

Toscana Virus Isolated from Sandflies, Tunisia

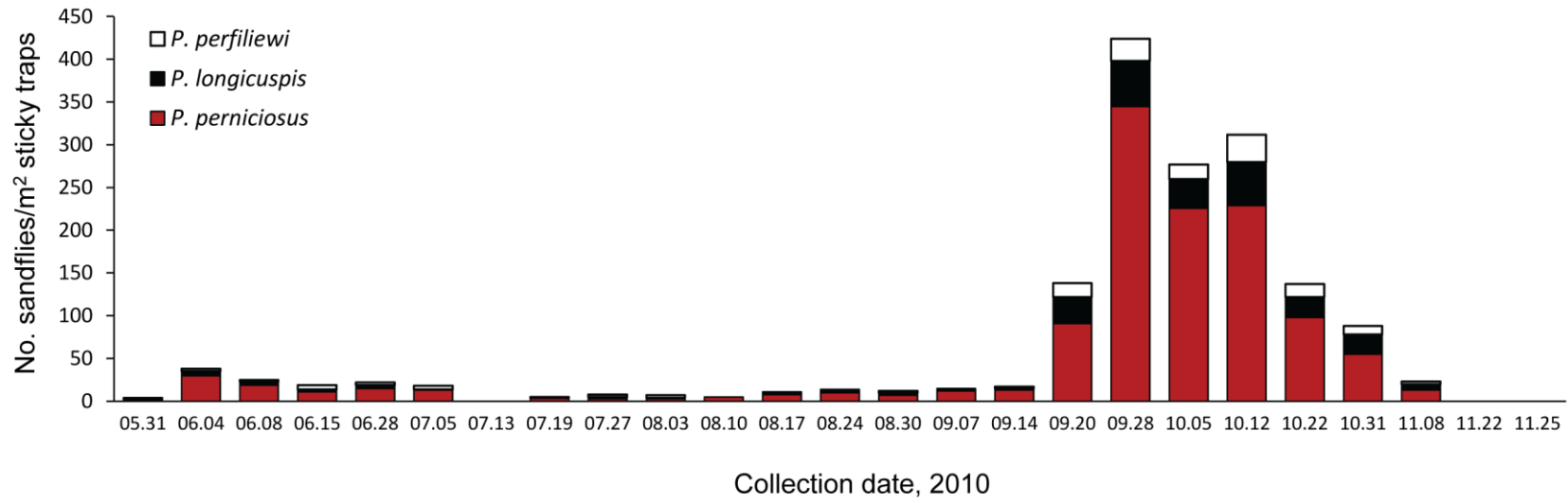
Technical Appendix

Technical Appendix Table 1. Genetic pairwise distances between Tunisian Toscana virus (TOSV) strains and selected phleboviruses in large RNA segment.

