

# Research Toward a Cure November 15, 2021

**Table 1. Current Clinical Trials**

Trial	Trial Registry Identifier(s)	Sponsor(s)	Phase	Estimated End Date/Interim Results
<b>ADOPTIVE IMMUNOTHERAPY</b>				
<b>AutoRESIST:</b> HIV antigen-specific T-cells targeting conserved epitopes for treatment of HIV-associated lymphoma	<a href="#">NCT04975698</a>	Catherine Bollard, Children's Research Institute	Phase II	June 2026
<b>AlloRESIST:</b> Evaluate the safety, immunologic, and virologic responses of donor derived HIV-specific T-cells in HIV+ individuals following allogeneic bone marrow transplantation	<a href="#">NCT04248192</a>	Catherine Bollard, Children's Research Institute	Phase I	April 2024
<b>HST-NEETs:</b> HIV-1 specific T-cells for HIV+ individuals	<a href="#">NCT03485963</a>	Children's Research Institute	Phase I	December 2023
<b>ANTIBODIES</b>				
<b>VRC01</b> (analytical treatment interruption in HVTN 703/HPTN 081 AMP trial participants)	<a href="#">NCT04860323</a>	HIV Vaccine Trials Network	N/A	November 2022
<b>VRC01</b> (analytical treatment interruption in HVTN 704/HPTN 085 AMP trial participants)	<a href="#">NCT04801758</a>	HIV Vaccine Trials Network	N/A	June 2022
<b>GSK3810109A</b> (broadly neutralizing antibody formerly named N6-LS)	<a href="#">NCT04871113</a>	ViiV Healthcare	Phase IIa	November 2023
<b>10-1074-LS + 3BNC117-LS</b> in primary HIV infection	<a href="#">NCT04319367</a>	Imperial College London	Phase II	March 2025 <a href="#">PREPRINT (Version 1), Research Square</a>
<b>UB-421</b> (antibody inhibitor of HIV binding to CD4 receptors)	<a href="#">NCT04404049</a> (not yet open for enrollment)	UBP Greater China (Shanghai) Co., Ltd	Phase II	June 2024
<b>UB-421</b>	<a href="#">NCT03743376</a> (closed to enrollment)	United BioPharma	Phase II	December 2021
<b>vedolizumab</b> (anti- $\alpha_4\beta_7$ integrin antibody)	<a href="#">NCT03147859</a>	Ottawa Hospital Research Institute	Phase II	December 2021 CROI 2019, <a href="#">Abstract 393</a> , <a href="#">Webcast</a>
<b>PGT121 + VRC07-523LS +/- PGDM1400</b> (broadly neutralizing antibodies)	<a href="#">NCT03721510</a>	International AIDS Vaccine Initiative	Phase I/IIa	October 2022

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<b>ANTIBODIES (Cont.)</b>				
VRC01LS + 10-1074 (broadly neutralizing antibodies) in early-treated children	<a href="#">NCT03707977</a> (closed to enrollment)	NIAID	Phase I/II	October 2021 CROI 2021, <a href="#">Abstract 609</a> , <a href="#">Webcast</a>
ABBV-382 (anti- $\alpha_4\beta_7$ integrin antibody)	<a href="#">NCT04554966</a> (closed to enrollment)	AbbVie	Phase Ib	September 2022
<b>3BNC117-LS + 10-1074-LS</b>	<a href="#">NCT05079451</a> (not yet open for enrollment)	<b>NIAID</b>	<b>Phase I</b>	<b>February 2024</b>
3BNC117 + 10-1074	<a href="#">NCT03526848</a> (closed to enrollment)	Rockefeller University	Phase I	April 2022
3BNC117-LS + 10-1074-LS in viremic HIV+ individuals	<a href="#">NCT04250636</a> (closed to enrollment)	Rockefeller University	Phase I	April 2022
AAV8-VRC07 (broadly neutralizing antibody delivered by AAV vector)	<a href="#">NCT03374202</a>	NIAID	Phase I	March 2027 CROI 2021, <a href="#">Abstract 160</a> , <a href="#">Webcast</a> CROI 2020, <a href="#">Abstract 41LB</a> , <a href="#">Webcast</a>
SAR441236 (tri-specific broadly neutralizing antibody)	<a href="#">NCT03705169</a>	NIAID	Phase I	February 2022
VRC01 in acute HIV infection	<a href="#">NCT02591420</a> (closed to enrollment)	NIAID	Phase I	March 2021
<b>ANTI-CMV THERAPY</b>				
Ietermovir (Prevymis)	<a href="#">NCT04840199</a> (not yet open for enrollment)	NIAID	Phase II	June 2024

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<b>ANTI-INFLAMMATORY</b>				
<b>canakinumab</b> (IL-1 $\beta$ inhibitor)	<a href="#">NCT02272946</a> (closed to enrollment)	University of California, San Francisco	Phase II	December 2022 <a href="#">J Am Coll Cardiol. 2018 Dec 4;72(22):2809-2811.</a> CROI 2017, <a href="#">Abstract 126, Webcast</a>
<b>ANTIRETROVIRAL THERAPY</b>				
doravirine concentrations and antiviral activity in cerebrospinal fluid	<a href="#">NCT04079452</a> (not yet open for enrollment)	Fundacio Lluita Contra la SIDA	Phase III	October 2020
<b>IDOLTIB</b> : Impact of dolutegravir + lamivudine simplification on HIV-1 reservoirs	<a href="#">NCT04034862</a>	University of Liege	Phase III	March 2022
<b>CANNABINOIDS</b>				
<b>TN-CT11LM, TN-TC19LM</b> oral capsules	<a href="#">NCT03550352</a> (not yet open for enrollment)	McGill University Health Center	Phase II	August 2022
<b>COMBINATIONS</b>				
<b>Perturbing of HIV reservoir with immune stimulation</b> : Fluarix, Pneumovax vaccines	<a href="#">NCT02707692</a> (closed to enrollment)	University of California, San Diego	Not listed	January 2022
<b>MVA.HTI + ChAdOx1.HTI</b> therapeutic vaccines + <b>vesatolimod</b> (TLR7 agonist)	<a href="#">NCT04364035</a> (closed to enrollment)	Aelix Therapeutics	Phase IIa	December 2022
<b>TITAN</b> : lefitolimod + 3BNC117 + 10-1074 (TLR9 agonist + broadly neutralizing antibodies)	<a href="#">NCT03837756</a>	University of Aarhus	Phase IIa	February 2023
<b>Albuvirtide</b> (fusion inhibitor) + <b>3BNC117</b>	<a href="#">NCT04819347</a> (not yet open for enrollment)	Frontier Biotechnologies Inc.	Phase II	December 2022
<b>eCLEAR</b> : romidepsin + 3BNC117	<a href="#">NCT03041012</a> (closed to enrollment)	Aarhus University Hospital	Phase II	December 2021
<b>MVA HIV-B +/- vedolizumab</b> (viral vector vaccine +/- anti- $\alpha_4\beta_7$ integrin antibody)	<a href="#">NCT04120415</a> (not yet open for enrollment)	French National Agency for Research on AIDS and Viral Hepatitis (Inserm/ANRS)	Phase II	December 2022

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
<b>COMBINATIONS (Cont.)</b>				
<b>Research in Viral Eradication of HIV Reservoirs (RIVER):</b> ART, ChAdV63.HIVconsv & MVA.HIVconsv vaccines, vorinostat	<a href="#">NCT02336074</a> <a href="#">UK CPMS18010</a> (closed to enrollment)	Imperial College London	Phase II	November 2022 <a href="#">Lancet. 2020 Mar 14;395(10227):888-898</a> AIDS 2018, Abstract TUAA0202LB ( <a href="#">slides</a> , <a href="#">video</a> )
<b>UB-421 + chidamide</b> (antibody inhibitor of HIV binding to CD4 receptors + HDAC inhibitor)	<a href="#">NCT04985890</a> (not yet open for enrollment)	UBP Greater China (Shanghai) Co., Ltd	Phase II	December 2025
<b>UB-421 + chidamide</b>	<a href="#">NCT05056974</a> (not yet open for enrollment)	United BioPharma	Phase II	December 2023
<b>vorinostat +/- tamoxifen</b> in postmenopausal women	<a href="#">NCT03382834</a> (closed to enrollment)	NIAID	Phase II	June 2023 CROI 2020, <a href="#">Abstract 333</a> , <a href="#">Webcast</a> HIV Persistence Workshop 2019, Abstract OP 3.2 (see <a href="#">abstract book</a> )
<b>Ad26.Mos4.HIV, MVA-BN-HIV, PGT121, PGDM1400, VRC07-523LS</b> (therapeutic vaccines, broadly neutralizing antibodies)	<a href="#">NCT04983030</a> (not yet open for enrollment)	Boris Juelg, MD PhD	Phase I/IIa	March 2024
<b>HIVARNA01.3, MVA vector HIV vaccine, 10-1074, romidepsin, HIVACAR01</b> (personalized HIV RNA vaccine)	<a href="#">NCT03619278</a> (not yet open for enrollment)	David Garcia Cinca	Phase I/IIa	July 2021
<b>IMPAACT P1115 v2.0:</b> Very early intensive treatment of HIV-infected infants to achieve HIV remission (ART +/- VRC01)	<a href="#">NCT02140255</a>	IMPAACT	Phase I/II	December 2031

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<b>COMBINATIONS (Cont.)</b>				
<b>panobinostat + pegylated interferon-alpha2a</b>	<a href="#">NCT02471430</a>	Massachusetts General Hospital	Phase I/II	December 2021 CROI 2020, <a href="#">Abstract 341</a>
Therapeutic conserved element DNA vaccine ( <b>IL-12 adjuvanted p24CE</b> ), MVA vaccine boost ( <b>MVA/HIV62B</b> ), TLR9 agonist ( <b>lefitolimod</b> ) and broadly neutralizing antibodies ( <b>VRC07-523LS + 10-1074</b> )	<a href="#">NCT04357821</a>	UCSF	Phase I/II	December 2024
<b>elipovimab</b> (formerly GS-9722) +/- <b>vesatolimod</b>	GS-US-420-3902 (no clinicaltrials.gov entry)	Gilead Sciences	Phase Ib	N/A
<b>CD4-ZETA</b> gene-modified T cells +/- interleukin-2 (IL-2)	<a href="#">NCT01013415</a> (closed to enrollment)	University of Pennsylvania	Phase I	December 2021 CROI 2020, <a href="#">Abstract 337</a> , <a href="#">Webcast</a> <a href="#">Mol Ther. 2002</a> <a href="#">Jun;5(6):788-97</a>
<b>HVRRICANE</b> : HIVIS DNA + MVA-CMDR vaccines +/- TLR4 agonist	<a href="#">NCT04301154</a> (not yet open for enrollment)	PENTA Foundation	Phase I	September 2021
<b>N-803</b> (recombinant human super agonist interleukin-15 complex) +/- <b>VRC07-523LS + 10-1074</b>	<a href="#">NCT04340596</a>	NIAID	Phase I	August 2023
<b>peginterferon alfa-2b + 3BNC117 + 10-1074</b> (BEAT-2)	<a href="#">NCT03588715</a> (closed to enrollment)	Wistar Institute	Phase I	October 2022
<b>vorinostat + HXTC</b> : HIV 1 antigen expanded specific T cell therapy	<a href="#">NCT03212989</a>	Julia Sung, MD, University of North Carolina, Chapel Hill	Phase I	June 2022
<b>CYTOKINES</b>				
<b>N-803</b> in acute HIV infection	<a href="#">NCT04505501</a>	Thai Red Cross AIDS Research Centre	Phase II	August 2022
Effect of <b>N-803</b> on B cell follicles	<a href="#">NCT04808908</a>	University of Minnesota	Phase I	February 2023

