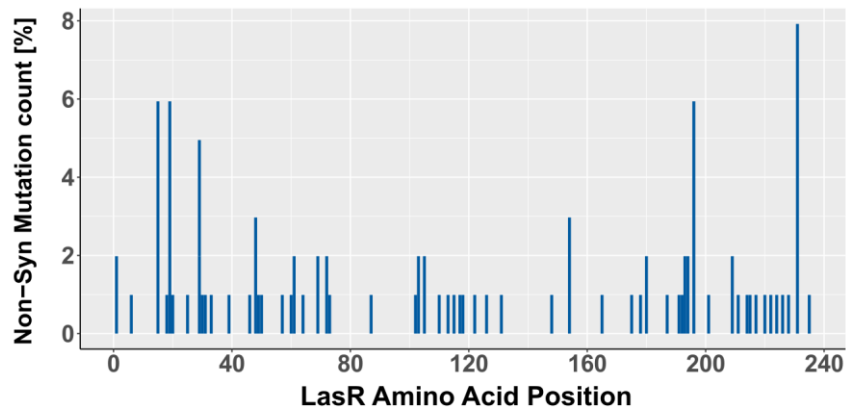
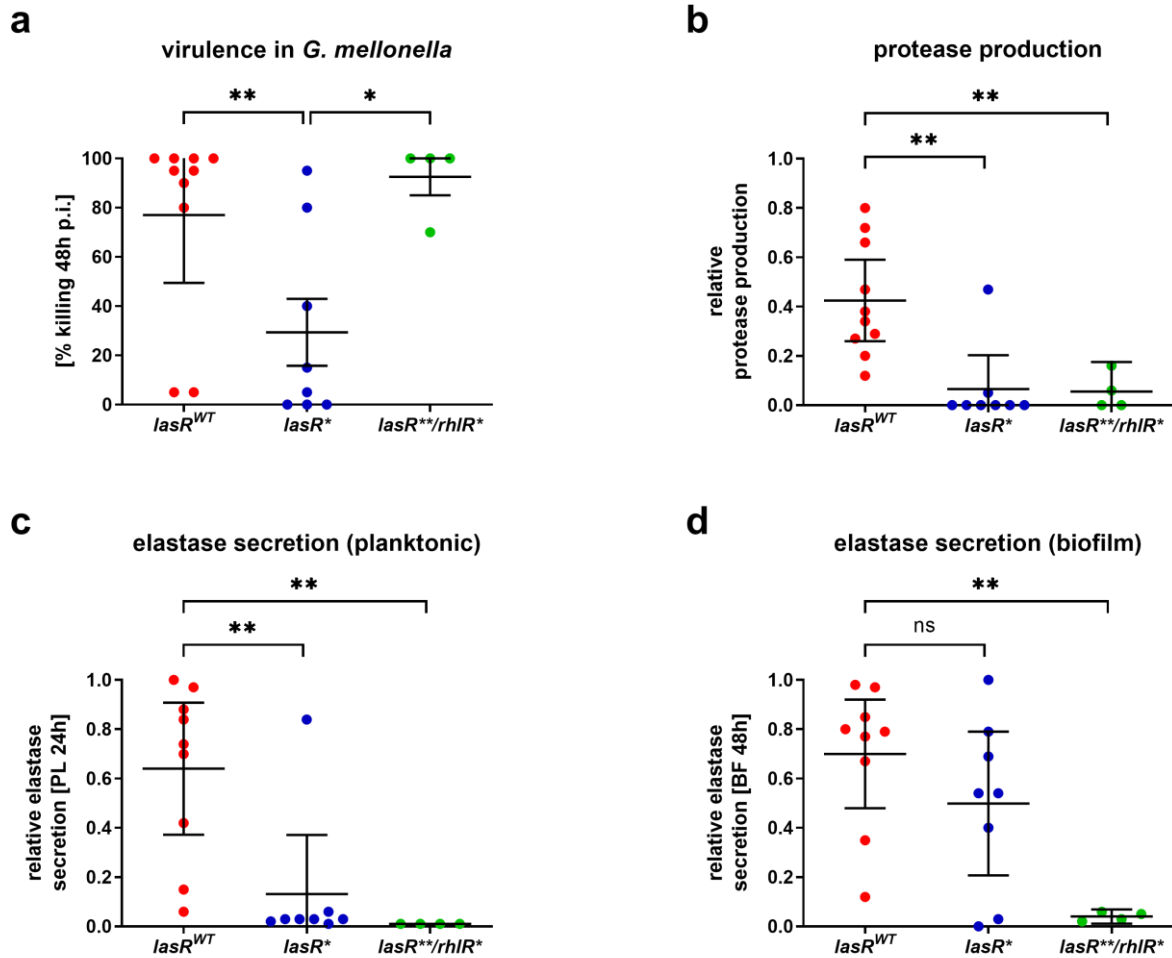


