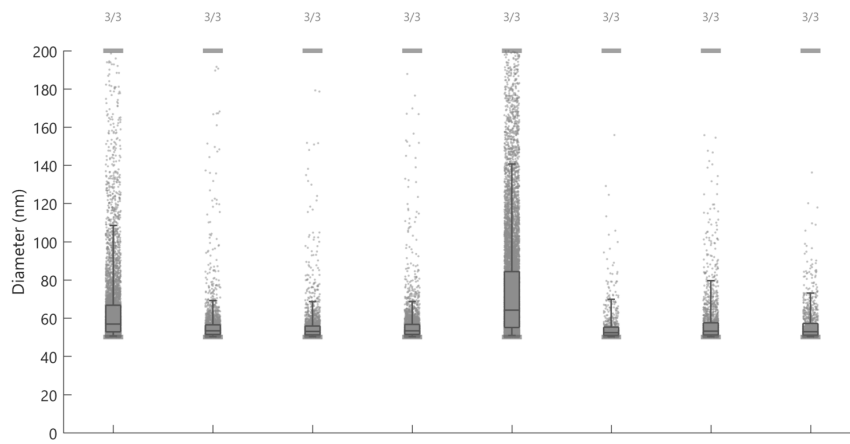# SUPPLEMENTARY MATERIAL

Supplementary table 1. Characteristics of RA patients. All RA patients were female, ACPA+ and former smokers.
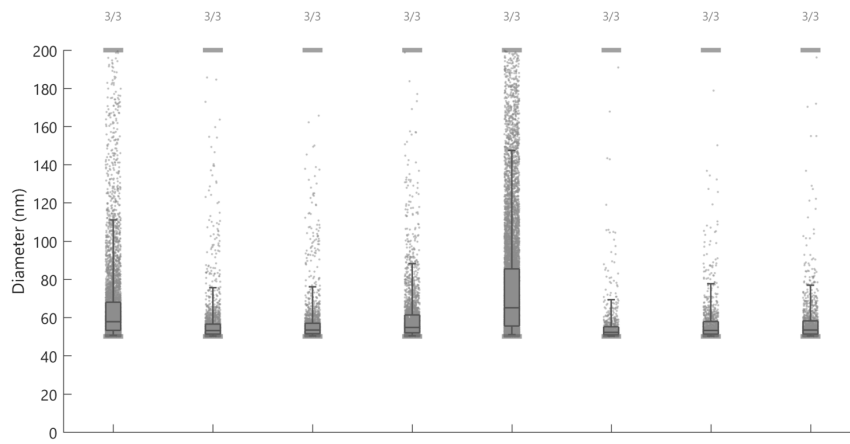
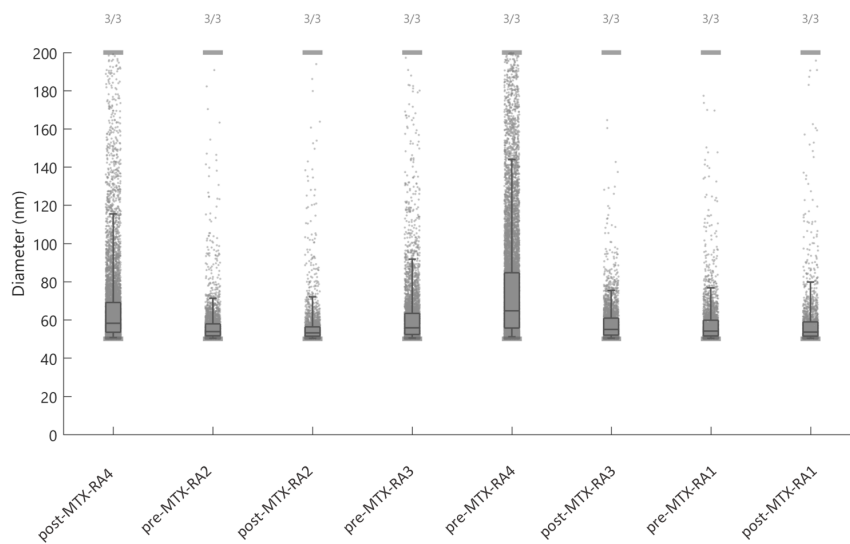| RA patient	Age	BMI	Months on MTX	DAS28 at baseline	DAS28 at follow up	ΔDAS28	CRP at baseline	CRP at follow up	ESR at baseline	ESR at follow up	Response to MTX
1	72	24.8	2.5	6.7	2.6	4.1	112	12	74	22	R
2	60	29.4	3.3	4.7	3.2	1.5	17	4	41	26	R
3	50	28.2	3.9	4.3	2.1	2.2	2	1	42	14	R
4	62	25.9	3.0	5.6	2.9	2.7	7	8	37	23	R
5	68	23.8	2.7	4.3	4.5	-0.2	3	18	29	56	NR
6	65	27.4	3.2	5.1	5.2	-0.1	23	19	47	42	NR
7	66	25.2	3.4	4.5	4.5	0	4	9	20	21	NR
8	50	29.8	4	4.2	4.1	0.1	19	21	17	22	NR

a)

