

Table S1-1 Similarity analysis of HQ

	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	H-11	H-12	H-13	H-14	H-15	R
H-1	1	0.993	0.998	0.995	0.972	0.989	0.976	0.989	0.992	0.975	0.982	0.983	0.988	0.991	0.952	0.994
H-2	0.993	1	0.998	0.995	0.99	0.995	0.991	0.997	0.999	0.987	0.981	0.977	0.981	0.986	0.976	0.998
H-3	0.998	0.998	1	0.998	0.984	0.995	0.986	0.995	0.997	0.983	0.982	0.978	0.984	0.988	0.968	0.997
H-4	0.995	0.995	0.998	1	0.986	0.998	0.989	0.993	0.996	0.99	0.987	0.978	0.975	0.987	0.964	0.997
H-5	0.972	0.99	0.984	0.986	1	0.992	0.998	0.991	0.991	0.994	0.968	0.951	0.949	0.964	0.987	0.988
H-6	0.989	0.995	0.995	0.998	0.992	1	0.994	0.993	0.997	0.995	0.986	0.973	0.968	0.983	0.97	0.997
H-7	0.976	0.991	0.986	0.989	0.998	0.994	1	0.993	0.993	0.997	0.976	0.96	0.953	0.971	0.984	0.992
H-8	0.989	0.997	0.995	0.993	0.991	0.993	0.993	1	0.997	0.988	0.979	0.972	0.976	0.982	0.984	0.996
H-9	0.992	0.999	0.997	0.996	0.991	0.997	0.993	0.997	1	0.989	0.985	0.98	0.98	0.989	0.975	0.999
H-10	0.975	0.987	0.983	0.99	0.994	0.995	0.997	0.988	0.989	1	0.984	0.962	0.947	0.973	0.971	0.991
H-11	0.982	0.981	0.982	0.987	0.968	0.986	0.976	0.979	0.985	0.984	1	0.99	0.965	0.993	0.935	0.991
H-12	0.983	0.977	0.978	0.978	0.951	0.973	0.96	0.972	0.98	0.962	0.99	1	0.983	0.998	0.919	0.985
H-13	0.988	0.981	0.984	0.975	0.949	0.968	0.953	0.976	0.98	0.947	0.965	0.983	1	0.987	0.936	0.98
H-14	0.991	0.986	0.988	0.987	0.964	0.983	0.971	0.982	0.989	0.973	0.993	0.998	0.987	1	0.936	0.993
H-15	0.952	0.976	0.968	0.964	0.987	0.97	0.984	0.984	0.975	0.971	0.935	0.919	0.936	0.936	1	0.968
R	0.994	0.998	0.997	0.997	0.988	0.997	0.992	0.996	0.999	0.991	0.991	0.985	0.98	0.993	0.968	1

Table S1-2 Similarity analysis of YZZ

	Y-1	Y-2	Y-3	Y-4	Y-5	Y-6	Y-7	Y-8	Y-9	Y-10	Y-11	Y-12	Y-13	Y-14	Y-15	R
Y-1	1	0.988	0.992	0.872	0.873	0.997	0.92	0.929	0.949	0.989	0.997	0.979	0.786	0.886	0.987	0.978
Y-2	0.988	1	0.982	0.923	0.923	0.991	0.959	0.95	0.97	0.985	0.988	0.996	0.854	0.935	0.975	0.993
Y-3	0.992	0.982	1	0.896	0.898	0.993	0.932	0.956	0.969	0.984	0.986	0.978	0.807	0.905	0.993	0.985
Y-4	0.872	0.923	0.896	1	0.997	0.881	0.99	0.97	0.969	0.882	0.872	0.943	0.966	0.981	0.894	0.954
Y-5	0.873	0.923	0.898	0.997	1	0.884	0.99	0.963	0.964	0.874	0.87	0.946	0.976	0.989	0.89	0.954
Y-6	0.997	0.991	0.993	0.881	0.884	1	0.924	0.933	0.954	0.988	0.991	0.981	0.798	0.9	0.984	0.981
Y-7	0.92	0.959	0.932	0.99	0.99	0.924	1	0.976	0.981	0.922	0.922	0.974	0.952	0.982	0.929	0.98
Y-8	0.929	0.95	0.956	0.97	0.963	0.933	0.976	1	0.997	0.944	0.931	0.958	0.885	0.944	0.959	0.978
Y-9	0.949	0.97	0.969	0.969	0.964	0.954	0.981	0.997	1	0.963	0.951	0.976	0.887	0.952	0.97	0.99
Y-10	0.989	0.985	0.984	0.882	0.874	0.988	0.922	0.944	0.963	1	0.992	0.972	0.773	0.88	0.986	0.976
Y-11	0.997	0.988	0.986	0.872	0.87	0.991	0.922	0.931	0.951	0.992	1	0.979	0.782	0.883	0.983	0.977
Y-12	0.979	0.996	0.978	0.943	0.946	0.981	0.974	0.958	0.976	0.972	0.979	1	0.89	0.959	0.968	0.996
Y-13	0.786	0.854	0.807	0.966	0.976	0.798	0.952	0.885	0.887	0.773	0.782	0.89	1	0.976	0.789	0.887
Y-14	0.886	0.935	0.905	0.981	0.989	0.9	0.982	0.944	0.952	0.88	0.883	0.959	0.976	1	0.886	0.957
Y-15	0.987	0.975	0.993	0.894	0.89	0.984	0.929	0.959	0.97	0.986	0.983	0.968	0.789	0.886	1	0.98
R	0.978	0.993	0.985	0.954	0.954	0.981	0.98	0.978	0.99	0.976	0.977	0.996	0.887	0.957	0.98	1

