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Additional file 1: Table S1 Panel of clones and strains analyzed in this study.

Country A	Village B	Year	DAPC Population C	Code	MLS T	MLM T	Disease D	Host
KE	ND	1954	9	LRC-L53	NO	YES	ND	Human
SD	ND	1962	8	LRC-L61	YES	YES	ND	Human
SD	ND	1962	8	3S	NO	YES	VL	Human
KE	ND	1962	9	LRC-L57	NO	YES	ND	Insect
SD	ND	1966	2	L46	NO	YES	VL	Human
KE	ND	1967	3	MRC (L)3	NO	YES	ND	Human
ET	ND	1967	4	HU3	NO	YES	VL	Human
ET	ND	1972	4	METTEMA	YES	YES	ND	Human
ET	ND	1972	8	GEBRE1	NO	YES	VL	Human
KE	ND	1973	3	MRC74	NO	YES	ND	Human
ET	ND	1975	5	HO174	NO	YES	ND	Rodent
SD	ND	1975	8	LV139	NO	YES	CL	Human
FR	ND	1978	7	LEM75	NO	YES	VL	Human
IN	ND	1980	10	DD8	NO	YES	VL	Human

SD	ND	1982	8	GILANI	YES	YES	VL	Human
KE	ND	1983	9	NLB189	NO	YES	PKDL	Human
ET	ND	1984	3	Addis 142	NO	YES	ND	Human
KE	ND	1984	3	NLB218	NO	YES	PKDL	Human
SD	ND	1985	4	A22	NO	YES	VL	Human
KE	ND	1985	9	NLB323	NO	YES	VL	Human
ES	ND	1986	7	BCN16	NO	YES	CL	Human
ES	ND	1986	7	LEM935	NO	YES	CanL	Canine
SD	ND	1987	6	UGX- MARROW	YES	YES	VL	Human
FR	ND	1987	7	RM1	NO	YES	CanL	Canine
CH	ND	1988	ND	Turfan 10	YES	NO	Sand fly	Sand fly
ET	ND	1992	4	CHEMEDAC2 <sup>1</sup>	YES	YES	DCL	Human
ET	ND	1992	4	CHEMEDAC5 <sup>1</sup>	NO	YES	DCL	Human
SD	ND	1992	8	51-band	NO	YES	VL	Human
SD	ND	1993	ND	D'Bella	YES	NO	VL	Human
SD	ND	1993	8	762L	YES	YES	VL	Human
SD	ND	1993	6	GE	NO	YES	VL	Human

ES	ND	1993	7	PM1	NO	YES	VL	Human
SD	ND	1993	8	338	NO	YES	PKDL	Human
SD	ND	1993	8	35-band	NO	YES	VL	Human
SD	ND	1993	8	38-UMK	NO	YES	VL	Human
SD	ND	1993	8	45-UMK	NO	YES	VL	Human
SD	ND	1993	8	452BM	NO	YES	PKDL	Human
SD	ND	1993	8	597-2	NO	YES	PKDL	Human
SD	ND	1993	8	597LN	NO	YES	PKDL	Human
SD	ND	1993	8	9S	NO	YES	VL	Human
SD	ND	1993	8	AEB	NO	YES	VL	Human
FR	ND	1995	7	LPN114	NO	YES	VL	Human
IR	ND	1996	4	MESH-17	YES	YES	ND	Marsupia 1
IN	ND	1996	10	THAK35	NO	YES	VL	Human
FR	ND	1997	7	LSL29	NO	YES	CL	Human
SD	BF	1997 *	6	LEM3429	YES	YES	VL	Human
SD	BF	1997 *	5	LEM3467	YES	YES	VL	Human

SD	BF	1997 *	1	LEM3471	NO	YES	VL	Human
SD	BF	1997 *	1	LEM3472	NO	YES	PKDL	Human
SD	BF	1997 *	2	LEM3427	NO	YES	VL	Human
SD	BF	1997 *	2	LEM3454	NO	YES	VL	Human
SD	BF	1997 *	2	LEM3458	NO	YES	VL	Human
SD	BF	1997 *	2	LEM3467C15 <sup>1</sup>	NO	YES	VL	Human
SD	BF	1997 *	2	LEM3473	NO	YES	PKDL	Human
SD	BF	1997 *	5	LEM3475	NO	YES	PKDL	Human
SD	BF	1997 *	6	LEM3463	NO	YES	VL	Human
ND	BF	1998	ND	LEM3575	YES	NO	VL	Human
ND	BF	1998	ND	LEM3571	YES	NO	VL	Human
SD	BF	1998	1	LEM3555	YES	YES	CanL	Canine
SD	BF	1998 *	2	LEM3573	YES	YES	VL	Human

