S, Musto P. Ann Hematol. 2024 Jan;103(1):351-355. doi: 10.1007/s00277-023-05484-z. Epub 2023 Oct 2. PMID: 37782371

[Efficacy of probiotic treatment as post-exposure prophylaxis for COVID-19: A double-blind, Placebo-Controlled Randomized trial.](#)

Wischmeyer PE, Tang H, Ren Y, Bohannon L, Jiang D, Bergens M, Ramirez ZE, Andermann TM, Messina JA, Sung JA, Jensen D, Jung SH, Artica A, Britt A, Bush A, Johnson E, Lew MV, Winthrop H, Pamanes C, Racioppi A, Zhao AT, Wan Z, Surana NK, Sung AD. Clin Nutr. 2024 Jan;43(1):259-267. doi: 10.1016/j.clnu.2023.11.043. Epub 2023 Dec 11. PMID: 38103462

[The impact of internet health information seeking on COVID-19 vaccination behavior in China.](#)

Zhang Y, Zhang L, Guan H, Hao R, Liu W. BMC Public Health. 2024 Jan 4;24(1):89. doi: 10.1186/s12889-024-17638-3. PMID: 38178047

[Ulcerating reaction in association with Pfizer-BioNTech COVID-19 vaccine in an 11-year-old boy.](#)

Thrush J, Polly S, Anthony J, Fernandez J, Taylor J, Preston DC, Fernandez AP. J Eur Acad Dermatol Venereol. 2024 Jan;38(1):e3-e5. doi: 10.1111/jdv.19460. Epub 2023 Aug 30. PMID: 37611289

[Safety and immunogenicity of locally produced trivalent inactivated influenza vaccine \(Tri Fluvac\) in healthy Thai adults aged 18-64 years in Nakhon Phanom: A Phase III double blinded, three-arm, randomized, controlled trial.](#)

Prasert K, Praphasiri P, Lerdsamran H, Nakphook S, Ditsungnoen D, Chawalchitiporn S, Sornwong K, Poopipatpol K, Wirachwong P, Narakorn P, Surichan S, Suthepakul N, Thangsupanimitchai N, Pittayawonganon C, Puthavathana P, Davis WW, Mott JA, Olsen SJ, Patumanond J. Vaccine. 2024 Jan 1;42(1):24-32. doi: 10.1016/j.vaccine.2023.11.050. Epub 2023 Dec 1. PMID: 38042698

[Temporal trends in 90-day survival of hospitalised individuals during two years of the COVID-19 pandemic in Denmark.](#)

Leding C, Clausen CL, Roldgaard MS, Benfield T. Infect Dis (Lond). 2024 Jan;56(1):42-51. doi: 10.1080/23744235.2023.2267134. Epub 2023 Dec 18. PMID: 37819262

[Negative impact of immunoparesis in response to anti-SARS-CoV-2 mRNA vaccination of patients with multiple myeloma.](#)

Onishi A, Matsumura-Kimoto Y, Mizutani S, Isa R, Fujino T, Tsukamoto T, Miyashita A, Okumura K, Nishiyama D, Hirakawa K, Shimura K, Kaneko H, Kiyota M, Kawata E, Takahashi R, Kobayashi T, Uchiyama H, Uoshima N, Nukui Y, Shimura Y, Inaba T, Kuroda J; Kyoto Clinical Hematology Study Group investigators. Int J Hematol. 2024 Jan;119(1):50-61. doi: 10.1007/s12185-023-03680-1. Epub 2023 Dec 12. PMID: 38082201

[COV2Var, a function annotation database of SARS-CoV-2 genetic variation.](#)

Feng Y, Yi J, Yang L, Wang Y, Wen J, Zhao W, Kim P, Zhou X. Nucleic Acids Res. 2024 Jan 5;52(D1):D701-D713. doi: 10.1093/nar/gkad958. PMID: 37897356

[B and T cell responses to the 3rd and 4th dose of the BNT162b2 vaccine in dialysis patients.](#)

Bathish Y, Tuvia N, Eshel E, Tal Lange T, Sigrid Eberhardt C, Edelstein M, Abu-Jabal K. Hum Vaccin Immunother. 2024 Dec 31;20(1):2292376. doi: 10.1080/21645515.2023.2292376. Epub 2024 Jan 8. PMID: 38191151

[Epidemiology of respiratory viruses among children during the SARS-CoV-2 pandemic: A systematic review and meta-analysis.](#)

Dallmeyer LK, Schüz ML, Fragkou PC, Omony J, Krumbein H, Dimopoulou D, Dimopoulou K, Skevaki C. Int J Infect Dis. 2024 Jan;138:10-18. doi: 10.1016/j.ijid.2023.10.023. Epub 2023 Nov 10. PMID: 37951460

[SARS-CoV-2 vaccination and multiple sclerosis: a large multicentric study on relapse risk after the third booster dose.](#)

Di Filippo M, Ferraro D, Ragonese P, Prosperini L, Maniscalco GT, Gallo A, Cavalla P, Loreface L, Nociti V, Di Sabatino E, Clerico M, Guaschino C, Radaelli M, Fantozzi R, Buttari F, Laroni A, Gajofatto A, Calabrese M, Malucchi S, Paolicelli D, De Luca G, Tomassini V, Lanzillo R, Moccia M, Solaro C, Cocco E, Gasperini C, Tortorella C; RIREMS (Rising Researchers in MS) group. J Neurol. 2024 Jan;271(1):24-31. doi: 10.1007/s00415-023-12034-0. Epub 2023 Nov 3. PMID: 37922069

[Kukaa Salama \(Staying Safe\): a pre-post trial of an interactive informational mobile health intervention for increasing COVID-19 prevention practices with urban refugee youth in Uganda.](#)

Logie CH, Okumu M, Berry I, Kortenaar JL, Hakiza R, Musoke DK, Katisi B, Nakitende A, Kyambadde P, Lester R, Perez-Brumer AG, Admassu Z, Mbuagbaw L. Int Health. 2024 Jan 2;16(1):107-116. doi: 10.1093/inthealth/ihad051. PMID: 37458073

[Increased Metabolic Activity of the Thymus and Lymph Nodes in Pediatric Oncology Patients After Coronavirus Disease 2019 Vaccination.](#)

Luthria G, Baratto L, Adams L, Morakote W, Daldrup-Link HE. J Nucl Med. 2024 Jan 2;65(1):22-24. doi: 10.2967/jnumed.123.266271. PMID: 37884331

[Emergency Department point-of-care antiviral host response testing is accurate during periods of multiple respiratory virus co-circulation.](#)

Brendish NJ, Davis C, Chapman ME, Borca F, Waddington D, Hill C, White N, Clark TW. J Infect. 2024 Jan;88(1):41-47. doi: 10.1016/j.jinf.2023.11.003. Epub 2023 Nov 15. PMID: 37977337

[Echocardiographic function evaluation in adolescents following BNT162b2 Pfizer-BioNTech mRNA vaccination: A preliminary prospective study.](#)

Hsu WF, Hsu CH, Jeng MJ. J Chin Med Assoc. 2024 Jan 1;87(1):88-93. doi: 10.1097/JCMA.0000000000001013. Epub 2023 Oct 26. PMID: 37882061

[Targeting SARS-CoV-2 nonstructural protein 3: Function, structure, inhibition, and perspective in drug discovery.](#)

Li X, Song Y. Drug Discov Today. 2024 Jan;29(1):103832. doi: 10.1016/j.drudis.2023.103832. Epub 2023 Nov 15. PMID: 37977285

[Mondor's disease following the third dose of BNT162b2 m-RNA COVID-19 vaccine.](#)

Drago F, Cittadini G, Garlaschi A, Ciccarese G. Int J Dermatol. 2024 Jan;63(1):111-112. doi: 10.1111/ijd.16910. Epub 2023 Nov 13. PMID: 37953650

[Three Years of the Coronavirus Disease 2019 Pandemic in a European Region: A Population-Based Longitudinal Assessment in Madrid Between 2020 and 2022.](#)

Berenguer J, Calvo-Alcántara MJ, Alvaro-Meca A, Estévez JC, Basanta M, Ruiz S, Matáix ÁL, Bienzobas C, Cosano L, Silva AP, Salas P, Gullón P, Franco M, Arribas JR, Molero JM, Hernán MA. Open Forum Infect Dis. 2023 Dec 18;11(1):ofad635. doi: 10.1093/ofid/ofad635. eCollection 2024 Jan. PMID: 38173846

["I shall not poison my child with your human experiment": Investigating predictors of parents' hesitancy about vaccinating younger children \(<12\) in Canada.](#)

Davidson AM, Burns S, White LA, Perlman M. Vaccine. 2024 Jan 2:S0264-410X(23)01519-0. doi: 10.1016/j.vaccine.2023.12.073. Online ahead of print. PMID: 38172020

[Advanced nanoscale delivery systems for mRNA-based vaccines.](#)

Mobasher M, Ansari R, Castejon AM, Barar J, Omidi Y. Biochim Biophys Acta Gen Subj. 2024 Jan 5;1868(3):130558. doi: 10.1016/j.bbagen.2024.130558. Online ahead of print. PMID: 38185238

[Symmetrical Drug-Related Intertriginous Flexural Exanthema Induced by the Pfizer/BioNTech Comirnaty COVID-19 Vaccine.](#)

Román Mendoza NM, Luna Bastante L, Sánchez Gil A, Vicente Martín FJ. Actas Dermosifiliogr. 2024 Jan;115(1):94-96. doi: 10.1016/j.ad.2023.05.019. Epub 2023 Jun 5. PMID: 37286077

[An Observational Study Quantifying the Disproportionate Impact of COVID-19 Among Immigrant Adults, 2021 California Health Interview Survey.](#)

Siddiq H, Teklehaimanot S, Williams J. Public Health Rep. 2024 Jan-Feb;139(1):120-128. doi: 10.1177/00333549231208485. Epub 2023 Nov 29. PMID: 38018488

[The Chimera of TPGS and Nanoscale Lipid Carriers as Lymphatic Drug Delivery Vehicles to Fight Metastatic Cancers.](#)

Sherif AY, Harisa GI, Alanazi FK. Curr Drug Deliv. 2024;21(4):525-543. doi: 10.2174/1567201820666230512122825. PMID: 37183467

[Beyond the waves: Unraveling pandemic outcomes with genomic insights and immunity analysis - Evidence from 14 countries.](#)

Jang YA, Wu HY, Hsu YT, Chen YK, Chiou HY, Sytwu HK, Chen WJ, Tsou HH. Prev Med. 2024 Jan;178:107820. doi: 10.1016/j.ypmed.2023.107820. Epub 2023 Dec 11. PMID: 38092329

[In vivo delivery of engineered synthetic DNA-encoded SARS-CoV-2 monoclonal antibodies for pre-exposure prophylaxis in non-human primates.](#)

Patel A, Rosenke K, Parzych EM, Feldmann F, Bharti S, Griffin AJ, Schouest B, Lewis M, Choi J, Chokkalingam N, Machado V, Smith BJ, Frase D, Ali AR, Lovaglio J, Nguyen B, Hanley PW, Walker SN, Gary EN, Kulkarni A, Generotti A, Francica JR, Rosenthal K, Kulp DW, Esser MT, Smith TRF, Shaia C, Weiner DB, Feldmann H. Emerg Microbes Infect. 2024 Jan 2:2294860. doi: 10.1080/22221751.2023.2294860. Online ahead of print. PMID: 38165394

[Features of acute COVID-19 associated with post-acute sequelae of SARS-CoV-2 phenotypes: results from the IMPACC study.](#)

Ozonoff A, Jayavelu ND, Liu S, Melamed E, Milliren CE, Qi J, Geng LN, McComsey GA, Cairns CB, Baden LR, Schaenman J, Shaw AC, Samaha H, Seyfert-Margolis V, Krammer F, Rosen LB, Steen H, Syphurs C,

Dandekar R, Shannon CP, Sekaly RP, Ehrlich LIR, Corry DB, Kheradmand F, Atkinson MA, Brakenridge SC, Higuera NIA, Metcalf JP, Hough CL, Messer WB, Pulendran B, Nadeau KC, Davis MM, Sesma AF, Simon V, van Bakel H, Kim-Schulze S, Hafner DA, Levy O, Kraft M, Bime C, Haddad EK, Calfee CS, Erle DJ, Langelier CR, Eckalbar W, Bosinger SE; IMPACC Network; Peters B, Kleinstein SH, Reed EF, Augustine AD, Diray-Arce J, Maecker HT, Altman MC, Montgomery RR, Becker PM, Roupheal N. *Nat Commun*. 2024 Jan 3;15(1):216. doi: 10.1038/s41467-023-44090-5. PMID: 38172101

