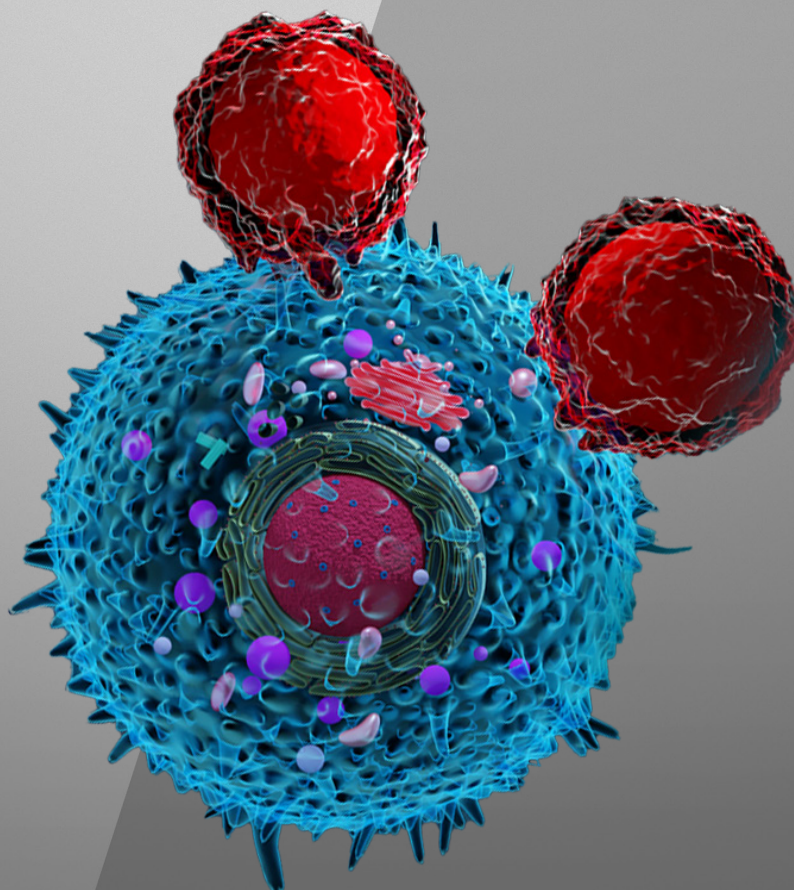
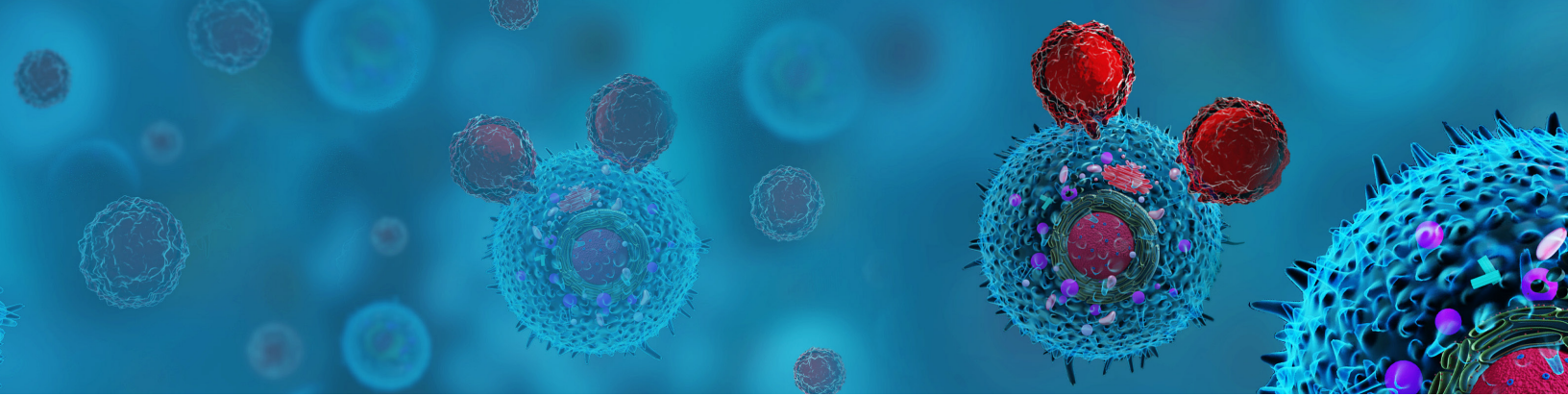


Immunopeptidomics

Orbitrap Eclipse Tribrid MS literature list





Cellular senescence is immunogenic and promotes antitumor immunity

Ines Marin, Olga Boix, Andrea Garcia-Garijo, Isabelle Sirois, Adrià Caballe, Eduardo Zarzuela, Irene Ruano, Camille Stephan-Otto Attolini, Neus Prats, José A López-Domínguez, Marta Kovatcheva, Elena Garralda, Javier Muñoz, Etienne Caron, María Abad, Alena Gros, Federico Pietrocola, and Manuel Serrano

Cancer Discov. 2023 Feb 6;13(2):410-431

<https://aacrjournals.org/cancerdiscovery/article/13/2/410/716304/Cellular-Senescence-Is-Immunogenic-and-Promotes>

Systematic discovery of neoepitope–HLA pairs for neoantigens shared among patients and tumor types

