Cytokine-mediated regulation of immunity during persistent viral infection

Pratumchai, I.

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Curriculum Vitae

The author of this thesis, Isaraphorn Pratumchai was born on the 14th of April 1987 in Khon Kaen, Thailand. She graduated with a Bachelor of Science (B.Sc.) in Liberal Arts and Sciences from University College Utrecht in 2011. She gained her undergraduate research experience through working in the laboratory of Dr.Mariet Feltkamp at Leiden University Medical center (LUMC). She started her master's program in Biomedical Sciences at the LUMC in 2012. In 2013, she joined the laboratory of Professor Niels de Wind and worked under the supervision of Dr.Jaap Jansen to investigate the role of different sets of translesion synthesis DNA polymerases in the cellular response to DNA damage. In 2014, she received fundings from both the LUMC and the European commission to carry out a research project in the laboratory of Professor Xin Lu at the Ludwig Institute for Cancer Research, Nuffield Department of Medicine, University of Oxford where she investigated the role of missense mutations in cancer and neural tube closure defects. She obtained her M.Sc. in 2014 and joined the Teijaro laboratory at Scripps Research as a PhD candidate from the LUMC in 2016. Under the supervision of Professor Sjaak Neefjes, Professor Ramon Arens and Professor John Teijaro, she studied the role of IL-27 and IFN-I during T cell exhaustion. Following her graduation, she will return to the Teijaro lab as a postdoctoral associate to work on the revision of her unpublished paper.

List of publication

1. Huang Z*, Zak J*, **Pratumchai I*,** Shaabani N, Vartabedian VF, Nguyen N, Wu T, Xiao C, Teijaro JR. IL-27 *promotes the expansion of self-renewing CD8$^+$ T cells in persistent viral infection*. **J Exp Med**. 2019,216(6).
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2. Zak J*, **Pratumchai I*,** Marro BS*, Huang Z, Zavareh RB, Lairson LL, Oldstone MBA, Bachanova V, Teijaro. *JAK inhibition reshapes the T cell exhaustion state to enhance checkpoint blockade therapy.* (Manuscript under revision)
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3. Sydney C Morgan, Ph.D.; Stefan Aigner; Catelyn Anderson; Pedro Belda-Ferre; Peter De Hoff; Clarisse A Marotz; Shashank Sathe; Mark Zeller; Noorsher Ahmed; Xaver Audhya; Nathan A Baer; Tom Barber; Bethany Barrick; Lakshmi Batachari; Maryann Betty; Steven M Blue; Brent Brainard; Tyler Buckley; Jamie Case; Anelizze Castro-Martinez; Marisol Chacón; Willi Cheung; LaVonnye Chong; Nicole G Coufal; Evelyn S Crescini; Scott DeGrand; David P Dimmock; J Joelle Donofrio-Odmann; Emily R Eisner; Mehrbod Estaki; Lizbeth Franco Vargas; Michelle Freddock; Robert M Gallant; Andrea Galmozzi; Nina J Gao; Sheldon Gilmer; Edyta M Grzelak; Abbas Hakim; Jonathan Hart; Charlotte Hobbs; Greg Humphrey; Nadja Ilkenhans; Marni Jacobs; Christopher A Kahn; Bhavika K Kapadia; Matthew Kim; Sunil Kurian; Alma L Lastrella; Elijah S Lawrence; Kari Lee; Qishan Liang; Hanna Liliom; Valentina Lo Sardo; Robert Logan; Michal Machnicki; Celestine G Magallanes; Clarence K Mah; Denise Malacki; Ryan J Marina; Christopher Marsh; Natasha K Martin; Nathaniel L Matteson; Daniel J Maunder; Kyle McBride; Bryan McDonald; Michelle McGraw; Audra R Meadows; Michelle Meyer; Amber L Morey; Jasmine R Mueller; Toan T Ngo; Julie Nguyen; Viet Nguyen; Laura J Nicholson; Alhakam Nouri; Victoria Nudell; Eugenio Nunez; Kyle O'Neill; R Tyler Ostrander; Priyadarshini Pantham; Samuel S Park; David Picone; Ashley Plascencia; **Isaraphorn Pratumchai;** Michael Quigley; Michelle Franc Ragsac; Andrew C Richardson; Refugio Robles-Sikisaka; Christopher A Ruiz; Justin Ryan; Lisa Sacco; Sharada Saraf; Phoebe Seaver; Leigh Sewall; Elizabeth W Smoot; Kathleen M Sweeney; Chandana Tekkatte; Rebecca Tsai; Holly Valentine; Shawn Walsh; August Williams; Min Yi Wu; Bing Xia; Brian Yee; Jason Z Zhang; Kristian G Andersen; Lauge Farnaes; Rob Knight; Gene W Yeo; Louise C Laurent. *Automated, miniaturized, and scalable screening of healthcare workers, first responders, and students for SARS-CoV-2 in San Diego County.* (Manuscript in preparation)

4. **Pratumchai I**, Zak J, Huang Z, Min B, Oldstone MBA, Teijaro JR. *B cell-derived IL-27 promotes control of persistent LCMV infection*. **Proc Natl Acad Sci U S A**. 2022;119(3)