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Publications clés

Année de publication : 2020

A J Lomakin, C J Cattin, D Cuvelier, Z Alraies, M Molina, G P F Nader, N Srivastava, P J Sáez, J M Garcia-Arcos, I Y Zhitnyak, A Bhargava, M K Driscoll, E S Welf, R Fiolka, R J Petrie, N S De Silva, J M González-Granado, N Manel, A M Lennon-Duménil, D J Müller, M Piel (2020 Oct 16)

The nucleus acts as a ruler tailoring cell responses to spatial constraints.

Science (New York, N.Y.) : [DOI : eaba2894](https://doi.org/10.1126/science.1250000)

Aleksandra S Chikina, Francesca Nadalin, Mathieu Maurin, Mabel San-Roman, Thibault Thomas-Bonafos, Xin V Li, Sonia Lameiras, Sylvain Baulande, Sandrine Henri, Bernard Malissen, Livia Lacerda Mariano, Jorge Barbazan, J Magarian Blander, Iliyan D Iliev, Danijela Matic Vignjevic, Ana-Maria Lennon-Duménil (2020 Sep 24)

Macrophages Maintain Epithelium Integrity by Limiting Fungal Product Absorption.

Cell : 411-428.e16 : [DOI : S0092-8674\(20\)31090-4](https://doi.org/10.1016/j.cell.2020.09.014)

Année de publication : 2019

Anita Kumari, Judith Pineau, Pablo J Sáez, Mathieu Maurin, Danielle Lankar, Mabel San Roman, Katharina Hennig, Vanessa F Boura, Raphael Voituriez, Mikael C I Karlsson, Martial Balland, Ana-Maria Lennon Dumenil, Paolo Pierobon (2019 Jun 30)

Actomyosin-driven force patterning controls endocytosis at the immune synapse.

Nature communications : 2870 : [DOI : 10.1038/s41467-019-10751-7](https://doi.org/10.1038/s41467-019-10751-7)

Hélène D Moreau, Carles Blanch-Mercader, Rafaele Attia, Mathieu Maurin, Zahraa Alraies,

Dynamique spatio-temporelle des cellules du système immunitaire

Doriane Sanséau, Odile Malbec, Maria-Graciela Delgado, Philippe Bousso, Jean-François Joanny, Raphaël Voituriez, Matthieu Piel, Ana-Maria Lennon-Duménil (2019 Apr 16)

Macropinocytosis Overcomes Directional Bias in Dendritic Cells Due to Hydraulic Resistance and Facilitates Space Exploration.

Developmental cell : 171-188.e5 : [DOI : S1534-5807\(19\)30235-7](https://doi.org/10.1016/j.devcel.2019.04.016)

Année de publication : 2018

Dorian Obino, Luc Fetler, Andrea Soza, Odile Malbec, Juan José Saez, Mariana Labarca, Claudia Oyanadel, Felipe Del Valle Batalla, Nicolas Goles, Aleksandra Chikina, Danielle Lankar, Fabián Segovia-Miranda, Camille Garcia, Thibaut Léger, Alfonso Gonzalez, Marion Espéli, Ana-Maria Lennon-Duménil, Maria-Isabel Yuseff (2018 Dec 13)

Galectin-8 Favors the Presentation of Surface-Tethered Antigens by Stabilizing the B Cell Immune Synapse.

Cell reports : 3110-3122.e6 : [DOI : S2211-1247\(18\)31815-1](https://doi.org/10.1016/j.celrep.2018.11.031)

Année de publication : 2017

Marine Bretou, Pablo J Sáez, Doriane Sanséau, Mathieu Maurin, Danielle Lankar, Melanie Chabaud, Carmine Spampanato, Odile Malbec, Lucie Barbier, Shmuel Muallem, Paolo Maiuri, Andrea Ballabio, Julie Helft, Matthieu Piel, Pablo Vargas, Ana-Maria Lennon-Duménil (2017 Oct 29)

Lysosome signaling controls the migration of dendritic cells.

