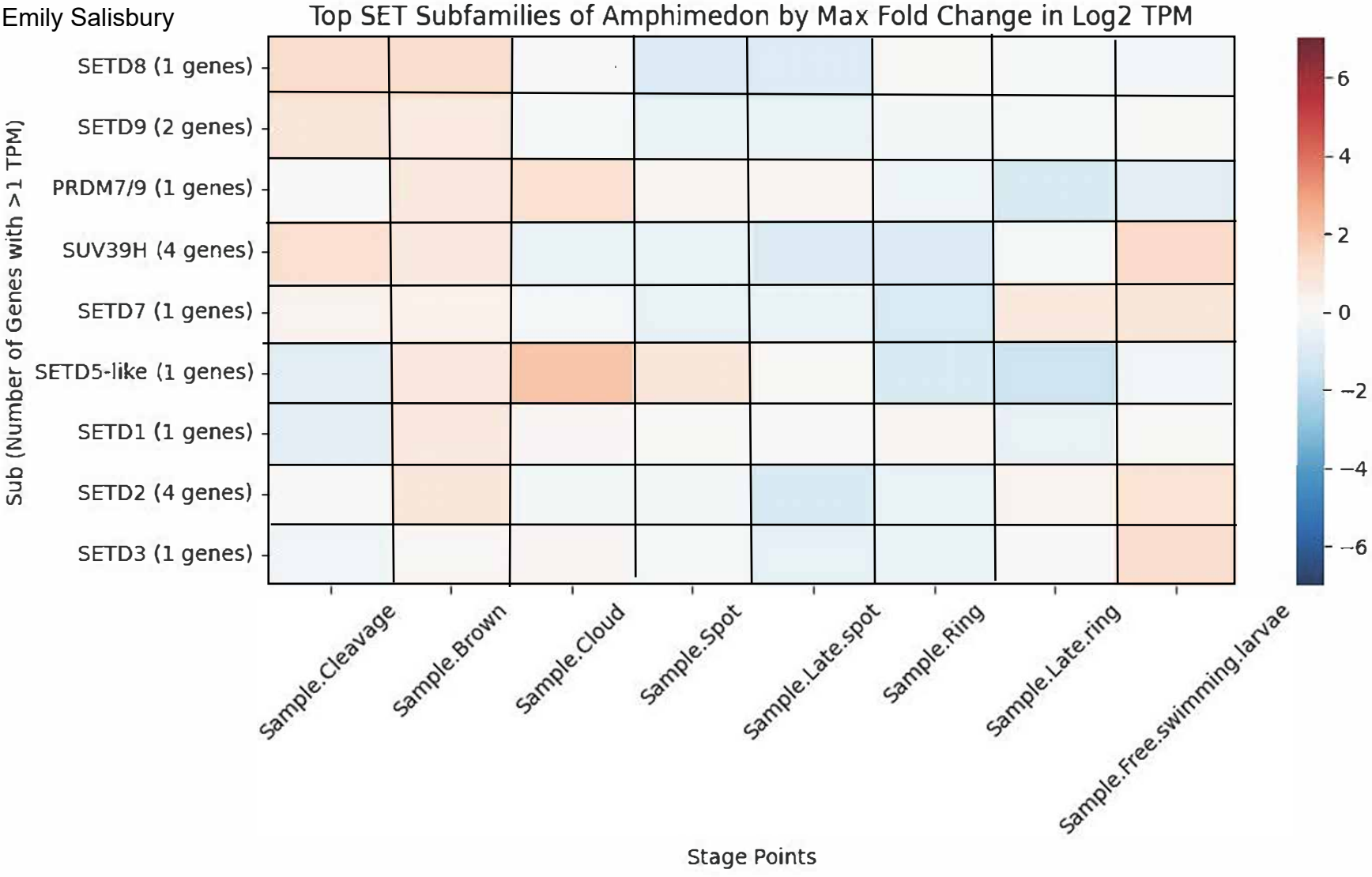
Emily Salisbury



CDD_ID	Gene Name	Subfamily CDD_ID
cd08161	SET	cd08161
cd10518	SETD1-like	cd10518
cd19169	SETD1	cd10518
cd19204	SETD1A	cd10518
cd19205	SETD1B	cd10518
cd19170	KMT2A/2B	cd10518
cd19206	KMT2A	cd10518
cd19207	KMT2B	cd10518
cd19171	KMT2C/2D	cd10518
cd19208	KMT2C	cd10518
cd19209	KMT2D	cd10518
cd20072	SET1	cd10518
cd10519	EZH	cd10519
cd19168	EZH-like	cd10519
cd19217	EZH1	cd10519
cd19218	EZH2	cd10519
cd10522	LegAS4-like	cd10522
cd10524	Suv4-20-like	cd10524
cd19184	KMT5B	cd10524
cd19185	KMT5C	cd10524
cd19186	Suv4-20	cd10524
cd10527	LSMT	cd10527
cd19176	SETD3	cd10527
cd19177	SETD4	cd10527
cd19178	SETD6	cd10527
cd19179	RBCMT	cd10527
cd19180	SpSET10-like	cd10527
cd10528	SETD8	cd10528
cd10529	SETD5-like	cd10529
cd19181	SETD5	cd10529
cd19182	KMT2E	cd10529
cd19183	SpSET3-like	cd10529
cd10530	SETD7	cd10530
cd10531	SETD2-like	cd10531
cd19172	SETD2	cd10531
cd19173	NSD	cd10531
cd19210	NSD1	cd10531
cd19211	NSD2	cd10531
cd19212	NSD3	cd10531
cd19174	ASH1L	cd10531
cd19175	ASHR3-like	cd10531
cd10534	PRDM-like	cd10534
cd10520	PRDM17	cd10534
cd19187	PRDM1	cd10534
cd19188	PRDM2	cd10534
cd19189	PRDM4	cd10534
cd19190	PRDM5	cd10534
cd19191	PRDM6	cd10534
cd19192	PRDM8	cd10534
cd19193	PRDM7/9	cd10534

cd19194	PRDM10	cd10534
cd19195	PRDM11	cd10534
cd19196	PRDM12	cd10534
cd19197	PRDM13	cd10534
cd19198	PRDM14	cd10534
cd19199	PRDM15	cd10534
cd19200	PRDM16/3	cd10534
cd19213	PRDM16	cd10534
cd19214	PRDM3	cd10534
cd19201	ZFPM	cd10534
cd19215	ZFPM1	cd10534
cd19216	ZFPM2	cd10534