Hem R. Gurung, Amy J. Heidersbach, Martine Darwish, Pamela Pui Fung Chan, Jenny Li, Maureen Beresini, Oliver A. Zill, Andrew Wallace, Ann-Jay Tong, Dan Hascall, Eric Torres, Andy Chang, Kenny ‘Hei-Wai’ Lou, Yassan Abdolazimi, Christian Hammer, Ana Xavier-Magalhães, Ana Marcu, Samir Vaidya, Daniel D. Le, Ilseyar Akhmetzyanova, Soyoun A. Oh, Amanda J. Moore, Uzodinma N. Uche, Melanie B. Laur, Richard J. Notturmo, Peter J. R. Ebert, Craig Blanchette, Benjamin Haley, and Christopher M. Rose

Nat Biotechnol. 2023 Oct 19

<https://www.nature.com/articles/s41587-023-01945-y>

Optimization of a high-throughput shotgun immunoproteomics pipeline for antigen identification

Nicholas A. Shortreed, Anjali J. Panicker, Kiran K. Mangalparthi, Jun Zhong, Akhilesh Pandey, and Leigh G. Griffiths

J Proteomics. 2023 Jun 15:281:104906

<https://www.sciencedirect.com/science/article/pii/S1874391923000957>

Digging deeper into the immunopeptidome: characterization of post-translationally modified peptides presented by MHC I

Kiran K. Mangalparthi, Anil K. Madugundu, Zachary C. Ryan, Kishore Garapati, Jane A. Peterson, Gourav Dey, Amol Prakash, and Akhilesh Pandey

J Proteins Proteom. 2021;12(3):151-160

<https://link.springer.com/article/10.1007/s42485-021-00066-x>

Identification and Mitigation of Defensins in the Immunopurification of Peptide MHC-I Antigens from Lung Tissue

David T. Chow and Matthew J. Rardin

J Am Soc Mass Spectrom. 2022 Sep 7;33(9):1590-1597

<https://pubs.acs.org/doi/10.1021/jasms.1c00024>

Exploring the Immunogenicity of Noncanonical HLA-I Tumor Ligands Identified through Proteogenomics

Maria Lozano-Rabella, Andrea Garcia-Garijo, Jara Palomero, Anna Yuste-Estevanez, Florian Erhard, Roc Farriol-Duran, Juan Martín-Liberal, Maria Ochoa-de-Olza, Ignacio Matos, Jared J. Gartner, Michael Ghosh, Francesc Canals, August Vidal, Josep Maria Piulats, Xavier Matias-Guiu, Irene Brana, Eva Muñoz-Couselo, Elena Garralda, Andreas Schlosser, and Alena Gros

Clin Cancer Res. 2023 Jun 13;29(12):2250-2265

<https://aacrjournals.org/clincancerres/article/29/12/2250/727077/Exploring-the-Immunogenicity-of-Noncanonical-HLA-I>

Immuno-peptidome of hepatocytes isolated from patients with HBV infection and hepatocellular carcinoma

Monique T A de Beijer, Karel Bezstarosti, Robbie Luijten, Wouter A S Doff, Patrick P C Boor, Roel F A Pieterman, Rachid Bouzid, Paula J Biesta, Jan N M Ijzermans, Michail Doukas, Robert A de Man, Andrea M Woltman, Jeroen A A Demmers, and Sonja I Buschow

JHEP Rep. 2022 Sep 5;4(11):100576

[https://www.jhep-reports.eu/article/S2589-5559\(22\)00148-3/fulltext](https://www.jhep-reports.eu/article/S2589-5559(22)00148-3/fulltext)

Noncanonical splicing junctions between exons and transposable elements represent a source of immunogenic recurrent neo-antigens in patients with lung cancer

Antonela Merlotti, Benjamin Sadacca, Yago A Arribas, Mercia Ngoma, Marianne Burbage, Christel Goudot, Alexandre Houy, Ares Rocañín-Arjón, Ana Lalanne, Agathe Seguin-Givelet, Marine Lefevre, Sandrine Heurtebise-Chrétien, Blandine Baudon, Giacomo Oliveira, Damarys Loew, Montserrat Carrascal, Catherine J Wu, Olivier Lantz, Marc-Henri Stern, Nicolas Girard, Joshua J Waterfall, and Sebastian Amigorena

Sci Immunol. 2023 Feb 3;8(80):eabm6359

<https://www.science.org/doi/10.1126/sciimmunol.abm6359>

Proteomic discovery of chemical probes that perturb protein complexes in human cells

Michael R. Lazear, Jarrett R. Remsburg, Martin G. Jaeger, Katherine Rothamel, Hsuan-lin Her, Kristen E. DeMeester, Evert Njomen, Simon J. Hogg, Jahan Rahman, Landon R. Whitby, Sang Joon Won, Michael A. Schafroth, Daisuke Ogasawara, Minoru Yokoyama, Garrett L. Lindsey, Haoxin Li, Jason Germain, Sabrina Barbas, Joan Vaughan, Thomas W. Hanigan, Vincent F. Vartabedian, Christopher J. Reinhardt, Melissa M. Dix, Seong Joo Koo, Inha Heo, John R. Tejjaro, Gabriel M. Simon, Brahma Ghosh, Omar Abdel-Wahab, Kay Ahn, Alan Saghatelian, Bruno Melillo, Stuart L. Schreiber, Gene W. Yeo, and Benjamin F. Cravatt

Mol Cell. 2023 May 18;83(10):1725-1742.e12

<https://www.sciencedirect.com/science/article/abs/pii/S1097276523002393>

Find out more at thermofisher.com/immuno-peptidomics