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
<b>GENE THERAPIES</b>				
<b>LVgp120duoCAR-T cells</b>	<a href="#">NCT04648046</a>	Steven Deeks, UCSF	Phase I/IIa	December 2024
<b>Cal-1: Dual anti-HIV gene transfer construct</b>	<a href="#">NCT02390297</a> (closed to enrollment)	Calimmune	Phase I/II	October 2031 CROI 2020, <a href="#">Abstract 338</a>
<b>SB-728-T</b> (autologous T cells gene-modified to disrupt CCR5 receptor expression)	<a href="#">NCT03666871</a>	Case Western Reserve University	Phase I/II	February 2024
<b>AGT103-T</b> (gene-modified HIV-specific CD4 T cells)	<a href="#">NCT04561258</a>	American Gene Technologies International Inc.	Phase I	September 2022
<b>CD4 CAR + SB-728mR</b> modified T cells	<a href="#">NCT03617198</a>	University of Pennsylvania	Phase I	December 2025
Chimeric Antigen Receptor (CAR)-T cell therapy	<a href="#">NCT03240328</a>	Guangzhou 8th People's Hospital	Phase I	December 2022 <a href="#">J Clin Invest. 2021 Aug 10;150211.</a>
Long-term follow-up of HIV+ participants exposed to <b>SB-728-T</b> or <b>SB-728mR-T</b>	<a href="#">NCT04201782</a> (enrolling by invitation only)	Sangamo Therapeutics	Phase I	December 2033
<b>SB-728mR-HSPC</b> (autologous hematopoietic stem/progenitor cells modified at the CCR5 gene)	<a href="#">NCT02500849</a> (closed to enrollment)	City of Hope Medical Center	Phase I	December 2022
shRNA-modified CD34+ cells	<a href="#">NCT03517631</a>	Shanghai Public Health Clinical Center	Phase I	December 2020
<b>TCTIWHI</b> : Third-generation CAR-T-cell therapy	<a href="#">NCT04863066</a> (not yet open for enrollment)	Beijing 302 Hospital	Phase I	October 2022
<b>GENE THERAPIES FOR HIV-POSITIVE PEOPLE WITH CANCERS</b>				
CRISPR CCR5 modified CD34+ cells	<a href="#">NCT03164135</a>	307 Hospital of PLA (Affiliated Hospital of Academy to Military Medical Sciences)	Not listed	May 2021 <a href="#">N Engl J Med. 2019 Sep 11</a>
Stem cells gene-modified with <b>Cal-1</b>	<a href="#">NCT03593187</a>	Assistance Publique - Hôpitaux de Paris	Phase I/II	January 2024 <a href="#">Mol Ther Methods Clin Dev. 2019 Feb 26;13:303-309</a>

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
<b>GENE THERAPIES FOR HIV-POSITIVE PEOPLE WITH CANCERS (Cont.)</b>				
Stem cells gene-modified with CCR5 shRNA/TRIM5alpha/TAR decoy	<a href="#">NCT02797470</a>	AIDS Malignancy Consortium	Phase I/II	September 2024
Stem cells gene-modified to encode multiple anti-HIV RNAs (rHIV7-shI-TAR-CCR5RZ)	<a href="#">NCT02337985</a> (closed to enrollment)	City of Hope Medical Center	Phase I	December 2021
Stem cells gene-modified to encode multiple anti-HIV RNAs (rHIV7-shI-TAR-CCR5RZ) + busulfan	<a href="#">NCT01961063</a> (closed to enrollment)	City of Hope Medical Center	Phase I	December 2021
<b>GONADOTROPIN-RELEASING HORMONE (GnRH) AGONISTS</b>				
triptorelin acetate depot	<a href="#">NCT03536234</a>	Immune System Regulation AB	Phase II	December 2021
<b>HORMONES</b>				
<b>somatotropin</b> (human growth hormone)	<a href="#">NCT03091374</a>	McGill University Health Center	Phase II	December 2020 CROI 2021, <a href="#">Abstract 298</a> , <a href="#">Webcast</a>
<b>IMAGING STUDIES</b>				
Imaging immune activation in HIV by PET-MR	<a href="#">NCT03684655</a>	University of California, San Francisco	Phase I	October 2021
Radiolabeled VRC01	<a href="#">NCT03729752</a>	University of California, San Francisco	Phase I	October 2021 CROI 2020, <a href="#">Abstract 72</a> , <a href="#">Webcast</a>
<b>IMMUNE CHECKPOINT INHIBITORS</b>				
<b>durvalumab</b> (anti-PD-L1 antibody) in solid tumors	<a href="#">NCT03094286</a> (closed to enrollment)	Spanish Lung Cancer Group	Phase II	April 2022 <a href="#">JAMA Oncol. 2020</a> <a href="#">Jul 1;6(7):1063-1067</a>

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<b>IMMUNE CHECKPOINT INHIBITORS (Cont.)</b>				
<b>budigalimab</b> (anti-PD-1 antibody)	<a href="#">NCT04223804</a>	AbbVie	Phase Ib	February 2023
<b>budigalimab</b> (anti-PD-1 antibody)	<a href="#">NCT04799353</a>	AbbVie	Phase I	October 2022
<b>nivolumab</b> (anti-PD-1 antibody) + <b>ipilimumab</b> (anti-CTLA-4 antibody) in treating patients with advanced HIV associated solid tumors	<a href="#">NCT02408861</a>	National Cancer Institute (NCI)	Phase I	July 2022 <a href="#">Clin Infect Dis. 2021 ciaa1530</a> HIV Persistence Workshop 2019, <a href="#">Abstract OP 5.5 Journal of Clinical Oncology 36, no. 15 suppl</a>
<b>pembrolizumab</b> (anti-PD-1 antibody) in treating patients with HIV and relapsed, refractory, or disseminated malignant neoplasms	<a href="#">NCT02595866</a>	National Cancer Institute (NCI)	Phase I	November 2024 <a href="#">JAMA Oncol. 2019 Jun 2</a> CROI 2019, <a href="#">Abstract 27, Webcast</a> CROI 2018, <a href="#">Poster abstract 656LB</a>
<b>pembrolizumab</b> (anti-PD-1 antibody) single dose	<a href="#">NCT03239899</a>	National Institute of Neurological Disorders and Stroke (NINDS)	Phase I	December 2024
<b>LATENCY-REVERSING AGENTS</b>				
<b>arsenic trioxide</b>	<a href="#">NCT03980665</a>	Guangzhou 8th People's Hospital	Phase I	December 2022
<b>Euphorbia kansui</b>	<a href="#">NCT04503928</a> (not yet open for enrollment)	Shanghai Public Health Clinical Center	Phase I	December 2022
<b>Kansui</b> (traditional Chinese medicine containing ingenols)	<a href="#">NCT02531295</a> (Suspended - temporary pause on non-COVID clinical trial recruitment at study site)	UCSF	Phase I	June 2022

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<b>mTOR INHIBITORS</b>				
<b>metformin</b>	<a href="#">NCT04500678</a>	University of Hawaii	Phase II/III	December 2022 <a href="#">AIDS Res Hum Retroviruses. 2020 Nov 5.</a>
<b>PROTEASOME INHIBITORS</b>				
<b>ixazomib</b>	<a href="#">NCT02946047</a> (closed to enrollment)	Mayo Clinic	Phase I	January 2022
<b>STEM CELL TRANSPLANTATION</b>				
<b>IMPAACT P1107:</b> Cord blood transplantation using CCR5-Δ32 donor cells for the treatment of HIV and underlying disease	<a href="#">NCT02140944</a> (closed to enrollment)	International Maternal Pediatric Adolescent AIDS Clinical Trials Group (IMPAACT)	N/A	March 2023 ASH 2018, <a href="#">Abstract 2184</a>
Cord blood transplant with OTS for the treatment of HIV+ hematologic cancers	<a href="#">NCT04083170</a>	Fred Hutchinson Cancer Research Center	Phase II	December 2025
<b>STIMULANTS</b>				
<b>EMRLHD:</b> Effect of methamphetamine on residual latent HIV disease study	<a href="#">NCT03825536</a>	University of California, San Francisco	Phase IV	June 2022
<b>THERAPEUTIC VACCINES</b>				
<b>BELIEVE:</b> BCG vaccination effect on latent reservoir size in treated HIV-1 infection	<a href="#">NCT05004038</a> (not yet open for enrollment)	University of Zurich	Phase IIa	January 2024
<b>Ad26.Mos4.HIV + MVA-Mosaic or clade C gp140 + mosaic gp140</b> (viral vector vaccines + proteins)	<a href="#">NCT03307915</a> (closed to enrollment)	Janssen Vaccines & Prevention B.V.	Phase I	November 2021
<b>DC-HIV04:</b> a1DC + inactivated whole autologous HIV, a1DC + conserved HIV peptides	<a href="#">NCT03758625</a>	Sharon Riddler, University of Pittsburgh	Phase I	May 2023
<b>DNA.HTI + MVA.HTI + ChAdOx1.HTI</b> (DNA + viral vector vaccines) (ATI extension)	<a href="#">NCT04385875</a> (closed to enrollment)	Fundacio Lluita Contra la SIDA	Phase I	February 2022
<b>MVA.tHIVconsV3 +/- MVA.tHIVconsV4</b> (viral vectors)	<a href="#">NCT03844386</a>	University of North Carolina, Chapel Hill	Phase I	June 2022
<b>NETI:</b> Trimer 4571 therapeutic vaccination	<a href="#">NCT04985760</a>	Madhuchhanda Choudhary	Phase I	September 2024

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<b>TREATMENT INTENSIFICATION/EARLY TREATMENT</b>				
<b>P25-INACTION:</b> Implication for strategies of long term control of viral replication in patients with primary HIV infection	<a href="#">NCT04225325</a>	Adriano Lazzarin, MD	Phase IV	June 2021 <a href="#">EACS 2021</a> , <a href="#">Abstract BPD4/3</a>
Antiretroviral regime for viral eradication in newborns	<a href="#">NCT02712801</a> (closed to enrollment)	National Center for Women and Children's Health, China CDC	Phase IV	December 2022
<b>DGVTAf:</b> Immediate initiation of antiretroviral therapy during "hyperacute" HIV infection	<a href="#">NCT02656511</a> (closed to enrollment)	UCSF	Phase IV	April 2023
<b>AAHIV:</b> Antiretroviral therapy for acute HIV infection	<a href="#">NCT00796263</a>	South East Asia Research Collaboration with Hawaii	Phase III	June 2033 <a href="#">See supplemental references page</a>
<b>EIT:</b> Early infant HIV treatment in Botswana	<a href="#">NCT02369406</a> (closed to enrollment)	Harvard School of Public Health	Phase II/III	May 2022 <a href="#">Clin Infect Dis. 2021 ciab143</a> <a href="#">Clin Infect Dis. 2020 Jan 12.</a> <a href="#">Sci Transl Med. 2019 Nov 27;11(520). pii: eaax7350</a> CROI 2019, <a href="#">Poster abstract 826</a> CROI 2018, <a href="#">Abstract 136</a> , <a href="#">Webcast</a>
<b>EARLIER:</b> Early ART to limit infection and establishment of reservoir	<a href="#">NCT02859558</a> (closed to enrollment)	AIDS Clinical Trials Group	Phase II	September 2023

