IEDB Analysis Resource

MHC I Automated Server Benchmarks

Accumulated overall ranking scores

Ranking scores based on data sets submitted to the IEDB for the last at least 5 references.

Server	2019-03-15	2019-02-01	2018-05-11	2018-01-26	2017-09-01	2017-03-23	2016-12-09	2016-05-03	2016-02-19	2015-08-07	2015-07-31	2015-07-17	2015-06-26	2015-06-19	2015-05-15	2015-02-06	2015-01-16	2014-10-31	2014-06-20	2014-05-23	2014-03-28	2014-03-21
NetMHCpan 2.8	58	66	70	72	64	61	57	59	59	72	56	57	54	55	51	52	53	45	65	63	59	59
NetMHCpan 3.0	63	65	65	60	63	62	64	65	79	83	69	64	62	59	56	56	59	55	58	57	60	59
NetMHCpan 4.0	70	66	66	56	56	56	49	44	59	70	64	68	66	62	59	56	64	62	55	57	62	61
SMM	33	34	38	43	48	49	49	38	31	51	54	58	52	51	45	43	42	53	61	48	39	39
ANN 3.4	62	68	73	77	76	77	81	74	67	77	65	67	64	67	63	63	58	58	58	65	47	50
ANN 4.0	68	60	57	51	59	72	69	68	72	76	57	54	58	58	55	58	55	54	78	73	68	67
ARB	13	14	13	14	13	25	20	20	25	55	32	34	29	31	28	29	30	18	52	45	21	18
SMMPMBEC	43	47	56	62	62	71	87	75	73	81	52	46	45	43	37	36	33	51	59	43	39	40
IEDB Consensus	41	39	44	44	58	66	62	47	41	55	42	44	45	44	36	39	38	48	52	48	57	57
NetMHCcons	60	66	71	76	74	73	69	66	58	68	66	68	69	71	67	65	64	71	56	61	63	63
PickPocket	39	42	51	53	45	52	48	43	43	53	34	38	34	35	28	24	32	28	64	66	51	46
mhcflurry 1.2.0	65	52	56	55	59	74	73	83	90	88	90	92	92	92	93	93	82	55	90	85	85	85

Weekly ranking scores

Ranking scores based on data sets submitted to the IEDB within a single week.

Server	2019-03-15	2019-02-01	2018-05-11	2018-01-26	2017-09-01	2017-03-23	2016-12-09	2016-05-03	2016-02-19	2015-08-07	2015-07-31	2015-07-17	2015-06-26	2015-06-19	2015-05-15	2015-02-06	2015-01-16	2014-10-31	2014-06-20	2014-05-23	2014-03-28	2014-03-21
NetMHCpan 2.8	55	44	45	81	81	70	60	56	9	95	60	77	50	89	49	54	52	45	64	86	82	59
NetMHCpan 3.0	86	62	77	47	74	65	65	36	64	95	72	77	100	89	54	58	56	55	91	9	82	59
NetMHCpan 4.0	95	76	80	50	65	70	70	16	27	95	49	55	88	89	64	52	58	62	64	9	100	61
SMM	27	50	25	19	34	35	85	68	46	0	9	68	-	89	50	41	42	53	64	55	18	39
ANN 3.4	59	47	61	79	78	59	85	100	73	95	46	55	-	95	62	66	62	58	32	36	36	50
ANN 4.0	64	89	93	33	41	89	40	55	82	95	100	9	-	89	51	59	57	54	100	73	36	67
ARB	0	24	2	-	13	26	0	0	0	100	0	0	-	89	26	20	37	18	9	36	82	18
SMMPMBEC	36	39	30	64	52	49	90	82	64	95	100	32	-	89	39	36	35	51	91	55	18	40
IEDB Consensus	18	67	61	9	30	61	85	73	91	9	27	36	-	100	32	44	33	48	36	36	0	57
NetMHCcons	77	48	57	67	82	74	65	88	36	95	60	41	50	89	68	70	63	71	18	82	82	63
PickPocket	9	35	7	75	40	47	85	24	18	95	34	82	0	70	31	31	24	28	0	77	82	46
mhcflurry 1.2.0	73	61	68	-	38	89	10	59	100	95	87	86	-	89	93	92	95	55	91	95	91	85

Benchmark results get recalculated as new servers are added to the benchmarks. Numbers in light grey represent scores on datasets before the server was incorporated into the benchmarks. Previous versions of the benchmark results can be downloaded below

- 2019-04-02
- 2018-01-26