

Table S2. Organ-specific fHVR inflammation signatures.*

Domain	Fetal Heart Rate Variability Measures	R**
<i>Terminal ileum inflammation signature</i>		
Invariant	Higuchi scaling exponent, higu	0.76
Statistical	Mean of the differences, mDiff	0.87
Geometric	Second Dynamical Moment, DM2	0.79
Energetic	High frequency power	0.87
Invariant	Detrended fluctuation analysis: alpha	0.89
Statistical	Kurtosis	0.71
Statistical	Lee Parameter	0.77
Statistical	Interquartile Range	0.73
Statistical	Symbolic dynamics: percentage of 1 variations sequences, non-uniform case	0.73
Statistical	Standard deviation	0.8
Statistical	Coefficient of variation	0.8
Statistical	Symbolic dynamics: Shannon entropy, nonuniform case, SymDse_2	0.72
Geometric	Poincare plot: SD2	0.76
Informational	Allan factor distance from a Poisson distribution, aFdP	0.75
Informational	Shannon Entropy	0.88
Invariant	Embedded Scaling Exponent, eScaleE	0.71
Invariant	Detrended fluctuation analysis: area under the curve	0.71
Invariant	Embedded Scaling Exponent, eScaleE	0.78
<i>Brain inflammation signature</i>		
Statistical	Lee Parameter	0.83
Statistical	Form factor	0.85
Geometric	RQA: percentage of determinism	0.85
Geometric	RQA: percentage of laminarity	0.85
Geometric	Second Dynamical Moment, DM2	0.85
Geometric	Poincare Plot: SD2	0.83
Geometric	Poincare Plot: CSI	0.85
Energetic	High frequency power	0.83
Informational	Index of variability distance from a poisson distribution	0.85
Informational	Similarity index of the distributions, histSI	0.89
Informational	Grid transformation feature: AND similarity index	0.85
Invariant	Detrended fluctuation analysis: alpha	0.93
Invariant	Higuchi scaling exponent, higu	0.9
Invariant	Detrended fluctuation analysis: alpha 1	0.93
Invariant	MultiFractal spectrum cumulant of the first order, MultiFractal_c1	0.83

* reproduced with permission.

** Spearman correlation coefficient, $p < 0.01$