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**Table 2. Observational Studies**

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<b>2000HIV:</b> 2000 HIV human functional genomics partnership program	<a href="#">NCT03994835</a> (closed to enrollment)	Radboud University	N/A	December 2023
<b>2000HIVTrained:</b> 2000 HIV trained innate immunity in HIV elite controllers	<a href="#">NCT04968717</a>	Radboud University	N/A	December 2022
Accurate staging of immuno-virological dynamics during acute HIV infection (ACS)	<a href="#">NCT03449706</a>	University Hospital, Ghent	N/A	January 2023
Analytic treatment interruption (ATI) to assess HIV cure	<a href="#">NCT02437526</a> (enrolling by invitation only)	Mayo Clinic	N/A	May 2025 <a href="#">PLoS Med. 2017 Nov 28;14(11):e1002461.</a>
<b>ANRS CO24 OncoVIHAC:</b> Immune checkpoint inhibitors in HIV+ individuals with cancers	<a href="#">NCT03354936</a>	Inserm-ANRS	N/A	June 2022
<b>ATGALIG-HIV:</b> Study of autophagy and the effects of GALIG gene products in HIV-1+ patients on antiretroviral therapy since primary infection, chronic phase, or never treated	<a href="#">NCT04160455</a>	Centre Hospitalier Régional d'Orléans	N/A	November 2029
<b>CHRONO:</b> A prospective cohort for ex vivo cure studies with chronic HIV+ patients in the Netherlands	<a href="#">NCT04888754</a>	Erasmus Medical Center	N/A	January 2034
<b>CODEX</b> (the "Extreme" cohort, ANRS CO21)	<a href="#">NCT01520844</a>	Inserm-ANRS	N/A	September 2023 <a href="#">See supplemental references page</a>
Developing a functional cure for HIV disease: Clinical specimen collection from HIV+ individuals	<a href="#">NCT03215004</a>	American Gene Technologies International Inc.	N/A	February 2021
<b>DOLUVOIR:</b> Cartography of virologic reservoir related to antiretroviral concentrations in HIV-1+ patients on first line treatment containing dolutegravir and associated nucleoside/nucleotide reverse transcriptase inhibitors backbone	<a href="#">NCT04133012</a>	Inserm-ANRS	N/A	February 2021
Establish and characterize an acute HIV infection cohort in a high-risk population	<a href="#">NCT00796146</a>	Southeast Asia Research Collaboration with Hawaii	N/A	July 2033 <a href="#">See supplemental references page</a>

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# Research Toward a Cure November 15, 2021

**Table 2. Observational Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
Evaluation of the role of HIV-1 Tat protein and anti-Tat immune response in HIV reservoir (ISS OBS T-005)	<a href="#">NCT04263207</a>	Barbara Ensoli, MD, PhD, Istituto Superiore di Sanità	N/A	December 2023
<b>FRESH</b> (Females rising through education, support, and health)	<a href="#">Ragon Institute webpage</a> (no clinicaltrials.gov entry)	Ragon Institute of MGH, MIT and Harvard	N/A	N/A <a href="#">See supplemental references page</a>
<b>HEATHER</b> : HIV reservoir targeting with early antiretroviral therapy	UK CPMS17589	University of Oxford/Medical Research Council/British HIV Association	N/A	September 2019 <a href="#">J Infect Dis. 2019 Nov 28. pii: jiz563</a>
<b>HIV-Mercuri</b> : HIV study on measuring the reservoir on cellular level to cure infection	<a href="#">NCT04305665</a>	University Hospital, Ghent	N/A	December 2025
Host & viral factors associated with HIV elite control	UK CPMS16146	University College London Hospitals NHS Foundation Trust	N/A	May 2021
HUSH restriction in HIV+ patients	<a href="#">NCT04172480</a>	Inserm-ANRS	N/A	September 2022
<b>iCHIP</b> : Effect of immune checkpoint inhibitors on HIV persistence	<a href="#">hivcure.com.au</a> (no registry entry)	University of Melbourne	N/A	N/A <a href="#">AIDS. 2021 Apr 15. CROI 2020, Abstract 334</a>
<b>IciStem</b> : Collaborative project to guide and investigate the potential for HIV cure in HIV+ patients requiring allogeneic stem cell transplantation for hematological disorders	<a href="#">IciStem website</a> (no clinicaltrials.gov entry)	amfAR	N/A	N/A CROI 2020, <a href="#">Abstract 339</a> , <a href="#">Abstract 348LB</a> <a href="#">Lancet HIV 2020 Mar 9. HIV Persistence Workshop 2019, Abstract OP 4.5 Nature. 2019 Apr;568(7751):244-248.</a> CROI 2019, <a href="#">Poster abstract 394</a> <a href="#">Ann Intern Med. 2018 Nov 20;169(10):674-683.</a>

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## Research Toward a Cure November 15, 2021

**Table 2. Observational Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
Identification and quantification of HIV CNS latency biomarkers	<a href="#">NCT02989285</a>	St Vincent's Hospital, Sydney	N/A	December 2020
Impact of ART adherence on HIV persistence and inflammation	<a href="#">NCT02797093</a> (closed to enrollment)	University of Colorado, Denver	N/A	October 2021
Investigation of the impact of inducible, replication-competent latent HIV-1 as an impediment to HIV/AIDS cure in the context of sustained viral suppression	<a href="#">NCT04938518</a>	Kenya Medical Research Institute	N/A	April 2022
Long-term effects of ART in acute HIV infection	<a href="#">ChiCTR1800015006</a>	Key Laboratory of AIDS Immunology of National Health and Family Planning Commission, Department of Laboratory Medicine, The First Affiliated Hospital, China Medical University	N/A	June 2021
Measurement for viral reservoir and immune function in HIV-1+ patients under antiretroviral therapy	<a href="#">NCT04068441</a>	National Taiwan University Hospital	N/A	December 2021 <a href="#">J Acquir Immune Defic Syndr. 2021 Apr 1;86(4):500-508</a>
<b>PITCH</b> : Prospective interruption of therapy towards a cure for HIV pilot study	<a href="#">NHS Health Research Authority approval</a> (not entered into any online registry yet)	University of Oxford	N/A	N/A <a href="#">Abstract P22</a> , BHIVA Digital Conference, Nov 22–24, 2020
Post analytic treatment interruption study	<a href="#">NCT02761200</a>	South East Asia Research Collaboration with Hawaii	N/A	March 2031
<b>PRIMO</b> (ANRS CO6): Primary infection cohort	<a href="#">NCT03148964</a>	Inserm-ANRS	N/A	December 2022 <a href="#">See supplemental references page</a>

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**Table 2. Observational Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
Quantitative measurement and correlates of the latent HIV reservoir in virally suppressed Ugandans	<a href="#">NCT02154035</a> (closed to enrollment)	NIAID	N/A	January 2022 CROI 2020, <a href="#">Abstract 385</a> HIV Persistence Workshop 2019, Abstract OP 7.4 (see <a href="#">abstract book</a> ) <a href="#">Clin Infect Dis. 2017 Oct 15;65(8):1308-1315.</a>
<b>RESERVIH32:</b> Bioclinical evaluation of two biomarkers of aviremic HIV-1 in CD4 T cells of adults undergoing treatment	<a href="#">NCT03940521</a>	Centre Hospitalier Universitaire de Nîmes	N/A	September 2022
Role of the IL-33/amphiregulin pathway as a potential therapeutic target in HIV infection	<a href="#">NCT03622177</a>	Inserm-ANRS	N/A	September 2023
<b>Saturne-HIV:</b> Sequential analysis before and after treatment initiation to unravel the role of naturally occurring extracellular vesicles in HIV infection	<a href="#">NCT04653610</a>	University Hospital, Ghent	N/A	January 2025
<b>SCOPE-ATI:</b> SCOPE analytic treatment interruption protocol	<a href="#">NCT04359186</a> (enrolling by invitation)	UCSF	N/A	June 2024
<b>TESOVIR:</b> Tracking and exploring the source of viral rebound (ART interruption)	<a href="#">NCT03117985</a>	Centre Hospitalier Régional d'Orléans	N/A	September 2022
The Gemini Study: Safety and survival of genetically modified white blood cells in HIV+ twins	<a href="#">NCT04799483</a> (closed to enrollment)	NIAID	N/A	January 2030

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# Research Toward a Cure November 15, 2021

**Table 2. Observational Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
The Last Gift Study (for people with HIV and less than 6 months life expectancy due to terminal illness)	<a href="#">UCSD study website</a>	University of California, San Diego (UCSD)	N/A	N/A <a href="#">PLoS One. 2021 May 7;16(5):e0250882.</a> <a href="#">J Clin Invest. 2020 Jan 7</a> HIV Persistence Workshop 2019, Abstract PP 5.7.5 (see <a href="#">abstract book</a> )
The use of leukapheresis to support HIV pathogenesis studies	<a href="#">NCT01161199</a>	University of California, San Francisco	N/A	December 2022
Thinking and memory problems in people with HIV	<a href="#">NCT01875588</a>	National Institute of Neurological Disorders and Stroke (NINDS)	N/A	February 2037
<b>TRESAX:</b> T follicular helper reservoir in axillary lymph nodes study	<a href="#">hivcure.com.au</a> (no registry entry)	Kirby Institute	N/A	N/A

**Table 3. Completed Studies**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>ADOPTIVE IMMUNOTHERAPY</b>				
Early ART in combination with autologous HIV-specific cytotoxic T lymphocyte (CTL) infusion	<a href="#">NCT02231281</a>	Yongtao Sun, MD, PhD, Tangdu Hospital, the Fourth Military Medical University	Phase III	N/A
Reconstitution of HIV-specific immunity against HIV	<a href="#">NCT02563509</a>	Guangzhou 8th People's Hospital	Phase I/II	N/A
HIV-specific memory CD8 T cells adoptive immunotherapy	<a href="#">ChiCTR-ICR-15005775</a>	Beijing You'an Hospital, Capital Medical University	Phase I	<a href="#">Front Immunol. 2019 Mar 18;10:437</a>
<b>HXTC</b> : HIV 1 antigen expanded specific T cell therapy	<a href="#">NCT02208167</a>	University of North Carolina, Chapel Hill	Phase I	<a href="#">Mol Ther. 2018 Oct 3;26(10):2496-2506.</a>
<b>ANTIBODIES</b>				
<b>3BNC117</b> (broadly neutralizing monoclonal antibody)	<a href="#">NCT02446847</a>	Rockefeller University	Phase II	<a href="#">Nature. 2016 Jul 28; 535(7613):556–560</a>
<b>3BNC117</b>	<a href="#">NCT02588586</a>	Rockefeller University	Phase II	N/A
<b>UB-421</b> (antibody inhibitor of HIV binding to CD4 receptors)	<a href="#">NCT02369146</a>	United BioPharma	Phase II	<a href="#">N Engl J Med. 2019 Apr 18;380(16):1535-1545</a>
<b>vedolizumab</b> (anti- $\alpha_4\beta_7$ integrin antibody)	<a href="#">NCT03577782</a>	Hospitales Universitarios Virgen del Rocío	Phase II	XI Congreso Nacional GeSIDA, Abstract PO-48 ( <a href="#">slides</a> , <a href="#">video</a> )
<b>VRC01</b> (broadly neutralizing monoclonal antibody)	<a href="#">NCT02664415</a>	National Institute of Allergy and Infectious Diseases (NIAID)	Phase II	<a href="#">J Clin Invest. 2020 Jun 1;130(6):3299-3304.</a> <a href="#">Lancet HIV. 2019 May;6(5):e297-e306.</a> IAS 2017, Abstract <a href="#">TUAB0106LB</a> ( <a href="#">slides</a> , <a href="#">video</a> )
<b>VRC01</b> (broadly neutralizing antibody) in infants	<a href="#">NCT03208231</a>	NIAID	Phase I/II	N/A
<b>10-1074</b> (broadly neutralizing monoclonal antibody)	<a href="#">NCT02511990</a>	Rockefeller University	Phase I	<a href="#">Nat Med. 2017 Feb;23(2):185-191</a>