N	Virus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
		<i>Nucleotide sequences</i>																													
1	TOSV_Tunisia2010_T152_Complete		0.002	0.039	0.067	0.146	0.146	0.179	0.147	0.269	0.328	0.299	0.333	0.338	0.266	0.289	0.271	0.284	0.284	0.423	0.413	0.369	0.418	0.383	0.399	0.356	0.383	0.380	0.482	0.575	
2	TOSV_Tunisie2010_T166_Partial	0.000		0.059	0.059	0.166	0.168	0.179	0.156	0.301	0.328	0.301	0.333	0.338	0.275	0.289	0.271	0.284	0.284	0.423	0.413	0.390	0.418	0.390	0.399	0.358	0.384	0.368	0.501	0.588	
3	TOSV_ISS.Phl.3_NC_006319	0.012	0.006		0.017	0.149	0.149	0.174	0.150	0.272	0.333	0.293	0.338	0.333	0.273	0.308	0.259	0.308	0.308	0.413	0.403	0.373	0.413	0.379	0.394	0.356	0.385	0.382	0.461	0.573	
4	TOSV_France_DQ1500590	0.011	0.006	0.006		0.153	0.155	0.174	0.150	0.290	0.333	0.293	0.338	0.333	0.265	0.308	0.259	0.308	0.308	0.413	0.403	0.366	0.413	0.385	0.394	0.356	0.385	0.348	0.473	0.583	
5	TOSV_AR_France_DQ65607	0.032	0.036	0.035	0.034		0.008	0.020	0.027	0.265	0.353	0.329	0.318	0.338	0.284	0.313	0.246	0.348	0.348	0.433	0.423	0.389	0.393	0.373	0.399	0.384	0.401	0.365	0.464	0.579	
6	TOSV_France_H/IMTSSA_FJ153281	0.031	0.036	0.034	0.034	0.002		0.015	0.025	0.266	0.348	0.327	0.318	0.338	0.280	0.308	0.251	0.338	0.338	0.433	0.423	0.389	0.393	0.374	0.394	0.382	0.401	0.361	0.466	0.580	
7	TOSV_ESPh-GR79_GU183147	0.030	0.030	0.015	0.015	0.000	0.000		0.020	0.353	0.353	0.353	0.318	0.328	0.333	0.303	0.259	0.338	0.333	0.438	0.428	0.428	0.398	0.433	0.408	0.408	0.478	0.438	0.542	0.577	
8	TOSV_Spain_EsPhGR40_FJ153280	0.031	0.036	0.034	0.034	0.003	0.003	0.000		0.268	0.343	0.337	0.318	0.338	0.286	0.294	0.244	0.333	0.333	0.443	0.433	0.393	0.403	0.378	0.390	0.378	0.399	0.368	0.471	0.573	
9	Massilia_W_EU725771	0.178	0.196	0.181	0.198	0.176	0.176	0.269	0.175		0.030	0.042	0.358	0.333	0.293	0.368	0.279	0.343	0.348	0.413	0.403	0.360	0.398	0.332	0.394	0.349	0.375	0.417	0.487	0.580	
10	Massilia_BP_DQ656073	0.254	0.254	0.269	0.269	0.284	0.284	0.284	0.284	0.015		0.000	0.338	0.318	0.343	0.368	0.313	0.338	0.343	0.403	0.393	0.393	0.398	0.328	0.413	0.413	0.443	0.468	0.552	0.577	
11	Massilia_BM_DQ656072	0.202	0.202	0.208	0.208	0.220	0.220	0.284	0.220	0.006	0.000		0.338	0.318	0.293	0.368	0.277	0.338	0.343	0.403	0.393	0.366	0.398	0.347	0.408	0.362	0.380	0.398	0.515	0.594	
12	PNQV_P6B2_2008_GQ165519	0.269	0.269	0.254	0.254	0.254	0.254	0.254	0.254	0.239	0.239		0.055	0.398	0.323	0.333	0.398	0.398	0.468	0.458	0.458	0.468	0.428	0.453	0.453	0.458	0.458	0.542	0.562		
13	PNQV_P1B4_2008_FJ848989	0.239	0.239	0.224	0.224	0.224	0.224	0.224	0.224	0.239	0.239	0.045		0.388	0.318	0.318	0.388	0.388	0.473	0.463	0.463	0.473	0.408	0.443	0.443	0.453	0.458	0.552	0.547		
14	SFNV_Poona_EF095548	0.180	0.185	0.186	0.181	0.186	0.186	0.254	0.186	0.230	0.358	0.232	0.328	0.328		0.249	0.267	0.010	0.000	0.428	0.418	0.349	0.433	0.360	0.418	0.362	0.409	0.354	0.501	0.586	
