

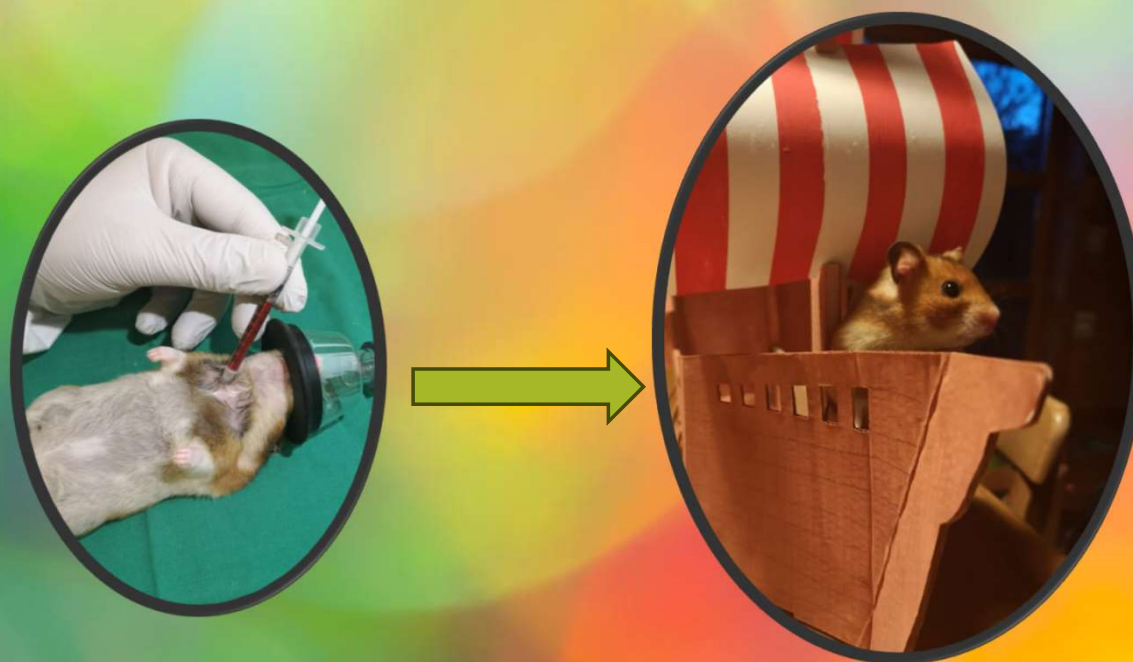


Univerza v Ljubljani
Veterinarska fakulteta



KEMIJSKI INŠTITUT

REHOMING AS ULTIMATE REFINEMENT OF PROCEDURES USING GOLDEN HAMSTERS IN SARS-COV-2 VACCINE RESEARCH



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Gregor Majdič

Best vaccine candidate(s) from in vitro tests → preclinical tests on suitable animal model