[A modified recombinant adenovirus vector containing dual rabies virus G expression cassettes confers robust and long-lasting humoral immunity in mice, cats, and dogs.](#)

Zhang Y, Fang L, Wang Z, Zhang C, Zhao J, Daemi HB, Zhang M, Yuan L, Han X, Li L, Fu ZF, Zhou M, Zhao L. *Emerg Microbes Infect*. 2024 Jan 2:2300461. doi: 10.1080/22221751.2023.2300461. Online ahead of print. PMID: 38164714

[BF.7: a new Omicron subvariant characterized by rapid transmission.](#)

Gao X, Wang F, Liu H, Chai J, Tian G, Yao L, Chen C, Huo P, Yao Y, Wen J, Zhao N, Sun D. *Clin Microbiol Infect*. 2024 Jan;30(1):137-141. doi: 10.1016/j.cmi.2023.09.018. Epub 2023 Oct 5. PMID: 37802303

[Future Directions of Allergen Immunotherapy for Allergic Rhinitis: Experts' Perspective.](#)

Pfaar O, Portnoy J, Nolte H, Chaker AM, Luna-Pech JA, Patterson A, Pandya A, Larenas-Linnemann D. *J Allergy Clin Immunol Pract*. 2024 Jan;12(1):32-44. doi: 10.1016/j.jaip.2023.08.047. Epub 2023 Sep 15. PMID: 37716529

[Brief Report: Ryan White Participation Increased the Prevalence of COVID-19 Vaccination Among People Living with HIV in Michigan.](#)

Convery C, Diesel J, Brantley A, Miller J, Karram S. *J Acquir Immune Defic Syndr*. 2024 Jan 1;95(1):6-9. doi: 10.1097/QAI.0000000000003315. PMID: 37797232

[Bullous pemphigoid associated with prodromal-phase by repeated COVID-19 vaccinations.](#)

Yamamoto S, Koga H, Tsutsumi M, Ishii N, Nakama T. *J Dermatol*. 2024 Jan;51(1):e6-e7. doi: 10.1111/1346-8138.16940. Epub 2023 Sep 12. PMID: 37698074

[Evaluation of in vitro SARS-CoV-2 inactivation by a new quaternary ammonium compound: Bromiphen bromide.](#)

Strizzi S, Cappelletti G, Biasin M, Artasensi A, Fumagalli L, Casiraghi A. *Arch Pharm (Weinheim)*. 2024 Jan;357(1):e2300424. doi: 10.1002/ardp.202300424. Epub 2023 Oct 12. PMID: 37828623

[Safety and efficacy of SARS-CoV-2 vaccination in patients with immune thrombocytopenia: A two-centre review.](#)

Stefani S, Buti N, Hart ACJ, Paul D, Rizvi N, Ragoonanan V, Vladescu C, Szydlo R, Ademokun C, Jansen AJG, Cooper N. *Br J Haematol*. 2024 Jan;204(1):324-328. doi: 10.1111/bjh.19212. Epub 2023 Nov 27. PMID: 38013240

[Outcomes and Management of the SARS-CoV2 Omicron Variant in Recipients of Hematopoietic Cell Transplantation and Chimeric Antigen Receptor T Cell Therapy.](#)

Infante MS, Nemirovsky D, Devlin S, DeWolf S, Tamari R, Dahi PB, Lee YJ, Chung DJ, Politikos I, Barker J, Giralt SA, Babady NE, Ramanathan L, Papanicolaou GA, Seo S, Kamboj M, Perales MA, Shah GL.

Transplant Cell Ther. 2024 Jan;30(1):116.e1-116.e12. doi: 10.1016/j.jtct.2023.09.027. Epub 2023 Oct 6. PMID: 37806446

[Cytokine signature in convalescent SARS-CoV-2 patients with inflammatory bowel disease receiving vedolizumab.](#)

Dallari S, Martinez Pazos V, Munoz Eusse J, Wellens J, Thompson C, Colombel JF, Satsangi J, Cadwell K, Wong SY; ICARUS-IBD Working Group. Sci Rep. 2024 Jan 2;14(1):186. doi: 10.1038/s41598-023-50035-1. PMID: 38168138

[Accelerated and intensified manufacturing of an adenovirus-vectored vaccine to enable rapid outbreak response.](#)

Joe CCD, Segireddy RR, Oliveira C, Berg A, Li Y, Doultinos D, Scholze S, Ahmad A, Nestola P, Niemann J, Douglas AD. Biotechnol Bioeng. 2024 Jan;121(1):176-191. doi: 10.1002/bit.28553. Epub 2023 Sep 25. PMID: 37747758

[Strong correlational but no causal evidence on the link between the perception of scientific consensus and support for vaccination.](#)

Czarnek G, Kossowska M. PLoS One. 2024 Jan 3;19(1):e0296066. doi: 10.1371/journal.pone.0296066. eCollection 2024. PMID: 38170738

[Evaluating the role of COVID-19 vaccines in the landscape of medication-induced alopecia areata.](#)

Buontempo MG, Alhanshali L, Shapiro J, Lo Sicco K. J Am Acad Dermatol. 2024 Jan;90(1):e45-e46. doi: 10.1016/j.jaad.2023.09.057. Epub 2023 Sep 28. PMID: 37776902

[Humoral and T Cell Response to SARS-CoV-2 Vaccination in Patients With Rheumatoid Arthritis.](#)

Isnardi CA, Landi M, Cruces L, Maid P, Calle Montoro C, Alfaro MA, Roldán BM, Gómez Vara AB, Giorgis P, Ezquer RA, Crespo Rocha MG, Reyes Gómez CR, Correa MÁ, Cerda OL, Rosemffet MG, Carrizo Abarza V, Catalan Pellet S, Perandones M, Reimundes C, Longueira Y, Turk G, Quiroga MF, Laufer N, De La Vega MC, Citera G, Pons-Estel GJ, Schneeberger EE. Arthritis Care Res (Hoboken). 2024 Jan;76(1):120-130. doi: 10.1002/acr.25221. Epub 2023 Dec 20. PMID: 37605835

[Effectiveness of BNT162b2 Vaccine Against Omicron-SARS-CoV-2 Subvariants in Children 5-11 Years of Age in Quebec, Canada, January 2022 to January 2023.](#)

Razafimandimby H, Sauvageau C, Ouakki M, Carazo S, Skowronski DM, De Serres G. Pediatr Infect Dis J. 2024 Jan 1;43(1):32-39. doi: 10.1097/INF.0000000000004145. Epub 2023 Nov 3. PMID: 37922479

[Enhanced immunity against SARS-CoV-2 in returning Chinese individuals.](#)

Yuan R, Chen H, Yi L, Li X, Hu X, Li X, Zhang H, Zhou P, Liang C, Lin H, Zeng L, Zhuang X, Ruan Q, Chen Y, Deng Y, Liu Z, Lu J, Xiao J, Chen L, Xiao X, Li J, Li B, Li Y, He J, Sun J. Hum Vaccin Immunother. 2024 Dec 31;20(1):2300208. doi: 10.1080/21645515.2023.2300208. Epub 2024 Jan 8. PMID: 38191194

[Rapid increase in salivary IgA and broad recognition of spike protein following SARS-CoV-2 vaccination.](#)

Ota K, Sakai H, Sasaki D, Mitsumoto-Kaseida F, Sakamoto K, Kosai K, Hasegawa H, Takazono T, Izumikawa K, Mukae H, Tun MMN, Morita K, Yanagihara K. Virus Res. 2024 Jan 2;339:199294. doi: 10.1016/j.virusres.2023.199294. Epub 2023 Dec 6. PMID: 38056502

[The impact of vaccination and SARS-CoV-2 variants on the virological response to SARS-CoV-2 infections during the Alpha, Delta, and Omicron waves in England.](#)

Lunt R, Quinot C, Kirsebom F, Andrews N, Skarnes C, Letley L, Haskins D, Angel C, Firminger S, Ratcliffe K, Rajan S, Sherridan A, Ijaz S, Zambon M, Brown K, Ramsay M, Bernal JL. J Infect. 2024 Jan;88(1):21-29. doi: 10.1016/j.jinf.2023.10.016. Epub 2023 Nov 4. PMID: 37926118

[Adoption rates of recommended vaccines and influencing factors among patients with inflammatory arthritis: a patient survey.](#)

Moraliyska R, Georgiev T, Bogdanova-Petrova S, Shivacheva T. Rheumatol Int. 2024 Jan;44(1):165-172. doi: 10.1007/s00296-023-05476-2. Epub 2023 Oct 14. PMID: 37837450

[More to Offer Than Direct Clinical Benefit: FDA's Vaccine Licensure Process Ignores Population Health and Social Determinants of Disease.](#)

Jones M, Jetelina KK. Am J Epidemiol. 2024 Jan 8;193(1):1-5. doi: 10.1093/aje/kwad161. PMID: 37527824

[Applications of peptide-functionalized or unfunctionalized selenium nanoparticles for the passivation of SARS-CoV-2 variants and the respiratory syncytial virus \(RSV\).](#)

Nahas AF, Webster TJ. Colloids Surf B Biointerfaces. 2024 Jan;233:113638. doi: 10.1016/j.colsurfb.2023.113638. Epub 2023 Nov 9. PMID: 37995630

[Community-based rehabilitation/community based inclusive development functioning during the COVID-19 pandemic: A secondary analysis of qualitative data.](#)

Ahmed AN, Nuri RP, Xu X, Balakrishna V, Sebeh A, Maholo C, Aldersey HM. PLoS One. 2024 Jan 5;19(1):e0296274. doi: 10.1371/journal.pone.0296274. eCollection 2024. PMID: 38180965

[Psychological Distance to Science as a Predictor of Science Skepticism Across Domains.](#)

Večkalov B, Zarzeczna N, McPhetres J, van Harreveld F, Rutjens BT. Pers Soc Psychol Bull. 2024 Jan;50(1):18-37. doi: 10.1177/01461672221118184. Epub 2022 Sep 3. PMID: 36062322

[Impact on the time elapsed since SARS-CoV-2 infection, vaccination history, and number of doses, on protection against reinfection.](#)

Sánchez-de Prada L, Martínez-García AM, González-Fernández B, Gutiérrez-Ballesteros J, Rojo-Rello S, Garcinuño-Pérez S, Álvaro-Meca A, Ortiz De Lejarazu R, Sanz-Muñoz I, Eiros JM. Sci Rep. 2024 Jan 3;14(1):353. doi: 10.1038/s41598-023-50335-6. PMID: 38172152

[SARS-CoV-2 vaccination uptake in six ethnic groups living in Amsterdam, the Netherlands: A registry-based study within the HELIUS cohort.](#)

Campman SL, Boyd A, Coyer L, Schinkel J, Agyemang C, Galenkamp H, Koopman ADM, Chilunga FP, Schim van der Loeff MF, van Houtum L, Leenstra T, Stronks K, Prins M. Prev Med. 2024 Jan;178:107822. doi: 10.1016/j.ypmed.2023.107822. Epub 2023 Dec 14. PMID: 38103796

[Factors associated with IgG titers against SARS-CoV-2 spike protein after second vaccination in people living with HIV controlled with anti-retroviral therapy.](#)

Lee K, Horino T, Hoshina T, Sawaki K, Sakamoto Y, Miyajima M, Nakaharai K, Nakazawa Y, Yoshida M. J Infect Chemother. 2024 Jan;30(1):53-57. doi: 10.1016/j.jiac.2023.09.012. Epub 2023 Sep 12. PMID: 37708942

[Evaluation of an outreach programme for patients with COVID-19 in an integrated healthcare delivery system: a retrospective cohort study.](#)

Myers LC, Lawson BL, Escobar GJ, Daly KA, Chen YI, Dlott R, Lee C, Liu V. *BMJ Open*. 2024 Jan 8;14(1):e073622. doi: 10.1136/bmjopen-2023-073622. PMID: 38191255

[Vicarious experiences of long COVID: A protection motivation theory analysis for vaccination intentions.](#)

Eitze S, Sprengholz P, Korn L, Shamsrizi P, Felgendreff L, Betsch C. *Vaccine X*. 2023 Dec 7;16:100417. doi: 10.1016/j.jvacx.2023.100417. eCollection 2024 Jan. PMID: 38192617

