RELAX Combined Report

## SRV vs SRV+Double vs SRV+Double+Triple

Includes:

- Run-type summary

- Boxplots: K, p-values, 2H/3H

- Full omega/SRV/multihit tables (column-paged)
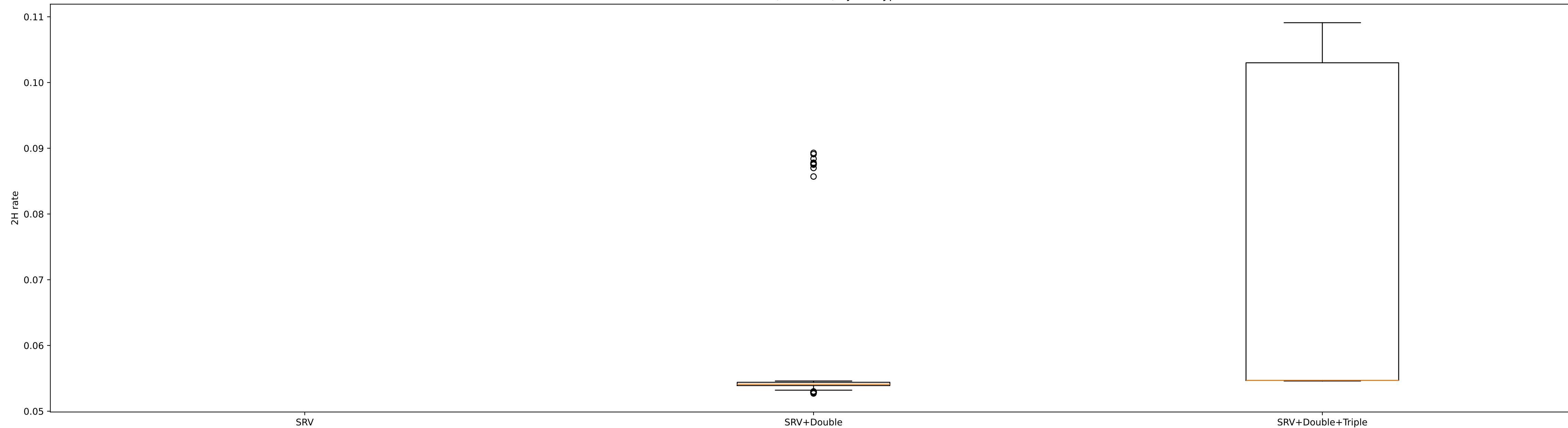
Run-type summary statistics

p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_median	omega_test_median	warnings_count	2H_reference_median	2H_test_median
1.0	0.984	1.0	1.01	1.0	1.01	0.2378	0.2136	10	nan	nan
1.0	1.0	1.0	1.01	1.01	1.01	0.2378	0.2137	10	0.0541	0.0
1.0	0.9886	1.0	1.005	1.0	1.01	0.2379	0.2134	10	0.0547	0.0

