

Dataset		#Bits				
		4	8	16	32	64*
Yale	Base	$31.12 \pm 7.15$	$41.41 \pm 8.38$	$56.36 \pm 6.12$	$55.95 \pm 6.30$	$55.95 \pm 6.30$
	Log.	$30.31 \pm 7.43$	$51.70 \pm 9.28$	$57.17 \pm 8.22$	$57.17 \pm 8.42$	$57.17 \pm 8.22$
TOX171	Base	$64.71 \pm 8.61$	$66.85 \pm 7.28$	$71.53 \pm 7.26$	$70.76 \pm 6.75$	$70.76 \pm 6.75$
	Log.	$67.84 \pm 4.24$	$68.83 \pm 9.97$	$71.18 \pm 9.48$	$71.19 \pm 9.40$	$71.19 \pm 9.40$
DLBC	Base	$75.13 \pm 19.52$	$93.62 \pm 6.33$	$93.62 \pm 6.33$	$92.93 \pm 6.99$	$93.62 \pm 6.33$
	Log.	$83.08 \pm 9.29$	$94.95 \pm 8.06$	$94.95 \pm 8.06$	$94.95 \pm 8.06$	$94.95 \pm 8.06$
Colon	Base	$61.11 \pm 13.62$	$79.48 \pm 10.43$	$84.76 \pm 12.35$	$83.68 \pm 12.06$	$83.68 \pm 12.06$
	Log.	$58.09 \pm 18.29$	$79.44 \pm 10.89$	$83.19 \pm 13.01$	$83.19 \pm 13.01$	$83.19 \pm 13.01$
humanActivity	Base	$52.30 \pm 1.85$	$85.02 \pm 1.23$	$85.23 \pm 1.29$	$85.21 \pm 1.30$	$85.21 \pm 1.30$
	Log.	$58.03 \pm 10.55$	$85.36 \pm 0.94$	$85.15 \pm 0.92$	$85.17 \pm 0.91$	$85.06 \pm 0.87$
Leukemia	Base	$90.74 \pm 8.97$	$91.67 \pm 8.38$	$93.52 \pm 8.15$	$93.52 \pm 8.15$	$93.52 \pm 8.15$
	Log.	$93.52 \pm 4.71$	$89.35 \pm 9.11$	$94.44 \pm 3.61$	$94.44 \pm 3.61$	$93.06 \pm 5.10$
SRBCT	Base	$84.33 \pm 10.48$	$90.79 \pm 9.43$	$93.59 \pm 6.85$	$94.38 \pm 7.01$	$94.38 \pm 7.01$
	Log.	$85.96 \pm 8.98$	$87.24 \pm 11.15$	$89.56 \pm 7.60$	$89.56 \pm 7.60$	$88.76 \pm 7.80$

Classification accuracy (%) and standard deviation for the base and logarithmic division versions of the JMI method on high-dimensional datasets for 75-top selected features. Results for Naive-Bayes classifier.