[Association between severe acute respiratory syndrome coronavirus 2 antibody status and reinfection: A case-control study nested in a Colorado-based prospective cohort study.](#)

Binswanger IA, Narwaney KJ, Barrow JC, Albers KB, Bechtel L, Steiner CA, Ann Shoup J, Glanz JM. *Prev Med Rep*. 2023 Dec 1;37:102530. doi: 10.1016/j.pmedr.2023.102530. eCollection 2024 Jan. PMID: 38205171

[An 82-year-old man with new skin lesions after COVID-19 vaccination.](#)

Choi PJ, Fajt ML. *Allergy Asthma Proc*. 2024 Jan 1;45(1):70-73. doi: 10.2500/aap.2024.45.230062. PMID: 38151735

[Association between rubella vaccination response and long-term immune response to severe acute respiratory syndrome coronavirus 2 after BNT162b2 vaccination.](#)

Nakaharai K, Nakazawa Y, Yoshida M. *J Infect Chemother*. 2024 Jan;30(1):81-83. doi: 10.1016/j.jiac.2023.08.016. Epub 2023 Sep 1. PMID: 37659476

[Antiviral and Anti-Inflammatory Therapeutic Effect of RAGE-Ig Protein against Multiple SARS-CoV-2 Variants of Concern Demonstrated in K18-hACE2 Mouse and Syrian Golden Hamster Models.](#)

Dhanushkodi NR, Prakash S, Quadri A, Zayou L, Srivastava R, Shaik AM, Suzer B, Ibraim IC, Landucci G, Tifrea DF, Singer M, Jamal L, Edwards RA, Vahed H, Brown L, BenMohamed L. *J Immunol*. 2024 Jan 5;233(1):2300392. doi: 10.4049/jimmunol.2300392. Online ahead of print. PMID: 38180084

[Reply to the letter "skin manifestations following anti-COVID-19 vaccination: A multicentric study from Turkey: Correspondence".](#)

Topal IO, Karadağ AS. *J Cosmet Dermatol*. 2024 Jan;23(1):7. doi: 10.1111/jocd.15884. Epub 2023 Jun 29. PMID: 37382044

[Reactivation of previously controlled Vogt-Koyanagi-Harada disease more than 46 years following COVID-19 vaccination: a case study.](#)

Muto T, Sakamoto M, Imaizumi S, Kamoi K. *J Int Med Res*. 2024 Jan;52(1):3000605231221081. doi: 10.1177/03000605231221081. PMID: 38170955

[Renal outcomes in IgA nephropathy following inactivated SARS-CoV-2 vaccination.](#)

Sun K, Shang D, Hao C, Lai L. *Clin Exp Nephrol*. 2024 Jan;28(1):23-30. doi: 10.1007/s10157-023-02398-y. Epub 2023 Sep 15. PMID: 37713044

[A quest for universal anti-SARS-CoV-2 T cell assay: systematic review, meta-analysis, and experimental validation.](#)

Binayke A, Zaheer A, Vishwakarma S, Singh S, Sharma P, Chandwaskar R, Gosain M, Raghavan S, Murugesan DR, Kshetrapal P, Thiruvengadam R, Bhatnagar S, Pandey AK, Garg PK, Awasthi A. NPJ Vaccines. 2024 Jan 2;9(1):3. doi: 10.1038/s41541-023-00794-9. PMID: 38167915

[Promote to protect: data-driven computational model of peer influence for vaccine perception.](#)

Ghosh S, Bhattacharya S, Mukherjee S, Chakravarty S. Sci Rep. 2024 Jan 3;14(1):306. doi: 10.1038/s41598-023-50756-3. PMID: 38172556

[Lipid and cholesterol modulate the dynamics of SARS-CoV-2 viral ion channel ORF3a and its pathogenic variants.](#)

Rout M, Mishra S, Panda S, Dehury B, Pati S. Int J Biol Macromol. 2024 Jan;254(Pt 3):127986. doi: 10.1016/j.ijbiomac.2023.127986. Epub 2023 Nov 8. PMID: 37944718

[mRNA vaccines against SARS-CoV-2 induce divergent antigen-specific T-cell responses in patients with lung cancer.](#)

Song NJ, Chakravarthy KB, Jeon H, Bolyard C, Reynolds K, Weller KP, Reisinger S, Wang Y, Li A, Jiang S, Ma Q, Barouch DH, Rubinstein MP, Shields PG, Oltz EM, Chung D, Li Z. J Immunother Cancer. 2024 Jan 4;12(1):e007922. doi: 10.1136/jitc-2023-007922. PMID: 38177076

[Engineering Escherichia coli for constitutive production of monophosphoryl lipid A vaccine adjuvant.](#)

Jin H, Ji Y, An J, Ha DH, Lee YR, Kim HJ, Lee CG, Jeong W, Kwon IC, Yang EG, Kim KH, Lee C, Chung HS. Biotechnol Bioeng. 2024 Jan 7. doi: 10.1002/bit.28638. Online ahead of print. PMID: 38184812

[Humoral and cellular immune responses following BNT162b2 XBB.1.5 vaccination.](#)

Stankov MV, Hoffmann M, Gutierrez Jauregui R, Cossmann A, Morillas Ramos G, Graalman T, Winter EJ, Friedrichsen M, Ravens I, Ilievska T, Ristenpart J, Schimrock A, Willenzon S, Ahrenstorf G, Witte T, Förster R, Kempf A, Pöhlmann S, Hammerschmidt SI, Dopfer-Jablonka A, Behrens GMN. Lancet Infect Dis. 2024 Jan;24(1):e1-e3. doi: 10.1016/S1473-3099(23)00690-4. Epub 2023 Nov 20. PMID: 37995739

[Repeated mRNA vaccination sequentially boosts SARS-CoV-2-specific CD8⁺ T cells in persons with previous COVID-19.](#)

Ford ES, Mayer-Blackwell K, Jing L, Laing KJ, Sholukh AM, St Germain R, Bossard EL, Xie H, Pulliam TH, Jani S, Selke S, Burrow CJ, McClurkan CL, Wald A, Greninger AL, Holbrook MR, Eaton B, Eudy E, Murphy M, Postnikova E, Robins HS, Elyanow R, Gittelman RM, Ecsedi M, Wilcox E, Chapuis AG, Fiore-Gartland A, Koelle DM. Nat Immunol. 2024 Jan;25(1):166-177. doi: 10.1038/s41590-023-01692-x. Epub 2023 Dec 6. PMID: 38057617

[Rational prediction of immunogenicity clustering through cross-reactivity analysis of thirteen SARS-CoV-2 variants.](#)

Liang Z, Tong J, Sun Z, Liu S, Wu J, Wu X, Li T, Yu Y, Zhang L, Zhao C, Lu Q, Nie J, Huang W, Wang Y. J Med Virol. 2024 Jan;96(1):e29314. doi: 10.1002/jmv.29314. PMID: 38163276

[Vaccines reduce the risk of long COVID in children.](#)

Hall S. Nature. 2024 Jan;625(7994):227. doi: 10.1038/d41586-023-04032-z. PMID: 38114835

[Exploring preventive care practices among unvaccinated individuals in the United States during the COVID-19 pandemic.](#)

Filipas DK, Labban M, Beatrici E, Stone BV, Qian Z, D Andrea V, Ludwig TA, Reis LO, Cole AP, Trinh QD. *Vaccine*. 2024 Jan 5:S0264-410X(24)00007-0. doi: 10.1016/j.vaccine.2024.01.010. Online ahead of print. PMID: 38184391

[Insights into Targeted and Stimulus-Responsive Nanocarriers for Brain Cancer Treatment.](#)

Abousalman-Rezvani Z, Refaat A, Dehghankelishadi P, Roghani-Mamaqani H, Esser L, Voelcker NH. *Adv Healthc Mater*. 2024 Jan 10:e2302902. doi: 10.1002/adhm.202302902. Online ahead of print. PMID: 38199238

[Patient receptivity to receiving vaccinations in the dental clinic at a rural federally qualified health center.](#)

Darisi RD, Hillier B, Buckland AJ, Harris E, Holzberg JR. *J Am Dent Assoc*. 2024 Jan;155(1):17-25. doi: 10.1016/j.adaj.2023.09.006. Epub 2023 Nov 10. PMID: 37943218

[Short-term effectiveness of the XBB.1.5 updated COVID-19 vaccine against hospitalisation in Denmark: a national cohort study.](#)

Hansen CH, Moustsen-Helms IR, Rasmussen M, Søborg B, Ullum H, Valentiner-Branth P. *Lancet Infect Dis*. 2024 Jan 5:S1473-3099(23)00746-6. doi: 10.1016/S1473-3099(23)00746-6. Online ahead of print. PMID: 38190834

[Diverse array of neutralizing antibodies elicited upon Spike Ferritin Nanoparticle vaccination in rhesus macaques.](#)

Sankhala RS, Lal KG, Jensen JL, Dussupt V, Mendez-Rivera L, Bai H, Wieczorek L, Mayer SV, Zemil M, Wagner DA, Townsley SM, Hajduczki A, Chang WC, Chen WH, Donofrio GC, Jian N, King HAD, Lorang CG, Martinez EJ, Rees PA, Peterson CE, Schmidt F, Hart TJ, Duso DK, Kummer LW, Casey SP, Williams JK, Kannan S, Slike BM, Smith L, Swafford I, Thomas PV, Tran U, Currier JR, Bolton DL, Davidson E, Doranz BJ, Hatzioannou T, Bieniasz PD, Paquin-Proulx D, Reiley WW, Rolland M, Sullivan NJ, Vasani S, Collins ND, Modjarrad K, Gromowski GD, Polonis VR, Michael NL, Krebs SJ, Joyce MG. *Nat Commun*. 2024 Jan 3;15(1):200. doi: 10.1038/s41467-023-44265-0. PMID: 38172512

[A core outcome set for bronchiectasis in children and adolescents for use in clinical research: an international consensus study.](#)

Chang AB, Boyd J, Bush A, Hill AT, Powell Z, Zacharasiewicz A, Alexopoulou E, Collaro AJ, Chalmers JD, Constant C, Douros K, Fortescue R, Griese M, Grigg J, Hector A, Karadag B, Mazulov O, Midulla F, Moeller A, Proesmans M, Wilson C, Yerkovich ST, Kantar A, Grimwood K. *Lancet Respir Med*. 2024 Jan;12(1):78-88. doi: 10.1016/S2213-2600(23)00233-3. Epub 2023 Dec 6. PMID: 38070531

[Real-World Effectiveness of BNT162b2 Against Infection and Severe Diseases in Children and Adolescents.](#)

Wu Q, Tong J, Zhang B, Zhang D, Chen J, Lei Y, Lu Y, Wang Y, Li L, Shen Y, Xu J, Bailey LC, Bian J, Christakis DA, Fitzgerald ML, Hirabayashi K, Jhaveri R, Khaitan A, Lyu T, Rao S, Razzaghi H, Schwenk HT, Wang F, Gage Witvliet MI, Tchetgen Tchetgen EJ, Morris JS, Forrest CB, Chen Y. *Ann Intern Med*. 2024 Jan 9. doi: 10.7326/M23-1754. Online ahead of print. PMID: 38190711

[Serosurveillance among urban slum and non-slum population immunized with COVID-19 vaccines in Bangladesh.](#)

Sarker P, Haq MA, Akhtar E, Roy AK, Hosen MB, Huda TMN, Akter S, Ahmed R, Chowdhury MR, Ferdous J, Vandenant M, Islam MZ, Zaman RU, Arifeen SE, Razzaque A, Raqib R. *Epidemiol Infect.* 2024 Jan 5:1-34. doi: 10.1017/S0950268823001942. Online ahead of print. PMID: 38178722

[Production, purification and immunogenicity of Gag virus-like particles carrying SARS-CoV-2 components.](#)

Gashti AB, Agbayani G, Hrapovic S, Nassoury N, Coulombe N, Dudani R, Harrison BA, Akache B, Gilbert R, Chahal PS. *Vaccine.* 2024 Jan 1;42(1):40-52. doi: 10.1016/j.vaccine.2023.11.048. Epub 2023 Dec 1. PMID: 38042697

[Body composition indices as predictors of humoral response to mRNA vaccination against COVID-19 in patients on maintenance hemodialysis.](#)

