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Key publications

Year of publication 2019

François Legoux, Jules Gilet, Emanuele Procopio, Klara Echasserieau, Karine Bernardeau, Olivier Lantz (2019 Aug 22)

Molecular mechanisms of lineage decisions in metabolite-specific T cells.

Nature immunology : 1244-1255 : [DOI : 10.1038/s41590-019-0465-3](https://doi.org/10.1038/s41590-019-0465-3)

Olivier Lantz, François Legoux (2019 May 30)

MAIT cells: programmed in the thymus to mediate immunity within tissues.

Current opinion in immunology : 75-82 : [DOI : S0952-7915\(18\)30079-7](https://doi.org/10.1016/S0952-7915(18)30079-7)

Year of publication 2018

Marion Salou, François Legoux, Jules Gilet, Aurélie Darbois, Anastasia du Halgouet, Ruby Alonso, Wilfrid Richer, Anne-Gaëlle Goubet, Céline Daviaud, Laurie Menger, Emanuele Procopio, Virginie Premel, Olivier Lantz (2018 Dec 7)

A common transcriptomic program acquired in the thymus defines tissue residency of MAIT and NKT subsets.

The Journal of experimental medicine : 133-151 : [DOI : 10.1084/jem.20181483](https://doi.org/10.1084/jem.20181483)

Ruby Alonso, Héloïse Flament, Sébastien Lemoine, Christine Sedlik, Emanuel Bottasso, Isabel Péguillet, Virginie Prémel, Jordan Denizeau, Marion Salou, Aurélie Darbois, Nicolás Gonzalo Núñez, Benoit Salomon, David Gross, Eliane Piaggio, Olivier Lantz (2018 May 31)

Induction of anergic or regulatory tumor-specific CD4 T cells in the tumor-

draining lymph node.

Nature communications : 2113 : [DOI : 10.1038/s41467-018-04524-x](https://doi.org/10.1038/s41467-018-04524-x)

Year of publication 2016

Katarzyna Franciszekiewicz, Marion Salou, Francois Legoux, Qian Zhou, Yue Cui, Stéphanie Bessoles, Olivier Lantz (2016 Jun 21)

MHC class I-related molecule, MR1, and mucosal-associated invariant T cells.

Immunological reviews : 120-38 : [DOI : 10.1111/imr.12423](https://doi.org/10.1111/imr.12423)

Pierre Boudinot, Stanislas Mondot, Luc Jouneau, Luc Teyton, Marie-Paule Lefranc, Olivier Lantz (2016 May 13)

Restricting nonclassical MHC genes coevolve with TRAV genes used by innate-like T cells in mammals.

Proceedings of the National Academy of Sciences of the United States of America : E2983-92 : [DOI : 10.1073/pnas.1600674113](https://doi.org/10.1073/pnas.1600674113)

Year of publication 2015

Yue Cui, Katarzyna Franciszekiewicz, Yvonne K Mburu, Stanislas Mondot, Lionel Le Bourhis, Virginie Premel, Emmanuel Martin, Alexandra Kachaner, Livine Duban, Molly A Ingersoll, Sylvie Rabot, Jean Jaubert, Jean-Pierre De Villartay, Claire Soudais, Olivier Lantz (2015 Nov 3)

Mucosal-associated invariant T cell-rich congenic mouse strain allows functional evaluation.

The Journal of clinical investigation : 4171-85 : [DOI : 10.1172/JCI82424](https://doi.org/10.1172/JCI82424)

Year of publication 2014

Isabelle Péguillet, Maud Milder, Delphine Louis, Anne Vincent-Salomon, Thierry Dorval, Sophie Piperno-Neumann, Suzy M Scholl, Olivier Lantz (2014 Feb 17)

High numbers of differentiated effector CD4 T cells are found in patients with cancer and correlate with clinical response after neoadjuvant therapy of breast cancer.

Cancer research : 2204-16 : [DOI : 10.1158/0008-5472.CAN-13-2269](https://doi.org/10.1158/0008-5472.CAN-13-2269)

Year of publication 2010

Mathilde Dusseaux, Emmanuel Martin, Nacer Serriari, Isabelle Péguillet, Virginie Premel, Delphine Louis, Maud Milder, Lionel Le Bourhis, Claire Soudais, Emmanuel Treiner, Olivier Lantz (2010 Nov 17)

Human MAIT cells are xenobiotic-resistant, tissue-targeted, CD161hi IL-17-secreting T cells.

Blood : 1250-9 : [DOI : 10.1182/blood-2010-08-303339](https://doi.org/10.1182/blood-2010-08-303339)

Lionel Le Bourhis, Emmanuel Martin, Isabelle Péguillet, Amélie Guihot, Nathalie Froux, Maxime Coré, Eva Lévy, Mathilde Dusseaux, Vanina Meyssonier, Virginie Premel, Charlotte Ngo, Béatrice Riteau, Livine Duban, Delphine Robert, Shouxiong Huang, Martin Rottman, Claire Soudais, Olivier Lantz (2010 Mar 25)

Antimicrobial activity of mucosal-associated invariant T cells.

Nature immunology : 701-8 : [DOI : 10.1038/ni.1890](https://doi.org/10.1038/ni.1890)

Year of publication 2003

Emmanuel Treiner, Livine Duban, Seiamak Bahram, Mirjana Radosavljevic, Valerie Wanner, Florence Tilloy, Pierre Affaticati, Susan Gilfillan, Olivier Lantz (2003 Mar 14)

Selection of evolutionarily conserved mucosal-associated invariant T cells by MR1.

Nature : 164-9