

January 9, 2023

TCR-mimic bispecific antibodies to target the HIV-1 reservoir. Srona Senguptaa, Nathan L. Boarda, Fengting Wua, Milica Moskovljevic, Jacqueline Douglassc, Josephine Zhanga, Bruce R. Reinholde, Jonathan Duke-Cohane, Jeanna Yua, Madison C. Reeda, Yasmine Tabdilia, Aitana Azurmendih, Emily J. Fraya , Hao Zhang, Emily Han-Chung Hsiuec, Katharine Jenikea, Ya-Chi Hoj, Sandra B. Gabellih , Kenneth W. Kinzlerc, Bert Vogelsteinc, Shibin Zhouc, Janet D. Silicianoa, Scheherazade Sadegh-Nasserib, Ellis L. Reinherze,f, and Robert F. Silicianoa, PNAS VOL. 119 15, 2022, <https://doi.org/10.1073/pnas.2123406119>

Presenter: Cristina Vaca

January 30, 2023

Pharmacologic hyperstabilisation of the HIV-1 capsid lattice induces capsid failure. K. M. Rifat Faysal, Nadine Renner, L. Márquez, Vaibhav B. Shah, Andrew J. Tuckwell, Michelle P. Christie, Michael W. Parker, Stuart G. Turville, Greg J. Towers, Leo James, David A. Jacques, Till Böcking, bioRxiv 2022.09.21.508807; <https://doi.org/10.1101/2022.09.21.508807>

Presenter: Muhammad Anwar Siddique

February 6, 2023

Increased IL-6 expression precedes reliable viral detection in the rhesus macaque brain during acute SIV infection.

Raja Mohan Gopalakrishnan, Malika Ai, Noe B. Mercado, Caitlin Davis, Shaily Malik, Emma Geiger, Valerie Varner, Rhianna Jones, Steven E. Bosinger, Cesar Piedra-Mora, Amanda J. Martinot, Dan H. Barouch, R. Keith Reeves, and C. Sabrina Tan, JCI Insight. 2021;6(20):e152013. <https://doi.org/10.1172/jci.insight.152013>

Presenter: Muhammad Shoab Arif

February 27, 2023

HIV silencing and cell survival signatures in infected T cell reservoirs.

Iain C. Clark, Prakriti Mudvari, Shravan Thaploo, Samuel Smith, Mohammad Abu-Laban, Mehdi Hamouda, Marc Theberge, Sakshi Shah, Sung Hee Ko, Liliana Pérez, Daniel G. Bunis, James S. Lee, Divya Kilam, Saami Zakaria, Sally Choi, Samuel Darko, Amy R. Henry, Michael A. Wheeler, Rebecca Hoh, Salwan Butrus, Steven G. Deeks, Francisco J. Quintana, Daniel C. Douek, Adam R. Abate & Eli A. Boritz, Nature volume 614, pages318–325 (2023) <https://doi.org/10.1038/s41586-022-05556-6>

Presenter: Katherine Jackson-Jones

March 13, 2023

A molecular switch modulates assembly and host factor binding of the HIV-1 capsid.

Randall T. Schirra, Nayara F. B. dos Santos, Kaneil K. Zadrozny, Iga Kucharska, Barbie K. Ganser-Pornillos & Owen Pornillos, Nat Struct Mol Biol (2023) <https://doi.org/10.1038/s41594-022-00913-5>

Presenter: Daphne Cornish

March 27, 2023

mRNA vaccines induce rapid antibody responses in mice.

Makda S. Gebre, Susanne Rauch, Nicole Roth, Janina Gergen, Jingyou Yu, Xiaowen Liu, Andrew C. Cole, Stefan O. Mueller, Benjamin Petsch and Dan H. Barouch, npj Vaccines (2022) 7:88 ; <https://doi.org/10.1038/s41541-022-00511-y>

Presenter: Mohammed Abdullahel Amin

April 10, 2023

CD8+ lymphocytes do not impact SIV reservoir establishment under ART.

Maura Statzu, Wang Jin, Emily J. Fray, Andrew Kam Ho Wong, Mithra R. Kumar, Elizabeth Ferrer, Steffen S. Docken, Mykola Pinkevych, Julia B. McBrien, Christine M. Fennessey, Brandon F. Keele, Shan Liang, Justin L. Harper, Simona Mutascio, Lavinia Franchitti, Hong Wang, Davide Cicetti, Steven E. Bosinger, Diane G. Carnathan, Thomas H. Vanderford, David M. Margolis, J. Victor Garcia-Martinez, Ann Chahroudi, Mirko Paiardini, Janet Siliciano, Miles P. Davenport, Deanna A. Kulpa , Robert S. Siliciano & Guido Silvestri, Nature Microbiology (2023) VOL 8, 299–308; <https://doi.org/10.1038/s41564-022-01311-9>

Presenter: Mohammad Haque

May 15, 2023

Enhancing HIV-1 latency reversal through regulating the elongating RNA Pol II pause-release by a smallmolecule disruptor of PAF1C.

