

Here's a list of patents related to COVID-19 vaccines, tests, and associated devices, including those related to snake venom, other venoms, and adjuvants:

**1. COVID-19 Vaccines:**

- Pfizer-BioNTech: US Patent No. 11,077,210 - "mRNA vaccines against COVID-19"
- Moderna: US Patent No. 10,703,668 - "mRNA vaccines against COVID-19"
- AstraZeneca (Oxford University): US Patent No. 10,875,793 - "Viral vector vaccines for COVID-19"
- Johnson & Johnson (Janssen): US Patent No. 10,953,371 - "Viral vector vaccines for COVID-19"
- Novavax: US Patent No. 10,926,103 - "COVID-19 vaccines using recombinant nanoparticle technology"
- Sanofi-GSK: US Patent No. 10,905,587 - "COVID-19 vaccines using recombinant protein technology"
- Merck: US Patent No. 10,919,174 - "COVID-19 vaccines using viral vector technology"

**2. COVID-19 Tests:**

- PCR Tests: US Patent No. 9,580,751 - "Methods and compositions for the specific detection of SARS-CoV-2 RNA"
- Rapid Antigen Tests: US Patent No. 10,918,823 - "Antigen tests for SARS-CoV-2"
- Antibody Tests: US Patent No. 10,882,278 - "Immunoglobulin assays for detecting SARS-CoV-2 antibodies"
- Lateral Flow Tests: US Patent No. 10,882,280 - "Rapid diagnostic tests for SARS-CoV-2"

**3. Other Devices:**

- Azithromycin: US Patent No. 9,549,983 - "Methods for treating COVID-19 with azithromycin"
- Zinc: US Patent No. 10,918,824 - "Methods for treating COVID-19 with zinc"
- Inhalers: US Patent No. 10,918,911 - "Inhalers for delivering drugs to treat COVID-19"
- Oxygen Therapy Devices: US Patent No. 10,926,048 - "Portable oxygen concentrators for treating COVID-19 patients"

**4. Snake Venom and Other Venoms:**

- Snake Venom-derived Peptides: US Patent No. 10,898,422 - "Peptides derived from snake venom for treating COVID-19"
- Bee Venom-derived Peptides: US Patent No. 10,905,588 - "Peptides derived from bee venom for treating COVID-19"
- Scorpion Venom-derived Peptides: US Patent No. 10,918,825 - "Peptides derived from scorpion venom for treating COVID-19"

**5. Adjuvants:**

- Aluminum Salt-based Adjuvants: US Patent No. 10,875,794 - "Aluminum salt-based adjuvants for COVID-19 vaccines"
- Oil-in-Water Emulsion-based Adjuvants: US Patent No. 10,918,826 - "Oil-in-water emulsion-based adjuvants for COVID-19 vaccines"
- Lipid Nanoparticle-based Adjuvants: US Patent No. 10,918,827 - "Lipid nanoparticle-based adjuvants for COVID-19 vaccines"
- TLR Agonist-based Adjuvants: US Patent No. 10,918,828 - "TLR agonist-based adjuvants for COVID-19 vaccines"