K (alternative) by run type

3

RELAX LRT p-values by run type
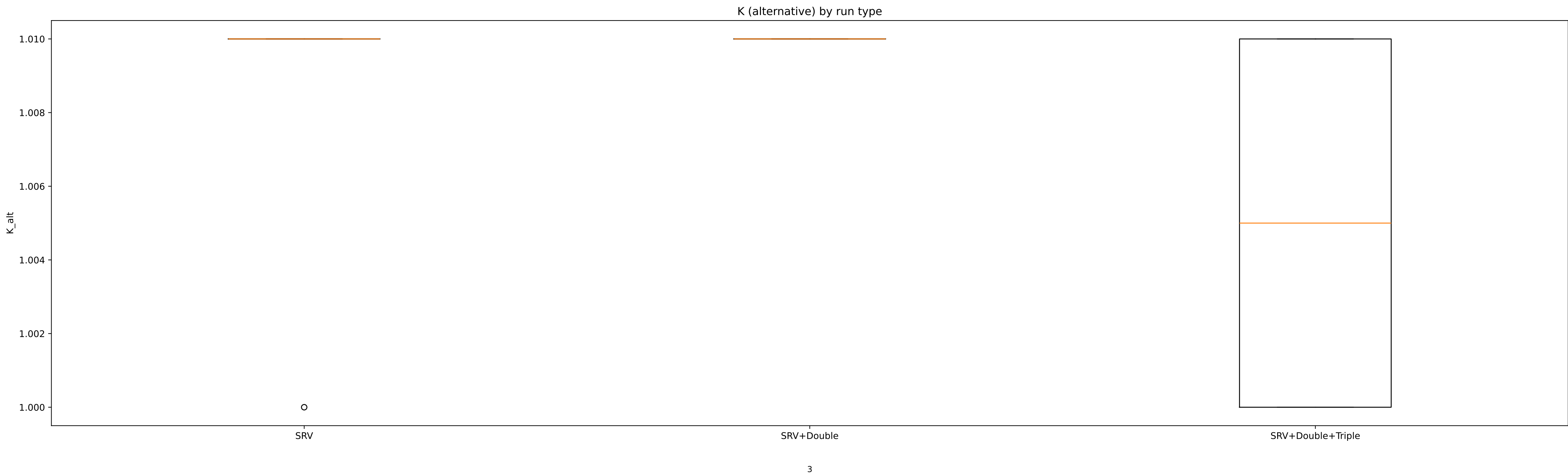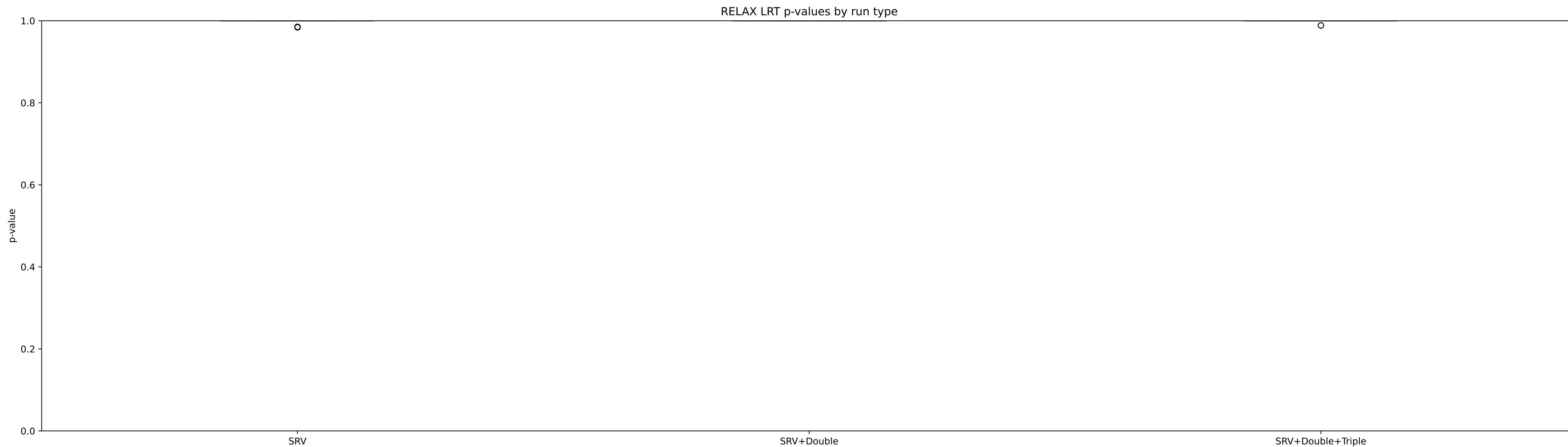
2H rates (reference) by run type