- previously



vaccines

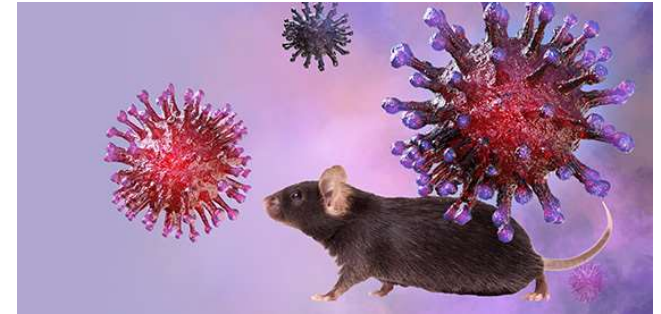


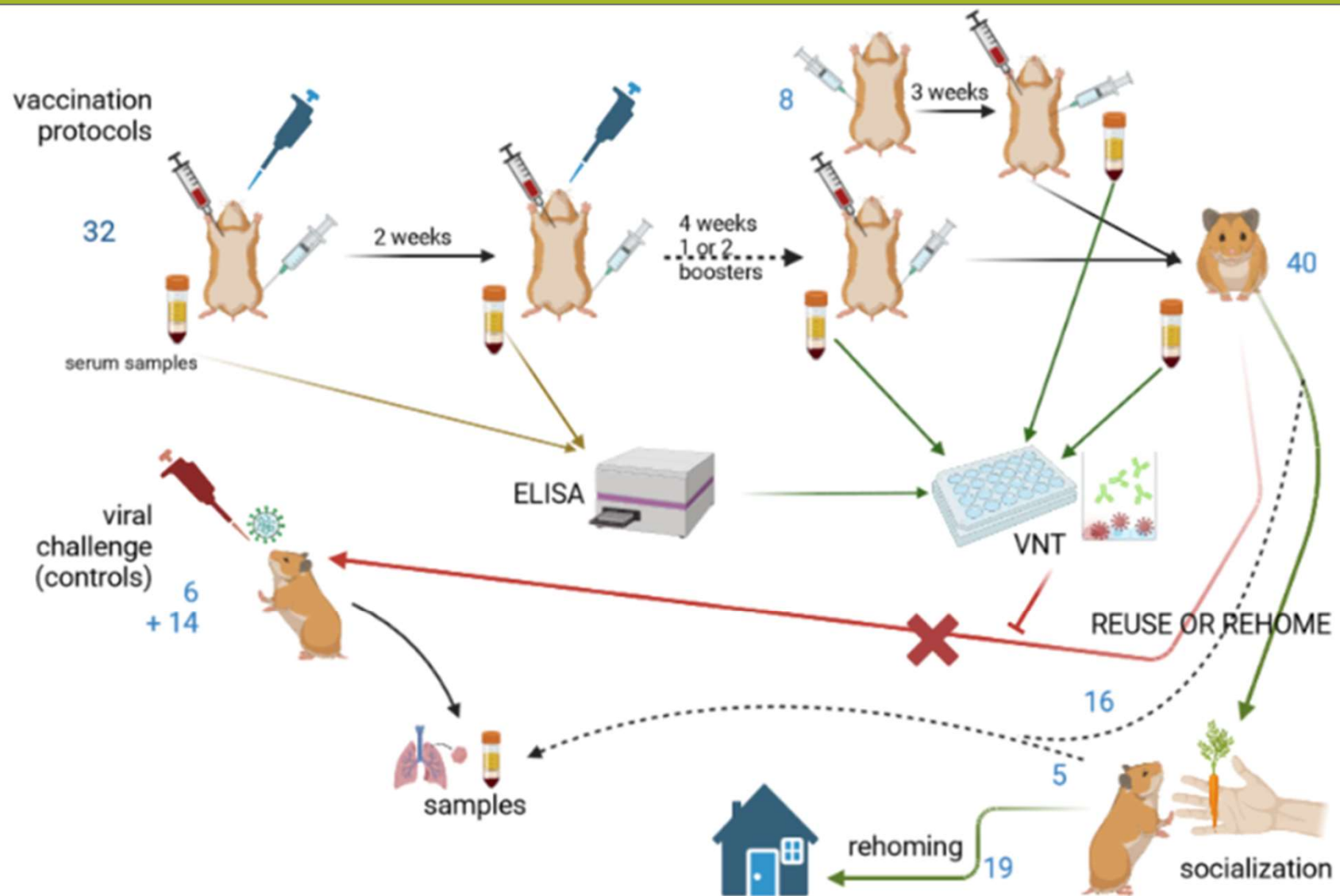
Article

A Nanoscaffolded Spike-RBD Vaccine Provides Protection against SARS-CoV-2 with Minimal Anti-Scaffold Response