15	SFNV_30451_GQ165528	0.224	0.224	0.209	0.209	0.194	0.194	0.194	0.194	0.358	0.343	0.343	0.284	0.284	0.090		0.249	0.249	0.249	0.493	0.483	0.483	0.463	0.433	0.428	0.428	0.433	0.473	0.527	0.552	
16	TEHV_I_47_GQ165522	0.143	0.143	0.143	0.143	0.149	0.149	0.119	0.149	0.190	0.299	0.196	0.299	0.269	0.155	0.164		0.294	0.294	0.458	0.458	0.414	0.443	0.352	0.455	0.368	0.392	0.370	0.497	0.572	
17	SFNV_Algeria_A5_GU183867	0.254	0.254	0.269	0.269	0.269	0.269	0.269	0.269	0.373	0.358	0.358	0.328	0.328	0.015	0.104	0.224		0.010	0.438	0.428	0.428	0.443	0.428	0.433	0.433	0.468	0.478	0.557	0.602	
18	SFNV_Algeria_A6_GU183868	0.239	0.239	0.254	0.254	0.254	0.254	0.254	0.254	0.373	0.358	0.358	0.328	0.328	0.000	0.090	0.209	0.015		0.428	0.418	0.418	0.433	0.428	0.428	0.428	0.468	0.483	0.562	0.597	
19	SFSV_Kabyliya_F16_GU183869	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.433	0.433	0.433	0.537	0.522	0.522	0.537	0.493	0.522	0.522		0.020	0.010	0.075	0.388	0.274	0.274	0.279	0.438	0.507	0.612	
20	SFSV_Algeria_Ph_ariasi_EU240882	0.478	0.478	0.463	0.463	0.463	0.463	0.463	0.463	0.418	0.418	0.418	0.507	0.493	0.507	0.493	0.463	0.507	0.507	0.060		0.010	0.075	0.388	0.274	0.274	0.279	0.438	0.527	0.617	
21	SFSV_Sabin_EF095551	0.389	0.411	0.389	0.390	0.384	0.384	0.478	0.384	0.346	0.403	0.363	0.507	0.493	0.377	0.507	0.387	0.507	0.507	0.030	0.030		0.065	0.357	0.263	0.261	0.285	0.357	0.477	0.614	
22	Cyprus_virus_AY962268	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.403	0.403	0.403	0.507	0.493	0.507	0.507	0.463	0.507	0.507	0.045	0.045	0.015		0.398	0.264	0.264	0.274	0.438	0.542	0.612	
23	RVFV_Smithburn_DQ375430	0.323	0.333	0.318	0.322	0.328	0.328	0.403	0.328	0.292	0.358	0.315	0.418	0.418	0.344	0.463	0.327	0.478	0.478	0.388	0.373	0.319	0.358		0.380	0.354	0.383	0.361	0.487	0.577	
24	CHIOS_A_AY293623	0.479	0.479	0.479	0.479	0.479	0.479	0.493	0.479	0.465	0.478	0.465	0.507	0.493	0.493	0.507	0.479	0.507	0.507	0.239	0.239	0.211	0.209	0.408		0.014	0.202	0.465	0.512	0.606	
25	CFUV_PA_Ar_814_GQ165521	0.381	0.381	0.381	0.381	0.375	0.375	0.493	0.375	0.375	0.478	0.375	0.507	0.493	0.381	0.507	0.363	0.507	0.507	0.239	0.239	0.149	0.209	0.351	0.014		0.230	0.384	0.503	0.612	
26	Utique_P6B1_2008_GU233649	0.399	0.399	0.399	0.399	0.399	0.399	0.507	0.399	0.381	0.478	0.381	0.522	0.507	0.399	0.522	0.393	0.522	0.522	0.239	0.239	0.185	0.194	0.333	0.056	0.089		0.397	0.496	0.598	
27	ARBV_Ph_1_35_M6_DQ862467	0.364	0.327	0.364	0.316	0.364	0.364	0.448	0.364	0.379	0.507	0.351	0.522	0.507	0.328	0.493	0.315	0.522	0.522	0.552	0.522	0.384	0.522	0.355	0.563	0.423	0.440		0.499	0.602	
28	UUKV_NC_005214	0.524	0.560	0.524	0.542	0.529	0.529	0.657	0.529	0.524	0.657	0.571	0.672	0.657	0.563	0.687	0.577	0.672	0.672	0.672	0.701	0.557	0.672	0.518	0.662	0.595	0.583	0.570		0.580	
29	Gouleako_virus_F23_K1_EF423167	0.696	0.719	0.701	0.710	0.701	0.701	0.701	0.701	0.723	0.746	0.743	0.731	0.716	0.703	0.731	0.725	0.716	0.716	0.791	0.791	0.770	0.791	0.723	0.746	0.749	0.754	0.755	0.720		
		<i>Amino acid sequences</i>																													

