

Table S1. Study Subjects

Gender	Age	Race	Diagnosis	Disease Activity	Medications	Autoantibodies
Female	23	W	Healthy Control	None	None	Not Done
Female	25	W	Healthy Control	None	None	Not Done
Female	36	W	Healthy Control	None	None	Not Done
Female	54	W	Healthy Control	None	None	Not Done
Female	64	W	Healthy Control	None	None	Not Done
Female	41	W	Inactive SLE (0-2)	SLEDAI 0	Plaquenil 400 mg qd, methotrexate 15mg PO weekly, folic acid 1mg qd	anti-DNA, anti-β2 glycoprotein, anti-phospholipid A
Female	65	W	Inactive SLE (0-2)	SLEDAI 0	Plaquenil 400mg qd, prednisone 50 mg qd	anti-DNA
Female	31	W	Inactive SLE (0-2)	SLEDAI 0	prednisone 15mg qd, Plaquenil 400mg qd	anti-DNA
Female	52	W	Inactive SLE (0-2)	SLEDAI 0	Plaquenil 400mg qd, methylprednisolone 4mg qd	anti-DNA
Female	66	W	Inactive SLE (0-2)	SLEDAI 2	prednisone 5-10mg qd	anti-dsDNA, anti-chromatin RF, anti-b2-GP1
Female	43	W	Inactive SLE (0-2)	SLEDAI 2	prednisone 5mg qd	anti-dsDNA, SSa/Ro, RNP
Female	19	W	Mildly Active SLE (4-5)	SLEDAI 4	prednisone 20mg qd, Plaquenil 400mg qd, quinacrine 50mg qd	anti-Sm, RNP, SSa, SSb, RNP, dsDNA, chromatin
Female	27	W	Mildly Active SLE (4-5)	SLEDAI 4	dapsone 100mg qd, Plaquenil 300mg qd, CellCept 2500mg qd, prednisone 10mg qd	anti-dsNA

Female	44	W	Mildly Active SLE (4-5)	SLEDAI 4	Plaquenil 400mg qd, CellCept 1000mg qd, prednisone 10mg qd	anti-dsDNA, anti-phospholipid
Female	65	AA	Mildly Active SLE (4-5)	SLEDAI 4	prednisone 10mg qd	anti-dsDNA, anti-SSa/SSb, anti-phospholipid
Female	45	W	SLE	SLEDAI 4	prednisone 5mg qd, quinacrine 25mg qd	anti-dsDNA, phospholipid, RNP
Female	31	W	Mildly Active SLE (4-5)	SLEDAI 4	hydroxychloroquine 400mg qd	anti-Sm, RNP, chromatin, dsDNA
Female	34	AA	Mildly Active SLE (4-5)	SLEDAI 4	hydroxychloroquine 200mg qd, CellCept 3000mg qd, prednisone 15mg qd	Sm, RNP, chromatin, dsDNA
Female	19	W	Active SLE (≥ 6)	SLEDAI 6	quinacrine 25mg qd, prednisone 10mg qd, methotrexate 17.5mg weekly, Plaquenil 400mg qd, folic acid 1mg qd	anti-dsDNA, anti-Sm, anti-RNP
Female	47	W	Active SLE (≥ 6)	SLEDAI 6	hydroxychloroquine 300mg qd, prednisone 7.5mg qd	$\beta 2$ glycoprotein
Female	35	W	Active SLE (≥ 6)	SLEDAI 6	hydroxychloroquine 400mg qd, CellCept 2000mg qd, prednisone 20mg qd	anti-dsDNA
Female	51	W	Active SLE (≥ 6)	SLEDAI 8	prednisone 20mg qd, CellCept 1000mg qd	anti-dsDNA, hypocomplementemia, anti-Sm, RNP, SSa, SSb, chromatin, centromere
Female	40	AA	Active SLE (≥ 6)	SLEDAI 8	prednisone 20mg qd, quinacrine 75mg qd	anti-dsDNA
Female	38	W	Active SLE (≥ 6)	SLEDAI 8	azathioprine 100mg qd,	Anti-dsDNA, anti-Sm,