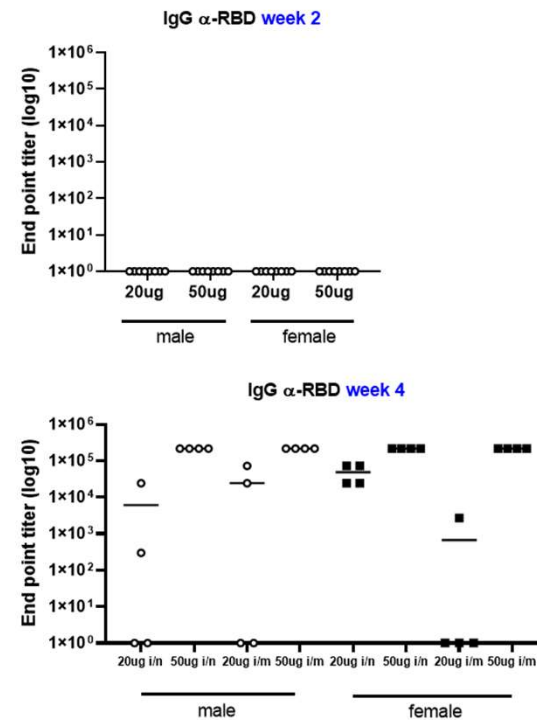
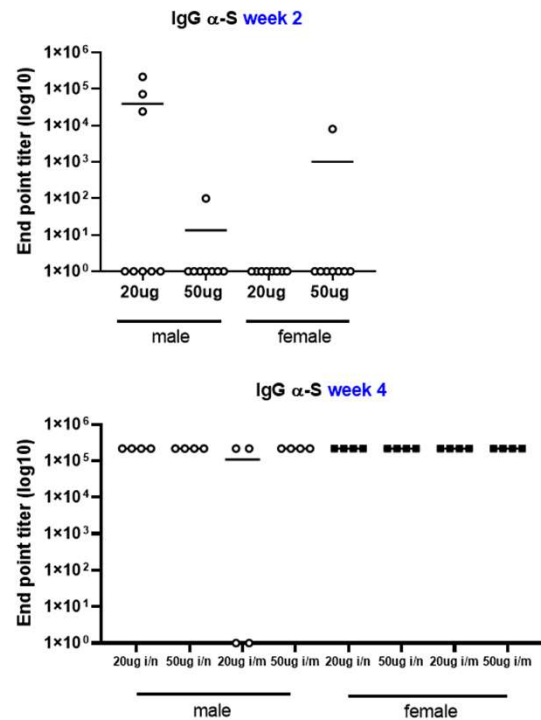
Duško Lainšček ^{1,2,†}, Tina Fink ^{2,†}, Vida Forstnerič ^{2,†}, Iva Hafner-Bratkovič ^{1,2} , Sara Orehek ^{2,3}, Žiga Strmšek ^{2,3}, Mateja Manček-Keber ^{1,2} , Peter Pečan ^{2,3} , Hana Esih ^{2,3}, Špela Malenšek ^{2,3}, Jana Aupič ², Petra Dekleva ^{2,3}, Tjaša Plaper ^{2,3}, Sara Vidmar ^{2,3}, Lucija Kadunc ², Mojca Benčina ^{1,2}, Neža Omersa ⁴ , Gregor Anderluh ⁴ , Florence Pojer ⁵, Kelvin Lau ⁵ , David Hacker ⁵, Bruno E. Correia ⁵, David Peterhoff ⁶ , Ralf Wagner ^{6,7}, Valter Bergant ⁸, Alexander Herrmann ⁸, Andreas Pichlmair ^{8,9} and Roman Jerala ^{1,2,*}