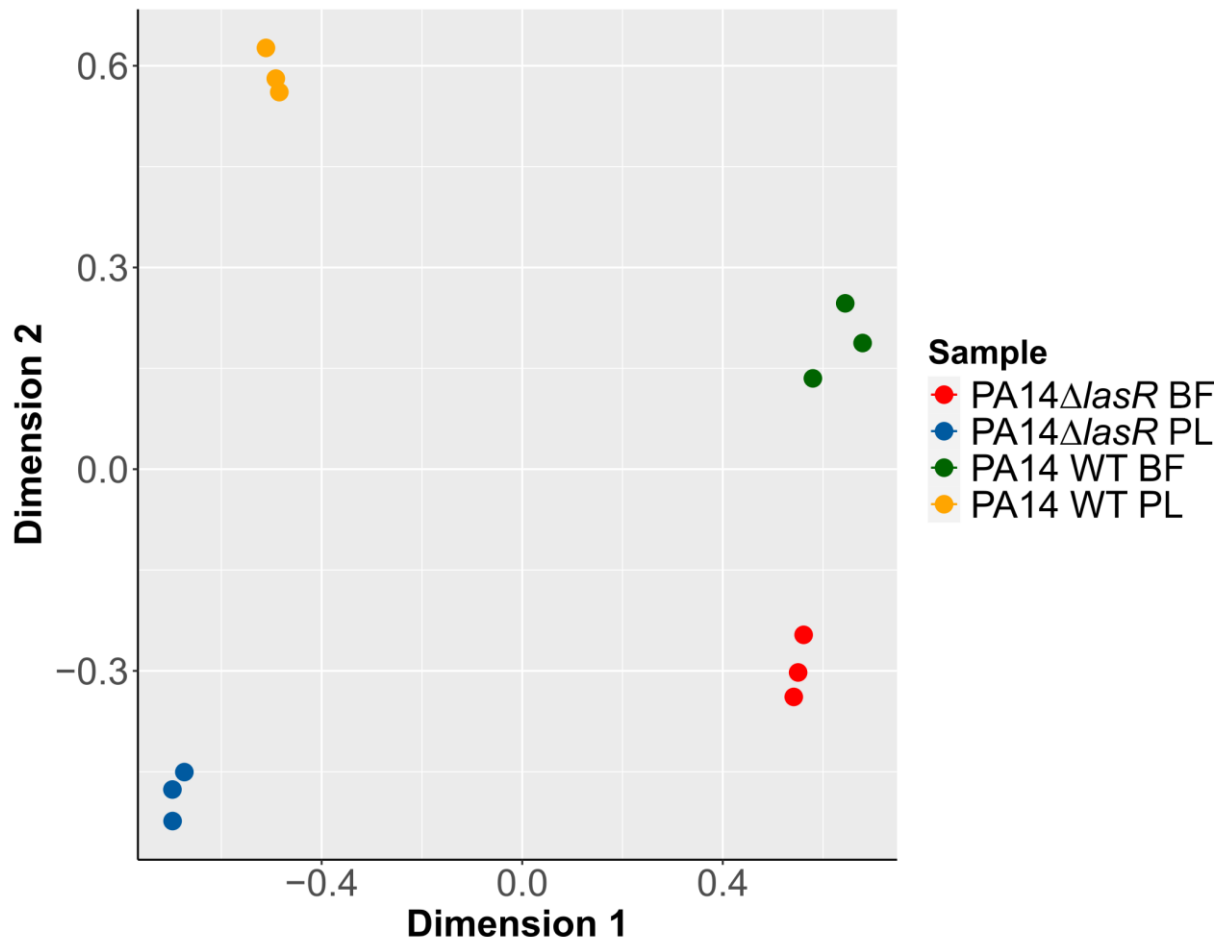
Supplementary Information



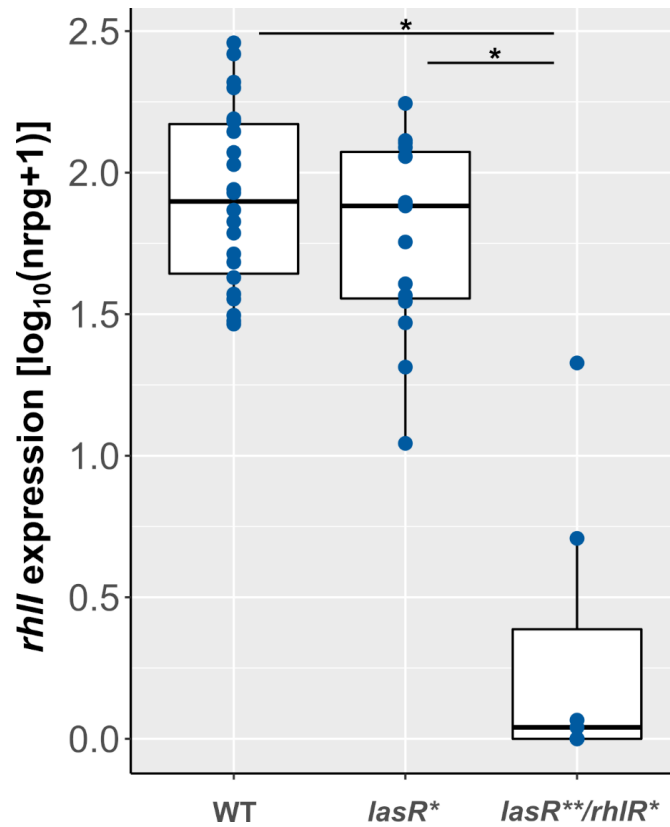
Supplementary Figure 1: Mapping of the non-synonymous amino acid exchanges to the LasR PAO1 and PA14 reference. The *lasR* gene sequences of all 414 clinical isolates that harbored non-synonymous sequence variations within *lasR* were mapped to their amino acid position within the protein. The *lasR* gene sequence of PA14 and PAO1 served as a reference. The relative number of clinical isolates harboring the respective amino acid variation is shown. Insertions/Deletions and premature stop codons were excluded.



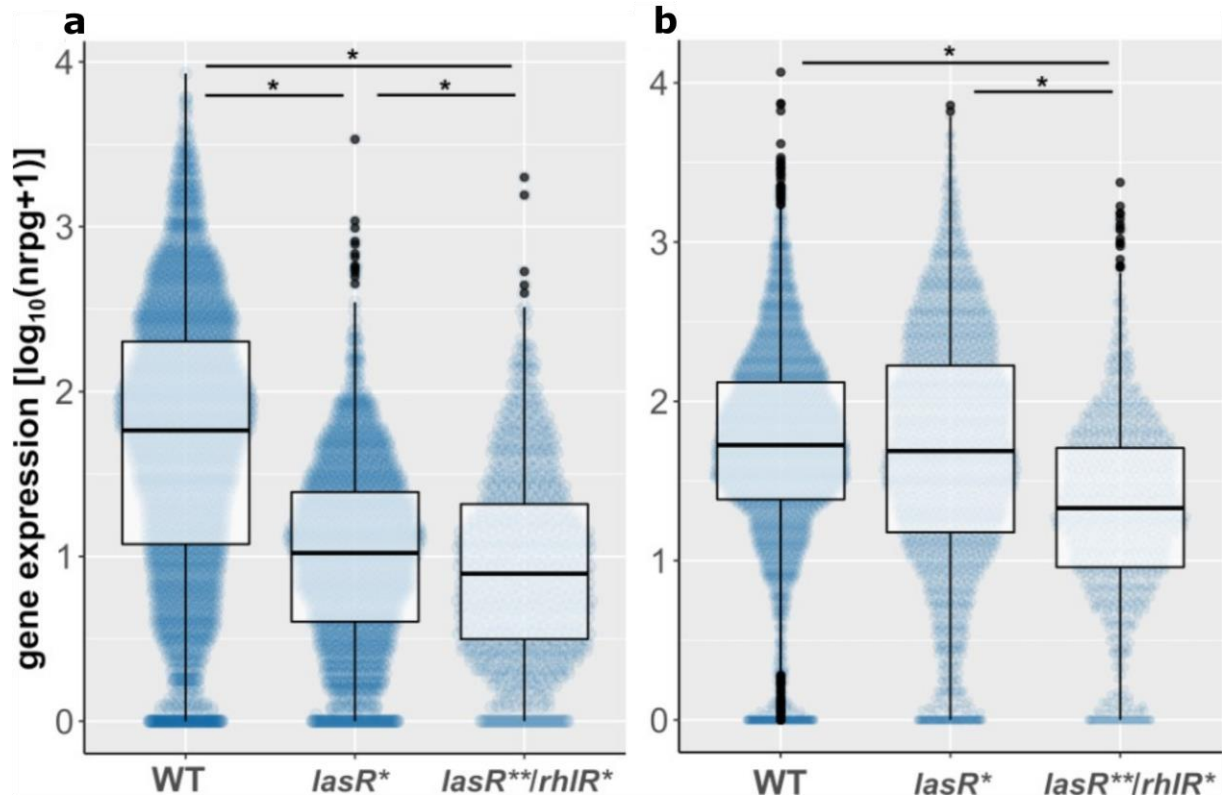
Supplementary Figure 2: Selected clinical isolates exhibit distinct phenotypic characteristics based on their allele status of the *lasR* and *rhIR* genes. Strains with a defective LasR (*lasR^{*}*) are significantly less virulent than wild-type isolates (*lasR^{WT}*) or strains lacking functional LasR and RhIR (*lasR^{**}/rhIR^{*}*) in an *in vivo* *Galleria mellonella* infection model (a). Protease production and elastase secretion (planktonic growth) are significantly reduced in *lasR^{*}* and *lasR^{**}/rhIR^{*}* isolates compared with *lasR^{WT}* (b + c). Elastase secretion for *lasR^{*}*, but not *lasR^{**}/rhIR^{*}* strains, is restored when cultivated under biofilm growth conditions (d). Each dot represents an individual clinical isolate. The solid line represents the mean and the whiskers display the 95 %-confidence intervals. Levels of statistical significance were calculated using Kruskal-Wallis and Mann-Whitney tests and are indicated as ** (p -value < 0.01), or * (p -value < 0.05).



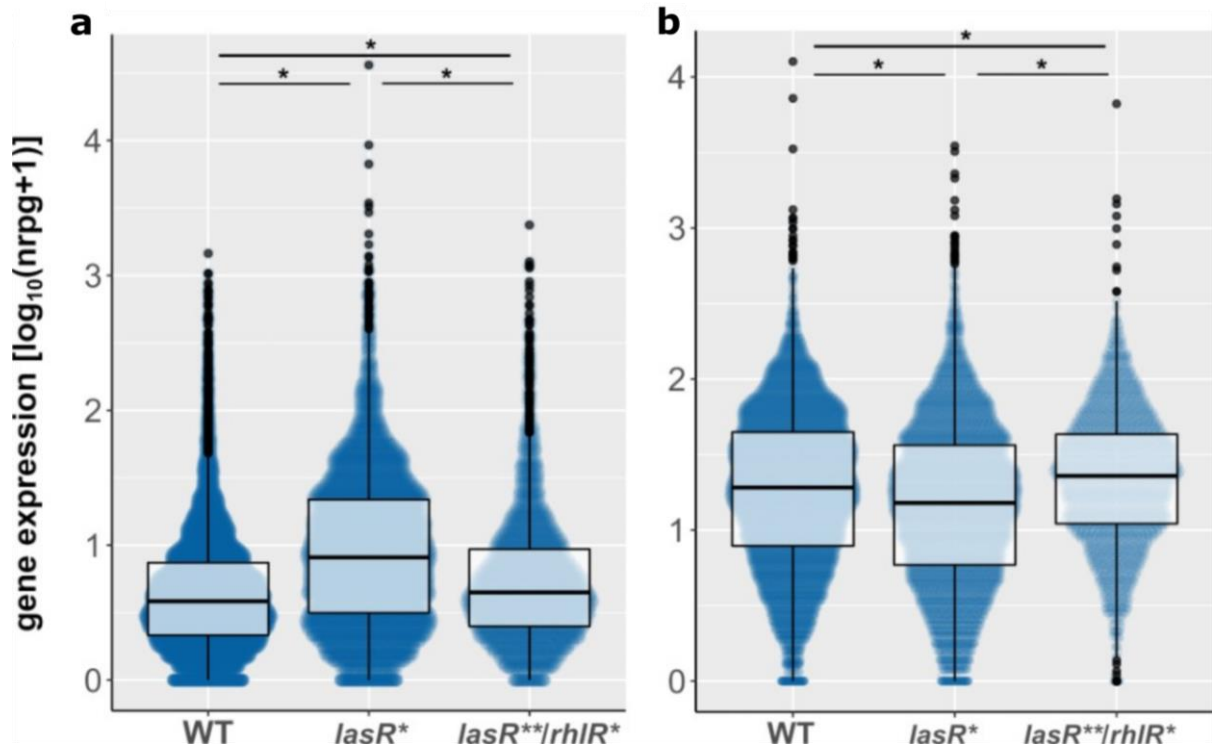
Supplementary Figure 3: Transcriptomes of *P. aeruginosa* PA14 and its $\Delta lasR$ mutant under biofilm and planktonic growth conditions. MDS plot depicts normalized global gene expression values of PA14 WT and its clean *lasR* deletion mutant (PA14 $\Delta lasR$) under planktonic growth conditions (in yellow and blue) and 48h biofilm growth (in green and red).