Table S1-3 Similarity analysis of CWZ

	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	C-14	C-15	R
C-1	1	0.981	0.994	0.993	0.999	0.978	0.987	0.991	0.989	0.988	0.986	0.993	0.976	0.961	0.988	0.994
C-2	0.981	1	0.989	0.994	0.987	0.984	0.999	0.967	0.992	0.987	0.958	0.976	0.998	0.961	0.997	0.993
C-3	0.994	0.989	1	0.99	0.997	0.969	0.992	0.981	0.984	0.98	0.99	0.993	0.979	0.962	0.987	0.992
C-4	0.993	0.994	0.99	1	0.995	0.994	0.998	0.988	0.999	0.998	0.965	0.989	0.994	0.975	0.999	1

C-5	0.999	0.987	0.997	0.995	1	0.98	0.992	0.99	0.991	0.989	0.985	0.994	0.982	0.964	0.991	0.997
C-6	0.978	0.984	0.969	0.994	0.98	1	0.988	0.98	0.997	0.999	0.933	0.972	0.991	0.974	0.994	0.992
C-7	0.987	0.999	0.992	0.998	0.992	0.988	1	0.978	0.996	0.992	0.964	0.985	0.997	0.972	0.998	0.997
C-8	0.991	0.967	0.981	0.988	0.99	0.98	0.978	1	0.986	0.988	0.97	0.995	0.965	0.982	0.978	0.99
C-9	0.989	0.992	0.984	0.999	0.991	0.997	0.996	0.986	1	0.999	0.955	0.984	0.995	0.975	0.999	0.998
C-10	0.988	0.987	0.98	0.998	0.989	0.999	0.992	0.988	0.999	1	0.95	0.982	0.991	0.976	0.996	0.997
C-11	0.986	0.958	0.99	0.965	0.985	0.933	0.964	0.97	0.955	0.95	1	0.985	0.942	0.932	0.957	0.97
C-12	0.993	0.976	0.993	0.989	0.994	0.972	0.985	0.995	0.984	0.982	0.985	1	0.969	0.98	0.981	0.992
C-13	0.976	0.998	0.979	0.994	0.982	0.991	0.997	0.965	0.995	0.991	0.942	0.969	1	0.962	0.998	0.992
C-14	0.961	0.961	0.962	0.975	0.964	0.974	0.972	0.982	0.975	0.976	0.932	0.98	0.962	1	0.967	0.977
C-15	0.988	0.997	0.987	0.999	0.991	0.994	0.998	0.978	0.999	0.996	0.957	0.981	0.998	0.967	1	0.998
R	0.994	0.993	0.992	1	0.997	0.992	0.997	0.99	0.998	0.997	0.97	0.992	0.992	0.977	0.998	1

Table S1-4 Similarity analysis of JQG

	J-1	J-2	J-3	J-4	J-5	J-6	J-7	J-8	J-9	J-10	J-11	J-12	J-13	J-14	J-15	R
J-1	1	0.989	0.998	0.999	0.999	0.999	0.986	0.984	0.995	0.904	0.911	0.991	0.993	0.917	0.993	0.987
J-2	0.989	1	0.988	0.99	0.993	0.993	0.98	0.978	0.98	0.894	0.898	0.979	0.987	0.912	0.983	0.979
J-3	0.998	0.988	1	0.997	0.997	0.998	0.979	0.977	0.991	0.91	0.918	0.987	0.99	0.922	0.989	0.988
J-4	0.999	0.99	0.997	1	0.999	0.998	0.99	0.989	0.997	0.91	0.916	0.995	0.996	0.924	0.996	0.991
J-5	0.999	0.993	0.997	0.999	1	0.999	0.989	0.987	0.995	0.906	0.912	0.993	0.995	0.921	0.995	0.989
J-6	0.999	0.993	0.998	0.998	0.999	1	0.985	0.983	0.993	0.899	0.907	0.989	0.993	0.916	0.992	0.986
J-7	0.986	0.98	0.979	0.99	0.989	0.985	1	0.999	0.992	0.885	0.89	0.995	0.997	0.905	0.997	0.979
J-8	0.984	0.978	0.977	0.989	0.987	0.983	0.999	1	0.991	0.883	0.887	0.994	0.996	0.9	0.996	0.977
J-9	0.995	0.98	0.991	0.997	0.995	0.993	0.992	0.991	1	0.906	0.913	0.999	0.997	0.919	0.999	0.988
J-10	0.904	0.894	0.91	0.91	0.906	0.899	0.885	0.883	0.906	1	0.999	0.901	0.905	0.995	0.896	0.957
J-11	0.911	0.898	0.918	0.916	0.912	0.907	0.89	0.887	0.913	0.999	1	0.908	0.91	0.994	0.903	0.961
J-12	0.991	0.979	0.987	0.995	0.993	0.989	0.995	0.994	0.999	0.901	0.908	1	0.997	0.915	0.999	0.986
J-13	0.993	0.987	0.99	0.996	0.995	0.993	0.997	0.996	0.997	0.905	0.91	0.997	1	0.922	0.999	0.989
J-14	0.917	0.912	0.922	0.924	0.921	0.916	0.905	0.9	0.919	0.995	0.994	0.915	0.922	1	0.912	0.966
J-15	0.993	0.983	0.989	0.996	0.995	0.992	0.997	0.996	0.999	0.896	0.903	0.999	0.999	0.912	1	0.985
R	0.987	0.979	0.988	0.991	0.989	0.986	0.979	0.977	0.988	0.957	0.961	0.986	0.989	0.966	0.985	1