## Part 1 Demultiplexing | BIO 622

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## Part 1

	Filename	Read
1.	$1294_{S}1_{L}008_{R}1_{0}01.fastq.gz$	Read 1
	$1294_{S}1_{L}008_{R}2_{0}01.fastq.gz$	Index 1
	$1294_{S}1_{L}008_{R}3_{0}01.fastq.gz$	Index 2
	$1294_{S}1_{L}008_{R}4_{0}01.fastq.gz$	Read 2

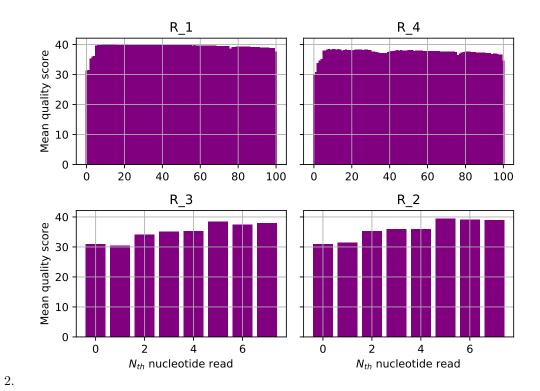


Figure 1: Distribution of average quality score R1

Due to the first two biological reads – for both R1 and R2 – are quite low  $\approx < 36$ , I would set the cutoff for 37, to make sure we are getting high quality biological reads.

To find the total number of N's within the two index reads, I used the following bash command  ${\it zcat~emp\_files/1294\_S1\_L008\_R[2-3]*~|~awk~'NR\%4==2'~|~grep~N~|~wc~-l~>~countN\_Index.txt}$