Tsiotsios K, Parthymou A, Georgopoulou G, Mpratsiakou A, Habeos GI, Goumenos DS, Chartoumpakis DV, Papachristou E, Papisotiriou M. *Clin Nephrol.* 2024 Jan;101(1):9-16. doi: 10.5414/CN111158. PMID: 37997942

[3D-printed microfluidic device for high-throughput production of lipid nanoparticles incorporating SARS-CoV-2 spike protein mRNA.](#)

Lin WS, Bostic WKV, Malmstadt N. *Lab Chip.* 2024 Jan 2. doi: 10.1039/d3lc00520h. Online ahead of print. PMID: 38165143

[Rapidly Evolving SARS-CoV-2: A Brief Review Regarding the Variants and their Effects on Vaccine Efficacies.](#)

Nawaz S, Juniad S, Fatima A, Saleem M, Fatima U, Ali A. *Infect Disord Drug Targets.* 2024 Jan 3. doi: 10.2174/0118715265271109231129112515. Online ahead of print. PMID: 38178666

[Surface-modified measles vaccines encoding oligomeric, prefusion-stabilized SARS-CoV-2 spike glycoproteins boost neutralizing antibody responses to Omicron and historical variants, independent of measles seropositivity.](#)

Muñoz-Alfía MÁ, Nace RA, Balakrishnan B, Zhang L, Packiriswamy N, Singh G, Warang P, Mena I, Narjari R, Vandergaast R, Peng K-W, García-Sastre A, Schotsaert M, Russell SJ. *mBio.* 2024 Jan 9:e0292823. doi: 10.1128/mbio.02928-23. Online ahead of print. PMID: 38193729

[The Be REAL Framework: Enhancing Relationship-Building Skills for Community Health Workers.](#)

Jamison AM, Brewer J, Hamlin MD, Forr A, Roberts R, Carey A, Fugal A, Mankel ME, Tovar Y, Adams S, Shapcott K, Salmon D. *Health Promot Pract.* 2024 Jan 8:15248399231218937. doi: 10.1177/15248399231218937. Online ahead of print. PMID: 38189324

[Multiple redox switches of the SARS-CoV-2 main protease in vitro provide opportunities for drug design.](#)

Funk LM, Poschmann G, Rabe von Pappenheim F, Chari A, Stegmann KM, Dickmanns A, Wensien M, Eulig N, Paknia E, Heyne G, Penka E, Pearson AR, Berndt C, Fritz T, Bazzi S, Uranga J, Mata RA, Dobbstein M, Hilgenfeld R, Curth U, Tittmann K. *Nat Commun.* 2024 Jan 9;15(1):411. doi: 10.1038/s41467-023-44621-0. PMID: 38195625

[SARS-CoV-2 vaccination in 361 non-transplanted patients with aplastic anemia and/or paroxysmal nocturnal hemoglobinuria.](#)

Griffin M, Eikema DJ, Verheggen I, Kulagin A, Tjon JM, Fattizzo B, Ingram W, Zaidi U, Desnica L, Giammarco S, Drozd-Sokolowska J, Xicoy B, Patriarca A, Loschi M, Szmigielska-Kaplon A, Beier F,

Cignetti A, Drexler B, Gavriilaki E, Lanza F, Orvain C, Risitano AM, De la Camara R, De Latour RP. Haematologica. 2024 Jan 1;109(1):283-286. doi: 10.3324/haematol.2023.283863. PMID: 37584297

[Severe SARS-CoV-2 and subsequent fungal infections after CAR T-cell therapy for relapsed/refractory multiple myeloma: a challenging and happy ending fight.](#)

Ielo C, Fazio F, Rocchi S, Rizzello I, Mancuso K, Zamagni E, Cavo M, Petrucci MT. Leuk Res Rep. 2023 Nov 27;21:100399. doi: 10.1016/j.lrr.2023.100399. eCollection 2024. PMID: 38078287

[Biological and glucocorticoids treatment impair the medium-term immunogenicity to SARS-CoV-2 mRNA vaccines in autoimmune inflammatory rheumatic diseases.](#)

Garcia-Cirera S, Calvet J, Delgado de la Poza JF, Berenguer-Llargo A, Orellana C, Rusiñol M, Llop M, Arévalo M, Garcia-Pinilla A, Costa E, Aymerich C, Gómez R, Carreras A, Gratacós J. Eur J Med Res. 2024 Jan 5;29(1):28. doi: 10.1186/s40001-023-01620-7. PMID: 38183092

[Tracing the adaptive evolution of SARS-CoV-2 during vaccine roll-out in Norway.](#)

Garcia I, Lee Y, Brynildsrud O, Eldholm V, Magnus P, Blomfeldt A, Leegaard TM, Müller F, Dudman S, Caugant DA. Virus Evol. 2023 Dec 20;10(1):vead081. doi: 10.1093/ve/vead081. eCollection 2024 Jan. PMID: 38205440

[Kv1.3 blockade by ShK186 modulates CD4+ effector memory T-cell activity of patients with granulomatosis with polyangiitis.](#)

Lintermans LL, Stegeman CA, Muñoz-Elías EJ, Tarcha EJ, Iadonato SP, Rutgers A, Heeringa P, Abdulahad WH. Rheumatology (Oxford). 2024 Jan 4;63(1):198-208. doi: 10.1093/rheumatology/kead192. PMID: 37086441

[Immune evasion, infectivity, and fusogenicity of SARS-CoV-2 BA.2.86 and FLip variants.](#)

Qu P, Xu K, Faraone JN, Goodarzi N, Zheng YM, Carlin C, Bednash JS, Horowitz JC, Mallampalli RK, Saif LJ, Oltz EM, Jones D, Gumina RJ, Liu SL. Cell. 2024 Jan 3:S0092-8674(23)01400-9. doi: 10.1016/j.cell.2023.12.026. Online ahead of print. PMID: 38194968

[Highly potent dual-targeting angiotensin-converting enzyme 2 \(ACE2\) and Neuropilin-1 \(NRP1\) peptides: A promising broad-spectrum therapeutic strategy against SARS-CoV-2 infection.](#)

Mei S, Zou Y, Jiang S, Xue L, Wang Y, Jing H, Yang P, Niu MM, Li J, Yuan K, Zhang Y. Eur J Med Chem. 2024 Jan 5;263:115908. doi: 10.1016/j.ejmech.2023.115908. Epub 2023 Oct 31. PMID: 37981444

[Heuristics in vaccination Decision-Making for newly developed Vaccines: Understanding the public's imitative behavior.](#)

Xu B, Song B, Chang S, Gu S, Xi H. Prev Med Rep. 2023 Dec 13;37:102548. doi: 10.1016/j.pmedr.2023.102548. eCollection 2024 Jan. PMID: 38186658

[Coronavirus Disease 2019 mRNA Vaccination Appears Safe in Pediatric Patients With Hypersensitivity to Polyethylene Glycolated Escherichia Coli L-asparaginase.](#)

Wolfset N, Pashmineh Azar AR, Phillips CA, Stein M, Rheingold SR, Heimall J, Elgarten CW. J Pediatr Hematol Oncol. 2024 Jan 5. doi: 10.1097/MPH.0000000000002805. Online ahead of print. PMID: 38181327

[Boosting with adjuvanted SCB-2019 elicits superior Fcγ-receptor engagement driven by IgG3 to SARS-CoV-2 spike.](#)

Jung W, Yuan D, Kellman B, Gonzalez IGDS, Clemens R, Milan EP, Sprinz E, Cerbino Neto J, Smolenov I, Alter G, McNamara RP, Costa Clemens SA. NPJ Vaccines. 2024 Jan 5;9(1):7. doi: 10.1038/s41541-023-00791-y. PMID: 38182593

[Prospective monitoring of adverse events following vaccination with Modified vaccinia Ankara - Bavarian Nordic \(MVA-BN\) administered to a Canadian population at risk of Mpox: A Canadian Immunization Research Network study.](#)

Muller MP, Navarro C, Wilson SE, Shulha HP, Naus M, Lim G, Padhi S, McGeer A, Finkelstein M, Liddy A, Bettinger JA; for CANVAS. Vaccine. 2024 Jan 9;S0264-410X(23)01514-1. doi: 10.1016/j.vaccine.2023.12.068. Online ahead of print. PMID: 38199921

[COVID-19 Immunization Coverage Among People With Sickle Cell Disease.](#)

Peng HK, Dombkowski KJ, Plegue MA, Latta K, Malosh R, Creary MS, Reeves SL. JAMA Netw Open. 2024 Jan 2;7(1):e2351618. doi: 10.1001/jamanetworkopen.2023.51618. PMID: 38190186

[Ipsilateral immunization after a prior SARS-CoV-2 mRNA vaccination elicits superior B cell responses compared to contralateral immunization.](#)

Jiang W, Maldeney AR, Yuan X, Richer MJ, Renshaw SE, Luo W. Cell Rep. 2024 Jan 8;43(1):113665. doi: 10.1016/j.celrep.2023.113665. Online ahead of print. PMID: 38194344

[Genomic epidemiology and evolutionary analysis during XBB.1.16-predominant periods of SARS-CoV-2 omicron variant in Bangkok, Thailand: December 2022-August 2023.](#)

Puenpa J, Chansaenroj J, Suwannakarn K, Poovorawan Y. Sci Rep. 2024 Jan 5;14(1):645. doi: 10.1038/s41598-023-50856-0. PMID: 38182705

[Durability of humoral and cellular immunity six months after the BNT162b2 bivalent booster.](#)

Favresse J, Gillot C, Closset M, Cabo J, Wauthier L, David C, Elsen M, Dogné JM, Douxfils J. J Med Virol. 2024 Jan;96(1):e29365. doi: 10.1002/jmv.29365. PMID: 38185981

[Observations of COVID-19 vaccine coverage and vaccine hesitancy on COVID-19 outbreak: An American ecological study.](#)

Bajracharya D, Jansen RJ. Vaccine. 2024 Jan 12;42(2):246-254. doi: 10.1016/j.vaccine.2023.12.008. Epub 2023 Dec 15. PMID: 38103963

[Effectiveness of COVID-19 vaccine mandates in raising vaccination rates among the elderly and general population in Europe: Controlled interrupted time series analysis.](#)

Lytras T, Di Gregorio AAA, Apostolopoulos D, Naziris D, Zingerle C, Heraclides A. Vaccine. 2024 Jan 12;42(2):156-161. doi: 10.1016/j.vaccine.2023.12.025. Epub 2023 Dec 11. PMID: 38081753

[Stronger and durable SARS-CoV-2 immune response to mRNA vaccines in 5-11 years old children with prior COVID-19.](#)

Di Chiara C, Cantarutti A, Raffaella Petrara M, Bonfante F, Benetti E, Boracchini R, Bosa L, Carmona F, Cosma C, Cotugno N, Le Prevost M, Martini G, Meneghel A, Pagliari M, Palma P, Ruffoni E, Zin A, De Rossi A, Giaquinto C, Donà D, Padoan A. Vaccine. 2024 Jan 12;42(2):263-270. doi: 10.1016/j.vaccine.2023.12.006. Epub 2023 Dec 8. PMID: 38071105

[The intention to get COVID-19 booster vaccination and its association with cognitive and emotional factors: A survey of Chinese COVID-19 infected people in Hong Kong.](#)

Yu Y, Zhang X, Lau MMC, Lau JTF. Vaccine. 2024 Jan 12;42(2):206-212. doi: 10.1016/j.vaccine.2023.12.015. Epub 2023 Dec 7. PMID: 38065769

[Why did Brazil fail to vaccinate children against COVID-19 during the pandemic? An assessment of attitudinal and behavioral determinants.](#)

Gramacho W, Turgeon M, Santos Mundim P, Pereira I. Vaccine. 2024 Jan 12;42(2):315-321. doi: 10.1016/j.vaccine.2023.11.064. Epub 2023 Dec 7. PMID: 38061957

[Factors associated with COVID-19 autumn 2022 booster uptake in the Netherlands among older adults aged ≥ 60 years and younger adults with chronic conditions.](#)

van Roekel C, Labuschagne L, Pijpers J, van Roon A, Smagge B, Ferreira JA, Hahné S, de Melker H. Vaccine. 2024 Jan 12;42(2):146-155. doi: 10.1016/j.vaccine.2023.12.027. Epub 2023 Dec 14. PMID: 38101955