Supplementary Figure 4: *lasR/rhIR** clinical isolates exhibit a reduced *rhII* expression compared to *lasR** and wild-type isolates.** Expression of *rhII* encoding the autoinducer synthase RhII in clinical *P. aeruginosa* isolates is depicted. Clinical isolates with InDel mutations or premature stop codons in either only *lasR* (*lasR**; n = 15), both *lasR* and *rhIR* (*lasR**/rhIR**; n = 7) or in none of the two genes (WT; n = 22) were included in the analysis. The 7 *lasR**/rhIR** isolates also included strains exhibiting non-synonymous amino acid exchanges in the gene sequence of *lasR*. Reads are shown as \log_{10} normalized million reads per gene. A value of 1 was added to all nrpg values prior to \log_{10} transformation in order to prevent the creation of infinite values. Each box includes 50% of the data. p -values < 0.05 (Wilcoxon rank sum test) are marked with an asterisk.



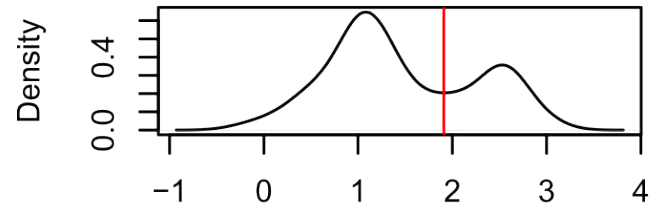
Supplementary Figure 5: Expression of all LasR core regulon genes (n = 138) among the *lasR*^{WT}, *lasR*^{*} and *lasR*^{}/*rhIR*^{*} isolates.** Gene expression values ($\log_{10}(\text{nrpg}+1)$) of the core *lasR* regulon genes in the *lasR*^{WT} (n = 22), *lasR*^{*} (n = 15) and *lasR*^{**}/*rhIR*^{*} (n = 7) clinical isolates under planktonic (a) and biofilm (b) growth conditions. Asterisk: p -value < 0.05 (Wilcoxon rank sum test).



Supplementary Figure 6: Expression of all genes that are negatively affected by the presence of *lasR* among the *lasR*^{WT}, *lasR*^{*} and *lasR*^{}/*rhIR*^{*} isolates.** Gene expression values ($\log_{10}(\text{nrpg}+1)$) of the *lasR* repressed genes in the *lasR*^{WT} (n = 22), *lasR*^{*} (n = 15) and *lasR*^{**}/*rhIR*^{*} (n = 7) clinical isolates under planktonic (a) and biofilm (b) growth conditions. Asterisk: p -value < 0.05 (Wilcoxon rank sum test).

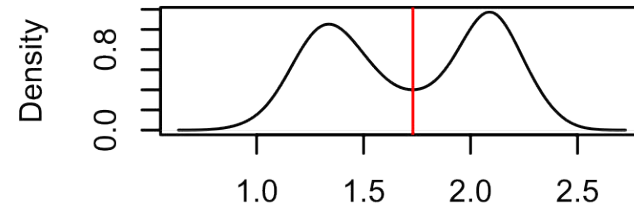
Supplementary Figure 7: Bi-modal genes show characteristic expression patterns in a collection of 414 clinical *P. aeruginosa* isolates. Figures display distributions and cut-off visualization. Density plots for each of the identified 136 genes with an at least bi-modal pattern display the expression distribution (based on normalized expression values; y-axis) across the population of strains (x-axis). Multimodality was calculated using the R package *multimode* in default mode, a corrected *p*-value of < 0.1 was used as a threshold. Red lines indicate expression cut-offs between lowly expressing and highly expressing isolates. *n* = number of analyzed isolates; Bandwidth = value used in the density() function (default mode) of R to smoothen the plot.

PA14_01140



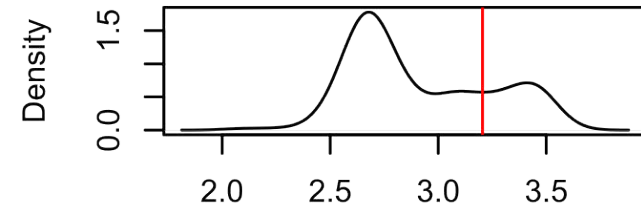
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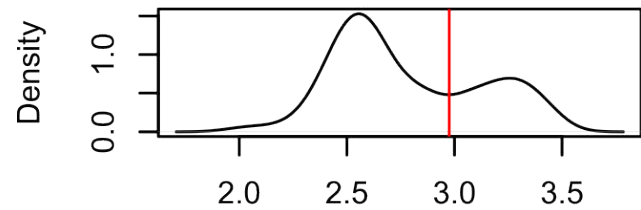
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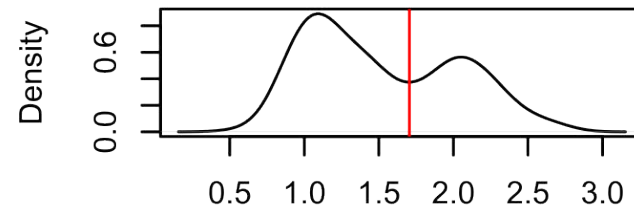
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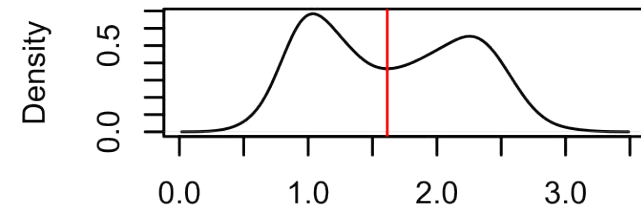
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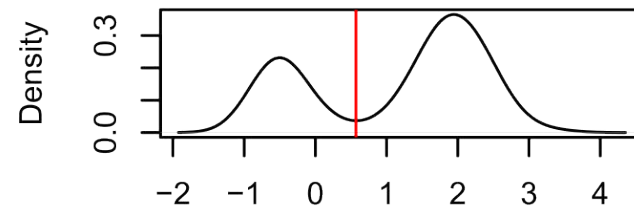
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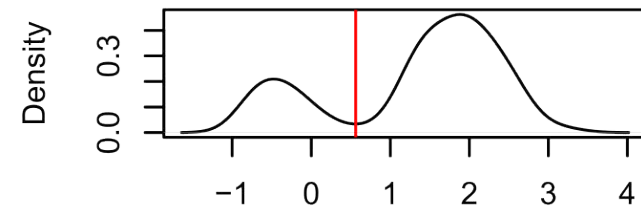
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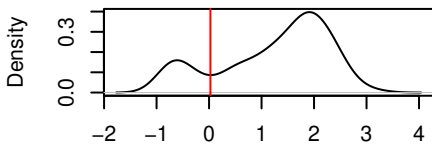