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## Research Toward a Cure November 15, 2021

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>ANTIBODIES (Cont.)</b>				
<b>10-1074-LS + 3BNC117-LS</b> (long-acting broadly neutralizing antibodies)	<a href="#">NCT03554408</a>	Rockefeller University	Phase I	N/A
<b>3BNC117</b>	<a href="#">NCT02018510</a>	Rockefeller University	Phase I	<a href="#">Nature. 2015 Jun 25;522(7557):487-91</a>
<b>3BNC117 + 10-1074</b>	<a href="#">NCT03571204</a>	NIAID	Phase I	N/A
<b>3BNC117 + 10-1074</b>	<a href="#">NCT02825797</a>	Rockefeller University	Phase I	<a href="#">Nature. 2018 Sep;561(7724):479-484.</a> <a href="#">Nat Med. 2018 Sep 26.</a>
<b>3BNC117-LS</b>	<a href="#">NCT03254277</a>	Rockefeller University	Phase I	N/A
<b>CHERUB 001</b> Intravenous immunoglobulin in primary HIV infection	No clinicaltrials.gov entry	CHERUB (Collaborative HIV Eradication of viral Reservoirs: UK BRC)	N/A	<a href="#">HIV Med. 2017 Jul 18. doi: 10.1111/hiv.12524.</a>
<b>elipovimab</b> (formerly GS-9722; PGT121-derived broadly neutralizing antibody)	GS-US-420-3902 <a href="#">Adisinsight entry</a>	Gilead Sciences	Phase I	CROI 2020, <a href="#">Abstract 39</a> , <a href="#">Webcast</a>
<b>PGDM1400 +/- PGT121 +/- VRC07-523LS</b> (broadly neutralizing antibodies)	<a href="#">NCT03205917</a>	International AIDS Vaccine Initiative	Phase I	N/A
<b>PGT121</b>	<a href="#">NCT02960581</a>	International AIDS Vaccine Initiative	Phase I	<a href="#">Nat Med. 2021 Oct 7.</a> CROI 2019, <a href="#">Abstract 145</a> , <a href="#">Webcast</a>
<b>vedolizumab</b>	<a href="#">NCT02788175</a>	NIAID	Phase I	AIDS 2018, <a href="#">WESS0102</a>
<b>VRC01 + 10-1074</b>	<a href="#">NCT03831945</a>	NIAID	Phase I	N/A
<b>VRC01</b>	<a href="#">NCT02411539</a>	NIAID	Phase I	N/A
<b>VRC01</b>	<a href="#">NCT02471326</a>	NIAID	Phase I	<a href="#">N Engl J Med. 2016 Nov 24;375(21):2037-2050</a>

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## Research Toward a Cure November 15, 2021

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>ANTIBODIES (Cont.)</b>				
VRC01	<a href="#">NCT02463227</a>	NIAID	Phase I	<a href="#">N Engl J Med. 2016 Nov 24;375(21):2037-2050</a> CROI 2016, Abstract 32LB, <a href="#">Webcast</a>
VRC01	<a href="#">NCT01950325</a>	NIAID	Phase I	<a href="#">Sci Transl Med. 2015 Dec 23;7(319):319ra206</a>
VRC01LS, VRC07-523LS (long-acting broadly neutralizing antibodies)	<a href="#">NCT02840474</a>	NIAID	Phase I	IAS 2019, <a href="#">Abstract WEA0305LB (video, at 45:36)</a>
<b>ANTI-FIBROTIC</b>				
ACE inhibitors	<a href="#">NCT01535235</a>	UCSF/amfAR	Phase IV	<a href="#">Pathogens and Immunity. 2017;2(3):310-34.</a>
losartan	<a href="#">NCT01852942</a>	University of Minnesota	Phase II	CROI 2020, <a href="#">Abstract 277</a>
telmisartan	<a href="#">NCT01928927</a>	AIDS Clinical Trials Group	Phase II	CROI 2019, <a href="#">Abstract 395</a> <a href="#">J Infect Dis. 2018 217(11):1770-1781</a>
telmisartan	<a href="#">NCT02170246</a>	Yale University	Phase I	CROI 2019, <a href="#">Abstract 300</a>
<b>ANTI-INFLAMMATORY</b>				
CD24Fc (human CD24 extracellular domain and human IgG1 Fc fusion protein)	<a href="#">NCT03960541</a>	Oncolmmune, Inc.	Phase II	"Terminated (Business Reasons)"
High dose vitamin D supplementation	<a href="#">NCT03426592</a>	University of Melbourne	Phase II	N/A
CC-11050 (phosphodiesterase-4 inhibitor)	<a href="#">NCT02652546</a>	NIAID	Phase I	AIDS 2018, <a href="#">Poster abstract LBPEB021</a>
<b>ANTI-PROLIFERATIVE</b>				
mycophenolate mofetil (MMF)	<a href="#">NCT03262441</a>	Fred Hutchinson Cancer Research Ctr	Phase I	CROI 2020, <a href="#">Abstract 340</a>

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>ANTIRETROVIRAL THERAPY</b>				
<b>dolutegravir</b> in reservoirs	<a href="#">NCT02924389</a>	Emory University	Phase IV	<a href="#">AIDS. 2018 Sep 24;32(15):2151-2159.</a>
HIV reservoir dynamics after switching to dolutegravir in patients on a PI/r based regimen	<a href="#">NCT02513147</a>	Hospital Universitari Vall d'Hebron Research Institute	Phase IV	N/A
<b>raltegravir or efavirenz + tenofovir + emtricitabine</b>	<a href="#">NCT00734344</a>	University of Alabama at Birmingham	Phase IV	N/A
<b>ABX464</b>	<a href="#">NCT02735863</a>	Abivax S.A.	Phase II	<a href="#">J. Virus Eradication 2019;5:10–22</a>
<b>ABX464</b>	<a href="#">NCT02990325</a>	Abivax S.A.	Phase I/II	<a href="#">Clin Infect Dis. 2021 Aug 26:ciab733.</a> <a href="#">CROI 2020, Abstract 335</a> HIV Persistence Workshop 2019, Abstract OP 8.3 (see <a href="#">abstract book</a> ) 16th European Meeting on HIV & Hepatitis 2018, <a href="#">presentation</a>
<b>ANTIRETROVIRAL THERAPY IN HIV CONTROLLERS</b>				
<b>emtricitabine + rilpivirine + tenofovir</b>	<a href="#">NCT01777997</a>	AIDS Clinical Trials Group/NIAID	Phase IV	<a href="#">J Infect Dis. 2020 June 4:jiaa294</a> <a href="#">Clin Infect Dis. 2019 May 25.</a> CROI 2019, <a href="#">Poster abstract 508</a> CROI 2018, <a href="#">Poster abstract 229</a>
<b>raltegravir + tenofovir + emtricitabine</b>	<a href="#">NCT01025427</a>	University of California, San Francisco	Phase IV	<a href="#">PLoS Pathog. 2013;9(10):e1003691</a>

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>ASSEMBLY INHIBITORS</b>				
BIT225	<a href="#">ACTRN12617000025336</a>	Biotron Limited	Phase II	<a href="#">J Infect Dis. 2021 Jun 4;223(11):1914-1922.</a> <a href="#">CROI 2020, Abstract 506</a> <a href="#">HIV DART 2018</a>
BIT225	<a href="#">ACTRN12612000696897</a>	Biotron Limited	Phase I	<a href="#">J Antimicrob Chemother. 2016 Mar;71(3):731-8</a>
<b>COMBINATIONS</b>				
maraviroc, dolutegravir, dendritic cell vaccine, auranofin, nicotinamide	<a href="#">NCT02961829</a>	Federal University of São Paulo	Not listed	AIDS 2020, <a href="#">Abstract OAXLB0105</a> HIV Persistence Workshop 2019, Abstract OP 8.6 (see <a href="#">abstract book</a> ) <a href="#">Int J Antimicrob Agents. 2019 Aug 5. pii: S0924-8579(19)30212-2.</a> CROI 2019, <a href="#">Poster abstract 399</a> AIDS 2018, Abstract WEPDB0105 ( <a href="#">slides</a> , <a href="#">video</a> )
ROADMAP: romidepsin + 3BNC117	<a href="#">NCT02850016</a>	Rockefeller University	Phase IIa	CROI 2020, <a href="#">Abstract 38</a> , <a href="#">Webcast</a>
Adoptive transfer of <b>haploidentical natural killer cells</b> and <b>IL-2</b>	<a href="#">NCT03346499</a>	University of Minnesota - Clinical and Translational Science Institute	Phase II	N/A
<b>ERAMUNE-01</b> (antiretroviral intensification +/- interleukin-7)	<a href="#">NCT01019551</a>	ORVACS/Cytheris SA/Merck Sharp & Dohme Corp./Pfizer	Phase II	<a href="#">AIDS. 2016 Jan;30(2):221-30</a>

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**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>COMBINATIONS (Cont.)</b>				
<b>ERAMUNE-02</b> (DNA/Ad5 vaccine, ART intensification)	<a href="#">NCT00976404</a>	Vical/GenVec/CHERUB/NIH Vaccine Research Center/ORVACS	Phase II	<a href="#">Lancet HIV. 2015 Mar;2(3):e82-91</a> CROI 2014, <a href="#">Poster abstract 422</a>
<b>disulfiram + vorinostat</b>	<a href="#">NCT03198559</a> (suspended due to neurotoxicity)	The Peter Doherty Institute for Infection and Immunity	Phase I/II	<a href="#">AIDS. 2021 Sep 29.</a> CROI 2019, <a href="#">Abstract 401</a>
<b>GTU-MultiHIV B-clade + MVA HIV-B +/- vedolizumab</b> (DNA + viral vector vaccines +/- anti- $\alpha_4\beta_7$ integrin antibody)	<a href="#">NCT02972450</a>	Inserm-ANRS	Phase I/II	Terminated due to the bankruptcy of FITBiotech
<b>Vacc-4x</b> (peptide-based therapeutic vaccine) + <b>romidepsin</b>	<a href="#">NCT02092116</a>	Bionor Immuno AS/Celgene	Phase I/II	CROI 2019, <a href="#">Abstract 397</a> <a href="#">Lancet HIV 2016, July 7, 2016</a>
<b>Vacc-4x + lenalidomide</b>	<a href="#">NCT01704781</a>	Bionor Immuno AS	Phase I/II	IAS 2015 Towards an HIV Cure Symposium, <a href="#">Poster Abstract PE61</a>
<b>vorinostat + hydroxychloroquine + maraviroc (VHM)</b>	<a href="#">NCT02475915</a> <a href="#">NCT02470351</a> (CNS substudy)	South East Asia Research Collaboration with Hawaii	Phase I/II	<a href="#">J Virus Erad. 2020 (6) 100004</a> AIDS 2016, <a href="#">Abstract TUAX0101LB</a>
Adoptive transfer of <b>haploidentical NK cells</b> and <b>N-803</b>	<a href="#">NCT03899480</a>	University of Minnesota - Clinical and Translational Science Institute	Phase I	N/A
<b>AGS-004 + vorinostat</b>	<a href="#">NCT02707900</a>	NIAID	Phase I	<a href="#">Sci Rep. 2020 Mar 20;10(1):5134.</a> IAS 2019, <a href="#">Poster abstract MOPEB272</a>
<b>chemotherapy + maraviroc</b> in people with non-Hodgkin lymphoma	<a href="#">NCT02486510</a>	Fundacion para la Investigacion Biomedica del Hospital Universitario Ramon y Cajal	Phase I	Terminated due to futility criteria
<b>Chidamide + CAR-T or TCR-T cell therapy</b>	<a href="#">NCT03980691</a>	Guangzhou 8th People's Hospital	Phase I	N/A