[Delivering COVID-19 vaccine trials at speed: the implementation of a phase IV UK multi-centre randomised controlled trial to determine safety and immunogenicity of COVID-19 vaccines co-administered with seasonal influenza vaccines \(ComFluCOV\).](#)

Baos S, Todd R, Thirard R, Harris R, Kirwan J, Joyce K, Hutton D, Finn A, Clout M, Cappel-Porter H, Rogers CA, Lazarus R, Culliford L. Trials. 2024 Jan 11;25(1):39. doi: 10.1186/s13063-023-07862-4. PMID: 38212836

[The importance of community-specific survey data in understanding behavioral and social drivers of COVID-19 vaccination: Lessons learned from urban neighborhoods in four United States cities.](#)

O'Neil SS, Pendl-Robinson EL, Carosella EA, Sullivan BD, Sivasankaran A. Vaccine. 2024 Jan 12;42(2):194-205. doi: 10.1016/j.vaccine.2023.12.016. Epub 2023 Dec 12. PMID: 38092610

[Factors associated with COVID-19 vaccine receipt among mobile phone users in Malawi: Findings from a national mobile-based syndromic surveillance survey, July 2021-April 2022.](#)

Makonokaya L, Kapanda L, Maphosa T, Kalitera LU, Machezano R, Nkhoma H, Chamanga R, Zimba SB, Mwale AC, Maida A, Woelk G. PLOS Glob Public Health. 2024 Jan 11;4(1):e0002722. doi: 10.1371/journal.pgph.0002722. eCollection 2024. PMID: 38206893

[Examining vaccine hesitancy among a diverse sample of Canadian adults.](#)

Burns KE, Dubé É, Godinho Nascimento H, Meyer SB. Vaccine. 2024 Jan 12;42(2):129-135. doi: 10.1016/j.vaccine.2023.12.030. Epub 2023 Dec 16. PMID: 38103960

[Exploring the impact of the COVID-19 pandemic on perceptions of national scheduled childhood vaccines among Māori and Pacific caregivers, whānau, and healthcare professionals in Aotearoa New Zealand.](#)

Charania NA, Tonumaip'e'a D, Barbarich-Unasa TW, Iusitini L, Davis G, Pacheco G, Wilson D. Hum Vaccin Immunother. 2024 Dec 31;20(1):2301626. doi: 10.1080/21645515.2023.2301626. Epub 2024 Jan 11. PMID: 38205779

[Effectiveness of Bivalent mRNA COVID-19 Vaccines in Preventing COVID-19-Related Thromboembolic Events Among Medicare Enrollees Aged ≥65 Years and Those with End Stage Renal Disease - United States, September 2022-March 2023.](#)

Payne AB, Novosad S, Wiegand RE, Najdowski M, Gomes DJ, Wallace M, Kelman JA, Sung HM, Zhang Y, Lufkin B, Chillarige Y, Link-Gelles R. MMWR Morb Mortal Wkly Rep. 2024 Jan 11;73(1):16-23. doi: 10.15585/mmwr.mm7301a4. PMID: 38206877

[Access to SARS-CoV-2 vaccination in immigrants in Italy, by geographical area of origin.](#)

Ferroni E, Gennaro N, Maifredi G, Leoni O, Profili F, Stasi C, Cacciani L, Calandrini E, di Napoli A, Petrelli A, Zorzi M. Vaccine. 2024 Jan 12;42(2):375-382. doi: 10.1016/j.vaccine.2023.11.043. Epub 2023 Dec 13. PMID: 38097455

[SCB-2019 protein vaccine as heterologous booster of neutralizing activity against SARS-CoV-2 Omicron variants after immunization with other COVID-19 vaccines.](#)

Roa CC Jr, de Los Reyes MRA, Plennevaux E, Smolenov I, Hu B, Gao F, Ilagan H, Ambrosino D, Siber G, Clemens R, Han HH. Hum Vaccin Immunother. 2024 Dec 31;20(1):2301632. doi: 10.1080/21645515.2023.2301632. Epub 2024 Jan 11. PMID: 38206168

[Intranasal immunization with the recombinant measles virus encoding the spike protein of SARS-CoV-2 confers protective immunity against COVID-19 in hamsters.](#)

Park SI, Park S, Lee K, Kwak HW, Kim YK, Park HJ, Bang YJ, Kim JY, Kim D, Seo KW, Lee SJ, Kim H, Kim Y, Kim DH, Park HJ, Jung SY, Ga E, Hwang J, Na W, Hong SH, Lee SM, Nam JH. Vaccine. 2024 Jan 12;42(2):69-74. doi: 10.1016/j.vaccine.2023.12.011. Epub 2023 Dec 14. PMID: 38097457

[Characterization of SARS-CoV-2-specific humoral immunity and associated factors in the healthy population post-vaccination.](#)

Zhan XY, Chen Y, Zhang X, Shi Q, Chen K, Zeng C, Zhang Y, Liang Y, Li W, Li M, Peng Q, Qin C, Liu T, Xu H, Yuan D, Ye Z, Yan L, Cheng S, Zhang Y, Xu Y, Chen Y, Chen M, Li K, Ke C, Zhu Y, Huang B. Vaccine. 2024 Jan 12;42(2):175-185. doi: 10.1016/j.vaccine.2023.12.021. Epub 2023 Dec 15. PMID: 38103966

[SARS-CoV-2 mucosal vaccine protects against clinical disease with sex bias in efficacy.](#)

Sui Y, Andersen H, Li J, Hoang T, Minai M, Nagata BM, Bock KW, Alves DA, Lewis MG, Berzofsky JA. Vaccine. 2024 Jan 12;42(2):339-351. doi: 10.1016/j.vaccine.2023.11.059. Epub 2023 Dec 8. PMID: 38071106

[A multifaceted approach for identification, validation, and immunogenicity of naturally processed and in silico-predicted highly conserved SARS-CoV-2 peptides.](#)

Ratishvili T, Quach HQ, Haralambieva IH, Suryawanshi YR, Ovsyannikova IG, Kennedy RB, Poland GA. Vaccine. 2024 Jan 12;42(2):162-174. doi: 10.1016/j.vaccine.2023.12.024. Epub 2023 Dec 16. PMID: 38105139

[Autoimmune disorders reported following COVID-19 vaccination: A disproportionality analysis using the WHO database.](#)

Kim S, Bea S, Choe SA, Choi NK, Shin JY. Eur J Clin Pharmacol. 2024 Jan 12. doi: 10.1007/s00228-023-03618-w. Online ahead of print. PMID: 38212538

[Genome-based prediction of cross-protective, HLA-DR-presented epitopes as putative vaccine antigens for multiple Bordetella species.](#)

Natrajan MS, Hall JM, Weigand MR, Peng Y, Williams MM, Momin M, Damron FH, Dubey P, Tondella ML, Pawloski LC. Microbiol Spectr. 2024 Jan 11;12(1):e0352723. doi: 10.1128/spectrum.03527-23. Epub 2023 Dec 6. PMID: 38054724

[9-Month observational Dia-Vacc study of vaccine type influence on SARS-CoV-2 immunity in dialysis and kidney transplant patients.](#)

Stumpf J, Anders L, Siepmann T, Schwöbel J, Karger C, Lindner T, Faulhaber-Walter R, Langer T, Escher K, Anding-Rost K, Seidel H, Hüther J, Pistrosch F, Martin H, Schewe J, Stehr T, Meistring F, Paliege A, Schneider D, Bast I, Steglich A, Gemhardt F, Kessel F, Kröger H, Arndt P, Sradnick J, Frank K, Skrzypczyk S, Anft M, Klimova A, Mauer R, Roeder I, Tonn T, Babel N, Hugo C. Vaccine. 2024 Jan 12;42(2):120-128. doi: 10.1016/j.vaccine.2023.12.034. Epub 2023 Dec 18. PMID: 38114410

[Superior mesenteric vein thrombosis due to COVID-19 vaccination: a case report.](#)

Suto K, Saito A, Mori K, Yoshida A, Sata N. J Med Case Rep. 2024 Jan 11;18(1):23. doi: 10.1186/s13256-023-04320-2. PMID: 38200562

[\[Importance of National Influenza Centers in the surveillance of highly pathogenic avian viruses. The time for One-Health is now\].](#)

Sanz-Muñoz I, Eiros JM, Hernández M. Rev Esp Quimioter. 2024 Jan 11:sanz11jan2024. doi: 10.37201/req/137.2023. Online ahead of print. PMID: 38205559

[Toward the Scalable, Rapid, Reproducible, and Cost-Effective Synthesis of Personalized Nanomedicines at the Point of Care.](#)

Young H, He Y, Joo B, Ferguson S, Demko A, Butterfield SK, Lowe J, Mjema NF, Sheth V, Whitehead L, Ruiz-Echevarria MJ, Wilhelm S. Nano Lett. 2024 Jan 11. doi: 10.1021/acs.nanolett.3c04171. Online ahead of print. PMID: 38207109

Organic nanoparticles are used in nanomedicine, including for cancer treatment and some types of **COVID-19 vaccines**. Here, we demonstrate the scalable, rapid, reproducible, and cost-effective synthesis of three model organic nanoparticle formulations relevant ...

Patentes registradas en Patentscope

Estrategia de búsqueda: *Vaccine in the title or abstract AND 20240101:20240112 as the publication date 49 records*

1. [WO/2024/004159](#) VACCINE COMPOSITION FOR SUBLINGUAL ADMINISTRATION

WO - 04.01.2024

Clasificación Internacional [A61K 39/00](#) N° de solicitud PCT/JP2022/026343 Solicitante EPS INNOVATIVE MEDICINE (JAPAN) CO., LTD. Inventor/a YAMAMOTO Tetsuro

Provided are a vaccine composition suitable for sublingual administration, a vaccine production method and a vaccine administration method. Provided is a vaccine composition that contains an immune antigen and an adjuvant and is to be sublingually administered to a subject.

2. [WO/2024/003238](#) EPSTEIN-BARR-VIRUS VACCINE

WO - 04.01.2024

Clasificación Internacional [C12N 15/86](#) N° de solicitud PCT/EP2023/067803 Solicitante BAVARIAN NORDIC A/S Inventor/a STEIGERWALD, Robin

The present invention relates to vaccines based on a viral vector for the delivery of antigens targeting an infectious disease. Specifically, the invention relates to a recombinant Modified Vaccinia Virus Ankara (MVA) encoding antigens of EBV causing infectious mononucleosis (IM) and different cancer types. The invention further relates to medical uses of the recombinant MVA in the prevention of diseases caused by EBV.

3. [WO/2024/002985](#) CORONAVIRUS VACCINE

WO - 04.01.2024

Clasificación Internacional [A61K 39/12](#) N° de solicitud PCT/EP2023/067350 Solicitante BIONTECH SE Inventor/a MUIK, Alexander

This disclosure relates to the field of RNA to prevent or treat coronavirus infection. In particular, the present disclosure relates to methods and agents for vaccination against coronavirus infection and inducing effective coronavirus antigen-specific immune responses such as antibody and/or T cell responses. Specifically, in one embodiment, the present disclosure relates to methods comprising administering to a subject RNA encoding a peptide or protein comprising an epitope of SARS-CoV-2 spike protein (S protein) for inducing an immune response against coronavirus S protein, in particular S protein of SARS-CoV-2, in the subject, i.e., vaccine RNA encoding vaccine antigen.

4. [20240000923](#) VACCINATION AGAINST CORONAVIRUS WITH POLIOMYELITIS VACCINE

US - 04.01.2024

Clasificación Internacional [A61K 39/295](#) N° de solicitud 18366839 Solicitante E-MO Biology Inc. Inventor/a Qiyi Xie

Provided herein is a method for preventing a person from an infection by a Coronaviridae virus with a poliomyelitis vaccine. Also provided herein is a method of inducing a protective immune response against a Coronaviridae virus with a poliomyelitis vaccine.

