

Supplementary Tables

Table S1: Correlation matrix for serum tryptophan and metabolites vs. rheumatoid factor (RF) in OA and RA patients, respectively.

		OA rheumatoid factor (RF)	
ln (serum level)			
Serotonin	r	-0.092	0.110
	p-value	0.449	0.433
Tryptophan	r	-0.066	-0.369
	p-value	0.587	0.006
IDO activity	r	-0.276	0.385
	p-value	0.044	0.004
Kynurenine	r	-0.439	0.190
	p-value	0.001	0.168

Table S2. Linear regression model predicting change in RAMRIS at month six.

Model #	model characteristics	predictor	Std beta	T	p-value
1	r=0.631 r ² =0.399 corr. r ² =0.198 ANOVA p=0.139	constant		3.111	0.007
		serotonin [ng/ml]	0.42	1.96	0.069
		tryptophan [μmol/l]	0.223	0.968	0.348
		kyneurenine [μmol/l]	-0.066	-0.277	0.785
		age	-0.216	-0.931	0.367
		sex	0.106	0.5	0.624
2	r=0.629 r ² =0.396 corr. r ² =0.245 ANOVA p=0.074	constant		3.199	0.006
		serotonin [ng/ml]	0.426	2.058	0.056
		tryptophan [μmol/l]	0.197	0.964	0.349
		age	-0.243	-1.189	0.252
		sex	0.112	0.548	0.591
3	r=0.62 r ² =0.384 corr. r ² =0.276 ANOVA p=0.037	constant		3.744	0.002
		serotonin [ng/ml]	0.455	2.331	0.032
		tryptophan [μmol/l]	0.176	0.895	0.383
		age	-0.242	-1.213	0.242
4	r=0.596 r ² =0.355 corr. r ² =0.284 ANOVA p=0.019	constant		6.44	0
		serotonin [ng/ml]	0.469	2.418	0.026
		age	-0.282	-1.453	0.163
5	r=0.529 r ² =0.28 corr. r ² =0.242 ANOVA p=0.014	constant		12.25	0
		serotonin [ng/ml]	0.529	2.716	0.014

Table S3. Linear regression model predicting change in erosions at month six in RA patients with increased CRP values.

Model #	model characteristics	predictor	Std beta	T	p-value
1	r=0.776 r ² =0.602 corr. r ² =0.353 ANOVA p=0.128	constant		0.623	0.551
		serotonin ng/ml	0.478	1.926	0.09
		tryptophan μmol/l	0.449	1.613	0.146
		kyneurenine μmol/l	-0.807	-2.875	0.021
		age	0.403	1.414	0.195
		sex	-0.212	-0.769	0.464
2	r=0.757 r ² =0.573 corr. r ² =0.383 ANOVA p=0.078	constant		0.35	0.735
		serotonin ng/ml	0.414	1.812	0.103
		tryptophan μmol/l	0.488	1.826	0.101
		kyneurenine μmol/l	-0.721	-2.866	0.019
		age	0.374	1.353	0.209
3	r=0.697 r ² =0.486 corr. r ² =0.331 ANOVA p=0.074	constant		2.49	0.032
		serotonin ng/ml	0.33	1.443	0.18
		tryptophan μmol/l	0.297	1.257	0.237
		kyneurenine μmol/l	-0.577	-2.432	0.035
4	r=0.636 r ² =0.404 corr. r ² =0.296 ANOVA p=0.058	constant		3.774	0.003
		serotonin ng/ml	0.345	1.472	0.169
		kyneurenine μmol/l	-0.496	-2.116	0.058
5	r=0.536 r ² =0.287 corr. r ² =0.228 ANOVA p=0.048	constant		5.021	0
		kyneurenine μmol/l	-0.536	-2.198	0.048