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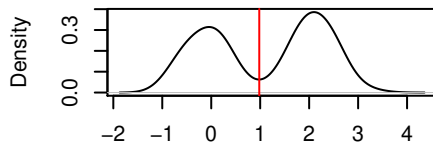
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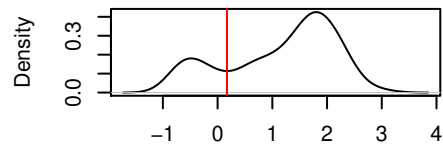
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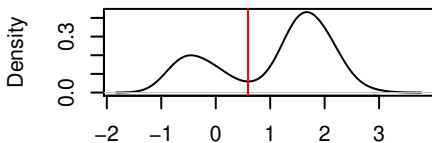
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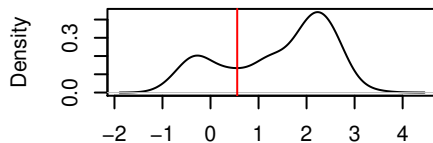
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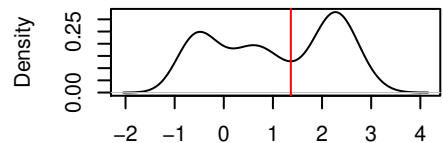
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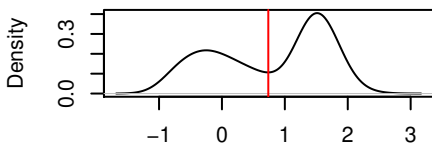
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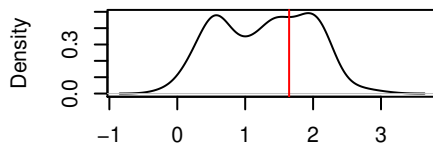
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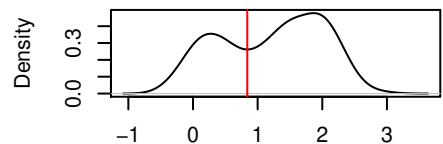
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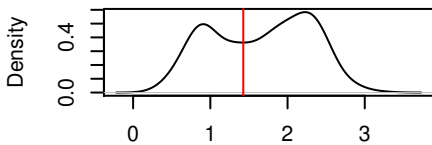
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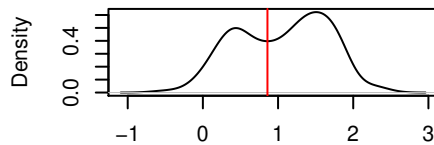
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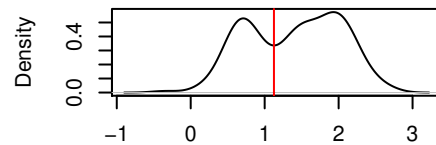
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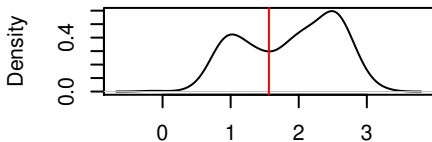
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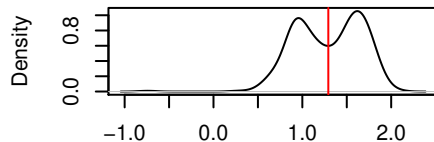
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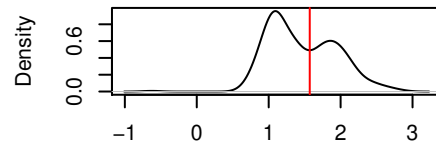
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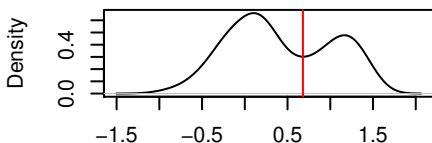
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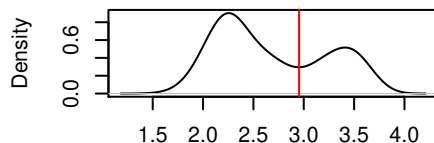
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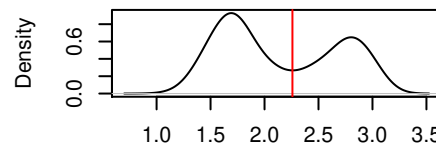
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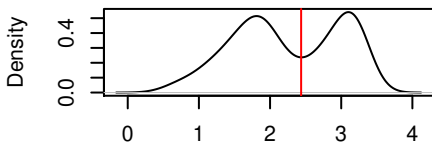
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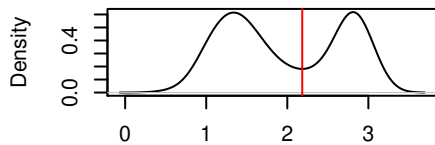
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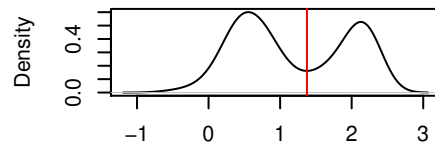
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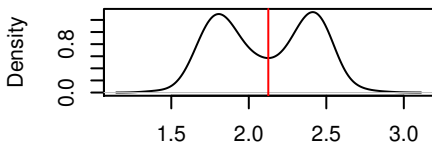
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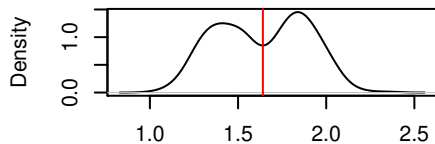
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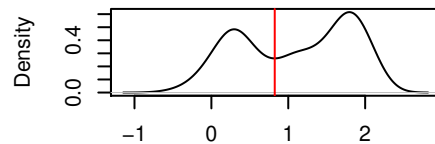
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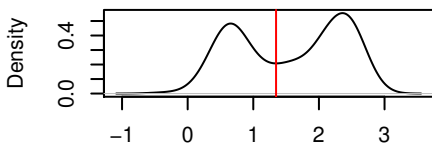
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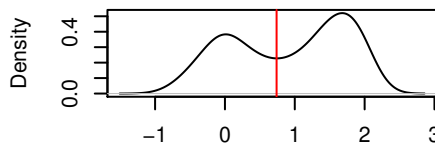
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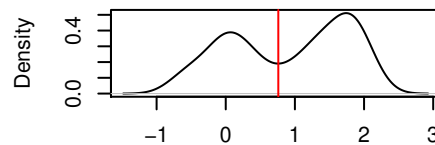
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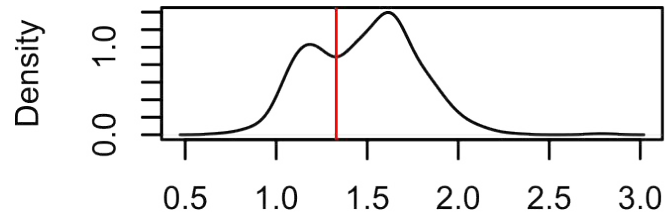
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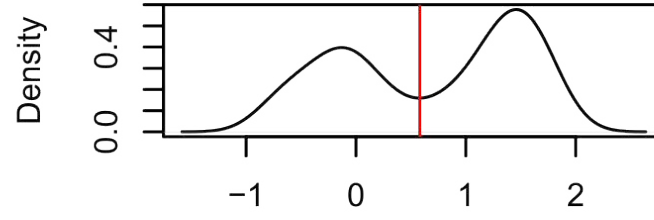
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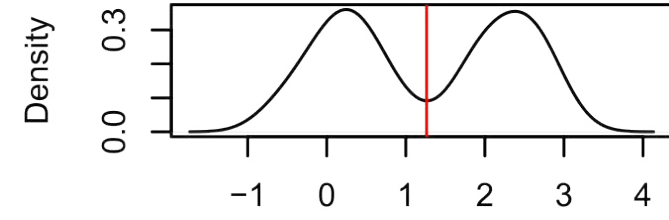
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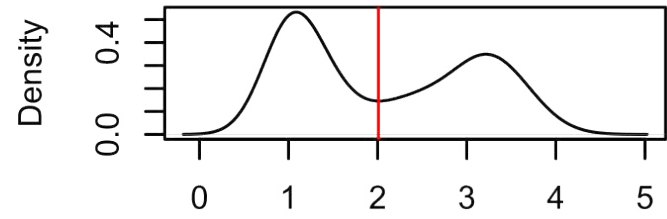
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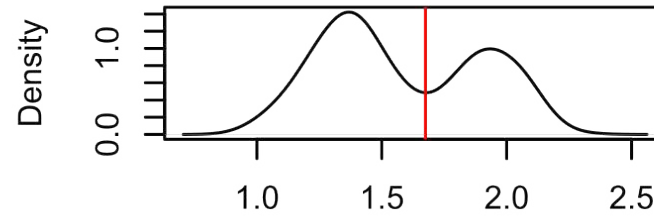
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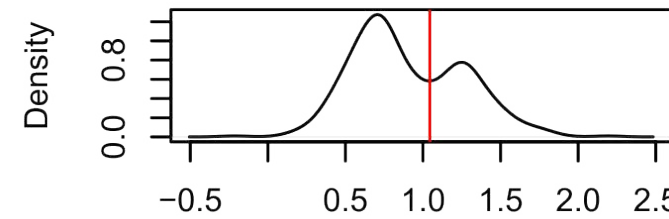
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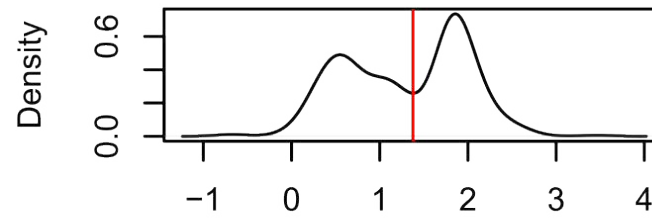
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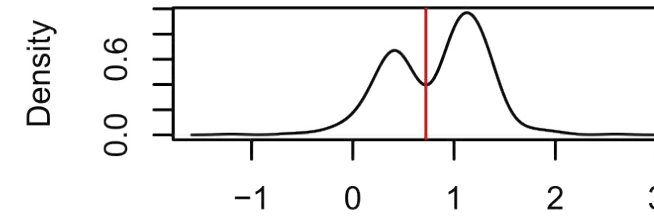
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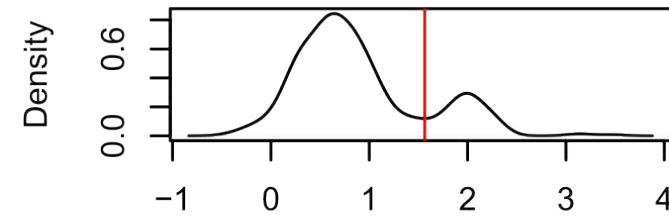
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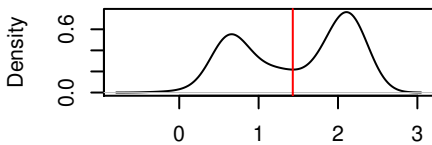


