

Oral presentation

HIV-1 Escape From Small Molecule CCR5 Inhibitors In Vitro

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We have generated HIV-1 isolates that are resistant to several small molecule CCR5 inhibitors by serial passage *in vitro*. We have investigated the molecular basis of this resistance through genetic and phenotypic studies. We find that different genetic pathways leading to small molecule inhibitor resistance can be taken by the same starting virus. Additionally, these viruses can exhibit different levels of cross resistance to RANTES derivatives. These studies provide insight into potential mechanisms of CCR5 inhibitor resistance.