5. [20240006042](#) INTELLIGENT VACCINE NEBULIZATION SYSTEM AND METHOD OF USE

US - 04.01.2024

Clasificación Internacional [G16H 20/13](#) N° de solicitud 18038980 Solicitante QINGDAO FUTURE MEDICAL TECHNOLOGY CO., LTD. Inventor/a QIXU WANG

The present invention provides an intelligent vaccine nebulization system and a use method, and the system is characterized in that the system comprises an intelligent vaccine nebulization device, a mist storage tank and a cloud server; the intelligent vaccine nebulization device comprises a main cabinet, an intelligent main control module and a plurality of functional modules provided on the main cabinet, wherein the functional modules include an identity information input module, a vaccine information input module, a temporary vaccine storage module, a dosing transfer module, an aerosol output module, a mist storage tank management module, a human-computer interaction module and a communication port, in which the intelligent main control module is respectively connected with the functional modules and the intelligent main control module is communicated with the cloud server. And strict and accurate vaccination and management are ensured. It is controlled by the intelligent main control module, and through steps of identity information and vaccine information input, vaccine temporary storage, dosing transfer, aerosol output, mist storage tank management and the like, vaccination and vaccinator information could be stored in the cloud server and have access to, so that nebulization vaccination is realized.

6. [WO/2024/002129](#) NOVEL CORONAVIRUS TRIMER CHIMERIC VACCINE AND USE THEREOF

WO - 04.01.2024

Clasificación Internacional [C07K 19/00](#) N° de solicitud PCT/CN2023/103052 Solicitante INSTITUTE OF MICROBIOLOGY, CHINESE ACADEMY OF SCIENCES Inventor/a GAO, Fu

A novel coronavirus heterologous trimerized chimeric antigen peptide, a polynucleotide encoding same or a nucleic acid product related to the polynucleotide, a vaccine or an immunogenic composition based on the antigen peptide or the polynucleotide, and use of these products in a novel coronavirus vaccine.

7. [20240002383](#) COMPOUNDS AND THEIR USE AS VACCINE ADJUVANTS

US - 04.01.2024

Clasificación Internacional [C07D 471/04](#) N° de solicitud 18465513 Solicitante Fulgent Genetics, Inc. Inventor/a Lu LU

Provided herein are a series of compounds and their use as an adjuvant. Provided herein are the compounds, a composition comprising the compounds, and the use thereof. These compounds can be used as an adjuvant for a vaccine, and compared to the conventional aluminum adjuvant, the compounds can significantly improve the cellular and humoral immune responses to a vaccine. The compounds as an adjuvant can increase a broad-spectrum protection against various corona viruses such as SARS virus, influenza viruses, and HIV viruses, and significantly enhance persistence of immunoprotection of vaccines.

8. [4298112](#) IMPFSTOFFZUSAMMENSETZUNG MIT EINER LEISHMANIA-WIRTSZELLE, DIE MINDESTENS EIN PROTEIN DER FAMILIE CORONAVIRIDAE EXPRIMIERT

EP - 03.01.2024

Clasificación Internacional [C07K 14/005](#) N° de solicitud 22710438 Solicitante UNIV DEGLI STUDI MILANO Inventor/a BANDI CLAUDIO

The present invention relates to a vaccine composition comprising a host cell belonging to the genus *Leishmania*, wherein the host cell comprises a polynucleotide coding for at least one protein of a virus belonging to the family Coronaviridae. Furthermore, the invention relates to the medical and veterinary use of the vaccine composition and to a process for preparing the vaccine composition.

9. [WO/2024/006268](#) A VACCINE COMPOSITION OF CELLS EXPRESSING A LENTIVIRAL VECTOR AND METHODS OF USING

WO - 04.01.2024

Clasificación Internacional [C12N 15/867](#) N° de solicitud PCT/US2023/026331 Solicitante MERIDIAN THERAPEUTICS, INC. Inventor/a NOONAN, Kimberly, A.

A vector construct is described that is a lentiviral construct including DNA encoding for GM-CSF A vaccine composition is also described that includes K562 cells transfected with this vector construct, and also possibly including the U266 and H929. Methods are described for using the vaccine composition in methods of immunizing against plasma cell disorders, including multiple myeloma and related disorders.

10. [4297776](#) AKTIVIERT-GELÖSCHTES POLYSACCHARID UND VERBESSERTE VERFAHREN ZUR QUANTIFIZIERUNG DES POLYSACCHARIDS IN EINER IMPFSTOFFZUSAMMENSETZUNG

EP - 03.01.2024

Clasificación Internacional [A61K 39/09](#) N° de solicitud 22715778 Solicitante BIOLOGICAL E LTD Inventor/a BURKI RAJENDAR

The present invention provides a novel reference standard, comprising of activated-quenched polysaccharide, for quantifying polysaccharide content in a vaccine composition using nephelometry. The invention also provides a method for preparing the activated-quenched polysaccharide, for use as a reference standard. Further, a nephelometry based method for quantifying the polysaccharides in a multivalent conjugate vaccine is also provided. The reference standard of the present invention, comprising of the activated-quenched polysaccharide, is stable and can be used for accurate quantification of polysaccharides through nephelometry.

11. [20240000922](#) NUCLEIC ACID VACCINE AGAINST THE SARS-COV-2 CORONAVIRUS

US - 04.01.2024

Clasificación Internacional [A61K 39/215](#) N° de solicitud 18351065 Solicitante INSTITUT PASTEUR
Inventor/a Etienne SIMON-LORIERE

The invention relates to an immunogenic or vaccine composition against the 2019 novel coronavirus (SARS-CoV-2), comprising a nucleic acid construct encoding a SARS-CoV-2 coronavirus Spike (S) protein antigen or a fragment thereof comprising the receptor-binding domain, wherein the nucleic acid construct sequence is codon-optimized for expression in human.

12. [20240002449](#) RESPIRATORY SYNCYTIAL VIRUS (RSV) VACCINE

US - 04.01.2024

Clasificación Internacional [C07K 14/005](#) N° de solicitud 18463276 Solicitante CureVac SE Inventor/a
Thomas KRAMPS

The present invention relates to an mRNA sequence, comprising a coding region, encoding at least one antigenic peptide or protein of RSV infections Respiratory syncytial virus (RSV) or a fragment, variant or derivative thereof. Additionally the present invention relates to a composition comprising a plurality of mRNA sequences comprising a coding region, encoding at least one antigenic peptide or protein of RSV infections Respiratory syncytial virus (RSV) or a fragment, variant or derivative thereof. Furthermore it also discloses the use of the mRNA sequence or the composition comprising a plurality of mRNA sequences for the preparation of a pharmaceutical composition, especially a vaccine, e.g. for use in the prophylaxis or treatment of RSV infections Respiratory syncytial virus (RSV) infections. The present invention further describes a method of treatment or prophylaxis of RSV infections using the mRNA sequence.

13. [WO/2024/000724](#) PREPARATION METHOD FOR VACCINE LOADED WITH CANCER CELL WHOLE-CELL COMPONENT AND MIXED MEMBRANE COMPONENT AND USE THEREOF

WO - 04.01.2024

Clasificación Internacional [A61K 39/00](#) N° de solicitud PCT/CN2022/108965 Solicitante SUZHOU
ERSHENG BIOMEDICAL CO., LTD. Inventor/a LIU, Mi

Provided are a preparation method for a vaccine loaded with a cancer cell whole-cell component and a mixed membrane component and use thereof. The preparation method comprises the following steps: S1: obtaining the membrane component of a cancer cell; S2: activating an antigen-presenting cell and obtain the membrane component thereof; S3: obtaining the membrane component of a bacterium; and S4: allowing the products of S1 and S2 and/or the products of S1 and S3 to co-act with a second particle, such that the membrane components are loaded onto the second particle to obtain the vaccine. Vaccines derived from tumor tissues or cancer cells can be loaded with broad-spectrum various cancer cell antigens and mixed membrane components on the surface at the same time, which endow the vaccines with appropriate bionic membrane characteristics. The method provided can be used to prepare cancer vaccines loaded with broad-spectrum cancer cell antigenic epitopes, which can be used for preventing and treating various types of cancer.

14. [WO/2024/000725](#) CANCER CELL-SPECIFIC T CELL VACCINE AND METHOD FOR ACTIVATING CANCER CELL-SPECIFIC T CELLS

WO - 04.01.2024

Clasificación Internacional [A61K 39/00](#) N° de solicitud PCT/CN2022/108966 Solicitante SUZHOU
ERSHENG BIOMEDICAL CO., LTD. Inventor/a LIU, Mi

The present invention relates to a cancer cell-specific T cell vaccine and a method for activating cancer cell-specific T cells. T cells in peripheral blood, peripheral immune organs, or tumor-infiltrating lymphocytes are co-incubated with particles prepared from activated antigen-presenting cells to activate

the cancer cell-specific T cells. The present invention solves the problem that broad-spectrum and polyclonal cancer cell-specific T cells in the tumor-infiltrating lymphocytes cannot be effectively screened clinically at present, can isolate the broad-spectrum effector cancer cell-specific T cells with a specific tumor-killing function from the peripheral blood, peripheral immune organs, or tumor-infiltrating lymphocytes, has the characteristics of easy isolation and accessibility and high specificity, and can be used for preventing and treating cancers.

15. [3501535](#) Profylaktisk eller terapeutisk fremgangsmåde til svinepidemi-diarrévirus, vaccine og vaccinekit DK - 02.01.2024

Clasificación Internacional [A61K 39/225](#) N° de solicitud 17841334 Solicitante Nippon Institute for Biological Science Inventor/a SATO, Tetsuo

A preventative or therapeutic method for porcine epidemic diarrhea, including: a first administration step in which a live vaccine for the porcine epidemic diarrhea virus and an adjuvant are administered to pigs either orally or nasally; and a second administration step in which an inactivated vaccine for the porcine epidemic diarrhea virus and an adjuvant are administered to pigs intramuscularly.

16. [WO/2024/003035](#) VACCINES FOR PISCIRICKETTSIOSIS (SALMONID RICKETTSIAL SEPTICAEMIA)

WO - 04.01.2024

Clasificación Internacional [A61K 39/02](#) N° de solicitud PCT/EP2023/067443 Solicitante VAXXINOVA NORWAY AS Inventor/a HERRERA, Valeska

The present invention relates to attenuated *Piscirickettsia salmonis* strains and their use as a vaccine.

17. [20240000917](#) INFLUENZA VACCINE

US - 04.01.2024

Clasificación Internacional [A61K 39/145](#) N° de solicitud 18322831 Solicitante ModernaTX, Inc. Inventor/a Giuseppe Ciaramella

The invention relates to compositions and methods for the preparation, manufacture and therapeutic use ribonucleic acid vaccines comprising polynucleotide molecules encoding one or more influenza antigens, such as hemagglutinin antigens.

18. [20240000921](#) CORONAVIRUS VACCINE

US - 04.01.2024

Clasificación Internacional [A61K 39/215](#) N° de solicitud 18341590 Solicitante BioNTech SE Inventor/a Alexander Muik

This disclosure relates to the field of RNA to prevent or treat coronavirus infection. In particular, the present disclosure relates to methods and agents for vaccination against coronavirus infection and inducing effective coronavirus antigen-specific immune responses such as antibody and/or T cell responses.

19. [20240002127](#) CORONAVIRUS VACCINE

US - 04.01.2024

Clasificación Internacional [B65D 81/127](#) N° de solicitud 17920569 Solicitante Pfizer Inc. Inventor/a Marjoh Nauta

The present disclosure relates to the fields of packaging, transportation, and storage of temperature-sensitive materials, such as biological and/or pharmaceutical products. Various aspects of such packaging, transportation, and storage are provided herein for ultra-low temperature materials useful for the treatment and/or prevention of disease. The present disclosure also provides packaging materials, methods of transportation, and methods of storage for maintaining biological and/or pharmaceutical

materials at ultra-low temperatures in order to maintain the integrity of the materials. The present disclosure further relates to the field of RNA to prevent or treat coronavirus infection.

20. [20240000915C](#)-TERMINALLY MODIFIED HUMAN PAPILLOMAVIRUS TYPE 11 L1 PROTEIN AND USE THEREOF

US - 04.01.2024

Clasificación Internacional [A61K 39/12](#) N° de solicitud 18254157 Solicitante INSTITUTE OF BASIC MEDICAL SCIENCES, CHINESE ACADEMY OF MEDICAL SCIENCES Inventor/a Xuemei Xu

The present application relates to a C-terminus modified human papillomavirus type 11 L1 protein and the use thereof. Specifically, the present application relates to a C-terminus modified human papillomavirus (HPV) type 11 L1 protein, a nucleotide encoded thereby, a vector containing the nucleotide, a cell containing the vector, a pentamer or virus-like particle composed of the HPV11 L1 protein, and a vaccine containing the pentamer or virus-like particle and a vaccine adjuvant, and the use thereof in the prevention of HPV infection and HPV infection-related diseases.

