

# Online Material

**Appendix I.** Mean values of the Cartesian coordinates according to the respective group and the mean configuration of all the colonies.

	AHB	<i>A. m. scutellata</i>	<i>A. m. mellifera</i>	<i>A. m. ligustica</i>	<i>A. m. carnica</i>	all
1x	-0.3448	-0.3487	-0.3467	-0.3469	-0.3476	-0.3451
1y	-0.1296	-0.1313	-0.1303	-0.1317	-0.1305	-0.1297
2x	-0.3411	-0.3441	-0.3446	-0.3430	-0.3445	-0.3414
2y	-0.0833	-0.0837	-0.0839	-0.0834	-0.0820	-0.0833
3x	-0.2881	-0.2874	-0.2930	-0.2943	-0.2933	-0.2885
3y	-0.0639	-0.0637	-0.0652	-0.0663	-0.0646	-0.0640
4x	-0.1823	-0.1786	-0.1811	-0.1829	-0.1835	-0.1822
4y	0.0179	0.0190	0.0180	0.0212	0.0207	0.0181
5x	-0.1327	-0.1321	-0.1364	-0.1378	-0.1386	-0.1332
5y	0.0776	0.0768	0.0748	0.0786	0.0782	0.0775
6x	-0.0696	-0.0710	-0.0673	-0.0623	-0.0625	-0.0692
6y	-0.1713	-0.1719	-0.1697	-0.1742	-0.1735	-0.1714
7x	-0.0559	-0.0564	-0.0520	-0.0507	-0.0521	-0.0555
7y	-0.1168	-0.1168	-0.1174	-0.1193	-0.1176	-0.1169
8x	-0.0611	-0.0599	-0.0595	-0.0555	-0.0559	-0.0607
8y	-0.0541	-0.0549	-0.0529	-0.0533	-0.0535	-0.0541
9x	-0.0134	-0.0119	-0.0110	-0.0020	-0.0035	-0.0127
9y	0.0065	0.0063	0.0098	0.0082	0.0083	0.0067
10x	-0.0636	-0.0620	-0.0614	-0.0603	-0.0571	-0.0632
10y	0.0278	0.0281	0.0280	0.0323	0.0316	0.0280
11x	-0.0070	-0.0051	-0.0071	-0.0066	-0.0068	-0.0069
11y	0.0917	0.0922	0.0901	0.0942	0.0930	0.0918
12x	-0.0298	-0.0289	-0.0294	-0.0292	-0.0305	-0.0298
12y	0.1141	0.1146	0.1136	0.1177	0.1163	0.1142
13x	0.0502	0.0502	0.0523	0.0498	0.0508	0.0503
13y	0.0895	0.0894	0.0872	0.0926	0.0913	0.0895
14x	0.1818	0.1795	0.1834	0.1765	0.1770	0.1815
14y	0.0239	0.0248	0.0245	0.0236	0.0223	0.0239
15x	0.1730	0.1739	0.1741	0.1593	0.1561	0.1722
15y	0.1085	0.1079	0.1067	0.1072	0.1044	0.1083
16x	0.1876	0.1887	0.1848	0.1904	0.1936	0.1878
16y	-0.1030	-0.1022	-0.0981	-0.1041	-0.1028	-0.1028
17x	0.2553	0.2556	0.2516	0.2556	0.2594	0.2553
17y	-0.0018	-0.0014	0.0015	-0.0019	-0.0025	-0.0017
18x	0.2861	0.2861	0.2889	0.2859	0.2874	0.2862
18y	0.0061	0.0076	0.0102	0.0077	0.0065	0.0063
19x	0.4554	0.4522	0.4545	0.4542	0.4517	0.4551
19y	0.1603	0.1592	0.1530	0.1509	0.1543	0.1596

**Appendix II.** Classification functions for the discrimination of the Africanized honey bees and the subspecies that were compared with the Africanized bees. The functions were calculated based on the Cartesian coordinates (CC) of the vein junctions.

	<i>A. m. carnica</i>	<i>A. m. ligustica</i>	<i>A. m. mellifera</i>	<i>A. m. scutellata</i>	AHB
9X	-165025	-164154	-162947	-166132	-165481
19Y	1189204	1185782	1182402	1188857	1186436
15X	-2448	-1661	420	-1507	-584
18Y	808265	807988	803183	807527	804127
9Y	147610	146353	149461	146272	146419
10Y	484664	483617	478210	481943	481561
15Y	512855	513191	512930	514914	514174
13Y	574236	572514	565296	568592	568143
14Y	447740	447914	446987	452087	450421
14X	136993	137985	139978	138453	139227
11Y	337904	335977	337426	340595	338965
17X	470162	469789	469404	469596	469937
7Y	-167548	-169053	-170912	-168476	-169057
18X	281223	281305	283388	280467	281042
13X	-165991	-165292	-163850	-167050	-165661
4X	-531378	-530706	-529039	-531691	-531389
5X	-372768	-371736	-369818	-371517	-370564
6X	158357	157582	156126	156548	156419
7X	-155216	-154189	-152244	-154433	-154218
10X	-237738	-237645	-236994	-238598	-237818
12X	-263065	-261729	-259317	-262616	-261064
19X	349587	350525	351820	349482	350915
16Y	415144	412713	412288	414201	412724
17Y	490425	486815	486262	487060	486571
12Y	258842	258912	259112	258139	257599
1X	-462812	-463048	-461941	-463278	-462985
1Y	-452792	-452134	-450705	-453884	-452113
3Y	-820759	-820463	-817061	-820868	-819227
2X	-729386	-728650	-727609	-729386	-728715
11X	-266281	-265910	-264512	-265844	-265387
5Y	282716	281837	281725	281604	282362
Constant	-726214	-725814	-724850	-726443	-726240