Table 2: **Comparison with Transferable NAS on NB201 Serach Space.** We present the accuracy achieved on four unseen datasets. Additionally, we provide the number of neural architectures (**Trained Archs**) that are actually trained to achieve accuracy. The accuracies are reported with 95% confidence intervals over 3 runs.

Type	Method	CIFAR-10		CIFAR-100		Aircraft		Oxford-IIIT Pets	
		Accuracy (%)	Trained Archs	Accuracy (%)	Trained Archs	Accuracy (%)	Trained Archs	Accuracy (%)	Trained Archs
	ResNet (He et al., 2016)	$93.97_{\pm 0.00}$	N/A	$70.86_{\pm 0.00}$	N/A	$47.01_{\pm 1.16}$	N/A	$25.58_{\pm 3.43}$	N/A
	RS (Bergstra & Bengio, 2012)	$93.70_{\pm 0.36}$	> 500	$71.04_{\pm 1.07}$	> 500	-	-	-	-
	REA (Real et al., 2019)	$93.92_{\pm 0.30}$	> 500	$71.84_{\pm 0.99}$	> 500	-	-	-	-
	REINFORCE (Williams, 1992)	$93.85_{\pm 0.37}$	> 500	$71.71_{\pm 1.09}$	> 500	-	-	-	-
One-shot NAS*	RSPS (Li & Talwalkar, 2019)	$84.07_{\pm 3.61}$	N/A	$52.31_{\pm 5.77}$	N/A	$42.19_{\pm 3.88}$	N/A	$22.91_{\pm 1.65}$	N/A
	SETN (Dong & Yang, 2019a)	$87.64_{\pm 0.00}$	N/A	$59.09_{\pm 0.24}$	N/A	$44.84_{\pm 3.96}$	N/A	$25.17_{\pm 1.68}$	N/A
	GDAS (Dong & Yang, 2019b)	$93.61_{\pm 0.09}$	N/A	$70.70_{\pm 0.30}$	N/A	$53.52_{\pm 0.48}$	N/A	$24.02_{\pm 2.75}$	N/A
	PC-DARTS (Xu et al., 2020)	$93.66_{\pm 0.17}$	N/A	$66.64_{\pm 2.34}$	N/A	$26.33_{\pm 3.40}$	N/A	$25.31_{\pm 1.38}$	N/A
	DrNAS (Chen et al., 2021)	$94.36_{\pm 0.00}$	N/A	$73.51_{\pm 0.00}$	N/A	$46.08_{\pm 7.00}$	N/A	$26.73_{\pm 2.61}$	N/A
BO-based NAS	BOHB (Falkner et al., 2018)	$93.61_{\pm 0.52}$	> 500	$70.85_{\pm 1.28}$	> 500	-	-	-	-
	GP-UCB	$\mathbf{94.37}_{\pm 0.00}$	58	$73.14_{\pm 0.00}$	100	$41.72_{\pm 0.00}$	40	$40.60_{\pm 1.10}$	11
	BANANAS (White et al., 2021a)	$\mathbf{94.37}_{\pm 0.00}$	46	$\mathbf{73.51}_{\pm 0.00}$	88	$41.72_{\pm 0.00}$	40	$40.15_{\pm 1.59}$	17
	NASBOWL (Ru et al., 2021)	$94.34_{\pm 0.00}$	100	$\mathbf{73.51}_{\pm 0.00}$	87	$53.73_{\pm 0.83}$	40	$41.29_{\pm 1.10}$	17
	HEBO (Cowen-Rivers et al., 2022)	$94.34_{\pm 0.00}$	100	$72.62_{\pm 0.20}$	100	$49.32_{\pm 6.10}$	40	$40.55_{\pm 1.15}$	18
Transferable NAS	TNAS (Shala et al., 2023)	$\mathbf{94.37}_{\pm 0.00}$	29	$\mathbf{73.51}_{\pm 0.00}$	59	$59.15_{\pm 0.58}$	26	$40.00_{\pm 0.00}$	6
	MetaD2A (Lee et al., 2021a)	$\mathbf{94.37}_{\pm 0.00}$	100	$73.34_{\pm 0.04}$	100	$57.71_{\pm 0.20}$	40	$39.04_{\pm 0.20}$	40
	DiffusionNAG (Ours)	$\mathbf{94.37}_{\pm 0.00}$	5	$\mathbf{73.51}_{\pm 0.00}$	5	$\mathbf{59.63}_{\pm 0.92}$	2	$\mathbf{41.32}_{\pm 0.84}$	2