



Leen Beller

Sciences de la vie

Mandataire en brevets stagiaire

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Après ses études en sciences biomédicales à la KU Leuven, Leen a commencé son doctorat à l'institut REGA de la KU Leuven en 2015. Pendant cinq ans, elle a étudié comment la flore intestinale (microbiome intestinal) des nourrissons en bonne santé se développe au cours de leur première année de vie.

Elle s'est spécialisée dans les nombreux aspects de la microbiologie et de la génomique, mais aussi dans la bioinformatique et la biostatistique.

Expérience professionnelle

- Mandataire en brevets stagiaire, V.O. (2021-présent)
- Étudiant en doctorat, Rega Institute KU Leuven (2015-2021)

Formation

- PhD in Biomedical Sciences, KU Leuven (2020)
- MSS in Biomedical Sciences, KU Leuven (2015)
- BSs in Biomedical Sciences, KU Leuven (2013)

Publications

- Conceição-Neto, N., Zeller, M., Lefrère, H., De Bruyn, P., Beller, L., Deboutte, W., Yinda, C. K., Lavigne, R., Maes, P., Ranst, M. Van, Heylen, E. & Matthijnssens, J. Modular approach to customise sample preparation procedures for viral metagenomics: A reproducible protocol for virome analysis. *Sci. Rep.* 5, 16532 (2015).
- Yinda, C. K., Zeller, M., Conceição-Neto, N., Maes, P., Deboutte, W., Beller, L., Heylen, E., Ghogomu, S. M., Van Ranst, M. & Matthijnssens, J. Novel highly divergent reassortant bat rotaviruses in Cameroon, without evidence of zoonosis. *Sci. Rep.* 6, 34209 (2016).
- Yinda, C. K., Ghogomu, S. M., Conceição-Neto, N., Beller, L., Deboutte, W., Vanhulle, E., Maes, P., Van Ranst, M. & Matthijnssens, J. Cameroonian fruit bats harbor divergent viruses, including rotavirus H, bastroviruses, and picobirnaviruses using an alternative genetic code. *Virus Evol.* 4, vey008 (2018).
- Theuns, S., Vanmechelen, B., Bernaert, Q., Deboutte, W., Vandenhove, M., Beller, L., Matthijnssens, J., Maes, P. & Nauwynck, H. J. Nanopore sequencing as a revolutionary diagnostic tool for porcine viral enteric disease complexes identifies porcine kobuvirus as an important enteric virus. *Sci. Rep.* 8, 9830 (2018).
- Vanmechelen, B., Bletsa, M., Laenen, L., Lopes, A. R., Vergote, V., Beller, L., Deboutte, W., Korva, M., Avšič Županc, T., Goüy de Bellocq, J., Gryseels, S., Leirs, H., Lemey, P., Vrancken, B. & Maes, P. Discovery and genome characterization of three new Jeilongviruses, a lineage of paramyxoviruses characterized by their unique membrane proteins. *BMC Genomics* 19, 617 (2018).
- Yinda, C. K., Vanhulle, E., Conceição-Neto, N., Beller, L., Deboutte, W., Shi, C., Ghogomu, S. M., Maes, P.,

Van Ranst, M. & Matthijnssens, J. Gut Virome Analysis of Cameroonian Reveals High Diversity of Enteric Viruses, Including Potential Interspecies Transmitted Viruses. *mSphere* 4, (2019).

- Beller, L. & Matthijnssens, J. What is (not) known about the dynamics of the human gut virome in health and disease. *Curr. Opin. Virol.* 37, 52–57 (2019).
- Shi, C., Beller, L., Deboutte, W., Yinda, K. C., Delang, L., Vega-Rúa, A., Failloux, A.-B. & Matthijnssens, J. Stable distinct core eukaryotic viromes in different mosquito species from Guadeloupe, using single mosquito viral metagenomics. *Microbiome* 7, 121 (2019).
- Wollants, E., Beller, L., Beuselinck, K., Bloemen, M., Lagrou, K., Reynders, M. & Van Ranst, M. A decade of enterovirus genetic diversity in Belgium. *J. Clin. Virol.* 121, 104205 (2019).
- Deboutte, W., Beller, L., Yinda, C. K., Maes, P., de Graaf, D. C. & Matthijnssens, J. Honey-bee-associated prokaryotic viral communities reveal wide viral diversity and a profound metabolic coding potential. *Proc. Natl. Acad. Sci. U. S. A.* 117, 10511–10519 (2020).
- Thijssen, M., Tacke, F., Beller, L., Deboutte, W., Yinda, K. C., Nevens, F., Laleman, W., Van Ranst, M. & Pourkarim, M. R. Clinical relevance of plasma virome dynamics in liver transplant recipients. *EBioMedicine* 60, 103009 (2020).
- Simsek, C., Corman, V. M., Everling, H. U., Lukashev, A. N., Rasche, A., Maganga, G. D., Binger, T., Jansen, D., Beller, L., Deboutte, W., Gloza-Rausch, F., Seebens-Hoyer, A., Yordanov, S., Sylverken, A., Oppong, S., Sarkodie, Y. A., Vallo, P., Leroy, E. M., Bourgarel, M., Yinda, K. C., Van Ranst, M., Drosten, C., Drexler, J. F. & Matthijnssens, J. At least seven distinct rotavirus genotype constellations in bats with evidence of reassortment and zoonotic transmissions. *MBio* 12, (2021).

Langues

- Néerlandais(langue maternelle)
- Anglais (courant)
- Français (de base)