

# genometa project overview

## Functional requirements

		status	assigned protocol #	pct done
Priority 1	1.1 Graphs	started		
	optically pleasing		27, 28, 35, 40, 45, 46, 47, 52, 53, 63, 64, 65, 70	<div><div></div></div> 80%
	editable			<div><div></div></div> 80%
	1.2 Summary of all species	started		
	show bacteria names			<div><div></div></div> 0%
	show summed read hits		48, 49, 66, 67	<div><div></div></div> 50%
	summed reads in left hand widget		36, 76	<div><div></div></div> 10%
	1.3 Reads aligned to one species	started		
	show read positions			<div><div></div></div> 50%
	1.4 Zoomable Graphs	started		
Priority 2	show complete histogram		71, 72, 73, 74, 81, 82	<div><div></div></div> 90%
	multiple zoom levels		39	<div><div></div></div> 90%
	2.1 Feature annotation track (GFF file)	started		
	display genes at their positions		84	<div><div></div></div> 90%
	stack overlapping genes			<div><div></div></div> 100%
	2.2 Map RefSeq to species name	started		
	display RefSeq and name		61, 75, 83, 85	<div><div></div></div> 90%
	2.3 Map genera name to lineage name	not started		
	display lineage name			<div><div></div></div> 0%
	2.4 Text Export	not started		
Priority 3	export information to csv format			<div><div></div></div> 0%
	2.5 Analyze number of reads	not started		
	show number of reads in info widget			<div><div></div></div> 0%
	transcriptomics/metagenomics distinction			<div><div></div></div> 0%
	3.1 Run external aligner	started		
	bowtie		16, 24, 68	<div><div></div></div> 30%
	Priority 4			
	4.1 Sequence Export	not started		
	export sequence to text			<div><div></div></div> 0%
	4.2 Graph Export	discussion		
Priority 5	export graphs to vector format			<div><div></div></div> 75%
	export graphs to raster format			<div><div></div></div> 75%
	4.3 Transcriptome analysis	not started		
	list coordinates of possible sRNAs or ORFs			<div><div></div></div> 0%
	5.1 SNP visualisation	not started		
	mismatches should be flagged and vis.			<div><div></div></div> 0%

## Non-functional requirements

Priority 1	1.1 Usability	started		
	clear und understandable menu system		29, 37, 43	<div><div></div></div> 75%
	installation guide			<div><div></div></div> 0%
	1.2 Memory efficiency	started		
	fast SAM/BAM importer/parser		10, 18, 22, 23, 30, 33	<div><div></div></div> 80%

Priority 2	1.3	<b>Multi processor capable</b>	not started		
		parallelized		<div><div></div></div>	0%
	1.4	<b>Documentation</b>	started		
		document source code		20, 21	100%
		how to		<div><div></div></div>	0%
		tips and tricks		<div><div></div></div>	0%
	1.5	<b>Programming language</b>	finished		
		Java		<div><div></div></div>	100%
		external libraries documented		<div><div></div></div>	100%
	2.1	<b>Platform independence</b>	started		
		platform specific installer		<div><div></div></div>	90%
		well organized and packaged		11, 12, 20, 21	100%
	2.2	<b>Website</b>	not started		
		create simple website		<div><div></div></div>	0%
	2.3	<b>Open Source</b>			
		make source code available	started	17, 58, 59, 79, 80	75%