









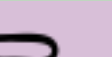






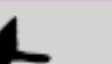



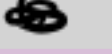



- Analysis performed: 190624_174359
- Analyzed sequences (hits resulting from 676 blast searches, 52 animal groups x 13 query sequences):49992 (out of which unique: 8666, programmatically recognized as VEGF/PDGF family members: 90.5%).
- Red dotted lines in the tree indicate paraphyletic relationships.
- The tree background color indicates the presence of the proteins with the corresponding color according to our hypotheses.
- The red-to-white background of the table indicates a heuristic reliability of the results, where a brighter color indicates a higher reliability. This is calculated using the number of fully sequenced genomes, the number of species in the phylum and the number of protein sequences available for that phylum.
- The numbers in the table denote the number of: orthologs found (black), P = paralogs found, ? = homologs found, whose relationship could not be programmatically determined, Σ = total homologs found.

	# animal species	# sequences	# compl. genomes	# unique blasthits		PDGF-A	PDGF-B	PDGF-C	PDGF-D	PIGF-1	VEGF-A121	VEGF-A165	VEGF-A206	VEGF-B167	VEGF-B186	VEGF-C	VEGF-D	VEGF-F															
	55	6	3	0		ctenophora (comb jellies)																											
	1354	34k	2	11		porifera (sponges)									1	P0, ?7, Σ8	0	P1, ?1, Σ2	0	P0, ?3, Σ3													
	3	36k	2	0		placozoa																											
	3668	115k	18	94		cnidaria (medusae/polyps)	0	P6, ?4, Σ10	1	P3, ?1, Σ5	0	P1, ?0, Σ1	0	P2, ?1, Σ3	0	P6, ?7, Σ13	1	P7, ?13, Σ21	0	P6, ?9, Σ15	0	P18, ?61, Σ79	0	P6, ?0, Σ6	11	P1, ?43, Σ55	0	P7, ?19, Σ26	0	P3, ?2, Σ5			
	151	925	0	1		xenacoelomorpha																											
	1791	136k	11	42		echinodermata	0	P5, ?1, Σ6	0	P5, ?0, Σ5	0	P11, ?1, Σ12	0	P12, ?1, Σ13	0	P9, ?3, Σ12	3	P2, ?7, Σ12	3	P3, ?11, Σ17	3	P2, ?7, Σ12	0	P10, ?9, Σ19	0	P10, ?8, Σ18	2	P8, ?12, Σ22	1	P9, ?7, Σ17	0	P7, ?3, Σ10	
	39	23k	2	9		hemichordata (acorn wormws)	0	P2, ?0, Σ2	0	P2, ?0, Σ2	0	P2, ?1, Σ3	0	P2, ?0, Σ2	0	P1, ?0, Σ1	0	P1, ?2, Σ3	0	P1, ?1, Σ2	0	P1, ?1, Σ2	0	P2, ?1, Σ3	0	P2, ?2, Σ4	2	P1, ?1, Σ4	0	P3, ?1, Σ4	0	P2, ?0, Σ2	
	11	95k	4	20		cephalochordata (lancelets)	0	P6, ?1, Σ7	0	P6, ?1, Σ7	0	P5, ?1, Σ6	0	P5, ?1, Σ6	0	P5, ?0, Σ5	1	P5, ?1, Σ7	1	P5, ?1, Σ7	1	P5, ?1, Σ7	0	P6, ?2, Σ8	0	P6, ?1, Σ7	6	P1, ?5, Σ12	0	P6, ?1, Σ7	0	P6, ?1, Σ7	
	360	64k	6	2		tunicata	0	P1, ?0, Σ1	0	P1, ?0, Σ1						0	P1, ?0, Σ1	1	P0, ?0, Σ1	1	P0, ?0, Σ1	1	P0, ?0, Σ1	0	P1, ?0, Σ1	0	P1, ?0, Σ1	0	P1, ?0, Σ1	0	P1, ?0, Σ1	0	P1, ?0, Σ1
	77	8k	3	0		cyclostomata (hagfish/lamprey)																											
	825	115k	6	52		chondrichthyes (cartilaginous fishes)	6	P21, ?0, Σ27	2	P25, ?0, Σ27	2	P18, ?0, Σ20	2	P11, ?0, Σ13	0	P25, ?0, Σ25	11	P14, ?0, Σ25	11	P14, ?0, Σ25	11	P13, ?0, Σ24	0	P29, ?0, Σ29	0	P29, ?1, Σ30	6	P23, ?0, Σ29	2	P26, ?0, Σ28	0	P25, ?0, Σ25	