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>COMBINATIONS (Cont.)</b>				
<b>DCV3</b> (dendritic cell-based vaccine pulsed with autologous inactivated HIV) + pegylated interferon	<a href="#">NCT02767193</a>	Judit Pich Martínez, Fundació Clínic per la Recerca Biomèdica	Phase I	CROI 2020, <a href="#">Abstract 282</a> <a href="#">J Infect Dis. 2020 Apr 27;221(10):1740-1742.</a>
<b>MVA-B</b> (viral vector vaccine) +/- <b>disulfiram</b>	<a href="#">NCT01571466</a>	Hospital Clinic of Barcelona/HIVACAT	Phase I	<a href="#">PLoS One. 2015 Nov 6;10(11):e0141456.</a> <a href="#">J Antimicrob Chemother. 2015 Feb 26. pii: dkv046.</a>
<b>MVA.HIVconsv</b> + <b>romidepsin</b>	<a href="#">NCT02616874</a>	IrsiCaixa	Phase I	<a href="#">AIDS. 2021 Nov 3</a> <a href="#">J Antimicrob Chemother. 2020 Dec 22;dkaa523.</a> <a href="#">Front Immunol. 2020 May 6;11:823.</a> CROI 2019, <a href="#">Abstract 438</a> CROI 2017, <a href="#">Abstract 119LB</a> , <a href="#">Webcast</a>
<b>VRC07-523LS</b> + <b>vorinostat</b>	<a href="#">NCT03803605</a>	University of North Carolina, Chapel Hill	Phase I	<a href="#">J Infect Dis. 2021 Sep 25;jiab487.</a> IAS 2021, <a href="#">Abstract OALA01LB03</a> ( <a href="#">video</a> )
<b>CYTOKINES</b>				
<b>interleukin-2 (IL-2)</b>	<a href="#">NCT03308786</a>	Case Western Reserve University	Phase II	N/A
<b>N-803</b>	<a href="#">NCT02191098</a>	University of Minnesota - Clinical and Translational Science Institute	Phase I	CROI 2018, <a href="#">Poster abstract 356</a>
<b>DUAL-AFFINITY RE-TARGETING (DART) MOLECULES</b>				
<b>MGD014</b>	<a href="#">NCT03570918</a>	<b>MacroGenics</b>	<b>Phase I</b>	<b>N/A</b>
<b>GENE THERAPIES</b>				
<b>OZ1</b>	<a href="#">NCT00074997</a>	Janssen-Cilag Pty Ltd	Phase II	<a href="#">Nat Med. 2009 Mar; 15(3): 285–292.</a>
<b>Cal-1</b> : Dual anti-HIV gene transfer construct	<a href="#">NCT01734850</a>	Calimmune	Phase I/II	N/A

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>GENE THERAPIES (Cont.)</b>				
<b>SB-728mR-T</b> (autologous CD4 T cells genetically modified at the CCR5 gene) + cyclophosphamide	<a href="#">NCT02225665</a>	Sangamo BioSciences	Phase I/II	N/A
<b>SB-728-T</b> + cyclophosphamide	<a href="#">NCT01543152</a>	Sangamo BioSciences	Phase I/II	<a href="#">bioRxiv 2021.02.28.433290</a> CROI 2016, <a href="#">Poster abstract 358LB</a> CROI 2015, <a href="#">Poster abstract 434</a> CROI 2014, <a href="#">Abstract 141</a> , <a href="#">Webcast</a>
<b>SB-728-T</b>	<a href="#">NCT01252641</a>	Sangamo BioSciences	Phase I/II	N/A
<b>VRX496</b> (gene-modified autologous CD4 T cells)	<a href="#">NCT00295477</a>	University of Pennsylvania	Phase I/II	<a href="#">Blood. 2013 Feb 28; 121(9): 1524–1533</a>
<b>C34-CXCR4</b> (autologous CD4 T cells gene-modified to express HIV-inhibiting C34 peptide)	<a href="#">NCT03020524</a>	University of Pennsylvania	Phase I	N/A
<b>HGTV43</b>	No clinicaltrials.gov entry	Enzo Biochem	Phase I	AIDS 2006, <a href="#">Abstract MOPDA06</a>
<b>MazF-T</b> (redirected MazF-CD4 autologous T cells)	<a href="#">NCT01787994</a>	Takara Bio/University of Pennsylvania	Phase I	<a href="#">Molecular Therapy, November 10, 2020</a> CROI 2015, <a href="#">Poster abstract 402</a>
Redirected high affinity Gag-specific T cells	<a href="#">NCT00991224</a>	University of Pennsylvania/Adaptimmune	Phase I	Study closed (safety): <a href="#">Mol Ther. 2015 Jul; 23(7): 1149–1159.</a>
<b>SB-728mR-T</b> + cyclophosphamide	<a href="#">NCT02388594</a>	University of Pennsylvania	Phase I	<a href="#">J Clin Invest. 2021.</a> CROI 2019, <a href="#">Abstract 25</a> , <a href="#">Webcast</a>
<b>SB-728-T</b>	<a href="#">NCT01044654</a>	Sangamo BioSciences	Phase I	<a href="#">bioRxiv 2021.02.28.433290</a> ICAAC 2014, Abstract H-643; ICAAC 2013, Abstract H-1464c
<b>SB-728-T</b>	<a href="#">NCT00842634</a>	Sangamo Biosciences/University of Pennsylvania	Phase I	<a href="#">N Engl J Med. 2014 Mar 6;370(10):901–10</a>

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## Research Toward a Cure November 15, 2021

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>GENE THERAPIES FOR HIV-POSITIVE PEOPLE WITH CANCERS</b>				
Stem cells gene-modified with M87o vector encoding HIV-inhibiting C46 peptide	<a href="#">NCT00858793</a>	Universitätsklinikum Hamburg-Eppendorf	Phase I/II	N/A
Stem cells gene-modified to encode multiple anti-HIV RNAs (rHIV7-shI-TAR-CCR5RZ)	<a href="#">NCT00569985</a>	City of Hope Medical Center	Phase I	<a href="#">Sci Transl Med. 2010 Jun 16; 2(36): 36ra43.</a>
<b>IMAGING STUDIES</b>				
123I radiolabeled 3BNC117	<a href="#">NCT03468582</a>	University of Lausanne Hospitals	Phase I	N/A
Radiolabeled 3BNC117 + Copper-64 radio isotope followed by MRI/PET scanning to detect HIV in vivo	<a href="#">NCT03063788</a>	Bayside Health	Phase I	<a href="#">EBioMedicine. 2021 Feb 25;65:103252.</a> AIDS 2020, <a href="#">Abstract PEA0060</a>
<b>IMMUNE CHECKPOINT INHIBITORS</b>				
<b>cemiplimab</b> (anti-PD-1 antibody)	<a href="#">NCT03787095</a>	NIAID	Phase I/II	Pre-CROI Community HIV Cure Research Workshop 2020 ( <a href="#">slides</a> , <a href="#">video</a> ) <a href="#">ACTG announcement</a>
<b>BMS-936559</b> (anti-PD-L1 antibody)	<a href="#">NCT02028403</a>	National Institute of Allergy and Infectious Diseases (NIAID)	Phase I	<a href="#">J Infect Dis. 2017 Jun 1;215(11):1725-1733</a> CROI 2016, <a href="#">Abstract 25</a> , <a href="#">Webcast</a>
<b>ipilimumab</b> (anti-CTLA-4 antibody)	<a href="#">NCT03407105</a>	Medarex	Phase I	<a href="#">PLoS One. 2018 Jun 7;13(6):e0198158</a>
<b>IRON CHELATORS</b>				
<b>deferiprone</b>	<a href="#">NCT02456558</a>	ApoPharma	Phase I	N/A
<b>JANUS KINASE INHIBITORS</b>				
<b>ruxolitinib</b>	<a href="#">NCT02475655</a>	NIAID	Phase II	<a href="#">J Clin Pharmacol. 2021 Jun 24.</a> <a href="#">Clin Infect Dis. 2021 ciab212</a> CROI 2019, <a href="#">Abstract 37</a> , <a href="#">Webcast</a>

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## Research Toward a Cure November 15, 2021

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>LATENCY-REVERSING AGENTS</b>				
<b>disulfiram</b> (acetaldehyde dehydrogenase inhibitor)	<a href="#">NCT01286259</a>	University of California, San Francisco/ Johns Hopkins University/amfAR	Not specified	<a href="#">Clin Infect Dis. 2014 58 (6): 883–90</a>
<b>Chidamide</b>	<a href="#">NCT02902185</a>	Tang-Du Hospital	Phase II/III	N/A
<b>vorinostat</b> (HDAC inhibitor)	<a href="#">NCT01365065</a>	Bayside Health/Merck	Phase II	<a href="#">PLoS Pathog. 2014;10(10):e1004473</a>
<b>valproic acid</b> (HDAC inhibitor)	<a href="#">NCT00289952</a>	McGill University/Canadian Foundation for AIDS Research/CIHR Canadian HIV Trials Network	Phase II	<a href="#">HIV Med. 2012 May;13(5):291–6</a>
<b>valproic acid</b>	<a href="#">NCT00614458</a>	University of North Carolina at Chapel Hill/NIAID/Abbott/Merck Sharp & Dohme	Phase II	<a href="#">PLoS One. 2010 5(2): e9390</a>
<b>Chidamide</b> (HDAC inhibitor)	<a href="#">NCT02513901</a>	Tang-Du Hospital	Phase I/II	<a href="#">HIV Med. 2020 Dec;21(11):747-757.</a> AIDS 2018, Abstract WEAA0101 ( <a href="#">slides</a> , <a href="#">video</a> )
<b>disulfiram</b>	<a href="#">NCT01944371</a>	University of California, San Francisco/Monash University/amfAR	Phase I/II	CROI 2015, <a href="#">Poster abstract 428LB</a>
<b>panobinostat</b> (HDAC inhibitor)	<a href="#">NCT01680094</a>	University of Aarhus/Massachusetts General Hospital/Monash University/Karolinska Institutet/Novartis/amfAR	Phase I/II	CROI 2015, <a href="#">Abstract 109</a> , <a href="#">Webcast The Lancet HIV. 2014 Oct; 1(1): e13–e21</a>
<b>romidepsin</b> (HDAC inhibitor)	<a href="#">NCT01933594</a>	AIDS Clinical Trials Group/NIAID/Gilead	Phase I/II	<a href="#">The Journal of Infectious Diseases, jiaa777</a> CROI 2019, <a href="#">Abstract 26</a> , <a href="#">Webcast</a> CROI 2018, <a href="#">Abstract 72</a> , <a href="#">Webcast</a>
<b>valproic acid + pyrimethamine</b>	<a href="#">NCT03525730</a>	Erasmus Medical Center	Phase I/II	N/A