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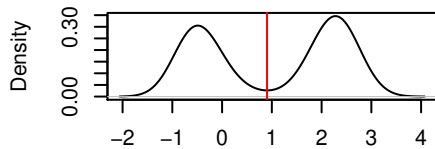
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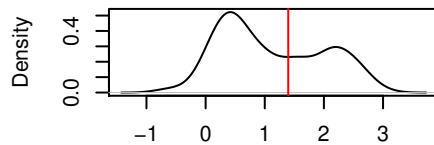
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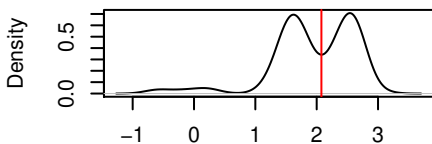
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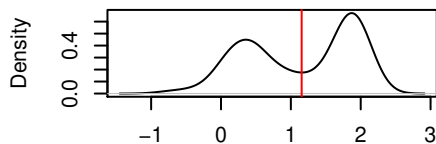
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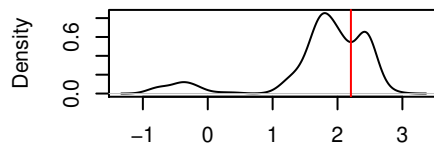
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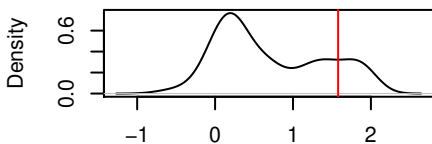
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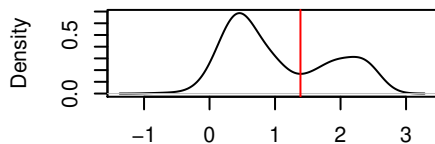
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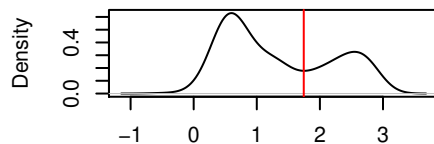
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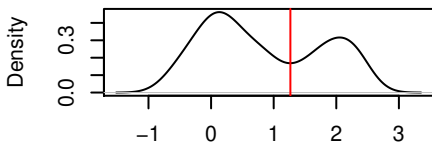
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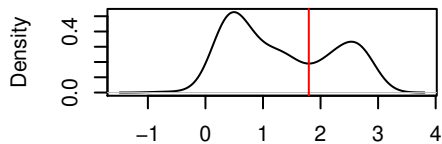
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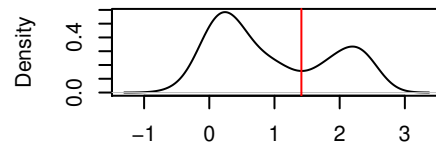
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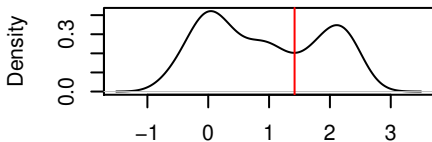
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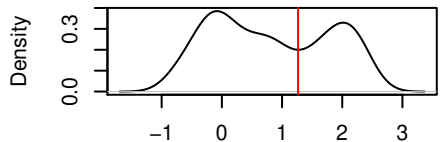
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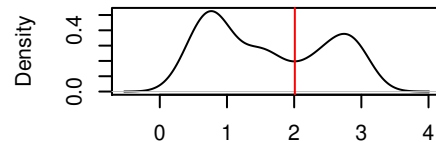
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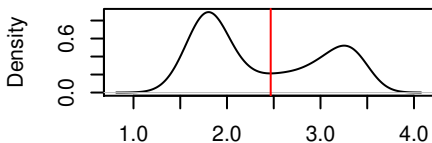
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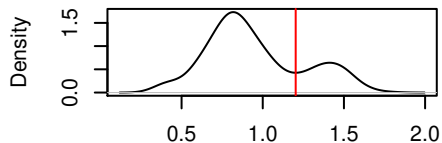
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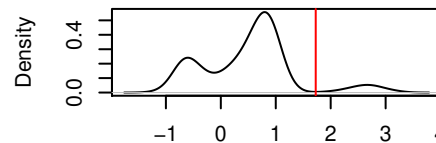
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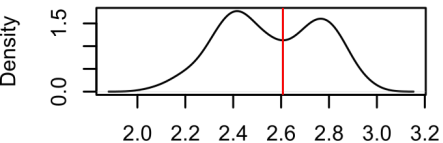
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PA14_22075