cd10537	SETD9	cd10537
cd10538	SETDB-like	cd10538
cd10541	SETDB	cd10538
cd10517	SETDB1	cd10538
cd10523	SETDB2	cd10538
cd10542	SUV39H	cd10538
cd10525	SUV39H1	cd10538
cd10532	SUV39H2	cd10538
cd19473	DIM5-like	cd10538
cd20073	Clr4-like	cd10538
cd10543	EHMT	cd10538
cd10533	EHMT2	cd10538
cd10535	EHMT1	cd10538
cd10544	SETMAR	cd10538
cd10545	AtSUVH-like	cd10538
cd10545	ATXR5/6-like	cd10545
cd10540	SpSet7-like	cd10540
cd20071	SMYD	cd20071
cd10521	SMYD5	cd20071
cd10536	SMYD4	cd20071
cd19167	SMYD1/2/3-like	cd20071
cd10526	SMYD1	cd20071
cd19202	SMYD2	cd20071
cd19203	SMYD3	cd20071

For this project, I am focusing on the SET Subfamilies and their expression throughout both of the Taxa. I did this by hand since the SET subfamilies had very few actual subfamilies to annotate. I looked up the information on the NCBI website using the superfamily number that was found in the first part of the project. I then created a Google Sheets file that had each Gene's Subfamily and its CDD_ID number. I then transferred this file to a .txt file and merged it with the rest of my tables, using the same code as project one. The difference with this one was that I was now looking at the subfamilies instead of the superfamilies, filtering out ones that did not align with the ones I was observing. However, I used the Top 20 Max Fold Change so i could see how many of these genes are used within each subfamily. I think my next move is to see what each of these subfamilies do and compare that to their trends in Amphemideon.