1650 Beersel, Belgium

+32 484 287 111

sanne.terryn@gmail.com

LinkedIn Profile

ResearchGate Profile

Sanne Terryn

Fascinated by Science // Passionate about Virology // Driven by Research

Throughout the years, I have built up research and laboratory skills and put them into practice during my PhD thesis. With that experience I started working at the National Reference center & laboratory (NRC/NRL) for Rabies, where I added a new layer to my expertise, which is combining company's objectives and customer focus!
Since 2018, I built up new competences as manager of NRC/NRL. My team and I were able to increase the number of performed tests year after year and be part of multiple national and international research projects.
Furthermore, sharing my passion drives me. It is always a pleasure to be able to present and explain why Virology and Rabies are so fascinating, whether the audience are enthusiasts, academics, or experts.

Timeline

2018 – Present

Head of National Reference center & laboratory for Rabies • Sciensano

Our laboratory, recognized by the EU to do tests in the frame of pet travel, performs analysis for clients all over the world. As responsible I must guarantee the daily business in the laboratory, this includes ensuring that necessary accreditations (ISO 15189 and ISO 17025) are maintained, foresee training for personnel members, make sure every requested test is executed and reported on time, ... All this, while guaranteeing a high level of customer satisfaction, led to an increase of efficiency for some processes and the development of new tools.

Besides routine analysis for rabies, the laboratory is involved in (inter)national research projects and provides support to the industry developing new vaccines or diagnostic tests. Within these project we have provide technical support, have been involved in the development of new models and provide expert advice. I make sure that projects are followed up and reported.

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2021 - Present

Tutor in course on border control • JVL consulting

JVL consulting commissioned by the European Union organizes the training program “Better Training for Safer Foods”. My course covers sampling and laboratory tests, including European regulations for the import of samples and animals.

2015 – 2018

Scientist • Scientific Institute of Public Health (WIV-ISP)

Working in close collaboration with the Head of the National Reference Center. I was mainly responsible for the follow-up of research projects and quality (ISO 15189 and ISO 17025).

2011 – 2016

PhD Student • Faculty of Veterinary Sciences Ghent University (UGent)

Doctoral studies in veterinary medicine on the development of an antiviral treatment of rabies virus infection.

PhD thesis: Development and evaluation of antiviral single domain antibodies for prophylaxis of rabies in mice (Prof. Dr. H. Nauwynck)

2010

Scientist • Predoctoral research VIB • Scientific Institute of Public Health (WIV-ISP)

2009

Trainee • Ablynx

2-month industrial internship during master studies. During this internship I familiarized myself with cloning and production techniques of Nanobodies®.

2005 - 2010

Student • Faculty of Bio-engineering science Brussels University (VUB)

Master thesis: The effect of signalling pathways on the size of the CD133-positive population and tumour growth in glioblastoma (Dr. L. Leyns)

Additional training & certifications

2021 Leadership courses • Sciensano

2020 Dangerous Goods training • World Courier

2013 Advanced course in laboratory animal science (FELASA C) • UGent

Publications

Terryn S., Francart A., Lamoral S., Hultberg A, Rommelaere H, Wittelsberger A, Callewaert F, Stohr T, Meerschaert K, Ottevaere I,

Stortelers C, Vanlandschoot P, Kalai M, Van Gucht S., 2014. Protective Effect of Different Anti-Rabies Virus VHH Constructs against Rabies Disease in Mice. Plos ONE Oct 27;9(10):e109367
Terryn S., Francart A., Rommelaere H., Stortelers C., Van Gucht S., 2016. Post-exposure treatment with anti-rabies VHH and vaccine significantly improves protection of mice from lethal rabies infection. Plos Negl. Trop. Dis. Aug 2; 10 (8):e0004902
Kip E., Staal J., Verstrepen L., Tima HG., **Terryn S.**, Romano M., Lemeire K., Suin V., Hamouda A., Kalai M., Beyaert R., Van Gucht S., (2018). MALT1 controls attenuated rabies virus by inducing early inflammation and T-cell activation in the brain. J Virol. Jan 24, pii JVI.02029-17
De Pijper CA., Boersma, J., **Terryn S.,** Van Gucht S., Goorhuis A., Grobusch MP, Stijnis C., 2018. Rabies antibody response after two intradermal pre-exposure prophylaxis immunization: An observational cohort study. Travel Med Infect Dis. March-Apr; 22:36-39
Soentjens P., De Koninck K., Tsoumanis A., Herssens N., Van Den Bossche D., **Terryn S.**, Van Gucht S., Van Damme P., Van Herrewege Y, Bottieau E., 2019. Comparative immunogenicity and safety trial of 2 different schedules of single-visit intradermal Rabies Post-exposure Vaccination. Clin Infect Dis Aug 16;69(5):797-804.
De Pijper CA., **Terryn S.,** Van Gucht S., Grobusch MP., Goorhuis A., Stijnis C., 2020. Antibody response in dutch marines to a single intramuscular rabies booster immunization 1-2.5 years after an intradermal pre-exposure schedule: An observational study. Travel Med. Infect Dis., Nov-Dec; 38:101907
De Pijper CA., Langedijk AC., **Terryn S.,** Van Gucht S., Grobusch MP, Goorhuis A, Stijnis C., 2021. Long-term memory response after a single intramuscular rabies booster vaccination, 10-24 years after primary immunization. J. Infect Dis, Jan 27:jiab034.
Geebelen L., Lernout T., Tersago K., **Terryn S.**, Hovius JW, Docters van Leeuwen A., Van Gucht S., Speybroeck N, Sprong H., 2022. No molecular detection of tick-borne pathogens in the blood of patients with erythema migrans in Belgium. Parasit vectors, Jan 20;15(1):27.