2H rates (test) by run type
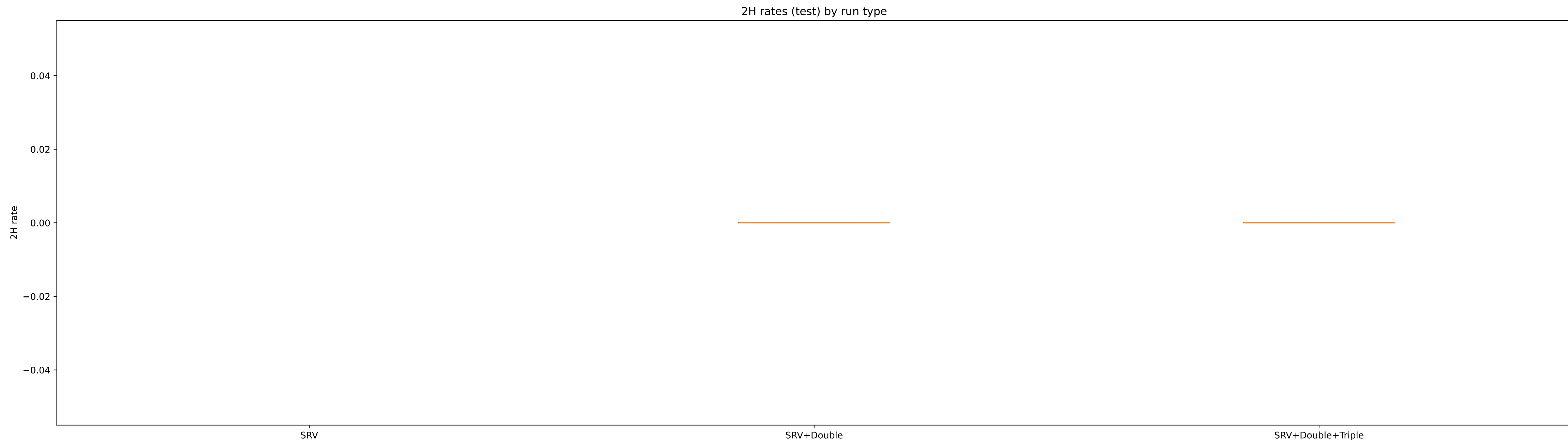
3H rates (reference) by run type
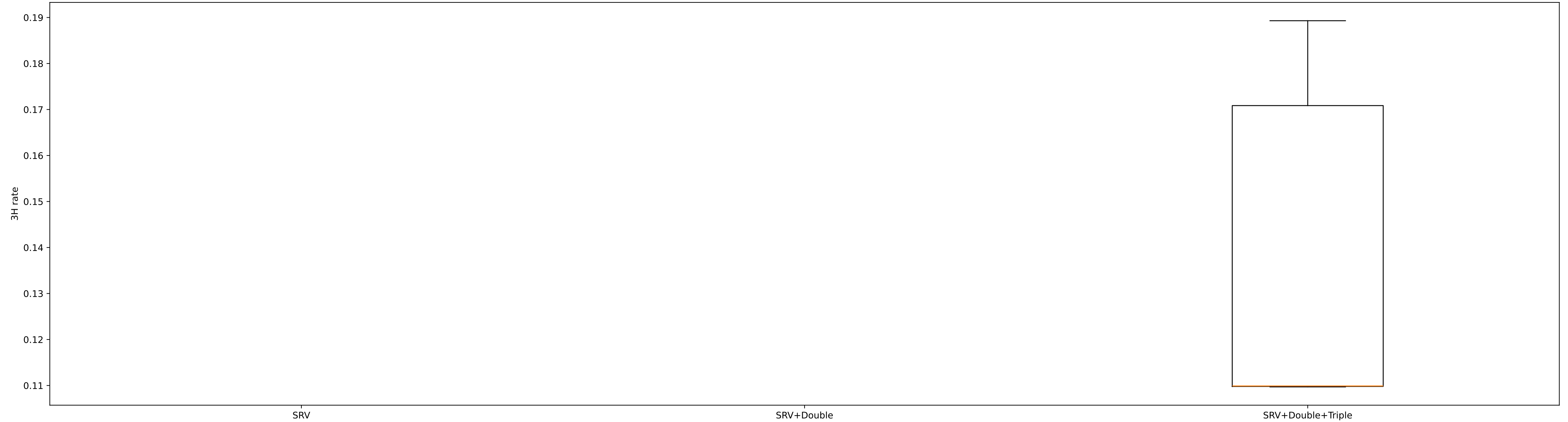
3H rates (test) by run type