	18907	2M	186	2134		actinopterygii (ray-finned fishes)	217	P665, ?170, Σ1052	27	P863, ?170, Σ1060	117	P282, ?15, Σ414	148	P269, ?9, Σ426	102	P882, ?159, Σ1143	426	P811, ?209, Σ1446	430	P462, ?137, Σ1029	433	P463, ?130, Σ1026	59	P1041, ?154, Σ1254	58	P1161, ?173, Σ1392	175	P1034, ?141, Σ1350	102	P1012, ?136, Σ1250	30	P1054, ?169, Σ1253	
	2	35k	1	31		coelacanthomorpha (lobe-finned fishes)	1	P15, ?0, Σ16	2	P12, ?0, Σ14	1	P12, ?0, Σ13	2	P4, ?0, Σ6	2	P12, ?0, Σ14	3	P12, ?0, Σ15	3	P11, ?0, Σ14	3	P11, ?0, Σ14	3	P14, ?0, Σ17	3	P14, ?1, Σ18	2	P15, ?0, Σ17	1	P16, ?0, Σ17	0	P14, ?0, Σ14	
	6	1k	0	10		dipnoi (lungfishes)	1	P3, ?0, Σ4	1	P3, ?0, Σ4	0	P4, ?0, Σ4	0	P4, ?0, Σ4	0	P4, ?0, Σ4	2	P2, ?0, Σ4	2	P2, ?0, Σ4			0	P4, ?0, Σ4	0	P4, ?0, Σ4	0	P4, ?0, Σ4	0	P4, ?0, Σ4	0	P4, ?2, Σ6	
	5659	478k	6	144		amphibia	16	P59, ?1, Σ76	12	P62, ?1, Σ75	6	P54, ?0, Σ60	5	P17, ?0, Σ22	0	P66, ?1, Σ67	27	P38, ?1, Σ66	27	P30, ?1, Σ58	27	P33, ?1, Σ61	3	P69, ?1, Σ73	3	P73, ?1, Σ77	5	P71, ?1, Σ77	6	P72, ?1, Σ79	0	P68, ?1, Σ69	
	9445	3M	132	1551		aves (birds)	127	P340, ?5, Σ472	118	P461, ?5, Σ584	98	P452, ?2, Σ552	154	P316, ?0, Σ470	109	P463, ?4, Σ576	140	P390, ?9, Σ539	141	P329, ?5, Σ475	141	P329, ?5, Σ475	0	P672, ?8, Σ680	0	P764, ?8, Σ772	130	P704, ?4, Σ838	96	P707, ?4, Σ807	1	P729, ?8, Σ738	
	24	179k	4	102		crocodylia (crocodiles)	5	P26, ?0, Σ31	1	P14, ?0, Σ15	4	P35, ?0, Σ39	6	P21, ?0, Σ27	7	P46, ?0, Σ53	17	P40, ?0, Σ57	17	P35, ?0, Σ52	17	P29, ?0, Σ46	0	P57, ?0, Σ57	0	P63, ?0, Σ63	9	P54, ?0, Σ63	8	P55, ?0, Σ63	0	P53, ?0, Σ53	
	3227	96k	6	66		lepidosauria excl. toxicofera (non-poisonous lizards)	3	P52, ?0, Σ55	6	P45, ?0, Σ51	3	P38, ?1, Σ42	5	P18, ?0, Σ23	6	P46, ?1, Σ53	26	P31, ?1, Σ58	26	P26, ?1, Σ53	26	P22, ?1, Σ49	2	P54, ?0, Σ56	2	P59, ?0, Σ61	7	P56, ?1, Σ64	5	P57, ?0, Σ62	4	P48, ?0, Σ52	
	3776	467k	15	161		toxicofera (poisonous reptiles)	12	P122, ?0, Σ134	9	P113, ?0, Σ122	9	P89, ?0, Σ98	11	P26, ?0, Σ37	14	P91, ?28, Σ133	53	P63, ?29, Σ145	53	P43, ?29, Σ125	53	P45, ?28, Σ126	7	P109, ?26, Σ142	7	P120, ?26, Σ153	11	P108, ?26, Σ145	2	P119, ?23, Σ144	24	P107, ?5, Σ136	
	358	184k	10	188		testudines (turtles)	9	P65, ?1, Σ75	8	P66, ?1, Σ75	7	P60, ?7, Σ74	17	P20, ?0, Σ37	10	P61, ?1, Σ72	30	P48, ?1, Σ79	30	P52, ?4, Σ86	30	P36, ?1, Σ67	8	P65, ?1, Σ74	8	P88, ?2, Σ98	6	P91, ?2, Σ99	5	P92, ?1, Σ98	0	P70, ?1, Σ71	
	5	26k	1	25		monotremata (egg-laying mammals)	1	P6, ?0, Σ7	1	P5, ?0, Σ6	3	P10, ?0, Σ13	3	P10, ?0, Σ13	1	P5, ?0, Σ6	1	P6, ?0, Σ7	1	P6, ?0, Σ7	1	P6, ?0, Σ7	0	P8, ?0, Σ8	0	P8, ?0, Σ8	2	P6, ?0, Σ8	1	P7, ?0, Σ8	0	P6, ?0, Σ6	
	333	142k	5	88		metatheria (marsupials)	7	P36, ?0, Σ43	5	P36, ?0, Σ41	4	P33, ?0, Σ37	10	P16, ?0, Σ26	4	P25, ?0, Σ29	4	P28, ?0, Σ32	4	P22, ?0, Σ26	4	P22, ?0, Σ26	4	P32, ?0, Σ36	4	P36, ?0, Σ40	4	P35, ?0, Σ39	5	P34, ?0, Σ39	0	P39, ?0, Σ39	
	4755	8M	181	2995		eutheria (placentals)	247	P																									