

CN112220919 (A)

Bibliographic data

Description

Claims

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INPADOC legal status

INPADOC patent family

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Nano coronavirus recombinant vaccine taking graphene oxide as carrier

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- international: [A61K39/215](#); [A61K39/385](#); [A61K39/39](#); [A61P31/14](#); [C07K14/165](#); [C07K17/14](#)
- cooperative: [A61K39/12 \(CN\)](#); [A61K39/385 \(CN\)](#); [A61K39/39 \(CN\)](#); [A61P31/14 \(CN\)](#); [C07K14/005 \(CN\)](#); [C07K17/14 \(CN\)](#); [A61K2039/55561 \(CN\)](#); [A61K2039/60 \(CN\)](#); [A61K2039/627 \(CN\)](#); [C12N2770/20022 \(CN\)](#); [C12N2770/20034 \(CN\)](#)

Application number: CN20201131367 20200927  [Global Dossier](#)

Priority number(s): CN20201131367 20200927

Abstract of CN112220919 (A)

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The invention belongs to the field of nano materials and biological medicines, and relates to a vaccine, in particular to development of a 2019-nCoV coronavirus nuclear recombinant nano vaccine. The invention also comprises a preparation method of the vaccine and application of the vaccine in animal experiments. The novel coronavirus vaccine contains graphene oxide, carnosine, CpG and novel coronavirus RBD; The carnosine, the CpG and novel coronavirus RBD are combined on a framework of the graphene oxide; the coding sequence of the CpG is as shown in SEQ ID NO 1; and the novel coronavirus RBD refers to that a novel coronavirus protein receptor binding region can generate a high-titer specific antibody aiming at the RBD in a mouse body, and strong support is provided for prevention and treatment of the novel coronavirus.