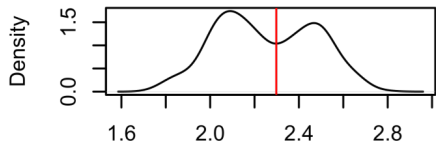
N = 416 Bandwidth = 0.0756

PA14_23450,orfM

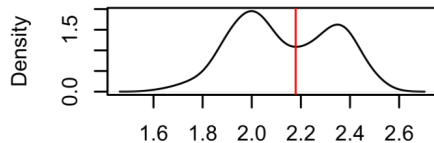
N = 416 Bandwidth = 0.2064

PA14_23970,xcpQ

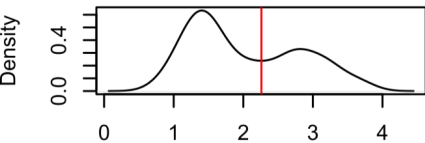
N = 416 Bandwidth = 0.05636

PA14_23980,xcpP

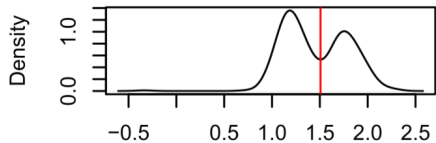
N = 416 Bandwidth = 0.0594

PA14_23990,xcpR

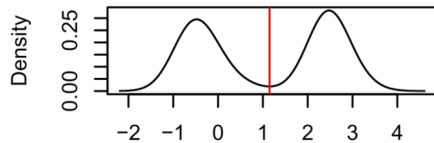
N = 416 Bandwidth = 0.05456

PA14_26020

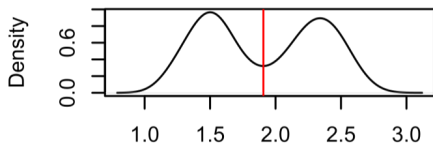
N = 416 Bandwidth = 0.2149

PA14_27440,trpR

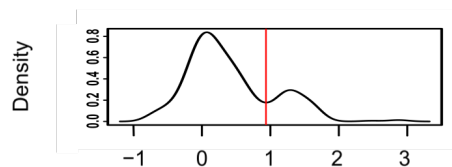
N = 416 Bandwidth = 0.09118

PA14_27990

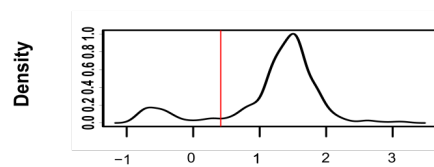
N = 416 Bandwidth = 0.4178

PA14_30570,potF

N = 416 Bandwidth = 0.1197

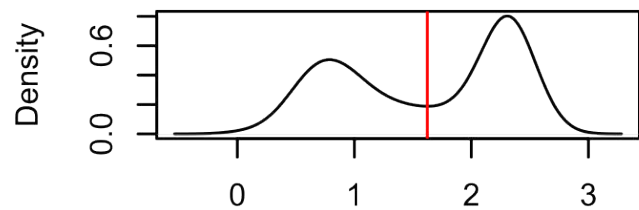
PA14_37810,pcoB

N = 416 Bandwidth = 0.148

PA14_36010

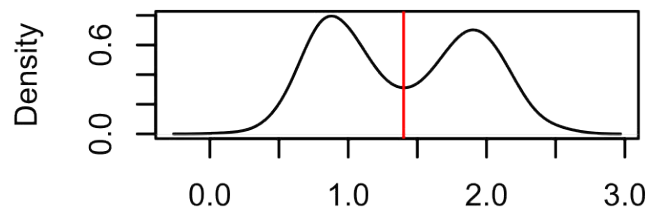
N = 416 Bandwidth = 0.1008

PA14_30580



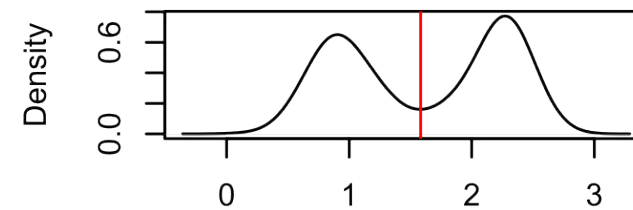
N = 416 Bandwidth = 0.1973

PA14_30620



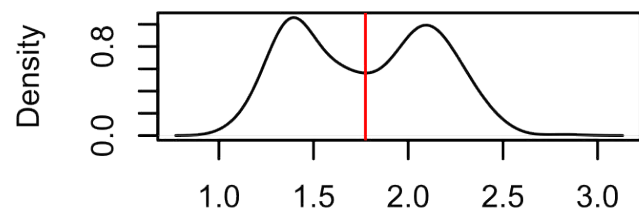
N = 416 Bandwidth = 0.1449

PA14_30630,pqsH



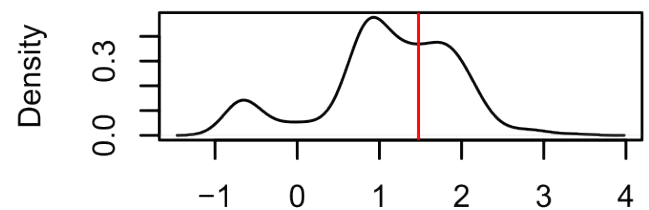
N = 416 Bandwidth = 0.1818

PA14_63170,cueR



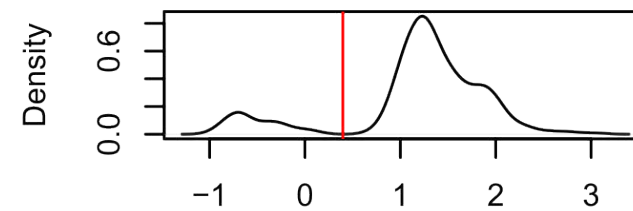
N = 416 Bandwidth = 0.1002

PA14_31350



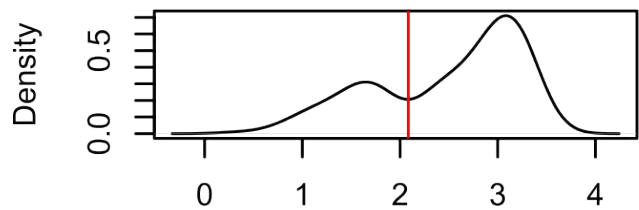
N = 416 Bandwidth = 0.1992

PA14_31370,tam



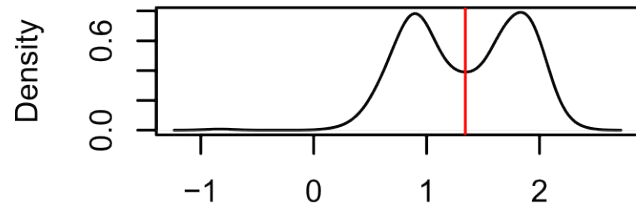
N = 416 Bandwidth = 0.1159

PA14_32790



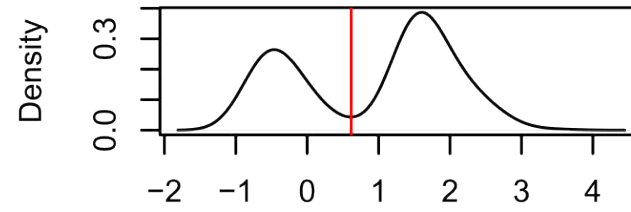
N = 416 Bandwidth = 0.2027

PA14_33290



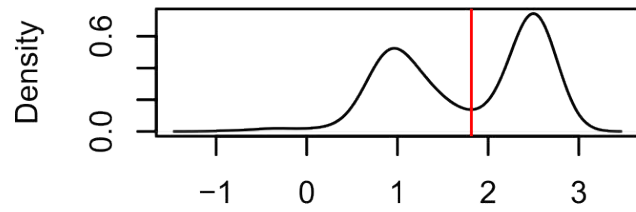
N = 416 Bandwidth = 0.1347

PA14_33680,fpvA



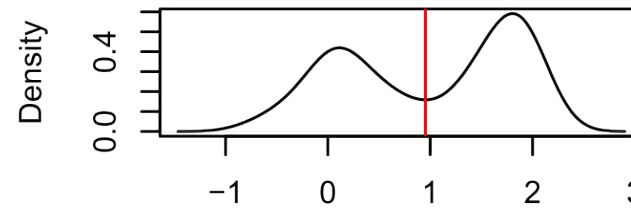
N = 416 Bandwidth = 0.3157

PA14_34810,mxaA



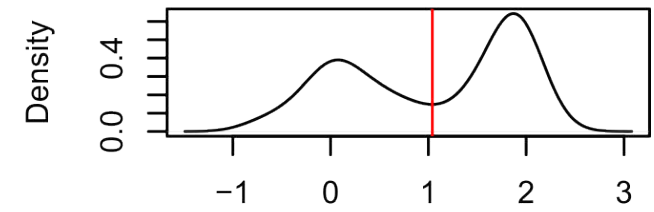
N = 416 Bandwidth = 0.2136

PA14_34820



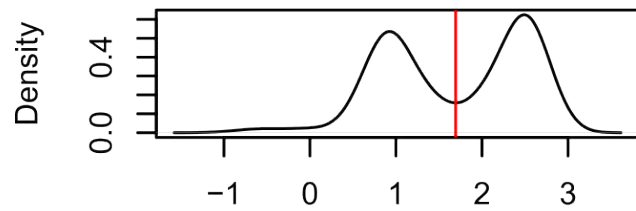
N = 416 Bandwidth = 0.2318

PA14_34830



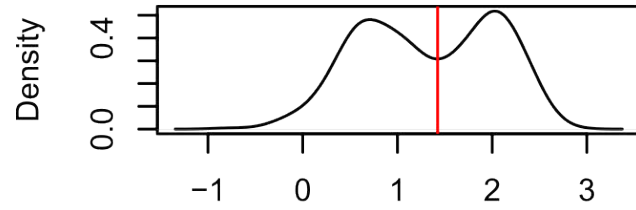
N = 416 Bandwidth = 0.241

PA14_34840



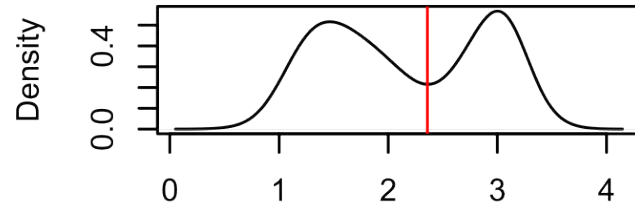
N = 416 Bandwidth = 0.2226

PA14_51350,phnB



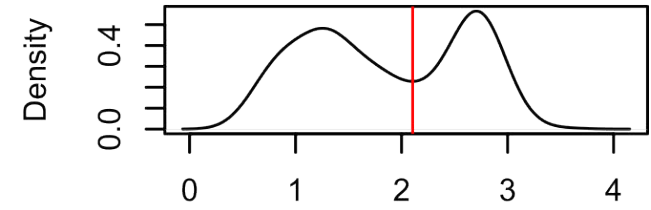
N = 416 Bandwidth = 0.1943

PA14_51360,phnA



