

Oral Combinational Antiretroviral Treatment in HIV-1 Infected Humanized Mice

Wenli Mu¹, Anjie Zhen¹, Mayra A. Carrillo¹, Valerie Rezek¹, Heather Martin¹, Miguel Lizarraga¹, Scott Kitchen¹

¹Division of Hematology and Oncology, David Geffen School of Medicine, University of California, Los Angeles

Corresponding Author

Scott Kitchen

Skitchen@ucla.edu

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jove.com/video/63696

Materials

Name	Company	Catalog Number	Comments
60 mm petri dish	Thermo Scientific Nunc	150288	For aliquoting ART food
APC anti-human CD8 Antibody	Biolegend	344722	For flow cytometry
BD LSRFortessa	BD biosciences		For flow data collection
CD34 microbeads	Miltenyi Biotec	130-046-702	For NSG-BLT mice generation
Centrifuge tubes	Falcon	14-432-22	For dissolving ART
DietGel Boost	ClearH2O	72-04-5022	For making ART food
Elvitegravir	Gilead		Gifted from Gilead
Emtricitabine	Gilead		Gifted from Gilead
FITC anti-human CD3 Antibody	Biolegend	317306	For flow cytometry
Flowjo software	FlowJo		For flow cytometry data analysis
HIV-1 forward primer: 5'-CAATGGCAGCAATTCACCA-3';	IDT	Customized	For viral load RT-PCR
HIV-1 probe: 5'-[6-FAM]CCCACCAACAGCGGCCTTAACTG [Tamra-Q]-3';	IDT	Customized	For viral load RT-PCR
HIV-1 reverse primer: 5'-GAATGCCAAATTCCTGCTTGA-3';	IDT	Customized	For viral load RT-PCR
Human fetal tissue	Advanced Bioscience Resources, Inc		
Mice, strain NOD.Cg-Prkdcscid Il2rgtm1Wjl/SzJ	The Jackson Laboratory	5557	For constructing the humanized mice
Pacific Blue anti-human CD45	Biolegend	304022	For flow cytometry
PerCP anti-human CD4 Antibody	Biolegend	300528	For flow cytometry
QIAamp Viral RNA Kits	Qiagen	52904	For measuring viral load
Raltegravir	Merck		Gifted from Merck
Sterile cell scrapers	Thermo Scientific	179693	For aliquoting ART food
TaqMan RNA-To-Ct 1-Step Kit	Applied Biosystems	4392653	For plasma viral load detection
Tenofovir disoproxil fumarate	Gilead		Gifted from Gilead
Trimethoprim-Sulfamethoxazole	Pharmaceutical Associates	NDC 0121-0854-16	For keeping ART food sterile. Each 5mL teaspoon contains 200 mg Sulfamethoxazole, USP

		40 mg Trimethoprim, USP NMT 0.5% Alcohol
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