

**Table S2: List of parameter sets to evaluate MetaBAT2 on 120 real metagenome assem**

<b>Parameter Set</b>	<b>Max Edges</b>	<b>MaxP</b>	<b>MinS</b>	<b>Better</b>	<b>Same</b>	<b>Worse</b>	
<b>S1</b>	2000		91	60	32	75	13
<b>S2</b>	400		91	50	31	74	15
<b>S3</b>	500		91	80	31	75	14
<b>S4</b>	200		91	60	31	77	12
<b>S5</b>	200		98	60	13	88	19
<b>S6</b>	2000		95	60	7	105	8
<b>S7</b>	10000		95	60	6	106	8
<b>S8</b>	400		95	60	5	107	8
<b>S9</b>	3000		95	60	5	107	8
<b>Default</b>	200		95	60			

## **nblies**

### **Total**

120  
120  
120  
120  
120  
120  
120  
120  
120  
120