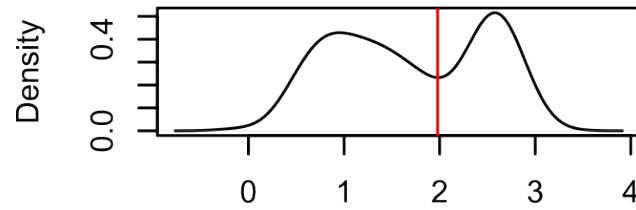
N = 416 Bandwidth = 0.2001

PA14_51380,pqsE



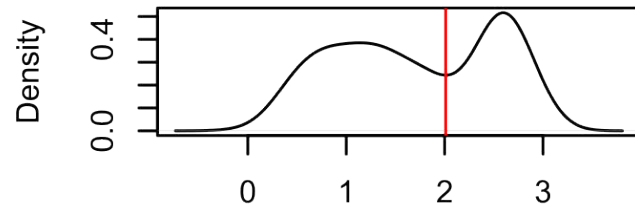
N = 416 Bandwidth = 0.2052

PA14_51390,pqsD



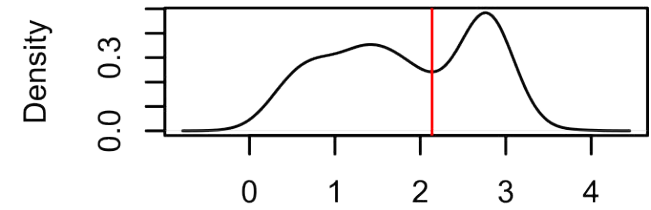
N = 416 Bandwidth = 0.2157

PA14_51410,pqsC



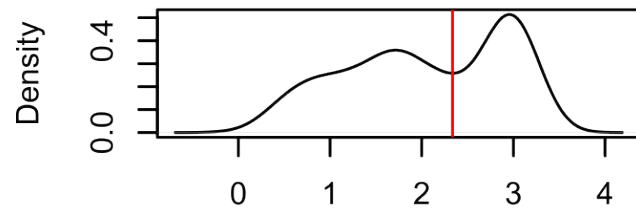
N = 416 Bandwidth = 0.2206

PA14_51420,pqsB

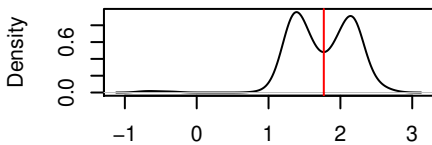


N = 416 Bandwidth = 0.2362

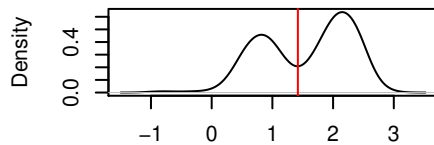
PA14_51430,pqsA



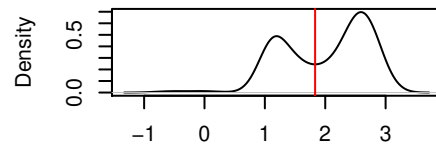
N = 416 Bandwidth = 0.2351

PA14_38380,amrR

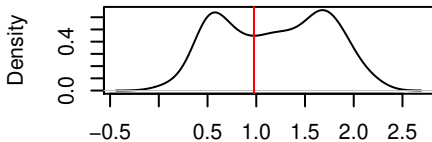
N = 416 Bandwidth = 0.1237

PA14_38395

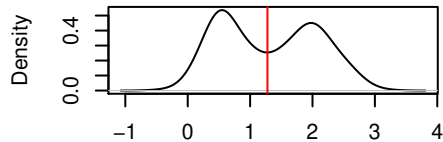
N = 416 Bandwidth = 0.1971

PA14_38410,amrB

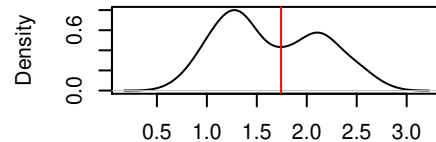
N = 416 Bandwidth = 0.1934

PA14_40030

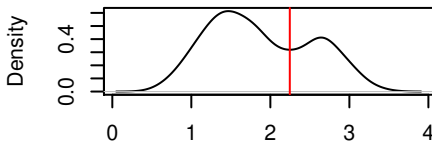
N = 416 Bandwidth = 0.1466

PA14_40290,lasA

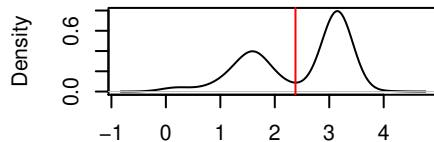
N = 416 Bandwidth = 0.2108

PA14_43000

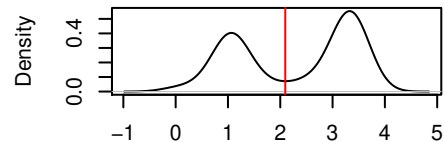
N = 416 Bandwidth = 0.1387

PA14_43040

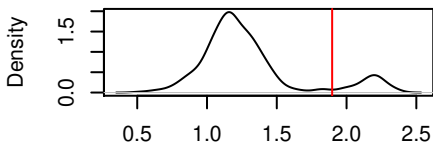
N = 416 Bandwidth = 0.1746

PA14_45940,lasI

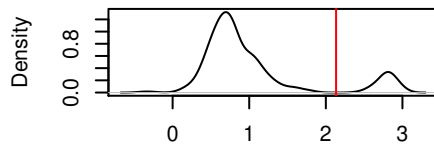
N = 416 Bandwidth = 0.2402

PA14_45950,rsaL

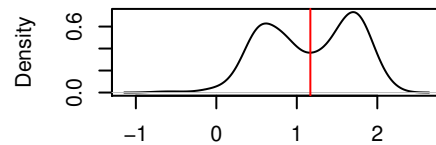
N = 416 Bandwidth = 0.3066

PA14_47610

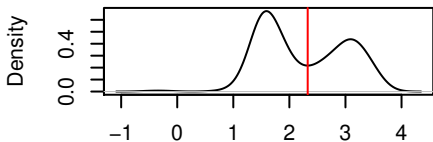
N = 416 Bandwidth = 0.05762

PA14_47640

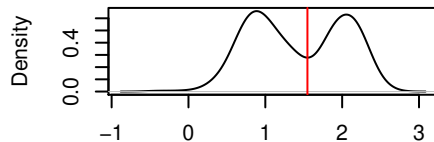
N = 416 Bandwidth = 0.09681

PA14_48040,aprI

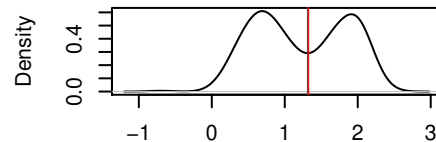
N = 416 Bandwidth = 0.1521

PA14_48060,aprA

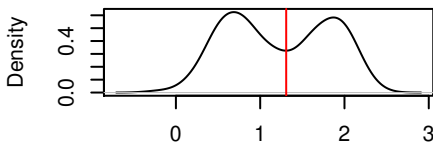
N = 416 Bandwidth = 0.2057

PA14_48090,aprF

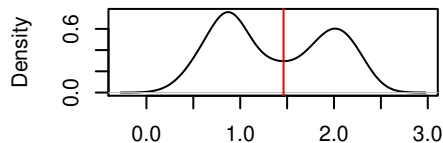
N = 416 Bandwidth = 0.1648

PA14_48100,aprE

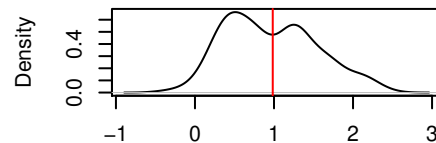
N = 416 Bandwidth = 0.1706

PA14_48115,aprD

N = 416 Bandwidth = 0.1649

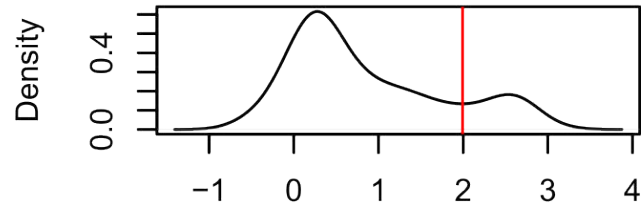
PA14_48140,aprX

N = 416 Bandwidth = 0.159

PA14_48560

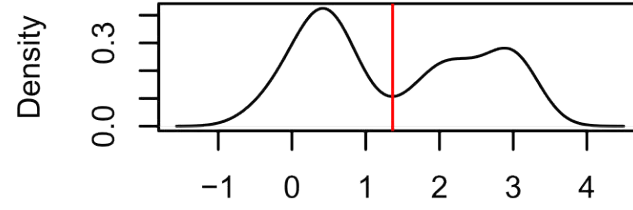
N = 416 Bandwidth = 0.1566

PA14_37745



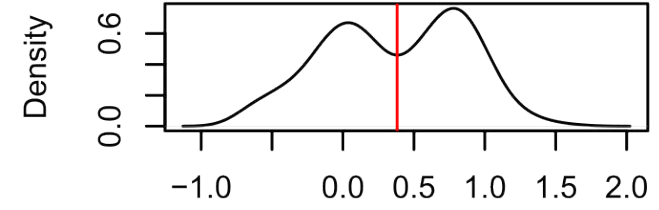