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/ Presented Data
<b>LATENCY-REVERSING AGENTS (Cont.)</b>				
<b>vorinostat</b>	<a href="#">NCT01319383</a>	University of North Carolina at Chapel Hill/NIAID/Merck.	Phase I/II	<a href="#">J Clin Invest. 2017 Aug 1;127(8):3126-3135.</a> <a href="#">J Infect Dis. 2014 Sep 1;210(5):728-35</a> <a href="#">Nature. 2012 Jul 25;487(7408):482-5</a>
<b>bryostatatin 1</b> (PKC agonist)	<a href="#">NCT02269605</a>	Fundacion para la Investigacion Biomedica del Hospital Universitario Ramon y Cajal	Phase I	<a href="#">AIDS. 2016 Jun 1;30(9):1385-92.</a>
<b>mTOR INHIBITORS</b>				
Impact of <b>Everolimus</b> on HIV persistence post kidney or liver transplant	<a href="#">NCT02429869</a>	UCSF	Phase IV	<a href="#">Am J Transplant. 2020 Aug 11</a>
<b>Sirolimus</b>	<a href="#">NCT02440789</a>	ACTG	Phase I/II	CROI 2019, <a href="#">Abstract 131</a> , <a href="#">Webcast</a>
<b>metformin</b>	<a href="#">NCT02659306</a>	McGill University Health Center	Phase I	<a href="#">EBioMedicine 65 (2021) 103270</a> CROI 2020, <a href="#">Poster abstract 229</a> CROI 2019, <a href="#">Poster abstract 301</a>
<b>OBSERVATIONAL STUDIES</b>				
<b>ACTG A5321:</b> Decay of HIV-1 reservoirs in subjects on long-term antiretroviral therapy: The ACTG HIV reservoirs cohort (AHRC) study	N/A	AIDS Clinical Trials Group	N/A	<a href="#">medRxiv 2021.11.08.21266096</a> CROI 2021, <a href="#">Abstract 241</a> , <a href="#">Webcast</a> HIV Persistence Workshop 2019, Abstracts OP 4.6, 5.6 & PP 4.4 (see <a href="#">abstract book</a> ) CROI 2018, <a href="#">Abstract 119</a> , <a href="#">Webcast</a> <a href="#">Poster abstract 403LB</a> <a href="#">PLoS Pathog. 2017 Apr; 13(4): e1006285</a>
<b>ANRS EP 44:</b> Residual replication of HIV-1 in the gut associated lymphoid tissue (GALT)	<a href="#">NCT01038401</a>	Inserm-ANRS	N/A	N/A

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/ Presented Data
<b>OBSERVATIONAL STUDIES (Cont.)</b>				
<b>ANRS EP63:</b> A chronological study of the formation of HIV cellular reservoirs through the expression of surface markers on CD4+ T lymphocytes, including CD32a	<a href="#">NCT03298360</a>	Inserm-ANRS	N/A	N/A
<b>APACHE:</b> Monitored antiretroviral pause in chronically infected HIV+ individuals with long-lasting suppressed viremia	<a href="#">NCT03198325</a>	Ospedale San Raffaele	N/A	<a href="#">Viruses. 2021 Jul 19;13(7):1403.</a> <a href="#">AIDS: May 14, 2021</a> <a href="#">J Antimicrob Chemother. 2021 Mar 7:dkab060.</a> <a href="#">J Antimicrob Chemother. 2020 Jun 15:dkaa231.</a> HIV Persistence 2019, Abstract PP 5.7.10 (see <a href="#">abstract book</a> ) <a href="#">J Antimicrob Chemother. 2019 April 23. pii: dkz138</a>
Biomarkers to predict time to plasma HIV RNA rebound (ACTG A5345)	<a href="#">NCT03001128</a>	AIDS Clinical Trials Group	N/A	<a href="#">Clin Infect Dis. 2021 Jun 12;ciab541.</a> CROI 2021, <a href="#">Abstract 311</a> , <a href="#">Webcast</a> AIDS 2020, <a href="#">Abstract PDB0102</a>
<b>CHERUB 003</b> (prospective HIV chemotherapy cohort study)	<a href="#">NCT01902693</a>	Imperial College London/CHERUB	N/A	N/A
<b>CLEAC:</b> Comparison of late versus early antiretroviral therapy in HIV-infected children	<a href="#">NCT02674867</a>	Inserm-ANRS	N/A	<a href="#">Front Immunol. 2021 Apr 22;12:662894.</a> <a href="#">Clinical Infectious Diseases, ciaa1931</a> AIDS 2018, <a href="#">Abstract WEAB0208LB (slides)</a>
Effects of dolutegravir based regimen on HIV-1 reservoir and immune activation	<a href="#">NCT02557997</a>	University Hospital, Strasbourg, France	N/A	<a href="#">J Antimicrob Chemother. 2017 Dec 13.</a>

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/ Presented Data
<b>OBSERVATIONAL STUDIES (Cont.)</b>				
<b>EPIC4:</b> Early Pediatric Initiation: Canada Child cure Cohort Study	<a href="#">CTN S 281</a>	Canadian Institutes of Health Research (CIHR)/Canadian Foundation for AIDS Research (CANFAR)/International AIDS Society (IAS)	N/A	<a href="#">AIDS: December 02, 2019</a> <a href="#">Clin Infect Dis. 2019 Mar 28. pii: ciz251</a> 2015 IAS Towards an HIV Cure Symposium, <a href="#">Abstract PE69LB</a> AIDS 2014, <a href="#">Abstract TUAB0206LB (video)</a> <a href="#">Clin Infect Dis. (2014) 59 (7): 1012-1019.</a>
<b>EURECA:</b> Exploratory study of cellular reservoirs in blood	<a href="#">NCT02858414</a>	Centre Hospitalier Universitaire de Besancon	N/A	<a href="#">Viruses. 2018 Apr 13;10(4).</a>
<b>FXReservoir:</b> Study of the effects of farnesoid X receptor ligands on reactivation of latent provirus	<a href="#">NCT03618862</a>	Hospices Civils de Lyon	N/A	N/A
Genotyping FcγRs genes	<a href="#">NCT03130296</a>	University Hospital, Strasbourg, France	N/A	<a href="#">Genes Immun. 2020 Aug;21(4):263-268</a>
<b>HCURE:</b> Analysis of the impact of HCV direct antiviral agents (DAA) on antiviral Immunity and HIV DNA reservoir in coinfecting HIV-HCV patients	<a href="#">NCT03244371</a>	Assistance Publique Hopitaux De Marseille	N/A	N/A
<b>HIV-PRADA:</b> HIV persistence in lymph node and peripheral blood	<a href="#">NCT03426189</a>	University of Melbourne	N/A	CROI 2021, <a href="#">Abstract 301</a> , <a href="#">Webcast</a>
HIV resistance and treatment strategies	<a href="#">NCT00581802</a>	NIAID	N/A	N/A
<b>HIV-STAR:</b> HIV sequencing after treatment interruption to identify the clinically relevant anatomical reservoir	<a href="#">NCT02641756</a>	University Hospital, Ghent	N/A	IAS 2021, <a href="#">Abstract PEA036 (poster, video)</a> <a href="#">J Virus Erad. 2021 Jan 23;7(1):100029.</a> CROI 2020, <a href="#">Abstract 324</a> <a href="#">Cell Host Microbe. 2019 Sep 11;26(3):347-358.e7.</a> AIDS 2018, Abstract <a href="#">WEAA0201 (slides, video)</a> , poster abstract <a href="#">THPEB096</a>
<b>HSCT-HIV:</b> Allogeneic hematopoietic stem cell transplantation in HIV+ patients	<a href="#">NCT02732457</a>	Kirby Institute	N/A	Terminated by Protocol Steering Committee

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/ Presented Data
<b>OBSERVATIONAL STUDIES (Cont.)</b>				
<b>ImmunoCo27:</b> Co-adaptation between HIV and CD8 cellular immunity	<a href="#">NCT02886416</a>	Inserm-ANRS	N/A	N/A
<b>IMPAACT 2015:</b> Evaluation of the HIV-1 reservoir in the CNS of perinatally-infected youth and young adults with cognitive impairment	<a href="#">NCT03416790</a>	IMPAACT	N/A	N/A
Impact of a short-term ATI and re-initiation of antiretroviral therapy on immunologic and virologic parameters in HIV+ individuals	<a href="#">NCT03225118</a>	NIAID	N/A	<a href="#">J Infect Dis. 2020 May 22;jjaa270.</a>
In vitro autologous vaccine development to activate HIV reservoirs	UK CPMS17532	Imperial College London/amfAR	N/A	N/A
<b>ISALA:</b> Analytical treatment interruption in HIV positive patients	<a href="#">NCT02590354</a>	Institute of Tropical Medicine, Belgium	N/A	<a href="#">J Int AIDS Soc. 2020 Feb;23(2):e25453.</a> CROI 2019, <a href="#">Poster abstract 389</a> , <a href="#">Webcast</a>
<b>LoViReT:</b> Low viral reservoir treated patients	<a href="#">NCT02972931</a>	IrsiCaixa	N/A	<a href="#">EBioMedicine. 2020 Jun 21;57:102830.</a> CROI 2020, <a href="#">Abstract 374</a> HIV Persistence Workshop 2019, Abstract OP 3.5 (see <a href="#">abstract book</a> ) HIV Persistence Workshop 2017, <a href="#">Abstract OP 8.6</a>
<b>MUCOVIR:</b> Exploration of HIV reservoirs	<a href="#">NCT01019044</a>	Objectif Recherche Vaccins SIDA	N/A	<a href="#">JAIDS. 2013 Mar 1;62(3):255-9</a>
<b>PembroHIV:</b> Treatment with immunological checkpoint inhibitors of HIV+ individuals with cancer	<a href="#">NCT03767465</a>	IrsiCaixa	N/A	HIV Persistence Workshop 2019, Abstract PP 4.2 (see <a href="#">abstract book</a> )
Role of anti-Tat immunity on disease progression in HIV+ asymptomatic adults	<a href="#">NCT01029548</a>	National HIV/AIDS Research Center (CNAIDS), Istituto Superiore di Sanità, Rome, Italy	N/A	<a href="#">Retrovirology. 2014 Jun 24;11:49.</a>
Role of anti-Tat immunity on disease progression in HIV+ cART-treated adults	<a href="#">NCT01024556</a>	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	N/A	<a href="#">EBioMedicine 00 (2021) 103306</a>