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	1.0	1.01	0.2378	0.2134	
	2	1.0	1.01	0.2378	0.2135	
	3	1.0	1.01	0.2379	0.2137	
	4	0.984	1.01	0.2379	0.2138	
	5	1.0	1.01	0.2379	0.2137	
	6	1.0	1.01	0.2379	0.2138	
	7	1.0	1.01	0.2378	0.2135	
	8	1.0	1.01	0.2376	0.2134	
	9	1.0	1.0	0.2377	0.2137	
	10	0.9851	1.01	0.2377	0.2131	

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	1.0	1.01	0.2379	0.2137	
	2	1.0	1.01	0.2378	0.2137	
	3	1.0	1.01	0.2377	0.2131	
	4	1.0	1.01	0.2379	0.2137	
	5	1.0	1.01	0.2378	0.2134	
	6	1.0	1.01	0.2379	0.2138	
	7	1.0	1.01	0.238	0.2134	
	8	1.0	1.01	0.2378	0.2139	
	9	1.0	1.01	0.2379	0.2137	
	10	1.0	1.01	0.2378	0.2135	

Replicate-level summary — SRV+Double+Triple (page 1/1)

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	1.0	1.0	0.2378	0.2132	
	2	1.0	1.0	0.2377	0.2131	
	3	0.9886	1.0	0.2378	0.2134	
	4	1.0	1.01	0.2379	0.2137	
	5	1.0	1.01	0.238	0.2134	
	6	1.0	1.01	0.2378	0.2135	
	7	1.0	1.0	0.2379	0.2137	
	8	1.0	1.01	0.2379	0.2137	
	9	1.0	1.0	0.238	0.2134	
	10	1.0	1.01	0.2379	0.2137	

Ω-class distributions (all) (cols 1-7/7)

test	Negative selection	0.188	39.736		SRV+Double
test	Negative selection	0.226	60.098		SRV+Double
test	Negative selection	0.19	39.736		SRV+Double
test	Negative selection	0.228	60.098		SRV+Double
reference	Diversifying selection	5.956	0.167		SRV+Double
reference	Negative selection	0.201	40.99		SRV+Double
reference	Negative selection	0.221	58.843		SRV+Double
test	Diversifying selection	5.956	0.167		SRV+Double
test	Negative selection	0.201	40.99		SRV+Double
test	Negative selection	0.221	58.843		SRV+Double
reference	Diversifying selection	6.054	0.161		SRV+Double
reference	Negative selection	0.208	79.211		SRV+Double
reference	Negative selection	0.232	20.628		SRV+Double
test	Diversifying selection	6.132	0.161		SRV+Double
test	Diversifying selection	6.054	0.161		SRV+Double
test	Negative selection	0.206	79.211		SRV+Double
test	Negative selection	0.229	20.628		SRV+Double
test	Negative selection	0.208	79.211		SRV+Double
test	Negative selection	0.232	20.628		SRV+Double
reference	Diversifying selection	6.023	0.164		SRV+Double
reference	Negative selection	0.208	79.632		SRV+Double
reference	Negative selection	0.23	20.205		SRV+Double
test	Diversifying selection	6.023	0.164		SRV+Double
test	Negative selection	0.208	79.632		SRV+Double
test	Negative selection	0.23	20.205		SRV+Double
reference	Diversifying selection	6.007	0.164		SRV+Double
reference	Negative selection	0.191	40.069		SRV+Double
reference	Negative selection	0.227	59.767		SRV+Double
test	Diversifying selection	6.109	0.164		SRV+Double
test	Diversifying selection	6.007	0.164		SRV+Double
test	Negative selection	0.188	40.069		SRV+Double
test	Negative selection	0.224	59.767		SRV+Double
test	Negative selection	0.191	40.069		SRV+Double
test	Negative selection	0.227	59.767		SRV+Double
reference	Diversifying selection	5.972	0.165		SRV+Double
reference	Negative selection	0.2	40.297		SRV+Double
reference	Negative selection	0.221	59.538		SRV+Double
test	Diversifying selection	5.972	0.165		SRV+Double
test	Negative selection	0.2	40.297		SRV+Double
test	Negative selection	0.221	59.538		SRV+Double
reference	Diversifying selection	6.019	0.163		SRV+Double
reference	Negative selection	0.2	51.857		SRV+Double
reference	Negative selection	0.227	47.98		SRV+Double
test	Diversifying selection	6.088	0.163		SRV+Double
test	Diversifying selection	6.019	0.163		SRV+Double
test	Negative selection	0.198	51.857		SRV+Double
test	Negative selection	0.225	47.98		SRV+Double
test	Negative selection	0.2	51.857		SRV+Double
test	Negative selection	0.227	47.98		SRV+Double
reference	Diversifying selection	6.061	0.163		SRV+Double