					prednisone 5mg qd, sulfasalazine 3000mg qd	RNP, SSa
Female	52	W	RA (Inactive)	0	abatacept 750mg IV monthly	Not Available
Female	41	W	RA (Inactive)	0	etanercept 50mg SQ weekly	RF, anti-CCP
Male	68	W	RA (Inactive)	0	etanercept 50mg SQ weekly	anti-CCP
Female	69	W	RA (Inactive)	0	hydroxychloroquine 400mg qd, leflunomide 20mg qd, prednisone 7.5mg qd	RF, anti-CCP
Male	60	W	RA (Inactive)	0	methotrexate 25mg SQ weekly, prednisone 10mg qd	Not Available
Male	34	W	RA Active	1+	adalimumab 40mg every other week, hydroxychloroquine 400mg qd, prednisone 5mg qd	anti-CCP
Female	68	W	RA Active	3+	leflunomide 20mg qd, hydroxychloroquine 400mg qd, prednisone 7.5mg qd	RF, anti-CCP
Female	47	W	RA Active	3+	tofacitinib 10mg qd, prednisone 10mg qd	RF, anti-CCP
Female	53	W	RA Active	3+	etanercept 50mg weekly, prednisone 13.5mg daily, hydroxychloroquine 200mg qd	RF, CCP
Female	48	W	Retroperitoneal Fibrosis	low	prednisone 10mg qd	Neg. IgG4, No Biopsy

Female	60	W	Retroperitoneal Fibrosis, also RA/Hashimotos	low	leflunomide 10mg qd, CellCept 1000mg qd	Neg. IgG4, No Biopsy
Female	58	W	Retroperitoneal Fibrosis	low	prednisone 60mg qd	Not Done
Female	46	W	Retroperitoneal Fibrosis	low	(no immunosuppressants)	Neg. IgG4, OSH Biopsy
Male	56	W	Retroperitoneal Fibrosis	low	CellCept 3000mg qd	Neg. IgG4, Neg. Biopsy
Male	57	UNKNOWN	Retroperitoneal Fibrosis	low	CellCept 3000mg qd	Neg. IgG4, No Biopsy
Male	53	W	Retroperitoneal Fibrosis	high	(no immunosuppressants)	Not Done
Male	34	AA	Retroperitoneal Fibrosis	high	CellCept 2000mg qd	Pos. IgG4, Positive Biopsy
Female	64	AA	Systemic Sclerosis (Sine)	MRSS 0	(no immunosuppressants)	ANA, anti-Scl-70
Female	84	W	Systemic Sclerosis (Sine)	MRSS 0	(no immunosuppressants)	ANA, anti-centromere
Female	47	W	Systemic Sclerosis (Limited)	MRSS 2	(no immunosuppressants)	ANA
Male	38	W	Systemic Sclerosis (Diffuse)	MRSS 2	(no immunosuppressants)	Not Available
Female	49	W	Systemic Sclerosis (Diffuse)	MRSS 9	prednisone 15mg qd	anti-Scl-70, RF
Male	64	W	Systemic Sclerosis (Diffuse)	MRSS 15	CellCept 3000mg qd	Not Available
Female	47	W	Systemic Sclerosis (Diffuse)	MRSS 15	methotrexate 20mg weekly, folate 1mg qd	ANA
Female	46	W	Systemic Sclerosis (Diffuse)	MRSS 17	methotrexate 20mg weekly, folate 1mg qd	Not Available

Male	32	A	Systemic Sclerosis (Diffuse)	MRSS 21	prednisone 5mg qd, CellCept 2000mg qd	ANA, anti-SCL70
Female	45	W	Systemic Sclerosis (Diffuse)	MRSS 22	(no immunosuppressants, is on folate 1mg qd, was on CellCept 2000mg qd 1-2 months ago)	ANA
Female	45	AA	Systemic Sclerosis (Diffuse)	MRSS 22	hydroxychloroquine 400mg qd, CellCept 1000mg qd, prednisone 5mg qd	ANA, anti-SSa, anti-SSb
Female	61	W	Systemic Sclerosis (Diffuse)	MRSS 26	CellCept 1000mg qd, prednisone 5mg qd	Negative
Female	62	W	Sjogrens	ESSDAI 0	(no immunosuppressants)	ANA, anti-La
Female	77	W	Sjogrens	ESSDAI 0	hydroxychloroquine 300mg qd	anti-Ro, anti-La, anti-dsDNA
Female	80	W	Sjogrens	ESSDAI 0	(no immunosuppressants)	RF, ANA, anti-Ro, anti-La
Female	48	W	Sjogrens	ESSDAI 0	Plaquenil 200mg per day	RF, ANA, anti-Ro, anti-La
Female	48	W	Sjogrens	ESSDAI 1	hydroxychloroquine 400mg qd	anti-La
Female	67	W	Sjogrens	ESSDAI 1	hydroxychloroquine 400mg qd	anti-dsDNA, anti-histone

A, Asian; AA, African American; W, White