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>OBSERVATIONAL STUDIES (Cont.)</b>				
Seroprevalence of anti-Tat antibodies in HIV+ South African patients	<a href="#">NCT01359800</a>	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	N/A	N/A
Size of the HIV-1 reservoir and ongoing replication in defined cohorts	UK CPMS16004	University College London/amfAR	N/A	N/A
Specimen repository for HIV immunopathogenesis	<a href="#">NCT03579381</a>	AIDS Healthcare Foundation	N/A	N/A
Tissue drug levels of HIV medications	<a href="#">NCT01490346</a>	University of Minnesota – Clinical and Translational Science Institute/NIAID	N/A	<a href="#">Proc Natl Acad Sci USA. 2014 Feb 11;111(6):2307-12.</a>
<b>ULTRASTOP</b> (Towards HIV Functional Cure) <b>ERAMUNE-03</b> (antiretroviral treatment interruption)	<a href="#">NCT01876862</a>	Objectif Recherche VACcin Sida (ORVACS)/Fondation Bettencourt Schueller	N/A	<a href="#">AIDS, Published Ahead-of-Print, January 4, 2016</a>
<b>VIRECT</b> : Impact of pre-ART CD4 T cell level on the rectal reservoir in long-term HIV-1 treated men	<a href="#">NCT02526940</a>	Centre Hospitalier Universitaire de Saint Etienne	N/A	N/A
<b>STEM CELL TRANSPLANTATION</b>				
<b>HIVECT</b> : HIV eradication through cord-blood transplantation	<a href="#">NCT02923076</a>	Puerta de Hierro University Hospital	N/A	N/A
<b>BMT CTN 0903</b> : Allogeneic transplant in individuals with chemotherapy-sensitive hematologic malignancies and coincident HIV infection	<a href="#">NCT01410344</a>	National Heart, Lung, & Blood Institute/National Cancer Institute/Blood & Marrow Transplant Clinical Trials Network	Phase II	<a href="#">Biol Blood Marrow Transplant. 2019 Jul 4. pii: S1083-8791(19)30417-3. Journal of Clinical Oncology 35, no. 15 suppl (May 2017) 7006-7006.</a>
HLA-mismatched unrelated donor bone marrow transplantation	<a href="#">NCT02793544</a>	Center for International Blood and Marrow Transplant Research	Phase II	<a href="#">HRSA Advisory Council on Blood Stem Cell Transplantation, September 25, 2020</a>
Immune response after stem cell transplant in HIV-positive patients with hematologic cancer	<a href="#">NCT00968630</a>	Fred Hutchinson Cancer Research Center	Phase II	N/A
Optimized antiretroviral therapy during allogeneic hematopoietic stem cell transplantation in HIV-1 individuals	<a href="#">NCT01836068</a>	Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins	Phase I	<a href="#">JAIDS 2021 Nov 8. AIDS Res Hum Retroviruses. 2021 Jun 9. Lancet HIV. 2020 Jul 7: S2352-3018(20)30073-4.</a>

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## Research Toward a Cure November 15, 2021

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>THERAPEUTIC VACCINES</b>				
<b>AGS-004</b> (personalized therapeutic vaccine utilizing patient-derived dendritic cells and HIV antigens)	<a href="#">NCT00672191</a>	Argos Therapeutics	Phase IIb	<a href="#">J Acquir Immune Defic Syndr. 2016 May 1;72(1):31-8</a>
<b>AGS-004</b>	<a href="#">NCT01069809</a>	Argos Therapeutics	Phase IIb	<a href="#">AIDS Res Hum Retroviruses. 2018 Jan;34(1):111-122</a> IAS 2015 Towards an HIV Cure Symposium, <a href="#">Combination Therapy Trials Roundtable</a> CROI 2014, <a href="#">Poster abstract 344</a>
<b>iHIVARNA-01</b> (TriMix & HIV antigen naked messenger RNA)	<a href="#">NCT02888756</a>	Rob Gruters, Erasmus Medical Center	Phase IIa	<a href="#">Vaccines (Basel). 2019 Dec 6;7(4). pii: E209.</a>
<b>DermaVir</b> (topically applied DNA vaccine)	<a href="#">NCT00711230</a>	Genetic Immunity	Phase II	N/A
<b>DermaVir</b>	<a href="#">NCT00918840</a>	Genetic Immunity	Phase II	N/A
<b>GSK Biologicals HIV Vaccine 732462</b> (p24-RT-Nef-p17 fusion protein vaccine)	<a href="#">NCT01218113</a>	GlaxoSmithKline	Phase II	<a href="#">Medicine (Baltimore). 2016 Feb;95(6):e2673</a>
<b>GTU-multiHIV + LIPO-5</b> (DNA + lipopeptide vaccines)	<a href="#">NCT01492985</a>	Inserm-ANRS	Phase II	<a href="#">J Infect Dis. 2019 Jul 2;220(Supplement 1):S5-S6</a> <a href="#">AIDS. 2018 Oct 15</a> <a href="#">HIVR4P 2016, Abstract P27.09</a>
<b>Tat protein vaccine</b>	<a href="#">NCT01513135</a> <a href="#">NCT02712489</a> (extended follow-up study)	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	Phase II	<a href="#">Retrovirology. 2016 Jun 9;13(1):34</a>
<b>Tat protein vaccine</b>	<a href="#">NCT00751595</a> <a href="#">NCT02118168</a> (extended follow-up study)	Barbara Ensoli, MD, Istituto Superiore di Sanità	Phase II	<a href="#">Front. Immunol. February 13, 2019</a> <a href="#">Retrovirology. 2015 Apr 29;12(1):33</a> <a href="#">PLoS One. 2010 Nov 11;5(11):e13540</a>

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

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<b>THERAPEUTIC VACCINES (Cont.)</b>				
Vacc-4x (peptide-based vaccine)	<a href="#">NCT01712256</a>	Bionor Immuno AS	Phase II	<a href="#">PLoS One. 2019 Jan 30;14(1):e0210965.</a>
Vacc-4x	<a href="#">NCT00659789</a>	Bionor Immuno AS	Phase II	<a href="#">Lancet Infect Dis. 2014 Apr;14(4):291-300</a>
VAC-3S (peptide-based vaccine)	<a href="#">NCT02041247</a>	InnaVirVax	Phase II	<a href="#">NPJ Vaccines (2019) 4:1</a> IAS 2017, Abstract MOSY0404 ( <a href="#">slides</a> , <a href="#">video</a> )
VAC-3S	<a href="#">NCT02390466</a>	InnaVirVax	Phase I/IIa	N/A
VAC-3S (peptide-based vaccine)	<a href="#">NCT01549119</a>	InnaVirVax	Phase I/IIa	IAS 2015 Towards an HIV Cure Symposium, <a href="#">Poster abstract PE67 LB</a> 30 Years of HIV Science, 2013, <a href="#">Poster abstract 145</a>
AGS-004	<a href="#">NCT02042248</a>	University of North Carolina at Chapel Hill/Argos Therapeutics/U.S. National Institutes of Health (NIH)	Phase I/II	N/A
Autologous HIV-1 ApB DC Vaccine	<a href="#">NCT00510497</a>	Sharon Riddler, University of Pittsburgh/NIAID	Phase I/II	<a href="#">J Infect Dis. 2016 May 1;213(9):1400-9</a>
Dendritic cells pulsed with chemically inactivated HIV	<a href="#">NCT02766049</a>	University of Sao Paulo General Hospital	Phase I/II	<a href="#">J. Cellular Immunotherapy xx (2016) 1-10</a> <a href="#">J Int AIDS Soc. 2014 Jan 10;17:18938</a>
Dendritic cell vaccine	<a href="#">NCT00833781</a>	Massachusetts General Hospital	Phase I/II	N/A
Dendritic cell vaccine (DCV-2)	<a href="#">NCT00402142</a>	Hospital Clinic of Barcelona	Phase I/II	<a href="#">Sci Transl Med. 2013 Jan 2;5(166):166ra2</a>
DermaVir	<a href="#">NCT00270205</a>	AIDS Clinical Trials Group	Phase I/II	<a href="#">JAIDS. 2013 Dec 1;64(4):351-9</a>

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<b>THERAPEUTIC VACCINES (Cont.)</b>				
<b>GTU®-MultiHIV B clade vaccine</b>	<a href="#">NCT02457689</a>	Imperial College London	Phase I/II	<a href="#">Front Immunol. 2019 Dec 13;10:2911.</a>
<b>p24CE1/2 + p55<sup>gag</sup> conserved-element DNA vaccines</b>	<a href="#">NCT03560258</a>	NIAID	Phase I/II	N/A
<b>PENNVAX-GP or INO-6145 + IL-12 DNA adjuvant (INO-9012) (DNA vaccines)</b>	<a href="#">NCT03606213</a>	Steven Deeks, UCSF	Phase I/II	N/A
<b>Tat Oyi (protein-based vaccine)</b>	<a href="#">NCT01793818</a>	Biosantech	Phase I/II	<a href="#">Retrovirology. 2016 Apr 1;13:21</a>
<b>THV01 (lentiviral vector-based therapeutic vaccine)</b>	<a href="#">NCT02054286</a>	Theravectys S.A.	Phase I/II	N/A
<b>TUTI-16 (synthetic HIV-1 Tat epitope vaccine)</b>	<a href="#">NCT01335191</a>	Thymon, LLC	Phase I/II	<a href="#">Hum Vaccin Immunother. 2012 Oct;8(10):1425-30</a>
<b>Vacc-C5 (peptide-based vaccine)</b>	<a href="#">NCT01627678</a>	Bionor Immuno AS	Phase I/II	<a href="#">JAIDS April 2018;77:57</a> <a href="#">BMC Infect Dis. 2017 Mar 24;17(1):228</a>
<b>Ad26.Mos.HIV + MVA-Mosaic</b>	<a href="#">NCT02919306</a>	Janssen Vaccines & Prevention B.V.	Phase I	<a href="#">Nat Med March 23, 2020.</a> IAS 2019 HIV & HBV Cure Forum, <a href="#">FT5-1 Flash Talk</a>
<b>AFO-18 (peptide-based vaccine)</b>	<a href="#">NCT01141205</a>	Statens Serum Institut (SSI)/Ministry of the Interior and Health, Denmark/European and Developing Countries Clinical Trials Partnership (EDCTP)	Phase I	<a href="#">AIDS Res Hum Retroviruses. 2013 Nov;29(11):1504-12</a>
<b>AFO-18 (peptide-based vaccine)</b>	<a href="#">NCT01009762</a>	SSI/Rigshospitalet/Hvidovre University Hosp./Ministry of Interior & Health, Denmark	Phase I	<a href="#">Clin Immunol. 2013 Feb;146(2):120-30</a>
<b>AT20-KLH</b>	MED-AT20-001	Medestea Research & Production SpA, Turin	Phase I	<a href="#">Vaccine. 2014 Feb 19;32(9):1072-8</a>
<b>ChAdV63.HIVcons + MVA.HIVcons<sup>v</sup> (viral vector vaccines)</b>	<a href="#">NCT01712425</a>	IrsiCaixa/Fundació Lluita contra la SIDA/Hospital Clinic of Barcelona/ HIVACAT/University of Oxford	Phase I	<a href="#">EClinicalMedicine. 2019 Jun 5;11:65-80.</a> IAS 2015, <a href="#">Poster abstract MOPEA036</a>