21. [20240000909C](#)-TERMINUS MODIFIED HUMAN PAPILLOMAVIRUS TYPE 6 L1 PROTEIN AND USE THEREOF

US - 04.01.2024

Clasificación Internacional [A61K 39/00](#) N° de solicitud 18254154 Solicitante INSTITUTE OF BASIC MEDICAL SCIENCES, CHINESE ACADEMY OF MEDICAL SCIENCES Inventor/a Xuemei Xu

The present application relates to a C-terminus modified human papillomavirus type 6 L1 protein and use thereof. Specifically, the present application relates to a C-terminus modified human papillomavirus (HPV) type 6 L1 protein, an encoded nucleotide thereof, a vector comprising the nucleotide, a cell comprising the vector, a pentamer or virus-like particle composed of the HPV6 L1 protein, a vaccine containing the pentamer or virus-like particle and a vaccine adjuvant, and the use thereof in prevention of HPV infection and HPV infection-related diseases.

22. [20240002447](#)MODIFIED HUMAN PAPILLOMAVIRUS TYPE 52 L1 PROTEIN AND USE THEREOF

US - 04.01.2024

Clasificación Internacional [C07K 14/005](#) N° de solicitud 18254576 Solicitante Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences Inventor/a Xuemei Xu

The present application relates to a modified human papillomavirus (HPV) type 52 L1 protein and a use thereof. Specifically, the present application relates to a HPV type 52 L1 protein, a nucleotide encoded thereby, a carrier comprising the nucleotide, a cell comprising the carrier, a pentamer or virus-like particle consisting of the HPV-52 L1 protein, a vaccine comprising the pentamer or virus-like particle and a vaccine adjuvant, and a use thereof in the prevention of HPV infections and HPV infection-related diseases.

23. [20240000916](#)DESIGN OF OPTIMIZED UNIVERSAL INFLUENZA VACCINES, THEIR DESIGNS AND USES

US - 04.01.2024

Clasificación Internacional [A61K 39/145](#) N° de solicitud 18252790 Solicitante Greffex, Inc. Inventor/a Uwe D. STAERZ

The present disclosure provides a universal influenza virus vaccine. A composition for a universal influenza virus vaccine comprises at least two, preferably more than two, different influenza hemagglutinin (HA) derived antigens. The HA proteins from which the antigens are derived have a hypervariable region located between conserved cysteines at positions 52 and 277, and the hypervariable region is deleted in the antigens. The at least two antigens each have a similarity with HA molecules of more than one influenza serotype in excess of 60, or 70, or 80, as calculated by the emboss explorer cons program.

24. [20240000834](#) RAS MUTANT EPITOPE PEPTIDE AND T CELL RECEPTOR RECOGNIZING RAS MUTANT

US - 04.01.2024

Clasificación Internacional [A61K 35/17](#) N° de solicitud 18038196 Solicitante SHANGHAI GENBASE BIOTECHNOLOGY CO., LTD. Inventor/a Nan Mou

The present invention relates to the field of immunology and tumor treatment. Specifically, an Ras G12V mutant epitope peptide, an antigen presenting cell expressing the epitope peptide, a tumor vaccine containing same, and a use of the tumor vaccine in preventing or treating a tumor having RAS G12V mutation. The present invention further relates to a T cell receptor (TCR) specifically recognizing an Ras G12V mutant, a conjugate and a fusion protein containing the TCR, an immune cell expressing the TCR, a T cell drug containing same, and a use of the T cell drug in preventing or treating a tumor having RAS G12V mutation.

25. [4297775](#) TRÄGERPROTEIN FÜR PEPTIDANTIGEN

EP - 03.01.2024

Clasificación Internacional [A61K 39/00](#) N° de solicitud 22711188 Solicitante CURAVAC EUROPE Inventor/a HAVELANGE NICOLAS

Pharmaceutical composition comprising a conjugated peptide of SEQ ID NO: 1 to which multiple peptide epitopes are covalently grafted, kit comprising the elements for producing said conjugated peptide, synthesis method, and vaccine use.

26. [WO/2024/006863](#) LIPID NANOPARTICLE FORMULATIONS FOR VACCINES

WO - 04.01.2024

Clasificación Internacional [A61K 9/00](#) N° de solicitud PCT/US2023/069303 Solicitante PRECISION NANOSYSTEMS ULC Inventor/a HARVIE, Pierrot

Provided is a lipid formulation capable of forming a lipid-based nanoparticle comprising an ionizable lipid to phospholipid molar ratio of 0.1 – 1.30 of in association with a nucleic acid payload, and in some embodiments, a stabilizing agent. In embodiments, the nucleic acid payload is a vaccine genetic element.

27. [WO/2024/002331](#) A LIVE BACTERIA STRAIN WITH REDUCED CAPSULES

WO - 04.01.2024

Clasificación Internacional [C12N 1/21](#) N° de solicitud PCT/CN2023/104567 Solicitante SHANGHAI YUGUAN BIOTECH CO., LTD. Inventor/a LIN, Qiubin

A live bacteria strain with reduced capsules is provided. More particularly, a live bacteria strain (for example, a live Staphylococcus aureus strain) in which the production of capsules is reduced, to a vaccine against bacterial infection comprising said live strain, and a method for preventing and/or treating bacterial infection in a subject by administering said live strain.

28. [WO/2024/006252](#) DUAL INHIBITION OF MDM2 AND EIF2-ALPHA INDUCES CELL DEATH IN MULTIPLE CANCER CELL TYPES

WO - 04.01.2024

Clasificación Internacional [A61K 47/68](#) N° de solicitud PCT/US2023/026310 Solicitante THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE Inventor/a ANDRYSIK, Zdenek

The present disclosure relates generally to novel recombinant coronavirus-based fusion proteins ("RBDs-IgG Fe protein" and "RBDs protein") and vaccine compositions using the same, in which the fusion proteins comprise tandemly arranged coronaviruses receptor binding domains (RBDs). The present disclosure further provides methods and kits for immunizing a subject using the compositions.

29. [WO/2024/002335](#) A LIVE BACTERIA STRAIN OF PSEUDOMONAS SP.

WO - 04.01.2024

Clasificación Internacional [C12N 1/20](#) N° de solicitud PCT/CN2023/104598 Solicitante SHANGHAI YUGUAN BIOTECH CO., LTD. Inventor/a LIN, Qiubin

Provided is a live bacteria strain of a species from Pseudomonas sp. such as Pseudomonas aeruginosa and uses thereof. More particularly, provided is a live bacteria strain of P.aeruginosa with reduced OprF activity, to a vaccine against P. aeruginosa infection comprising said live bacteria strain, and to a method for preventing and/or treating P.aeruginosa infection in a subject by administering said live bacteria strain.

30.[20240000918](#)ROTAVIRUS VACCINES

US - 04.01.2024

Clasificación Internacional [A61K 39/15](#) N° de solicitud 18463235 Solicitante CureVac SE Inventor/a Susanne RAUCH

The present invention provides mRNA sequences comprising at least one coding region, encoding for at least one epitope of a protein, or of a fragment, variant or derivative thereof, of a virus of the genus rotavirus. Particularly preferred is the protein respectively the protein cleavage product VP8* of rotavirus. The mRNA sequence may be used as a vaccine or generally as a pharmaceutical composition for prophylaxis or treatment of rotavirus infections.

31.[20240000930](#)METHODS AND COMPOSITIONS FOR TREATING KIDNEY DISEASES

US - 04.01.2024

Clasificación Internacional [A61K 39/395](#) N° de solicitud 18265205 Solicitante Siwa Corporation Inventor/a Lewis S. Gruber

A method of treating or preventing the onset of kidney disease comprises administering to a subject a composition comprising an anti-AGE antibody. The anti-AGE antibody binds an AGE antigen comprising at least one protein or peptide that exhibits AGE modifications selected from the group consisting of FFI, pyrrolidine, AFGP, ALI, carboxymethyllysine, carboxyethyllysine and pentosidine. A method of treating or preventing the onset of kidney disease comprises administering to a subject a vaccine comprising an AGE antigen.

32.[WO/2024/006915](#)METHODS AND COMPOSITIONS FOR MODULATION OF IMMUNE RESPONSES

WO - 04.01.2024

Clasificación Internacional [C07K 14/705](#) N° de solicitud PCT/US2023/069385 Solicitante THE UNIVERSITY OF CHICAGO Inventor/a ESSER-KAHN, Aaron

Aspects of the present disclosure relate to functionalized polymers and methods of use thereof. Certain aspects are directed to polymers comprising adjuvants for use in stimulating an immune response. In some cases, provided are polymers comprising inflammasome activators, in some cases also comprising a TLR agonist, which may be formulated in a pharmaceutical composition. Also disclosed are methods for improving vaccine efficacy and immunotherapy efficacy. Certain aspects relate to compositions and methods for stimulation of CD4+ and/or CD8+ T cell responses in a subject.

33.[WO/2024/003368](#)HIGH-YIELD GENOTYPE 1a, 2a AND 3a HCV

WO - 04.01.2024

Clasificación Internacional [C12N 7/00](#) N° de solicitud PCT/EP2023/068038 Solicitante HVIDOVRE HOSPITAL Inventor/a ALZUA, Garazi Pena

The present invention relates to nucleic acid sequences that encode high-yield hepatitis C viruses (HCV) of genotype 1a, 2a or 3a that are useful in the fundamental research of HCV as well as in the search of antivirals and vaccines against HCV. In particular, the present invention relates to nucleic acid sequences that comprise HCV, which are capable of expressing the virus when transfected into cells and are capable of replication or infectivity in cultured cells as well as being functional as a vaccine.

34. [WO/2024/003346](#) MAMMALIAN CELL LINE FOR THE PRODUCTION OF MODIFIED VACCINIA VIRUS ANKARA (MVA)

WO - 04.01.2024

Clasificación Internacional [C07K 14/005](#) N° de solicitud PCT/EP2023/067987 Solicitante BAVARIAN NORDIC A/S Inventor/a STEIGERWALD, Robin

The present invention relates to a mammalian non-human cell line, specifically Chinese hamster ovary (CHO) cells, that is genetically modified to express poxvirus host range genes CP77, K1 L and/or SPI-1 which are not expressed in MVA, and to the use of said cell line in the reproduction of MVA.

35. [WO/2024/001845](#) PREPARATION METHOD AND USE OF DEFECTIVE FILOVIRUS

WO - 04.01.2024

Clasificación Internacional [C12N 7/01](#) N° de solicitud PCT/CN2023/101148 Solicitante SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES Inventor/a ZUO, Jianping

The present invention provides a preparation method and use of a defective filovirus. Specifically, the present invention provides a defective recombinant filovirus, a coding sequence of one or more key viral proteins in a genome of the defective recombinant filovirus being replaced with a recombinase coding sequence, and a use of the defective recombinant filovirus in the aspects of antiviral drug research and development, virology research, vaccine development, and the like. The defective recombinant filovirus of the present invention has a good biosafety feature, is easy to produce, can completely simulate related immune response of host cells caused by virus infection, and is a tool virus having extremely high practicability.

36. [2023285703](#) Tri-segmented Pichinde viruses as vaccine vectors

AU - 04.01.2024

Clasificación Internacional N° de solicitud 2023285703 Solicitante HOOKIPA Biotech GmbH Inventor/a BONILLA, Weldi

37. [4297774](#) IMPFSTOFF ZUR THERAPEUTISCHEN ODER PROPHYLAKTISCHEN BEHANDLUNG VON MYASTHENIA GRAVIS

EP - 03.01.2024

Clasificación Internacional [A61K 39/00](#) N° de solicitud 22711187 Solicitante CURAVAC EUROPE Inventor/a HAVELANGE NICOLAS

A pharmaceutical composition for treating myasthenia gravis, comprising a carrier protein of SEQ ID NO: 1 coupled to a plurality of peptide epitopes, the corresponding peptide epitopes, and the method of synthesizing the conjugate.

38. [WO/2024/003239](#) RECOMBINANT MODIFIED saRNA (VRP) AND VACCINIA VIRUS ANKARA (MVA) PRIME-BOOST REGIMEN

WO - 04.01.2024

Clasificación Internacional [A61K 39/12](#) N° de solicitud PCT/EP2023/067805 Solicitante BAVARIAN NORDIC A/S Inventor/a STEIGERWALD, Robin

The present invention provides compositions, vaccines and methods for inducing protective immunity against an immunogen in humans. The protective immune response is obtained by using a saRNA, in particular a VRP vector as prime and a MVA for boost. Specifically, the present invention relates to genetically engineered (recombinant) VRP and MVA vectors comprising at least one heterologous nucleotide sequence encoding an antigenic determinant of an infectious virus such as EBV.

