

Joseph Anderson, Ph.D.

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| Clinical Interests | My research interests are in HIV stem cell gene therapy and focus on translating key research findings into clinical applications for the treatment of infected individuals. |
| Title | Assistant Adjunct Professor |
| Specialty | Infectious Diseases, Internal Medicine |
| Department | Internal Medicine |
| Division | Infectious Diseases |
| Center/Program Affiliation | Northern California Center for AIDS Research |
| Education | Ph.D., Colorado State University, Fort Collins, Colorado, 2005 B.S., University of Wisconsin, La Crosse, Wisconsin, 2000 |
| Professional Memberships | American Society of Gene and Cellular Therapy |
| Honors and Awards | Acceptance into the UC Davis Mentored Clinical Research Training Program., 2013 First place award for poster at "Medical Student Research and Poster Forum" at UC-Davis Medical Center, Symposium, 2009 American Society of Hematology Travel Award for abstract poster presentation at ASH conference, 2008 |
| Select Recent Publications | Kalomoiris S, Lawson J, Chen RX, Bauer G, Nolta JA, and Anderson JS. CD25 preselective anti-HIV vectors for improved HIV gene therapy. <i>Human Gene Therapy Methods</i> , 2012;23: 366-375. Anderson JS and Bauer G. Fighting HIV with stem cell therapy: one step closer to human trials? <i>Expert Review of Anti-Infective Therapy</i> , 2012;10: 1071-1073. Walker JE, Chen RX, McGee J, Nacey C, Pollard RB, Abedi M, Bauer G, Nolta JA, and Anderson JS. Generation of an HIV-1-resistant immune system with CD34(+) hematopoietic stem cells transduced with a triple-combination anti-HIV lentiviral vector. <i>Journal of Virology</i> , 2012;86: 5719-5729. |

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Kambal A, Mitchell G, Cary W, Gruenloh W, Jung Y, Kalomoiris S, Nacey C, McGee J, Lindsey M, Fury B, Bauer G, Nolta J., Anderson J., Generation of HIV-1 resistant and functional macrophages from hematopoietic stem cell-derived induced pluripotent stem cells. *Molecular Therapy*, 2011;19(3): 584-593.

Anderson J, Nolta J, and Bauer G. Pre-integration HIV-1 inhibition by a combination lentiviral vector containing a chimeric TRIM5 protein, a CCR5 shRNA, and a TAR decoy. *Molecular Therapy*, 2009;17: 2103-2114.

Anderson J, Walker J, Nolta J, and Bauer G. Specific Transduction of HIV-Susceptible Cells for CCR5 Knockdown and Resistance to HIV Infection: A Novel Method for Targeted Gene Therapy and Intracellular Immunization. *Journal of AIDS*, 2009;52(2): 152-161.

Anderson J, Akkina R., HIV-1 restriction by a human-rhesus chimeric TRIM5alpha in CD34+ cell derived macrophages in vitro and in T cells in vivo in SCID-hu mice transplanted with human tissue. *Human Gene Therapy*, 2008;19: 217-228.

Anderson J, Akkina R., Complete knockdown of CCR5 by lentiviral vector-expressed siRNAs and protection of transgenic macrophages against HIV-1 infection. *Gene Therapy*, 2007;17: 1287 - 1297.

Anderson J, Li MJ, Palmer B, Remling L, Li S, Yam P, Yee JK, Rossi J, Zaia J, and Akkina R. Safety and efficacy of a lentiviral vector containing three anti-HIV genes CCR5 ribozyme, tat-rev siRNA, and TAR decoy in SCID-hu mouse-derived T cells. *Molecular Therapy*, 2007;6: 1182 - 1188.

Anderson JS. Using TRIM5alpha as an HIV therapeutic: the alpha gene? *Expert Opinion on Biological Therapy*, 2013;13: 1029-1038.

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