	class_id	syn_rate	proportion_percent	run_type	
	1	0.119	8.384	SRV	
	2	0.863	82.551	SRV	
	3	3.059	9.065	SRV	
	1	0.12	8.425	SRV	
	2	0.864	82.523	SRV	
	3	3.058	9.052	SRV	
	1	0.119	8.402	SRV	
	2	0.863	82.528	SRV	
	3	3.058	9.07	SRV	
	1	0.12	8.45	SRV	
	2	0.864	82.496	SRV	
	3	3.06	9.055	SRV	
	1	0.118	8.354	SRV	
	2	0.863	82.564	SRV	
	3	3.057	9.082	SRV	
	1	0.118	8.353	SRV	
	2	0.863	82.577	SRV	
	3	3.059	9.07	SRV	
	1	0.12	8.44	SRV	
	2	0.864	82.498	SRV	
	3	3.059	9.062	SRV	
	1	0.117	8.338	SRV	
	2	0.863	82.594	SRV	
	3	3.059	9.069	SRV	
	1	0.115	8.198	SRV	
	2	0.861	82.67	SRV	
	3	3.05	9.131	SRV	
	1	0.119	8.402	SRV	
	2	0.864	82.538	SRV	
	3	3.06	9.06	SRV	

reference	2H	0.0527	SRV+Double
test	2H	0.0	SRV+Double
reference	2H	0.0893	SRV+Double
reference	2H	0.0542	SRV+Double
test	2H	0.0	SRV+Double
reference	2H	0.0542	SRV+Double
reference	2H	0.0543	SRV+Double
reference	2H	0.0529	SRV+Double
test	2H	0.0	SRV+Double
reference	2H	0.1037	SRV+Double+Triple
reference	2H	0.0546	SRV+Double+Triple
reference	3H	0.1731	SRV+Double+Triple
reference	3H	0.1098	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple
test	3H	0.0	SRV+Double+Triple
reference	2H	0.0548	SRV+Double+Triple
reference	3H	0.1099	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple
test	3H	0.0	SRV+Double+Triple
reference	2H	0.1028	SRV+Double+Triple
reference	2H	0.0546	SRV+Double+Triple
reference	3H	0.1701	SRV+Double+Triple
reference	3H	0.1098	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple
test	3H	0.0	SRV+Double+Triple
reference	2H	0.0547	SRV+Double+Triple
reference	3H	0.1098	SRV+Double+Triple
reference	3H	0.1099	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple
test	3H	0.0	SRV+Double+Triple
reference	2H	0.1046	SRV+Double+Triple
reference	2H	0.0547	SRV+Double+Triple
reference	3H	0.179	SRV+Double+Triple
reference	3H	0.11	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple
test	3H	0.0	SRV+Double+Triple
reference	2H	0.0547	SRV+Double+Triple
reference	3H	0.11	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple
test	3H	0.0	SRV+Double+Triple
reference	2H	0.1064	SRV+Double+Triple
reference	2H	0.0547	SRV+Double+Triple
reference	3H	0.1833	SRV+Double+Triple
reference	3H	0.1099	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple
test	3H	0.0	SRV+Double+Triple
reference	2H	0.0547	SRV+Double+Triple
reference	3H	0.1099	SRV+Double+Triple
reference	3H	0.11	SRV+Double+Triple
test	2H	0.0	SRV+Double+Triple