39. [WO/2024/006930](#) PREFUSION STABILIZED EBV GB MUTATIONS AND USES THEREOF

WO - 04.01.2024

Clasificación Internacional [C07K 14/01](#) N° de solicitud PCT/US2023/069411 Solicitante SEATTLE CHILDREN'S HOSPITAL DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE Inventor/a PRICE, Jason

We have generated a 3D model of the glycoprotein B (gB) of Epstein-Barr virus (EBV) to design candidate stabilizing mutations that increase the stability of the prefusion state essential for an effective EBV gB based vaccine. Provided herein are engineered polypeptides derived from the EBV gB, which include an altered EBV gB ectodomain that has modifications relative to the native EBV gB ectodomain that stabilize a prefusion conformation of the polypeptides. In various aspects, the modifications are amino acid substitutions to generate pairs of cysteine amino acid residues, preferably positioned to connect different domains of the polypeptide or different copies of the polypeptide in a trimeric or multimeric conformation via formation of disulfide bonds during protein expression. In additional aspects, the modifications and/or the engineered polypeptides do not contain pairs of cysteine amino acid residues that may form disulfide bonds in a postfusion conformation.

40. [20240006029](#) SYSTEMS AND METHODS FOR PREDICTING THERAPY EFFICACY FROM NORMALIZED BIOMARKER SCORES

US - 04.01.2024

Clasificación Internacional [G16B 45/00](#) N° de solicitud 18460330 Solicitante BostonGene Corporation Inventor/a Alexander Bagaev

Techniques for determining therapy scores for at least two of an anti-PD1 therapy, an anti-CTLA4 therapy, an IL-2 therapy, an IFN alpha therapy, an anti-cancer vaccine therapy, an anti-angiogenic therapy, and an anti-CD20 therapy. The techniques include determining, using sequencing data for the subject and information indicating distribution of biomarker values across one or more reference populations, a first set of normalized biomarker scores for a first set of biomarkers associated with a first therapy; and a second set of normalized biomarker scores for a second set of biomarkers associated with a second therapy; providing the first set of normalized biomarker scores as input to a statistical model to obtain a first therapy score for the first therapy; and providing the second set of normalized biomarker scores as input to the statistical model to obtain a second therapy score for the second therapy.

41. [WO/2024/002576](#) REAGENT AND METHOD FOR DIAGNOSING THROMBOTIC EVENTS

WO - 04.01.2024

Clasificación Internacional [G01N 33/543](#) N° de solicitud PCT/EP2023/062615 Solicitante BLOKIT RESEARCH & DEVELOPMENT, S.L.U Inventor/a ESTEBAN TORTAJADA, Olga

The disclosure refers to reagents, kits and methods for detecting anti-PF4 antibodies and diagnosing thrombotic events not induced by heparin, including vaccine-induced thrombotic thrombocytopenia. The method provided by the disclosure comprises: (i) contacting whole blood, plasma or serum sample obtained from a subject with a reagent comprising: (a) a binding molecule selected from the group consisting of platelet factor 4 protein (PF4), a fragment of PF4 which can bind anti-PF4 antibodies, and an anti-idiotype antibody of anti-platelet factor 4 antibodies (anti-PF4 antibodies); and (b) a solid support, wherein the binding molecule (a) is covalently bound to the surface of the solid support (b), and wherein the binding molecule (a) does not include heparin or a heparin surrogate, and (ii) analysing the sample to detect a complex formed by the reagent and the anti-PF4 antibodies, wherein detecting the complex is indicative of the sample containing anti-PF4 antibodies.

42. [20240002451](#) BROAD-SPECTRUM PEPTIDE ANTIGEN OF THE NOVEL CORONAVIRUS SARS-COV-2, SPECIFIC NEUTRALIZING ANTIBODY AND USE THEREOF

US - 04.01.2024

Clasificación Internacional [C07K 14/165](#) N° de solicitud 17620528 Solicitante YANGZHOU UNIVERSITY Inventor/a Jianqiang YE

The present disclosure belongs to the technical field of virus immunoassay and provides a broad-spectrum peptide antigen of SARS-CoV-2, a specific neutralizing antibody and use thereof. A broad-spectrum peptide antigen of SARS-CoV-2, with an amino acid sequence set forth in SEQ ID NO: 1, reacts with human SARS-CoV-2 positive serum, and can specifically bind to a novel coronavirus antibody. Based on the peptide sequence of the present disclosure, a fusion protein with broad-spectrum triple tandem peptides of SARS-CoV-2 is prepared using PCR, prokaryotic expression and protein purification technology to simulate the trimeric mode of SARS-CoV-2 S protein in its natural state. The fusion protein is used as an antigen to immunize mice, and can produce a specific anti-SARS-CoV-2 neutralizing antibody. The neutralizing antibody may be promising in anti-infective treatment, vaccine development and detection kit development for SARS-CoV-2.

43. [20240002446](#) PROTEOLIPOSOMES COMPRISING A SARS-COV-2 S GLYCOPROTEIN ECTODOMAIN AND THEIR USE AS A VACCINE

US - 04.01.2024

Clasificación Internacional [C07K 14/005](#) N° de solicitud 17853541 Solicitante UNIVERSITÉ GRENOBLE ALPES Inventor/a Winfried WEISSENHORN

A recombinant SARS-CoV-2 S glycoprotein ectodomain trimer is disclosed, including three recombinant protomers each containing at least the SARS-CoV-2 S glycoprotein ectodomain, and wherein: in each protomer, the furin cleavage site is inactivated/disrupted; Arg408 of one of the protomers is covalently linked to Lys378 of another one of the protomers; and Lys947 of one of the protomers is covalently linked to Arg1019 and/or to Lys776 of another one of the protomers.

44. WO/2024/011250 ONCOLYTIC VACCINIA VIRUSES AND RECOMBINANT VIRUSES AND METHODS OF USE THEREOF

WO - 11.01.2024

Clasificación Internacional [A61K 35/768](#) N° de solicitud PCT/US2023/069837 Solicitante VIROMISSILE, INC. Inventor/a CHEN, Nanhai George

Provided herein are clonal strains of a vaccinia virus that exhibits enhanced anti-tumor properties and/or reduced immunogenicity, and recombinant vaccinia virus derived from the same. Also provided herein are recombinant oncolytic virus strains that include an inactivating mutation in one or more viral genes, and/or one of more heterologous nucleic acids each encoding one or more heterologous gene products. The viruses, e.g., vaccinia viruses, provided herein, including recombinant vaccinia viruses, can be used as an oncolytic virus therapy, e.g., an oncolytic vaccinia virus therapy, for treating cancer. Also provided herein are pharmaceutical compositions and methods and uses of the viruses, e.g., vaccinia viruses, for treating cancer, as well as nucleic acids encoding the viruses.

45. WO/2024/010553 IMMUNOTHERAPUTIC CANCER VACCINE

WO - 11.01.2024

Clasificación Internacional [A61K 39/395](#) N° de solicitud PCT/TR2023/050629 Solicitante ARSLAN, Filiz Inventor/a ARSLAN, Filiz

This invention is related to prove the possibility of using as an antigen, that is, as a vaccine material by identifying its anticancer peptide properties of the antimicrobial peptide of bacteriocin origin, which is a natural antimicrobial substance belonging to the strain of Lactobacillus acidophilus LA-S2, which is a lactic acid bacterium, and then to development anti-idiotypic vaccine by obtaining antibodies from these antigens again and to use of these in immunotherapy treatment method in cancer treatments especially in colon cancer treatment.

46. WO/2024/010962 VACCINE INCORPORATING PROTEIN-BASED IMMUNE ADJUVANT

WO - 11.01.2024

Clasificación Internacional [A61K 39/12](#) N° de solicitud PCT/US2023/027186 Solicitante POZNANSKY, Mark, C. Inventor/a POZNANSKY, Mark, C.

Disclosed are a composition and method of treating some HPV-related solid tumors in mammalian subjects. In one embodiment, a method comprises delivering a self-assembling vaccine intradermally to a subject. In at least one embodiment, the self-assembling vaccine comprises a fusion protein non-covalently attached to two or more biotinylated E6/E7 peptides, derived from targeted viral or oncogenic protein epitopes, using a biotin-avidin engagement.

47.WO/2024/008014PHARMACEUTICAL COMPOSITION FOR RESISTING INFECTION WITH SARS-COV-2 OR MUTANT THEREOF, AND COMBINED DRUG THEREOF
WO - 11.01.2024

Clasificación Internacional [C07K 14/165](#) N° de solicitud PCT/CN2023/105178 Solicitante WESTVAC BIOPHARMA CO., LTD. Inventor/a WEI, Xiayu

Provided are a pharmaceutical composition for resisting infection with SARS-CoV-2 or a mutant thereof, and a combined drug thereof. To solve the problem of the lack of effective prevention and treatment drugs for infection with SARS-CoV-2 or a mutant virus thereof, provided are a recombinant protein vaccine and/or an adenovirus vaccine for preventing and/or treating an infection with SARS-CoV-2 or a mutant thereof, and in particular, provided are a nasal spray administration compound formulation containing active ingredients of two vaccines, i.e., a recombinant protein vaccine and an adenovirus vaccine, and a combination of the two vaccines for nasal spray administration, which can induce generation of strong antibody and cellular immune responses in vivo and block the binding of a protein S of SARS-CoV-2 to an ACE2 receptor of a host cell, thus enabling a host to resist coronavirus infection. Particularly, the present invention has good prevention and treatment effects on various mutant viruses.

48.WO/2024/010686VACCINE TISSUE ASSAYS
WO - 11.01.2024

Clasificación Internacional N° de solicitud PCT/US2023/025705 Solicitante THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK Inventor/a SIMS, Peter Alan

Provided herein are methods, compositions, systems and kits for testing immune responses, safety, and efficacy of vaccines. In particular, the methods, compositions, systems and kits of the present invention test immune responses, duration of the immune responses, dose responses and age dependencies in cellular components of lymph nodes, other lymphoid tissues, mucosal tissues, barrier tissues, intestinal tissues, pulmonary tissues, and other solid tissues to vaccines after exposure in cell culture and tissue slices.

49.WO/2024/009316CATIONIC LIPID BASED COMPOSITION, FORMULATION AND USE FOR NUCLEIC ACID VACCINE DELIVERY AND PREPARATION THEREOF
WO - 11.01.2024

Clasificación Internacional [A61K 9/127](#) N° de solicitud PCT/IN2023/050596 Solicitante BHARAT BIOTECH INTERNATIONAL LIMITED Inventor/a MAHADIK, Namita Santosh

The present invention discloses a cationic lipid-based formulation for in vivo delivery of nucleic acid. The present invention describes the development of a lipid system that can induce efficient non-viral delivery of nucleic acid, especially RNA, for the purpose of efficient nucleic acid transfection toward eliciting vaccination in vivo. Present invention provides a lipid/RNA complex (lipoplex) formulation having sufficiently long shelf life that performs without any compromise in its transfection output. The present invention further provides cationic lipid-based formulations for RNA delivery with maximum nucleic acid complexation ability and with comparatively lesser amount of cationic lipid having higher stability.

NOTA ACLARATORIA: Las noticias y otras informaciones que aparecen en este boletín provienen de sitios públicos, debidamente referenciados mediante vínculos a Internet que permiten a los lectores acceder a las versiones electrónicas de sus fuentes originales. Hacemos el mayor esfuerzo por verificar de buena fe la objetividad, precisión y certeza de las opiniones, apreciaciones, proyecciones y comentarios que aparecen en sus contenidos, pero este boletín no puede garantizarlos de forma absoluta, ni se hace responsable de los errores u omisiones que pudieran contener. En este sentido, sugerimos a los lectores cautela y los alertamos de que asumen la total responsabilidad en el manejo de dichas informaciones; así como de cualquier daño o perjuicio en que incurran como resultado del uso de estas, tales como la toma de decisiones científicas, comerciales, financieras o de otro tipo.

Edición: Annia Ramos Rodríguez aramos@finlay.edu.cu
Randelys Molina Castro rmolina@finlay.edu.cu
Irina Crespo Molina icrespo@finlay.edu.cu
Yamira Puig Fernández yamipuig@finlay.edu.cu