Size Box Plot - All - Capture Probe: CD63

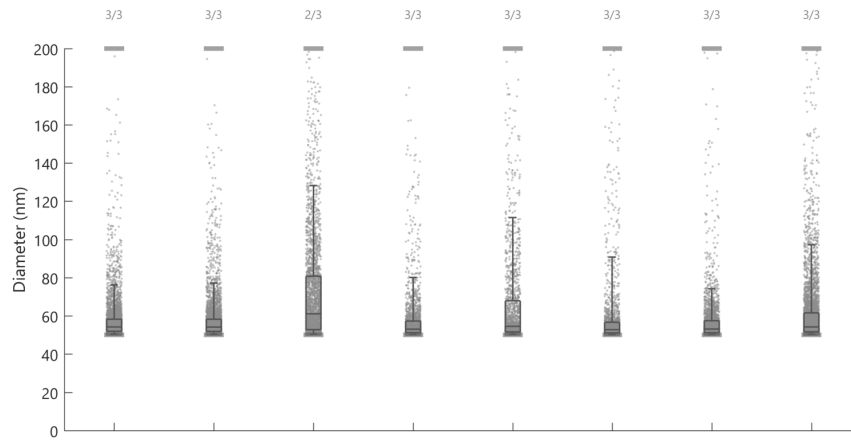Size Box Plot - All - Capture Probe: CD81
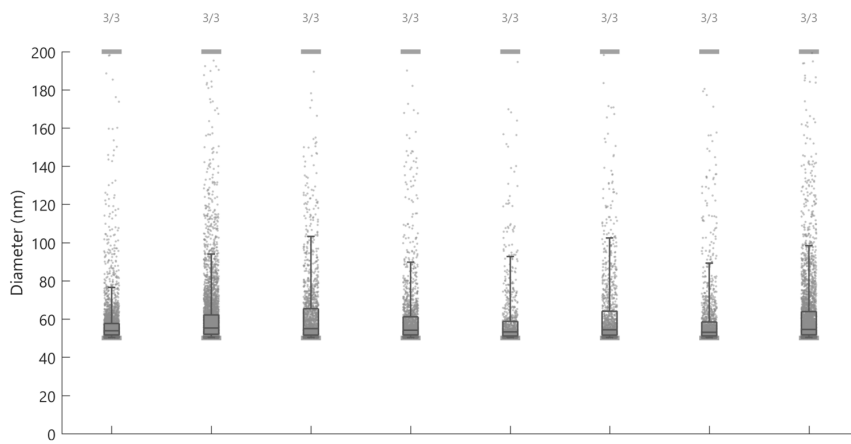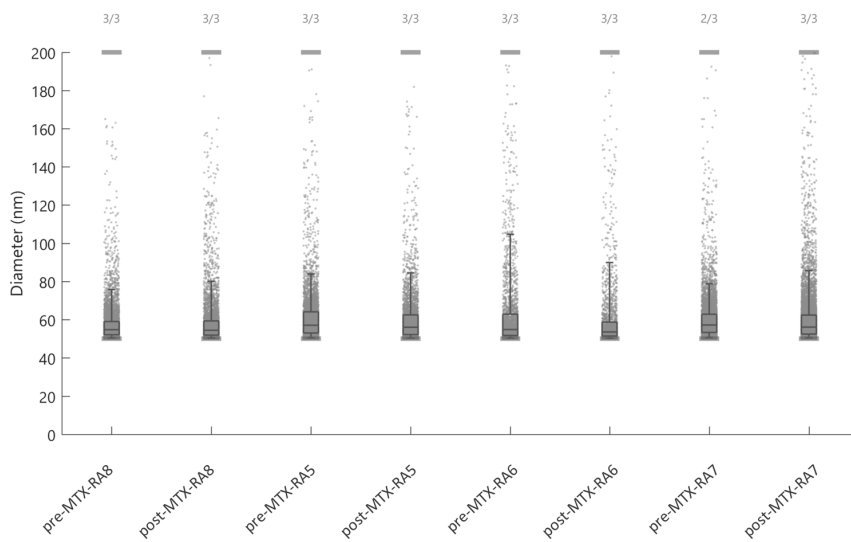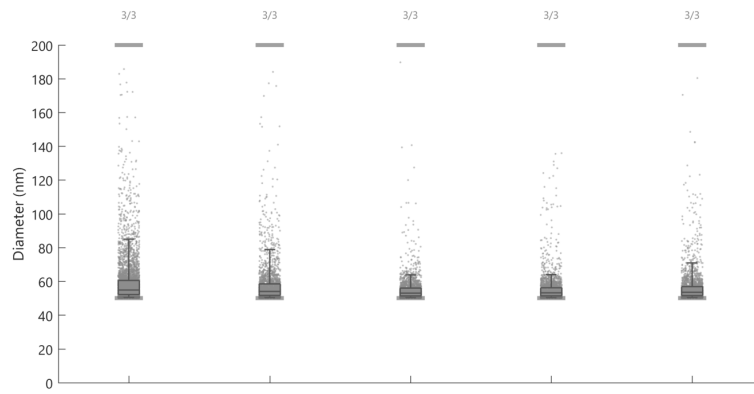