Covid-19 Model animals – ACE2 receptors homology





Best vaccination protocol decision making – specific antibody titer by ELISA



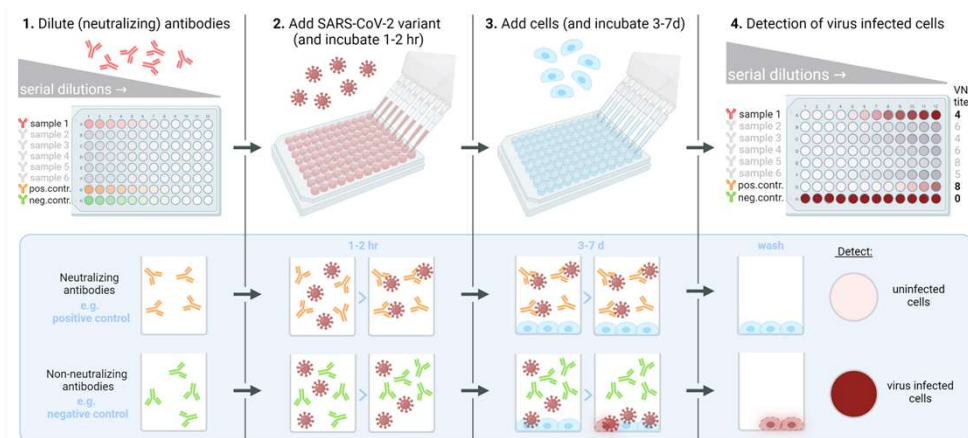
Refinements

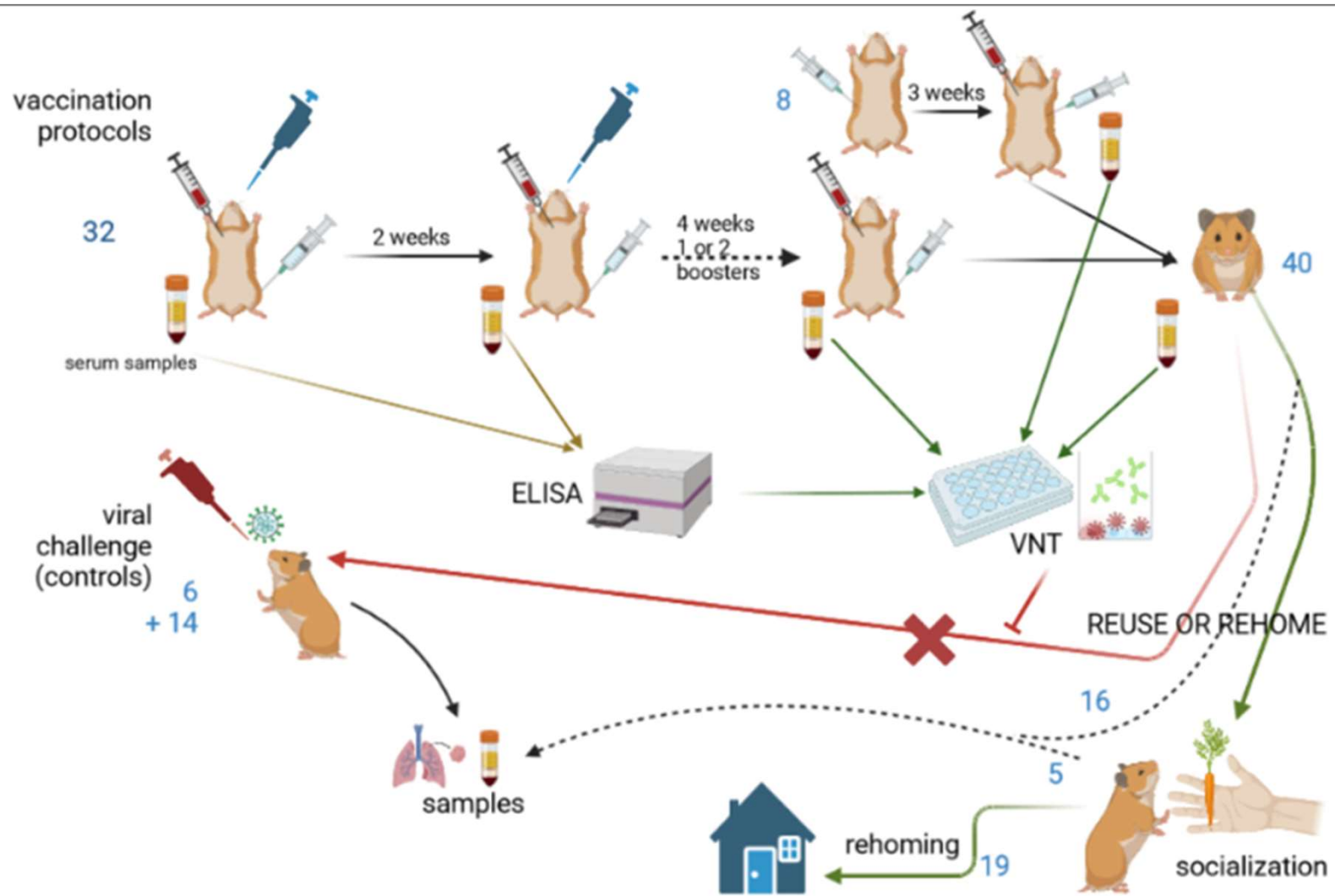
- environmental enrichments
- friendly handling (tunnel, cupping)
- inhalation anesthesia for all applications and blood sampling
- pilot test for viral challenge - new ABSL3 facility



