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Immune modulation and monitoring of cell therapy in inflammatory disorders

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Citation

Suwandi, J. S. (2022, October 18). *Immune modulation and monitoring of cell therapy in inflammatory disorders*. Retrieved from <https://hdl.handle.net/1887/3480350>

Version: Publisher's Version

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List of publications

Rodriguez-Calvo T.; **Suwandi J. S.**; Amirian N.; Zapardiel-Gonzalo J.; Anquetil F.; Sabouri S.; von Herrath M.G., Heterogeneity and lobularity of pancreatic pathology in type 1 diabetes during the prediabetic phase.

Journal of Histochemistry & Cytochemistry 2015, 63, (8), 626–636

Suwandi J.S.; Toes R.E.M.; Nikolic T.; Roep B.O., Inducing tissue specific tolerance in autoimmune disease with tolerogenic dendritic cells.

Clinical and Experimental Rheumatology 2015, (Suppl. 92), S97-S103

van der Torren C.R.; **Suwandi J.S.**; Lee D., Van't Wout E.T.; Duinkerken G.; Swings G.; Mulder A.; Claas F.H.; Ling Z.; Gillard P.; Keymeulen B.; In't Veld P.; Roep B.O., Identification of donor origin and condition of transplanted islets in situ in the liver of a type 1 diabetic recipient.

Cell Transplant 2017, 26, (1), 1-9

Suwandi J.S.; Nikolic T.; Roep B.O., Translating mechanism of regulatory action of tolerogenic dendritic cells to monitoring endpoints in clinical trials.

Frontiers in Immunology 2017, 8, 1598

Suwandi J.S.*; Laban S.*; van Unen V.; Pool J.; Wesselius J.; Höllt T.; Pezzotti N.; Vilanova A.; Lelieveldt B.P.F.; Roep B.O., Heterogeneity of circulating CD8 T-cells specific to islet, neo-antigen and virus in patients with type 1 diabetes mellitus. *Shared first authorship.

PLoS ONE 2018, 13, (8), e0200818

Suwandi J.S.*; Laban S.*; Vass K.; Joosten A.; van Unen V.; Lelieveldt B.P.F.; Höllt T.; Zwaginga J.J.; Nikolic T.; Roep B.O., Multidimensional analyses of proinsulin peptide-specific regulatory T cells induced by tolerogenic dendritic cells. *Shared first authorship.

Journal of Autoimmunity 2019, 107, 102361

Opstelten R.; **Suwandi J.S.**; Slot M.C.; Laban S.; Nikolic T.; Turksma A.W.; Kroeze A.; Voermans C.; Zwaginga J.J.; Roep B.O.; Amsen D., Shared GPA33 expression by human peripheral leukocyte subsets.

European Journal of immunology 2021, 51, (6), 1377-1389

Suwandi J.S.*; van Halteren A.G.S.*; Tuit S.; Borst J.; Laban S.; Tsonaka R.; Struijk A; Wiekmeijer A.S.; van Pel M.; Roep B.O.; Zwaginga J.J.; Lankester A.C.; Schepers K; van Tol M.J.D.; Fibbe W.E., A unique immune signature distinguishes therapy-refractory from therapy-responsive acute graft-versus-host disease. *Shared first authorship.

Blood, accepted for publication 2022

Acknowledgements

During the course of my PhD trajectory, I have met and received help from a lot of wonderful people around me. In this section I would like to address all of you that helped me in the journey of making this thesis.

Thank you 'Groepies', for all the fun in the office and the lab. Sandra, your guidance and experience at the start of my PhD has been invaluable. Thank you for teaching me how to work in the lab and introducing me to the CyTOF. Nicky, thank you for your company as my fellow PhD buddy, you were always there for a chat and a coffee break. Thank you, Antoinette, for your cheerfulness, your positivity is very encouraging. Joris, thank you for all the 'know hows' around the lab, I would have been lost without! Arno, thank you for your personal lessons in scientific presentations, they have really helped me. Tanja, thank you for your guidance, your knowledge has really helped my understanding about immunology. Arnaud, thank you for the good coffees, for always listening and giving your input from the other side (literally and figuratively). Sofia, thank you for our breaks on the other side, it was sad we could not go to China together... Jelske, your hard work and determination for the CyTOF has helped me immensely. Esther, thank you for processing my endless orders. Also, the students in our group, especially Nicole and Laura, thank you for your help! Teresa, Cornelis and Martijn, thank you for your guidance in the beginning of my research journey.

To the CyTOF users group Juliette, Anita, Marion, Lina, Vincent, Sanne, Tessa, Nannan, Marieke and Laura; thank you for your support and making me feel I'm not suffering alone with the CyTOF. Special thanks to Guillaume, for our coffee breaks, nice concerts and all your help with my programming struggles in R... To the FlowCore; especially Marjolein, Simone, Guido and Deborah – thank you for helping us revive the CyTOF when necessary. Thank you, Thomas, for your advice on data analysis/visualization and also the newest updates of Cytosplore.

Koen (Schepers), thank you for recruiting me for the MSC project. This project has taught me a lot and gave me new perspectives. Astrid, thank you for your guidance and persistence, this was key for bringing all our work together. Wim and Maarten, thank you for your support during this last project, it was a pleasure working with you and your expertise was invaluable. Koen (Stam) and Roula, thank you for your help with the statistical analysis.

Jaap-Jan, thank you for your guidance and giving your perspectives from a clinical point of view. Your support for all my projects has really motivated me.

Bart, thank you for giving me the opportunity to do research. Your trust and encouragement have given me the confidence to complete this thesis.

To my dear friends, thank you for being there for me and spending time with me to escape from all the daily work. Thank you, Armand, my big brother, for showing interest in my PhD and making a beautiful cover design. To Uli, thank you for your love, support and encouraging me to work toward my dreams. And lastly, mam and pap, thank you for raising me and for your unconditional support and trust in me.

Curriculum Vitae

Jessica Sabrina Suwandi was born on the 22nd of April 1992 in Jakarta, Indonesia. In 1998, she moved to the Netherlands with her parents and brother where she continued her life and education. In 2010, she graduated cum laude from Stanislas college in Delft and started studying Medicine at the University of Leiden. During her study, she was taking part in the MD-PhD trajectory for excellent students and joined the type 1 diabetes group from prof. Roep at the department of Immunohematology and Blood Transfusion. She did an internship at the La Jolla Institute for Allergy and Immunology with dr. Rodriguez-Calvo at the diabetes lab of prof. von Herrath, which resulted in her first scientific publication. After obtaining her master's degree in 2010, Jessica started her full-time PhD studies with prof. Zwaginga and prof. Roep as promotor and completed the research presented in this thesis. After finishing her PhD studies, she worked in the Internal Medicine department at the HagaZiekenhuis in the Hague. Currently, Jessica is working at the Eye Hospital in Rotterdam to pursue a clinical specialization in Ophthalmology.