

Supplementary material

**Supplementary Document 1:
Determination of Cluster-number according to Evanno et al. 2005**

K	Mean L(K)	SD	L'(K)	L''(K)	$\Delta(K)$
1	-8190.4	0.41	-0.41		
2	-6336.4	2.32	-2.32	1854.0	1242.21
3	-5724.6	6.27	-6.27	611.8	485.21
4	-5598.0	61.62	-61.62	126.6	15.67
5	-5487.1	81.64	-81.64	110.9	29.53
6	-5346.7	21.85	-21.85	140.4	150.16
7	-5356.4	56.03	-56.03	-9.7	128.14
8	-5494.3	391.72	-391.72	-137.9	245.74
9	-5386.4	375.61	-375.61	107.9	480.39
10	-5758.9	862.42	-862.42	-372.5	395.35
11	-5736.1	858.06	-858.06	22.8	131.65
12	-5581.6	0.00	0.00	154.5	