Abstracts, posters & Oral presentations

Terryn S., Francart A., Lamoral S., Hultberg A., Vanlandschoot P., Rommelaere H., Wittelsberger A., Kalai M., Van Gucht S. Treatment with anti-rabies VHH prevents or delays disease and mortality in mice depending on the timing of treatment. 1st annual meeting of the Belgian society for Virology (BelVir), Brussels, Belgium (oral presentation)

Terryn S, Fikri Y., Francart A., Lamoral S., Hultberg A., Vanlandschoot P., Rommelaere H., Wittelsberger A., Kalai M., Van Gucht S. Treatment with anti-rabies VHH derived from llama heavy chain antibodies prevents or delays rabies virus disease and mortality in mice depending on the timing of treatment. 7th annual meeting Epizone 2013, Brussels, Belgium (poster)

Terryn S. Efficacy of treatment with anti-rabies virus Nanobodies ® in the rabies mouse model. 2014 IUAP meeting, Spa, Belgium (oral presentation)

Terryn S., Francart A., Lamoral S., Hultberg A., Vanlandschoot P., Rommelaere H., Wittelsberger A., Kalai M., Van Gucht S. Treatment with

anti-rabies VHH prevents or delays disease and mortality in mice depending on the timing of treatment. 3rd Antivirals Conference 2014, Amsterdam, The Netherlands (oral presentation)


Terryn S., Francart A., Rommelaere H., Stortelers C., Van Gucht S., 2015. Post-exposure treatment with anti-rabies VHH and vaccine to protect mice from rabies. 3rd annual meeting of Belgian Society for Virology (BelVir), Brussels, Belgium (abstract)


Terryn S., Francart A., Van Gucht S., Brochier B., 2016. First reccord of Lyssavirus infection in a bat in Belgium. 4th annual meeting of the Belgian Society for Virology (BelVir), Brussels, Belgium (oral presentation)


Terryn S., Blondiau M. L., Francart A., Hamouda A., Brochier B. Rabies surveillance in Belgium : activity report of 2016. Seminar of Infectious Diseases 2017, Brussels, Belgium (poster)


Sanchez-Felipe L., Mishra N., Sharma S., **Terryn S.,** Banyard A. C., Fooks A. R., Van Gucht S., Neyts J., Dallmeier K., 2017. Development of a dual-target rabies/yellow fever vaccine candidate. 6th annual meeting of the Belgian Society for Virology (BelVir), Brussels, Belgium.


Terryn S., Brochier B., Francart A., Blondiau M. L., Van Gucht S. National reference center and laboratory for rabies. Seminar of Infectious Diseases 2018, Brussels, Belgium (poster)


Terryn S., Brochier B., Van Gucht S. History and activities of the Belgian National Reference Laboratory for rabies. Annual workshop for rabies organized by the European reference laboratory for rabies (ANSES) 2018, Brussels, Belgium (invited speaker)


Terryn S. Rabies: stand van zaken. Virologisch herfstforum 2018, Brugge, Belgium (invited speaker)


Terryn S. Vleermuizen en virussen. Annual meeting of Natuurpunt 2020, Brussels Belgium (invited speaker)


Terryn S. Pandemiën in de natuur. Warme Winteravonden in het Dijleland 2021, Natuurpunt, Leuven, Belgium (invited speaker)