Technical Appendix Table 2. Genetic pairwise distances between Tunisian Toscana virus (TOSV) strains and selected phleboviruses in medium RNA segment.

N°	Virus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Nucleotide sequences</i>																	
1	TOSV_Tunisia2010_T152_Complete		0.002	0.032	0.176	0.173	0.178	0.437	0.449	0.397	0.397	0.401	0.527	0.587	0.526	0.632	0.680
2	TOSV_Tunisie2010_T166_partial	0.010		0.022	0.175	0.177	0.177	0.434	0.449	0.415	0.402	0.419	0.530	0.550	0.526	0.614	0.655
3	TOSV_ISSPhI3_NC006320	0.073	0.040		0.182	0.179	0.183	0.437	0.437	0.399	0.395	0.392	0.523	0.590	0.527	0.631	0.678
4	TOSV_France_H/IMTSSA_FJ153284	0.423	0.374	0.427		0.007	0.055	0.434	0.416	0.394	0.405	0.404	0.527	0.580	0.543	0.629	0.681
5	TOSV_AR_France_EF65636	0.415	0.384	0.419	0.020		0.057	0.436	0.418	0.393	0.410	0.404	0.528	0.582	0.543	0.629	0.680
6	TOSV_Spain_EsPhGR40_FJ153283	0.432	0.404	0.428	0.150	0.154		0.443	0.416	0.396	0.414	0.416	0.530	0.585	0.552	0.627	0.678
7	Massilia_W_EU725772	0.728	0.722	0.732	0.732	0.733	0.743		0.243	0.431	0.397	0.413	0.559	0.583	0.566	0.625	0.677
8	PNQV_P1B4_2008_FJ848988	0.725	0.711	0.716	0.716	0.716	0.716	0.520		0.421	0.413	0.429	0.529	0.578	0.531	0.601	0.652
9	SFNV_Poona_HM566177	0.700	0.705	0.707	0.690	0.680	0.682	0.726	0.700		0.403	0.178	0.546	0.573	0.547	0.635	0.682
10	TEHV_I47_AY129732	0.619	0.646	0.619	0.657	0.667	0.657	0.670	0.696	0.713		0.378	0.525	0.563	0.558	0.623	0.650
11	SFNV_Sabin_AY129733	0.679	0.674	0.679	0.687	0.672	0.702	0.695	0.720	0.359	0.634		0.550	0.537	0.526	0.653	0.636
12	SFSV_91045I_AY129740	0.776	0.785	0.765	0.745	0.755	0.765	0.806	0.816	0.760	0.755	0.750		0.524	0.394	0.592	0.639
13	RVFV_NC_014396	0.846	0.766	0.846	0.843	0.845	0.846	0.851	0.869	0.828	0.820	0.797	0.755		0.497	0.658	0.681
14	CFUV_PaAr814_AY129744	0.800	0.800	0.790	0.820	0.820	0.810	0.820	0.780	0.776	0.830	0.765	0.653	0.768		0.577	0.617
15	UUKV_NC_005220	0.887	0.823	0.882	0.883	0.880	0.875	0.876	0.900	0.886	0.873	0.875	0.845	0.883	0.796		0.692
16	Gouleako_virus_A5CI_2004_HQ541	0.905	0.883	0.906	0.907	0.908	0.907	0.915	0.928	0.909	0.890	0.857	0.906	0.904	0.866	0.917	
<i>Amino acid sequences</i>																	



Technical Appendix Figure. Phenology of *Phlebotomus* spp. sandflies collected in Utique, Governorate of Bizerte, Tunisia, 2010.