

CURRICULUM VITAE

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PROFESSIONAL HISTORY

- 2021- **Senior Scientist at Archean Biologics**
Archean is a preclinical company dedicated to developing universal influenza therapeutics.
- 2013-2015 **Research Assistant at Immudex**
Immudex is a biotech company specializing in the detection of antigen-specific T cells for use in research and as diagnostic tools

EDUCATION

- 2017-2021 **Icahn School of Medicine at Mount Sinai.** Doctor of Philosophy, Biomedical Sciences
Thesis: The host response to SARS-CoV-2 and testing of therapeutics against COVID-19
- 2015-2017 **Icahn School of Medicine at Mount Sinai.** Master of Science, Biomedical Sciences
Thesis: miRNA-mediated lineage restrictions as a tool to modify human cytomegalovirus
- 2011-2015 **University of Copenhagen.** Bachelor of Science, Molecular Biomedicine
Thesis: Isolation of archaeal CRISPR Type I-D Cascade complex

PUBLICATIONS

Horiuchi, S., K. Oishi, L. Carrau, J. Frere, **R. Møller**, M. Panis and B. R. tenOever (2021). "Immune memory from SARS-CoV-2 infection in hamsters provides variant-independent protection but still allows virus transmission." Sci Immunol: eabm3131.

Yang, L., B. E. Nilsson-Payant, Y. Han, F. Jaffre, J. Zhu, P. Wang, T. Zhang, D. Redmond, S. Houghton, **R. Møller**, D. Hoagland, L. Carrau, S. Horiuchi, M. Goff, J. K. Lim, Y. Bram, C. Richardson, V. Chandar, A. Borczuk, Y. Huang, J. Xiang, D. D. Ho, R. E. Schwartz, B. R. tenOever, T. Evans and S. Chen (2021). "Cardiomyocytes recruit monocytes upon SARS-CoV-2 infection by secreting CCL2." Stem Cell Reports **16**(9): 2274-2288.

Si, L., H. Bai, M. Rodas, W. Cao, C. Y. Oh, A. Jiang, **R. Møller**, D. Hoagland, K. Oishi, S. Horiuchi, S. Uhl, D. Blanco-Melo, R. A. Albrecht, W. C. Liu, T. Jordan, B. E. Nilsson-Payant, I. Golynger, J. Frere, J. Logue, R. Haupt, M. McGrath, S. Weston, T. Zhang, R. Plebani, M. Soong, A. Nurani, S. M. Kim, D. Y. Zhu, K. H. Benam, G. Goyal, S. E. Gilpin, R. Prantil-Baun, S. P. Gygi, R. K. Powers, K. E. Carlson, M. Frieman, B. R. tenOever and D. E. Ingber (2021). "A human-airway-on-a-chip for the rapid identification of candidate antiviral therapeutics and prophylactics." Nat Biomed Eng **5**(8): 815-829.

Eriksen, A. Z.*, **R. Møller***, B. Makovoz, S. A. Uhl, B. R. tenOever and T. A. Blenkinsop (2021). "SARS-CoV2 infects human adult donor eyes and hESC-derived ocular epithelium." Cell Stem Cell **28**(7): 1205-1220 e1207.

* = co-first authorship

Hoagland, D. A.*, **R. Møller***, S. A. Uhl, K. Oishi, J. Frere, I. Golyner, S. Horiuchi, M. Panis, D. Blanco-Melo, D. Sachs, K. Arkun, J. K. Lim and B. R. tenOever (2021). "Leveraging the antiviral type I interferon system as a first line of defense against SARS-CoV-2 pathogenicity." *Immunity* **54**(3): 557-570 e555.

* = *co-first authorship*

Dobrindt, K., D. A. Hoagland, C. Seah, B. Kassim, C. P. O'Shea, A. Murphy, M. Iskhakova, M. B. Fernando, S. K. Powell, P. J. M. Deans, B. Javidfar, C. Peter, **R. Møller**, S. A. Uhl, M. F. Garcia, M. Kimura, K. Iwasawa, J. F. Crary, D. N. Kotton, T. Takebe, L. M. Huckins, B. R. tenOever, S. Akbarian and K. J. Brennan (2021). "Common Genetic Variation in Humans Impacts In Vitro Susceptibility to SARS-CoV-2 Infection." *Stem Cell Reports* **16**(3): 505-518.

Blanco-Melo, D., B. E. Nilsson-Payant, W. C. Liu, S. Uhl, D. Hoagland, **R. Møller**, T. X. Jordan, K. Oishi, M. Panis, D. Sachs, T. T. Wang, R. E. Schwartz, J. K. Lim, R. A. Albrecht and B. R. tenOever (2020). "Imbalanced Host Response to SARS-CoV-2 Drives Development of COVID-19." *Cell* **181**(5): 1036-1045 e1039.

Møller, R., K. Oishi and B. R. tenOever (2020). "Engineering an RNA-based tissue-specific platform for genetic editing through use of a miRNA-enabled Cas12a." *bioRxiv*.

Møller, R., T. M. Schwarz, V. M. Noriega, M. Panis, D. Sachs, D. Tortorella and B. R. tenOever (2018). "miRNA-mediated targeting of human cytomegalovirus reveals biological host and viral targets of IE2." *Proc Natl Acad Sci U S A* **115**(5): 1069-1074.

TALKS AND PRESENTATIONS

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| 2021 | American Society for Virology annual meeting, virtual |
| 2020 | American Society for Virology annual meeting, virtual |
| 2019 | Australasian Virology Society, Queenstown, New Zealand |
| 2018 | 32 nd Symposium on Virus-Host Interactions, New York Academy of Medicine |

AWARDS AND SCHOLARSHIPS

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| 2021 | American Heart Association Predoctoral Fellowship |
| 2017 | Master of Science Best Thesis Award, Icahn School of Medicine at Mount Sinai |
| 2016 | Bikuben Foundation Scholarship |
| 2015 | Fulbright Scholarship – Denmark America Foundation |