



## Florian Wimmers

Postdoctoral Research Fellow, Immunity Transplant Infection

### Bio

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#### PROFESSIONAL EDUCATION

- PhD, Radboud University , Medical Sciences (2017)
- MSc, Radboud University , Molecular Mechanisms of Disease (2013)
- BSc, Heinrich-Heine-University , Biochemistry (2011)

### Publications

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#### PUBLICATIONS

- **Systems biological assessment of immunity to mild versus severe COVID-19 infection in humans.** *Science (New York, N.Y.)*  
Arunachalam, P. S., Wimmers, F., Mok, C. K., Perera, R. A., Scott, M., Hagan, T., Sigal, N., Feng, Y., Bristow, L., Tak-Yin Tsang, O., Wagh, D., Collier, J., Pellegrini, et al  
2020
- **Emerging technologies for systems vaccinology - multi-omics integration and single-cell (epi)genomic profiling.** *Current opinion in immunology*  
Wimmers, F., Pulendran, B.  
2020; 65: 57–64
- **T cell-inducing vaccine durably prevents mucosal SHIV infection even with lower neutralizing antibody titers.** *Nature medicine*  
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2020
- **A Pipette-Tip Based Method for Seeding Cells to Droplet Microfluidic Platforms.** *Journal of visualized experiments : JoVE*  
Sinha, N., Subedi, N., Wimmers, F., Soennichsen, M., Tel, J.  
2019
- **Naturally produced type I IFNs enhance human myeloid dendritic cell maturation and IL-12p70 production and mediate elevated effector functions in innate and adaptive immune cells.** *Cancer immunology, immunotherapy : CII*  
Sköld, A. E., Mathan, T. S., van Beek, J. J., Flórez-Grau, G., van den Beukel, M. D., Sittig, S. P., Wimmers, F., Bakdash, G., Schreibelt, G., de Vries, I. J.  
2018
- **Single-cell analysis reveals that stochasticity and paracrine signaling control interferon-alpha production by plasmacytoid dendritic cells.** *Nature communications*  
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2018; 9 (1): 3317
- **Monitoring of dynamic changes in Keyhole Limpet Hemocyanin (KLH)-specific B cells in KLH-vaccinated cancer patients** *SCIENTIFIC REPORTS*  
Wimmers, F., de Haas, N., Scholzen, A., Schreibelt, G., Simonetti, E., Eleveld, M. J., Brouwers, H. M., Beldhuis-Valkis, M., Joosten, I., de Jonge, M. I., Gerritsen, W. R., de Vries, I. J., Diavatopoulos, et al

2017; 7

- **A membrane-anchored aptamer sensor for probing IFN $\gamma$  secretion by single cells.** *Chemical communications (Cambridge, England)*  
Qiu, L., Wimmers, F., Weiden, J., Heus, H. A., Tel, J., Figdor, C. G.  
2017; 53 (57): 8066–69
- **Opportunities for immunotherapy in microsatellite instable colorectal cancer** *CANCER IMMUNOLOGY IMMUNOTHERAPY*  
Westdorp, H., Fennemann, F. L., Weren, R. D., Bisseling, T. M., Ligtenberg, M. J., Figdor, C. G., Schreiber, G., Hoogerbrugge, N., Wimmers, F., de Vries, I. J.  
2016; 65 (10): 1249-1259
- **Effective Clinical Responses in Metastatic Melanoma Patients after Vaccination with Primary Myeloid Dendritic Cells** *CLINICAL CANCER RESEARCH*  
Schreiber, G., Bol, K. F., Westdorp, H., Wimmers, F., Aarntzen, E. H., Duiveman-de Boer, T., van de Rakt, M. W., Scharenborg, N. M., de Boer, A. J., Pots, J. M., Nordkamp, M. A., van Oorschot, T. G., Tel, et al  
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- **T cell responses in end-stage melanoma patients can be induced by dendritic cell vaccination.** *Oncoimmunology*  
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- **Paradigm shift in dendritic cell-based immunotherapy: from in vitro generated monocyte-derived DCs to naturally circulating DC subsets** *FRONTIERS IN IMMUNOLOGY*  
Wimmers, F. F., Schreiber, G., Skold, A. E., Figdor, C. G., de Vries, I. J.  
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- **Early predictive value of multifunctional skin-infiltrating lymphocytes in anticancer immunotherapy** *ONCOIMMUNOLOGY*  
Wimmers, F., Aarntzen, E. H., Schreiber, G., Jacobs, J. F., Punt, C. J., Figdor, C. G., de Vries, I. J.  
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- **Dendritic Cell Cross Talk with Innate and Innate-like Effector Cells in Antitumor Immunity: Implications for DC Vaccination** *CRITICAL REVIEWS IN IMMUNOLOGY*  
van Beek, J. J., Wimmers, F., Hato, S. V., de Vries, I. J., Skold, A. E.  
2014; 34 (6): 517-536
- **Probing cellular heterogeneity in cytokine-secreting immune cells using droplet-based microfluidics** *LAB ON A CHIP*  
Chokkalingam, V., Tel, J., Wimmers, F., Liu, X., Semenov, S., Thiele, J., Figdor, C. G., Huck, W. T.  
2013; 13 (24): 4740-4744