



Mice
C57BL/6

Age of animals:
15 weeks

Groups

- Control (Saline)
- Culture medium (Supernatant VERO cells)
- SARS-CoV-2 (Inactivated Virus)

Procedure

- Nasal instillation (days 1,3 and 5)
- Volume 50ul
- Viral concentration $4 \cdot 10^5$ PFU

Collected Samples/ Assays

- BALF
- Total and differential count
- Lung lobes
- Flow Cytometry, qRT-PCR, Histology and Homogenate

Euthanasia 7th day
after the start
of the protocol



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Groups

- Control (Saline)
- SARS-CoV-2 (Inactivated Virus)
- SARS-CoV-2 / Intranasal Vitamin D (Inactivated Virus + Vitamin D IN)
- SARS-CoV-2 / Intraperitoneal Vitamin D (Inactivated Virus + Vitamin D IP)

Procedure

- Nasal instillation with the virus, except in control (days 1,3 and 5) - 50ul
- Intranasal Vitamin D treatment (days 1,3 and 5) - $1\mu\text{g}$ per animal
- Intraperitoneal Vitamin D treatment (days 0, 2, 4 and 6) - $1\mu\text{g}$ per animal

Collected Samples/ Assays

- BALF (Total and Differential Count)
- Lung (Cytometry, qRT-PCR and Histology)

Euthanasia 7th day
after the start
of the protocol