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**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>THERAPEUTIC VACCINES (Cont.)</b>				
Dendritic cells loaded with HIV-1 lipopeptides	<a href="#">NCT00796770</a>	Baylor Research Institute/ANRS	Phase I	<a href="#">PLoS Pathog. 2019 Sep 9;15(9):e1008011.</a> <a href="#">Retrovirology 2012, 9(Suppl 2):P328</a>
DermaVir	<a href="#">NCT00712530</a>	Genetic Immunity	Phase I	<a href="#">PLoS One. 2012 7(5): e35416</a>
D-GPE DNA + M-GPE MVA (DNA + viral vector vaccines)	<a href="#">NCT01881581</a>	Centers for Disease Control and Prevention, China	Phase I	N/A
DNA.HTI + MVA.HTI + ChAdOx1.HTI (DNA + viral vector vaccines)	<a href="#">NCT03204617</a>	Aelix Therapeutics	Phase I	CROI 2021, <a href="#">Abstract 161</a> , <a href="#">Webcast</a>
HIVAX (lentiviral vector-based therapeutic vaccine)	<a href="#">NCT01428596</a>	GeneCure Biotechnologies	Phase I	<a href="#">Vaccine. 2020 May 6;S0264-410X(20)30485-0</a> <a href="#">Vaccine. 2016 Apr 27;34(19):2225-32</a>
HIV-v (peptide-based vaccine)	<a href="#">NCT01071031</a>	PepTcell Limited	Phase I	<a href="#">Vaccine. 2013 Nov 19;31(48):5680-6</a>
iHIVARNA-01 (TriMix & HIV antigen naked messenger RNA)	<a href="#">NCT02413645</a>	Biomedical Research Institute August Pi i Sunyer (IDIBAPS)	Phase I	<a href="#">AIDS. 2018 Nov 13;32(17):2533-2545.</a>
JS7 DNA + MVA62B (DNA + viral vector vaccines)	<a href="#">NCT01378156</a>	GeoVax, Inc.	Phase I	<a href="#">PLoS One. 2016 Oct 6;11(10):e0163164</a>
MAG pDNA vaccine +/- IL-12	<a href="#">NCT01266616</a>	NIAID	Phase I	<a href="#">J Acquir Immune Defic Syndr. 2016 Feb 1;71(2):163-71.</a>
MAG-pDNA + rVSV <sub>IN</sub> HIV-1 Gag (DNA + viral vector vaccines)	<a href="#">NCT01859325</a>	NIAID/Profectus Biosciences, Inc.	Phase I	<a href="#">J. Virology May 20, 2020</a> CROI 2019, <a href="#">Poster abstract 392</a> , <a href="#">Webcast</a> <a href="#">Sci Transl Med. 2017 Dec 6;9(419). pii: eaan8848</a>
MVA.HIVconsv	<a href="#">NCT01024842</a>	University of Oxford/Medical Research Council	Phase I	N/A

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# Research Toward a Cure November 15, 2021

**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/ Presented Data
<b>THERAPEUTIC VACCINES (Cont.)</b>				
<b>PENNVAX-B (Gag, Pol, Env) + electroporation</b>	<a href="#">NCT01082692</a>	Inovio Pharmaceuticals	Phase I	<a href="#">Retrovirology 2012, 9(Suppl 2):P276</a>
<b>PENNVAX-B +/- IL-12 or IL-15</b>	<a href="#">NCT00775424</a>	University of Pennsylvania	Phase I	N/A
Recombinant adenovirus type 5 vaccine	<a href="#">NCT02762045</a>	China CDC	Phase I	N/A
<b>rMVA-HIV + rFPV-HIV (viral vector vaccines) in young adults</b>	<a href="#">NCT00107549</a>	NIAID	Phase I	<a href="#">AIDS. 2011 Nov 28; 25(18): 2227-2234</a>
<b>Tat protein vaccine</b>	<a href="#">NCT00505401</a> <a href="#">NCT01024595</a> (extended follow-up study)	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	Phase I	<a href="#">Rev Recent Clin Trials. 2009 Sep;4(3):195-204</a> <a href="#">Vaccine. 2009 May 26;27(25-26):3306-12</a> <a href="#">AIDS. 2008 Oct 18;22(16):2207-9</a>
<b>TOLL-LIKE RECEPTOR AGONISTS</b>				
<b>MGN1703 toll-like receptor 9 (TLR-9) agonist</b>	<a href="#">NCT02443935</a>	University of Aarhus	Phase Ib/IIa	<a href="#">EBioMedicine. 2019 Jul 9. pii: S2352-3964(19)30440-2.</a> <a href="#">AIDS. 2019 Mar 29</a> <a href="#">Clin Infect Dis. 2017 Mar 9</a>
<b>Poly-ICLC (TLR-3 agonist)</b>	<a href="#">NCT02071095</a>	Nina Bhardwaj, MD/Campbell Foundation/Oncovir, Inc.	Phase I/II	<a href="#">Front Immunol. 2019 Apr 9;10:725.</a>
<b>vesatolimod (TLR-7 agonist) in ART-treated HIV controllers</b>	<a href="#">NCT03060447</a>	Gilead Sciences	Phase Ib	<a href="#">EACS 2021, Abstract PE2/1</a> IAS 2021, <a href="#">Abstract OAA0304 (video)</a> <a href="#">Sci Transl Med. 2021 Jun 23;13(599): eabg3071.</a> CROI 2020, <a href="#">Abstract 40, Webcast</a>
<b>vesatolimod (formerly GS-9620) (TLR-7 agonist)</b>	<a href="#">NCT02858401</a>	Gilead Sciences	Phase Ib	<a href="#">Clinical Infectious Diseases, c1aa1534</a> IAS 2019, <a href="#">Abstract WEAA0304 (slides)</a>

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**Table 3. Completed Studies (Cont.)**

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
<b>TRADITIONAL CHINESE MEDICINE</b>				
<b>Triptolide wilfordii</b>	<a href="#">NCT02219672</a>	Peking Union Medical College	Phase III	N/A
<b>TREATMENT INTENSIFICATION/EARLY TREATMENT</b>				
<b>enfuvirtide</b>	<a href="#">NCT00051831</a>	NIAID	Not listed	<a href="#">J Infect Dis. 2010 Jan 15;201(2):293–6</a>
<b>enfuvirtide</b>	<a href="#">NCT00334022</a>	Canadian Immunodeficiency Research Collaborative	Not listed	N/A
<b>New Era Study:</b> Treatment with multi–drug class (MDC) HAART	<a href="#">NCT00908544</a>	MUC Research GmbH	Not listed	<a href="#">Front Immunol. 2018 Apr 30;9:811</a>
<b>PLUS:</b> Pilot study on the effect of adding raltegravir +/- a second drug on HIV levels in the gut	<a href="#">NCT00884793</a>	University of California, San Francisco	Not listed	<a href="#">J Infect Dis. 2010 Nov 15;202(10):1553–61</a> <a href="#">AIDS. 2010 Oct 23;24(16):2451–60</a>
Anti-HIV medications for people recently infected with HIV	<a href="#">NCT00106171</a>	NIAID	Phase IV	<a href="#">PLoS One. 2015 10(11):e0143259</a>
<b>DIORR:</b> Dolutegravir impact on residual replication	<a href="#">NCT02500446</a>	University of Melbourne	Phase IV	<a href="#">The Lancet HIV, Online First, April 8, 2018</a> CROI 2018, <a href="#">Abstract 71, Webcast</a>
<b>DRONE:</b> Impact of starting a dolutegravir-based regimen on HIV-1 proviral DNA reservoir of treatment naïve and experienced patients	<a href="#">NCT02370979</a>	University Hospital, Strasbourg, France	Phase IV	N/A
<b>LEOPARD:</b> Latency and early neonatal provision of antiretroviral drugs clinical trial	<a href="#">NCT02431975</a>	Columbia University	Phase IV	<a href="#">Clinical Infectious Diseases, ciab586</a> <a href="#">J Clin Med. 2021 May 12;10(10):2074.</a> <a href="#">EClinicalMedicine 18 (2020) 100241</a>

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<b>TREATMENT INTENSIFICATION/EARLY TREATMENT (Cont.)</b>				
<b>ANRS 147 OPTIPRIM:</b> Optimization of primary HIV-1 infection treatment	<a href="#">NCT01033760</a>	Inserm-ANRS	Phase III	<a href="#">PLoS One. 2013; 8(5): e64219.</a> <a href="#">PLoS One. 2013; 8(3): e59767</a> IAS 2013, <a href="#">Abstract WEAB0101</a> IAS Cure Symposium 2013, <a href="#">Presentation</a>
<b>maraviroc</b>	<a href="#">NCT00808002</a>	Germans Trias i Pujol Hospital	Phase III	<a href="#">AIDS. 2014 Jan 28;28(3):325-34</a>
<b>raltegravir + maraviroc</b>	<a href="#">NCT00935480</a>	Centre Hospitalier Intercommunal de Toulon La Seyne sur Mer	Phase III	N/A
<b>raltegravir</b>	<a href="#">NCT00554398</a>	Germans Trias i Pujol Hospital	Phase III	<a href="#">Antivir Ther. 2012;17(2):355-64</a>
<b>tenofovir/emtricitabine + dolutegravir or tenofovir/emtricitabine + darunavir/cobicistat</b>	<a href="#">NCT02987530</a>	Inserm/ANRS	Phase III	N/A
<b>VIRECURE:</b> Impact of extremely early ART to reduce viral reservoir & induce functional cure of HIV infection	<a href="#">NCT02588820</a>	David Garcia Cinca, Hospital Clinic of Barcelona	Phase III	N/A
Intense acute infection study	<a href="#">NCT01154673</a>	University of Toronto	Phase II/III	N/A
<b>maraviroc</b>	<a href="#">NCT00795444</a>	Fundación para la Investigación Biomédica del Hospital Universitario Ramón y Cajal/Pfizer	Phase II	<a href="#">AIDS. 2013 Aug 24; 27(13):2081-8.</a> <a href="#">PLoS One. 2011; 6(12):e27864</a>
<b>peginterferon alfa-2a (Pegasys)</b>	<a href="#">NCT00594880</a>	Wistar Institute	Phase II	<a href="#">EBioMedicine. 2020 Aug 19;59:102945.</a> <a href="#">J Infect Dis. 2013 Jan 15; 207(2): 213-222</a>
<b>peginterferon alfa-2b</b>	<a href="#">NCT01935089</a>	University of Pennsylvania/Wistar Institute	Phase II	<a href="#">AIDS Res Hum Retroviruses. 2020 Dec 15.</a> CROI 2017, <a href="#">Poster abstract 326</a>

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peginterferon alfa-2b	<a href="#">NCT02227277</a>	Wistar Institute	Phase II	HIV Persistence Workshop 2019, Abstract PP 4.1 (see <a href="#">abstract book</a> ) CROI 2019, <a href="#">Abstract 136</a> , <a href="#">Webcast</a>
raltegravir	<a href="#">NCT00520897</a>	Canadian Immunodeficiency Research Collaborative	Phase II	<a href="#">AIDS. 2012 Jan 14;26(2):167-74</a>
raltegravir	<a href="#">NCT00807443</a>	Fundación para la Investigación Biomédica del Hospital Universitario Ramón y Cajal	Phase II	<a href="#">AIDS. 2012 Sep 24;26(15):1885-94</a>
Viral suppression after analytic treatment interruption in Thai patients who initiated HAART during acute HIV infection	<a href="#">NCT02614950</a>	South East Asia Research Collaboration with Hawaii	Phase II	<a href="#">Nat Med. 2018 Jun 11 [Epub ahead of print]</a> CROI 2017, <a href="#">Abstract 124</a> , <a href="#">Webcast</a>
alpha interferon intensification	<a href="#">NCT01295515</a>	NIAID	Phase I/II	N/A
indinavir + zidovudine + lamivudine + nevirapine	<a href="#">NCT00001644</a>	NIAID	Phase I	N/A

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