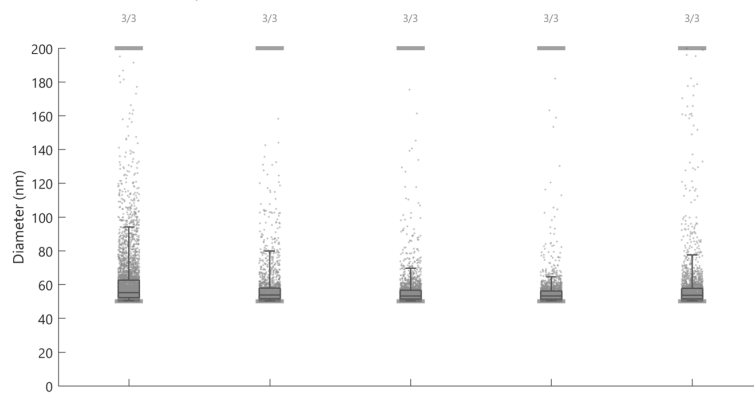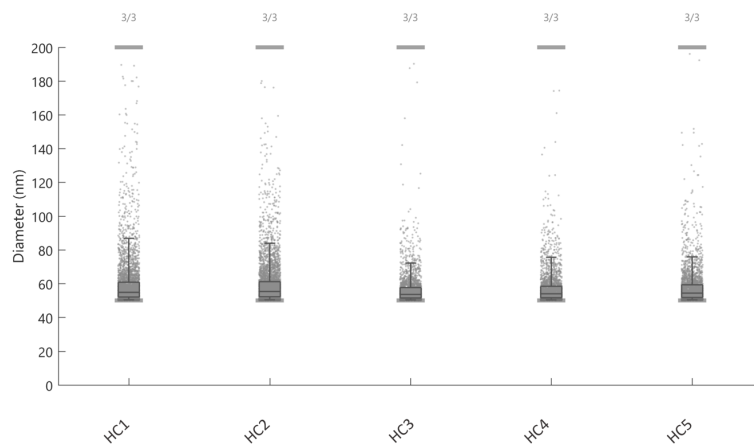Size Box Plot - All - Capture Probe: CD9

b)

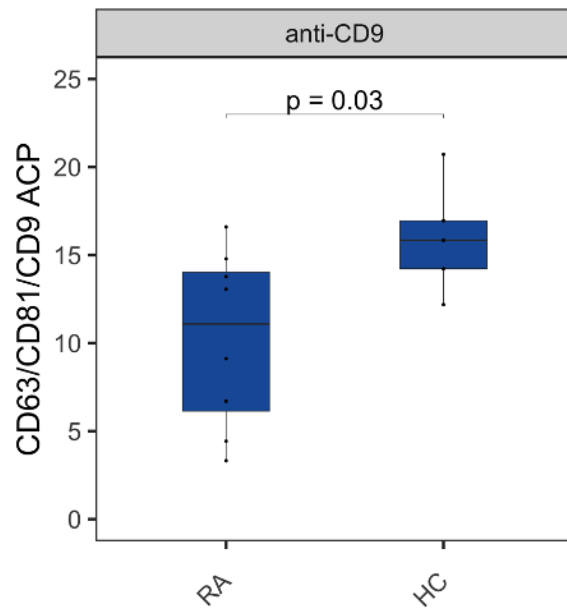Size Box Plot - All - Capture Probe: CD63

Size Box Plot - All - Capture Probe: CD81

Size Box Plot - All - Capture Probe: CD9

c)

Supplementary figure 1. Size distribution of sEVs captured by the ExoView chip. a) MTX-responders, b) MTX-non-responders and c) healthy controls.

Supplementary figure 2. Phenotypic analysis of triple positive sEVs captured by anti-CD9. The average colocalization percent (ACP) sample mean of the two study phenotypes were compared using Welch's two samples t-test.