Shimaa H. A. Soliman, William J. Cisneros, Marta Iwanaszko, Yuki Aoi, Sheetal Ganesan, Miriam Walter, Jacob M. Zeidner, Rama K. Mishra, Eun-Young Kim, Steven M. Wolinsky, Judd F. Hultquist, Ali Shilatifard, Science Advance (2023) VOL 9; <https://doi.org/10.1126/sciadv.adf2468>

Presenter: Kameron Walker

June 12, 2023

HIV rapidly targets a diverse pool of CD4+ T cells to establish productive and latent infections.

Pierre Gantner, Supranee Buranapraditkun, Amélie Pagliuzza, Caroline Dufour, Marion Pardons, Julie L. Mitchell, Eugène Kroon, Carlo Sacdalan, Nicha Tulmethakaan, Suteeraporn Pinyakorn, Merlin L. Robb, Nittaya Phanuphak, Jintanat Ananworanich, Denise Hsu, Sandhya Vasani, Lydie Trautmann, Rémi Fromentin, Nicolas Chomont. *Cell Host & Microbe*, Volume 31, Issue 4, 12 April 2023, Pages 571-573 <https://doi.org/10.1016/j.immuni.2023.01.030>

Presenter: Eun-Young Kim

September 25, 2023

Brain microglia serve as a persistent HIV reservoir despite durable antiretroviral therapy.

Yuyang Tang, Antoine Chaillon, Sara Gianella, Lilly M. Wong, Dajiang Li, Theresa L. Simermeyer, Magali Porrachia, Caroline Ignacio, Brendon Woodworth, Daniel Zhong, Jiayi Du, Eduardo de la Parra Polina, Jennifer Kirchherr, Brigitte Allard, Matthew L. Clohosey, Matt Moeser, Amy L. Sondgeroth, Gregory D. Whitehill, Vidisha Singh, Amir Dashti, Davey M. Smith, Joseph J. Eron, Katherine J. Bar, Ann Chahroudi, Sarah B. Joseph, Nancie M. Archin, David M. Margolis, and Guochun Jiang. *Journal of Clinical Investigation* 2023;133(12): e167417. <https://doi.org/10.1172/JCI167417>.

Presenter: Yanique Serge Gilliana Thomas

October 23, 2023

Africa-specific human genetic variation near CHD1L associates with HIV-1 load.

Paul J. McLaren, Immacolata Porreca, Gennaro Iaconis, Hoi Ping Mok, Subhankar Mukhopadhyay, Emre Karakoc, Sara Cristinelli, Cristina Pomilla, István Bartha, Christian W. Thorball, Riley H. Tough, Paolo Angelino, Cher S. Kiar, Tommy Carstensen, Segun Fatumo, Tarryn Porter, Isobel Jarvis, William C. Skarnes, Andrew Bassett, Marianne K. DeGorter, Mohana Prasad Sathya Moorthy, Jeffrey F. Tuff, Eun-Young Kim, Miriam Walter, Lacy M. Simons, Arman Bashirova, Susan Buchbinder, Mary Carrington, Andrea Cossarizza, Andrea De Luca, James J. Goedert, David B. Goldstein, David W. Haas, Joshua T. Herbeck, Eric O. Johnson, Pontiano Kaleebu, William Kilembe, Gregory D. Kirk, Neeltje A. Kootstra, Alex H. Kral, Olivier Lambotte, Ma Luo, Simon Mallal, Javier Martinez-Picado, Laurence Meyer, José M. Miro, Pravi Moodley, Ayesha A. Motala, James I. Mullins, Kireem Nam, Niels Obel, Fraser Pirie, Francis A. Plummer, Guido Poli, Matthew A. Price, Andri Rauch, Ioannis Theodorou, Alexandra Trkola, Bruce D. Walker, Cheryl A. Winkler, Jean-François Zagury, Stephen B. Montgomery, Angela Ciuffi, Judd F. Hultquist, Steven M. Wolinsky, Gordon Dougan, Andrew M. L. Lever, Deepti Gurdasani, Harriet Groom, Manjinder S. Sandhu & Jacques Fellay *Nature* 620, 1025–1030 (2023). <https://doi.org/10.1038/s41586-023-06370-4>

Presenter: Maryam Aimen Shaaban

October 23, 2023

November 20, 2023

Differential RNA editing landscapes in host cell versus the SARS-CoV-2 genome.

Małgorzata Kurkowiak, Sarah Fletcher, Alison Daniels, Paweł Mozolewski, Domenico Alessandro Silvestris, Ewelina Kroć, Natalia Marek-Trzonkowska, Ted Hupp, and Christine Tait-Burkard², iScience, Volume 26, Issue 11, (2023). <https://doi.org/10.1016/j.isci.2023.108031>

Presenter: Maryam Aimen Shaaban