SD	BF	1998 *	5	LEM3582	YES	YES	VL	Human
SD	BF	1998 *	1	LEM3555c6 <sup>1</sup>	NO	YES	CanL	Canine
SD	BF	1998 *	1	LEM3555c7 <sup>1</sup>	NO	YES	CanL	Canine
SD	BF	1998 *	2	LEM3556	NO	YES	CanL	Canine
SD	BF	1998 *	2	LEM3563C3 <sup>1</sup>	NO	YES	VL	Human
SD	BF	1998 *	2	LEM3566	NO	YES	VL	Human
SD	BF	1998 *	2	LEM3567	NO	YES	VL	Human
SD	BF	1998 *	2	LEM3582C3 <sup>1</sup>	NO	YES	VL	Human
SD	BF	1998 *	4	LEM3556C3 <sup>1</sup>	NO	YES	CanL	Canine
SD	BF	1998 *	5	LEM3582C1 <sup>1</sup>	NO	YES	VL	Human
SD	BF	1998 *	5	LEM3582C4 <sup>1</sup>	NO	YES	VL	Human
SD	BF	1998 *	5	LEM3582C5 <sup>1</sup>	NO	YES	VL	Human

SD	BF	1999	ND	LEM3787	YES	NO	CanL	Canine
SD	BF	1999	ND	LEM3804	YES	NO	CanL	Canine
SD	BF	1999 *	5	LEM3785	NO	YES	CanL	Canine
SD	BF	2000	ND	LEM3949	YES	NO	CanL	Canine
SD	BF	2000	1	LEM3948	NO	YES	CanL	Canine
SD	BF	2000	6	LEM3946	NO	YES	CanL	Canine
PT	ND	2000	7	IMT260	NO	YES	CL	Human
IN	ND	2000	10	BHU2	NO	YES	VL	Human
IN	ND	2000	10	BHU4	NO	YES	VL	Human
IN	ND	2000	10	BHU5	NO	YES	VL	Human
IN	ND	2000	10	DEVI	NO	YES	VL	Human
SD	BF	2000 *	1	LEM3988c1 <sup>1</sup>	YES*	YES	CanL	Canine
SD	BF	2001	4	AHSAF1	YES	YES	VL	Human
SD	BF	2001	2	AHSAF11	YES	YES	VL	Human
SD	BF	2001	2	AHSAF12	YES	YES	VL	Human
SD	BF	2001	4	AHSAF2C6 <sup>1</sup>	YES*	YES	VL	Human

SD	BF	2001	2	AHSAF4	YES	YES	VL	Human
SD	BF	2001	5	AHSAF7C21 <sup>1</sup>	YES	YES	VL	Human
SD	BF	2001	2	AHSAF8	YES	YES	VL	Human
SD	BF	2001	2	AHSAF11C10 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	2	AHSAF4C8 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	2	AHSAF6	NO	YES	VL	Human
SD	BF	2001	4	AHSAF1 (2T)	NO	YES	VL	Human
SD	BF	2001	4	AHSAF1 (2T)	NO	YES	VL	Human
SD	BF	2001	5	AHSAF13	NO	YES	VL	Human
SD	BF	2001	5	AHSAF13C12 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF13C2 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF13C9 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF4C5 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF4C9 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF6C10 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF6C11 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF6C12 <sup>1</sup>	NO	YES	VL	Human



SD	BF	2001	5	AHSAF6C7 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF7C22 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF8C10 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF9C2 <sup>1</sup>	NO	YES	VL	Human
SD	BF	2001	5	AHSAF9C5 <sup>1</sup>	NO	YES	VL	Human
IN	ND	2001	10	BHU20140	NO	YES	VL	Human
IN	ND	2002	10	BHU1	NO	YES	VL	Human
IN	ND	2002	10	BHU3	NO	YES	VL	Human
IN	ND	2002	10	BHU6	NO	YES	VL	Human
SD	ND	2004	ND	Don134	YES	NO	VL	Human
SD	ND	2006	8	1S	NO	YES	VL	Human
SD	ND	ND	4	KHARTOUM	NO	YES	VL	Human
KE	ND	ND	9	LRC-L445	NO	YES	ND	Human
ND	ND	ND	ND	LEM221	YES	NO	ND	ND
ND	ND	ND	ND	L. infantum	YES	NO	ND	ND
ND	ND	ND	ND	L. major	YES	NO	ND	ND
ET	ND	ND	6	HUSSEN	YES	YES	VL	Human

SD	ND	ND	2	SUDAN1	YES	YES	CL	Human
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<sup>A</sup>SD – Sudan, IN-India, KE-Kenya, ET-Ethiopia, PT-Portugal, FR-France, ES-Spain

<sup>B</sup>BF – Barbara El Fugara

<sup>C</sup>Please refer to the multidimensional scaling plot in Figure 1

<sup>D</sup>VL-Visceral Leishmaniasis, CanL-Canine Leishmaniasis, PKDL – Post Kalazar Dermal Lesihamiasis, CL- Cutaneous Lesihmaniasis

<sup>E</sup>MLST profiles were derived from the uncloned strains.

ND – No Data

\*Sample previously analyses in Rougeron et al 2011 [21]

<sup>1</sup>Biological clone