Science immunology : [DOI : eaak9573](https://doi.org/10.1126/sciimmunol.aad9573)

Année de publication : 2016

M Raab, M Gentili, H de Belly, H R Thiam, P Vargas, A J Jimenez, F Lautenschlaeger, Raphaël Voituriez, A M Lennon-Duménil, N Manel, M Piel (2016 Apr 15)

ESCRT III repairs nuclear envelope ruptures during cell migration to limit DNA damage and cell death

Science (New York, N.Y.) : [DOI : 10.1126/science.aad7611](https://doi.org/10.1126/science.aad7611)

Dorian Obino, Francesca Farina, Odile Malbec, Pablo J Sáez, Mathieu Maurin, Jérémie Gaillard, Florent Dingli, Damarys Loew, Alexis Gautreau, Maria-Isabel Yuseff, Laurent Blanchoin, Manuel Théry, Ana-Maria Lennon-Duménil (2016 Mar 19)

Actin nucleation at the centrosome controls lymphocyte polarity

Nature communications : 10969 : [DOI : 10.1038/ncomms10969](https://doi.org/10.1038/ncomms10969)

Hawa-Racine Thiam, Pablo Vargas, Nicolas Carpi, Carolina Lage Crespo, Matthew Raab, Emmanuel Terriac, Megan C King, Jordan Jacobelli, Arthur S Alberts, Theresia Stradal, Ana-Maria Lennon-Duménil, Matthieu Piel (2016 Mar 16)

Dynamique spatio-temporelle des cellules du système immunitaire**Perinuclear Arp2/3-driven actin polymerization enables nuclear deformation to facilitate cell migration through complex environments.**

Nature communications : 10997 : [DOI : 10.1038/ncomms10997](https://doi.org/10.1038/ncomms10997)

Année de publication : 2015

Pablo Vargas, Paolo Maiuri, Marine Bretou, Pablo J Sáez, Paolo Pierobon, Mathieu Maurin, Mélanie Chabaud, Danielle Lankar, Dorian Obino, Emmanuel Terriac, Matthew Raab, Hawa-Racine Thiam, Thomas Brocker, Susan M Kitchen-Goosen, Arthur S Alberts, Praveen Sunareni, Sheng Xia, Rong Li, Raphael Voituriez, Matthieu Piel, Ana-Maria Lennon-Duménil (2015 Dec 8)

Innate control of actin nucleation determines two distinct migration behaviours in dendritic cells

Nature cell biology : 43-53 : [DOI : 10.1038/ncb3284](https://doi.org/10.1038/ncb3284)

Mélanie Chabaud, Mélina L Heuzé, Marine Bretou, Pablo Vargas, Paolo Maiuri, Paola Solanes, Mathieu Maurin, Emmanuel Terriac, Maël Le Berre, Danielle Lankar, Tristan Piolot, Robert S Adelstein, Yingfan Zhang, Michael Sixt, Jordan Jacobelli, Olivier Bénichou, Raphaël Voituriez, Matthieu Piel, Ana-Maria Lennon-Duménil (2015 Aug 15)

Cell migration and antigen capture are antagonistic processes coupled by myosin II in dendritic cells

Nature communications : 8122 : [DOI : 10.1038/ncomms8526](https://doi.org/10.1038/ncomms8526)

Paolo Maiuri, Jean-François Rupprecht, Stefan Wieser, Verena Ruprecht, Olivier Bénichou, Nicolas Carpi, Mathieu Coppey, Simon De Beco, Nir Gov, Carl-Philipp Heisenberg, Carolina Lage Crespo, Franziska Lautenschlaeger, Maël Le Berre, Ana-Maria Lennon-Duménil, Matthew Raab, Hawa-Racine Thiam, Matthieu Piel, Michael Sixt, Raphaël Voituriez (2015 Apr 9)

Actin flows mediate a universal coupling between cell speed and cell persistence.

Cell : 374-86 : [DOI : 10.1016/j.cell.2015.01.056](https://doi.org/10.1016/j.cell.2015.01.056)

Année de publication : 2010

Maria-Isabel Yuseff, Anne Reversat, Danielle Lankar, Jheimmy Diaz, Isabelle Fanget, Paolo Pierobon, Violaine Randrian, Nathanael Larochette, Fulvia Vascotto, Chantal Desdouets, Bertrand Jauffred, Yohanns Bellaiche, Stéphane Gasman, François Darchen, Claire Desnos, Ana-Maria Lennon-Duménil (2010 Mar 11)

Polarized secretion of lysosomes at the B cell synapse couples antigen extraction to processing and presentation.

Immunity : 361-74 : [DOI : 10.1016/j.immuni.2011.07.008](https://doi.org/10.1016/j.immuni.2011.07.008)



Membres de l'équipe

Dynamique spatio-temporelle des cellules du système immunitaire

Année de publication : 2002

Edda Fiebiger, René Maehr, José Villadangos, Ekkehard Weber, Ann Erickson, Elizabeth Bikoff, Hidde L Ploegh, Ana-Maria Lennon-Duménil (2002 Nov 6)

Invariant chain controls the activity of extracellular cathepsin L.

The Journal of experimental medicine : 1263-9