Replacement → Reduction

- VNT - virus neutralization test
SARS-CoV-2 strain Slovenia/SI -4265/20





KEEP ALIVE, REUSE OR REHOME?

DECISION LATE 2021






**Advice Note 02/2015:
Animals (Scientific Procedures) Act 1986**

Use, Keeping Alive and Re-use

Date: October 2015


FELASA Proceedings

FELASA recommendations for the rehoming of animals used for scientific and educational purposes

Emilie Ecuier¹ , Jackie Boxall², Annet L Louwerse³,
Lars F Mikkelsen⁴, Christel PH Moons⁵ , Mirjam Roth⁶ and
Andrea M Spiri⁷ 



Laboratory Animals
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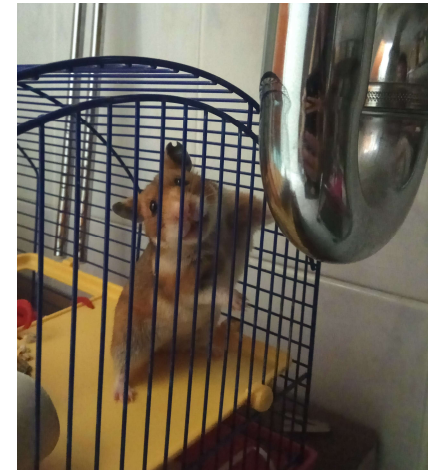


TAKE CARE / BE NICE / EVERY LIFE MATTERS

socialization in
institution,
assesment



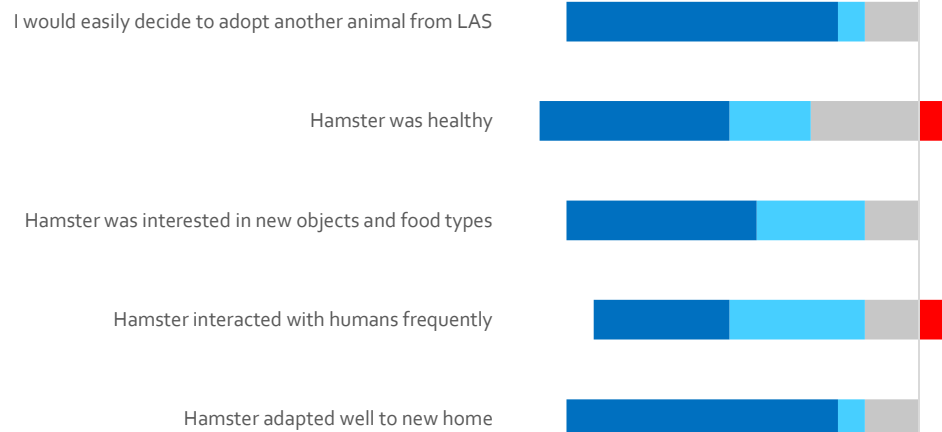
from new homes
19 boys and girls



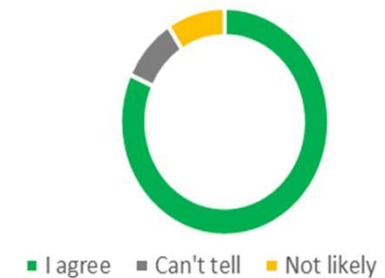
enka.si survey 1,5 year after... 11 (of 17) responses

Opinion on adaptation of pet to new home (n=11)

■ not certain ■ agree ■ completely agree ■ completely disagree ■ disagree



Adoption of surplus or retired animals that have been bred or used in procedures for scientific purposes can improve public attitudes toward the use of laboratory animals and help restore general confidence in science.



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