



Stanford University

HIV DRUG RESISTANCE DATABASE

A curated public database to represent, store and analyze HIV drug resistance data.

THE WORLD HEALTH ORGANIZATION 2009 LIST OF MUTATIONS

For Surveillance of Transmitted Drug Resistant HIV Strains

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NRTI		NNRTI		PI	
M41	L	L100	I	L23	I
K65	R	K101	E, P	L24	I
D67	N, G, E	K103	N, S	D30	N
T69	D, Ins	V106	M, A	V32	I
K70	R, E	V179	F	M46	I, L
L74	V, I	Y181	C, I, V	I47	V, A
V75	M, T, A, S	Y188	L, H, C	G48	V, M
F77	L	G190	A, S, E	I50	V, L
Y115	F	P225	H	F53	L, Y
F116	Y	M230	L	I54	V, L, M, A, T, S
Q151	M			G73	S, T, C, A
M184	V, I			L76	V
L210	W			V82	A, T, F, S, C, M, L
T215	Y, F, I, S, C, D, V, E			N83	D
K219	Q, E, N, R			I84	V, A, C
				I85	V
				N88	D, S
				L90	M

from **Drug Resistance Mutations for Surveillance of Transmitted HIV-1 Drug-Resistance: 2009 Update**, Authors: Diane E. Bennett^[1], Ricardo J. Camacho^[2], Dan Otelea^[3], Daniel R. Kuritzkes^[4], Hervé Fleury^[5], Mark Kiuchi^[6], Walid Heneine^[7], Rami Kantor^[8], Michael R. Jordan^[9], Jonathan M. Schapiro^[6], Anne-Mieke Vandamme^[10], Paul Sandstrom^[11], Charles A.B. Boucher^{[12][13]}, David van de Vijver^[11], Soo-Yon Rhee^[6], Tommy F Liu^[6], Deenan Pillay^[14], Robert W. Shafer^[6]

Affiliations

1. ^ World Health Organization, Geneva, Switzerland;
2. ^ Molecular Biology Laboratory, Centro Hospitalar de Lisboa Ocidental, Lisbon, Portugal;
3. ^ Molecular Diagnostics, "Prof. Dr. Matei Bals" Institute for Infectious Diseases, Bucharest, Romania;
4. ^ Brigham and Women's Hospital Harvard Medical School, Boston MA, USA;
5. ^ Laboratoire de Virologie EA 2968, Université de Bordeaux, France;
6. ^ 6.1 6.2 6.3 6.4 6.5 Division of Infectious Diseases, Stanford University, Stanford, CA;
7. ^ Centers for Disease Control and Prevention, Atlanta, GA, USA;
8. ^ Division of Infectious Diseases, Brown University, RI, USA;
9. ^ Tufts University School of Medicine, Boston, MA, USA;
10. ^ Rega Institute for Medical Research, Katholieke Universiteit Leuven, Belgium;
11. ^ 11.1 11.2 Centre for Infectious Disease Prevention and Control, Public Health Agency of Canada, Ottawa, Ontario, Canada;
12. ^ Department of Virology, Erasmus MC, University Medical Center Rotterdam, The Netherlands;
13. ^ Department of Medical Microbiology, University Medical Center Utrecht, Utrecht University, Utrecht, the Netherlands;
14. ^ Centre for Virology, Division of Infection and Immunity, University College London and Centre for Infections, Health Protection Agency, London UK.

