

	Blank	MD1055_1	3.19_1	IK_1	MD1055_1	3.19_1	IK_1	WTlac_1	lacUV5_1	MD1055_1	Blank	Blank
A												
B	WTlac_1	lacUV5_1	MD1055_2	3.19_2	MD1055_2	3.19_2	IK_2	WTlac_2	lacUV5_2	3.19_1	IK_1	WTlac_2
C	IK_2	WTlac_2	lacUV5_2	MD1055_1	MD1055_1	3.19_1	IK_1	WTlac_1	lacUV5_1	lacUV5_1	MD1055_2	3.19_2
D	3.19_1	IK_1	WTlac_1	lacUV5_1	MD1055_2	3.19_2	IK_2	WTlac_2	lacUV5_2	IK_2	WTlac_2	lacUV5_2
E	MD1055_2	3.19_2	IK_2	WTlac_2	MD1055_1	3.19_1	IK_1	WTlac_1	lacUV5_1	MD1055_1	3.19_1	IK_1
F	lacUV5_2	MD1055_1	3.19_1	IK_1	MD1055_2	3.19_2	IK_2	WTlac_2	lacUV5_2	WTlac_1	lacUV5_1	MD1055_2
G	WTlac_1	lacUV5_1	MD1055_2	3.19_2	MD1055_1	3.19_1	IK_1	WTlac_1	lacUV5_1	3.19_2	IK_2	WTlac_2
H	Blank	IK_2	WTlac_2	lacUV5_2	MD1055_2	3.19_2	IK_2	WTlac_2	lacUV5_2	lacUV5_2	Blank	Blank
	1	2	3	4	5	6	7	8	9	10	11	12

Figure 1 displays a 12x8 grid of heatmaps, where each row represents a different dataset (labeled A through H) and each column represents a different number of iterations (labeled 1 through 12). The color scale indicates the performance metric, ranging from 0.0 (dark blue) to 1.0 (dark red). The grid shows that the proposed algorithm (A) generally outperforms the baseline algorithm (B) across most datasets and iterations, with the performance gap widening as the number of iterations increases.

A	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
B	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
C	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
D	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
E	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
F	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
G	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
H	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.4 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	0.03 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c	1.0 <sub>pg/ml</sub> _3c
	1	2	3	4	5	6	7	8	9	10	11	12