N = 416 Bandwidth = 0.2469

PA14_49520,pyoS3A



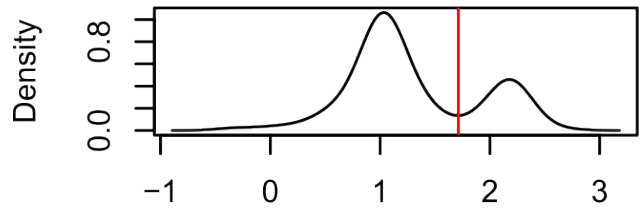
N = 416 Bandwidth = 0.3149

PA14_49530



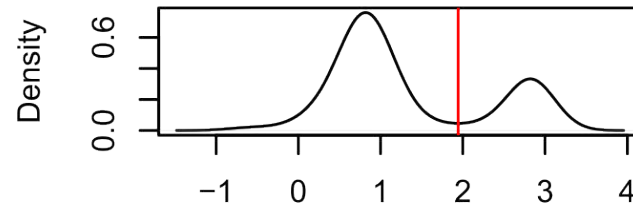
N = 416 Bandwidth = 0.1343

PA14_50240



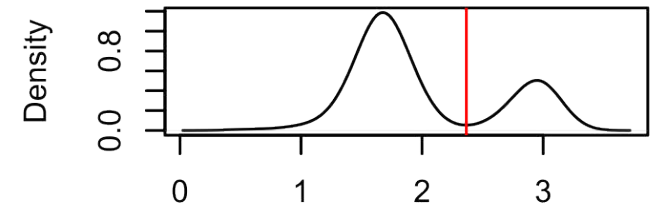
N = 416 Bandwidth = 0.1605

PA14_50250,flhS



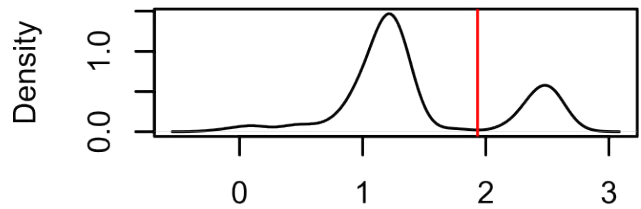
N = 416 Bandwidth = 0.2538

PA14_50270,flhD



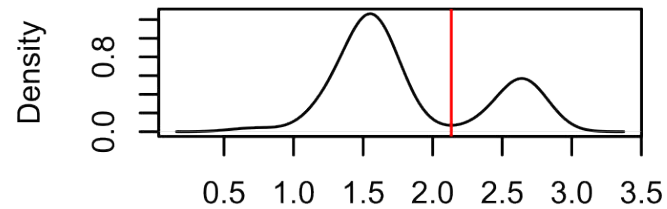
N = 416 Bandwidth = 0.1615

PA14_50280,flaG



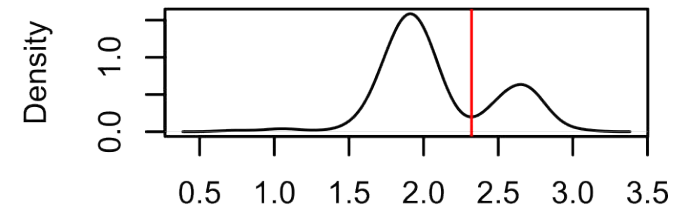
N = 416 Bandwidth = 0.1075

PA14_50300



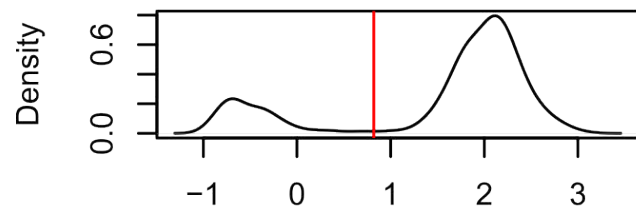
N = 416 Bandwidth = 0.1443

PA14_50340,flgL



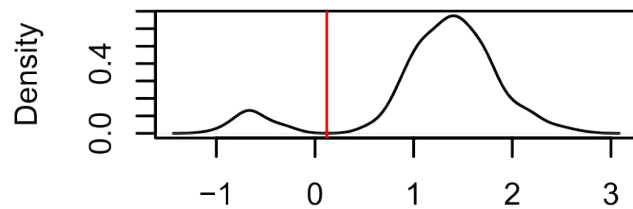
N = 416 Bandwidth = 0.1049

PA14_51600



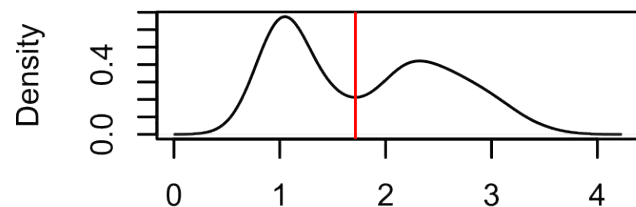
N = 416 Bandwidth = 0.1343

PA14_51610



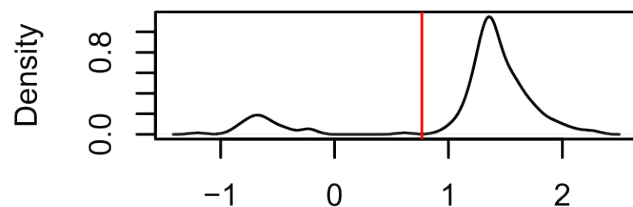
N = 416 Bandwidth = 0.1276

PA14_53250,cpbD



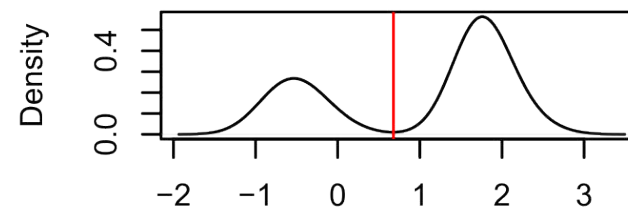
N = 416 Bandwidth = 0.2073

PA14_53650



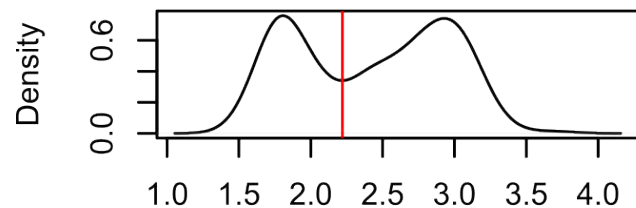
N = 416 Bandwidth = 0.07098

PA14_53660



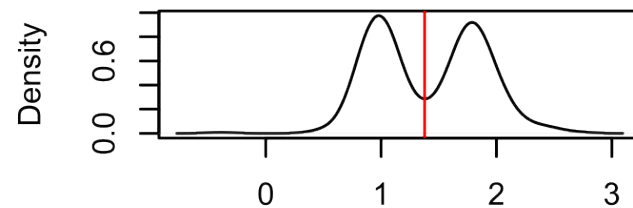
N = 416 Bandwidth = 0.3148

PA14_54170,putA



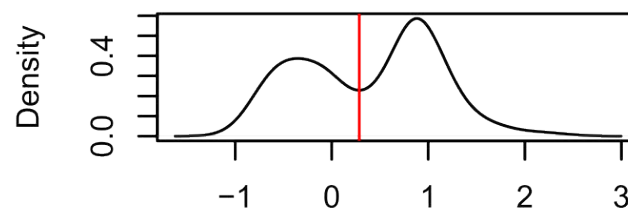
N = 416 Bandwidth = 0.1431

PA14_55400



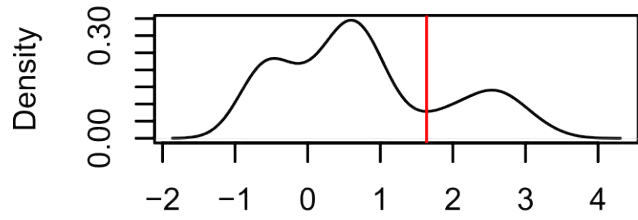
N = 416 Bandwidth = 0.1267

PA14_55410



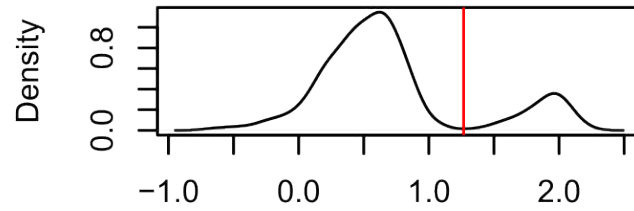
N = 416 Bandwidth = 0.1968

PA14_59220



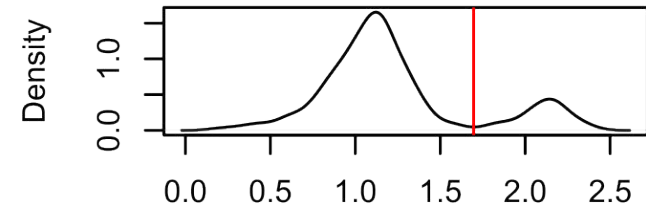
N = 416 Bandwidth = 0.3169

PA14_60280,fimU



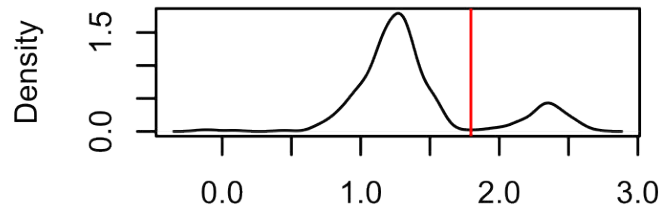
N = 416 Bandwidth = 0.09272

PA14_60290,pilW



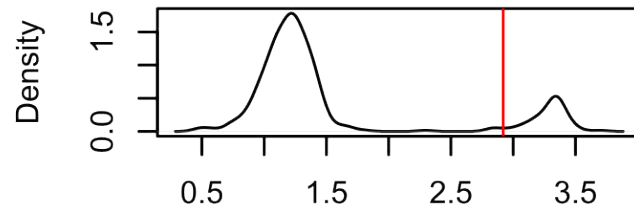
N = 416 Bandwidth = 0.06781

PA14_60300,pilX



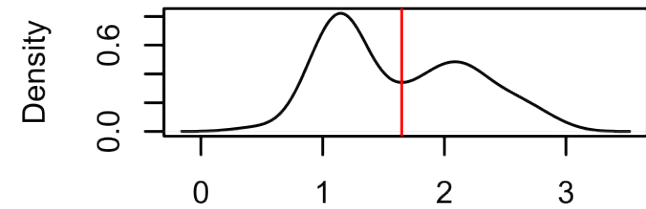
N = 416 Bandwidth = 0.0646

PA14_60310,pilY1



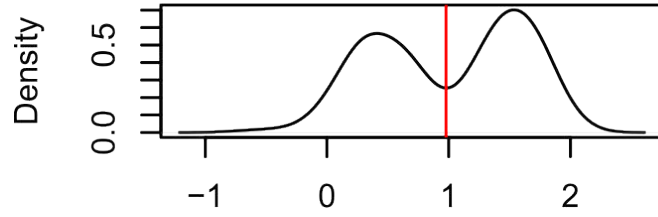
N = 416 Bandwidth = 0.06137

PA14_60750,pra



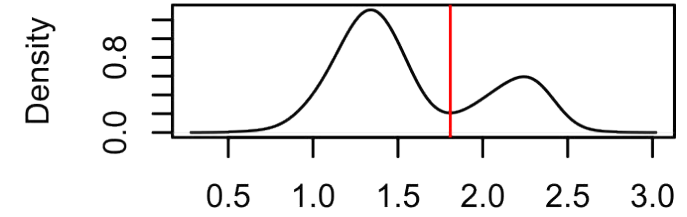
N = 416 Bandwidth = 0.16

PA14_61870



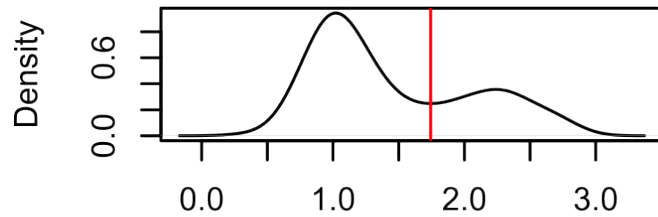
N = 416 Bandwidth = 0.1664

PA14_66100



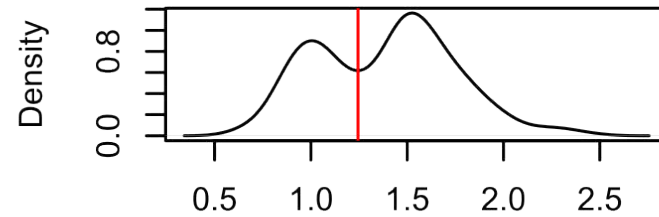
N = 416 Bandwidth = 0.1178

PA14_68940



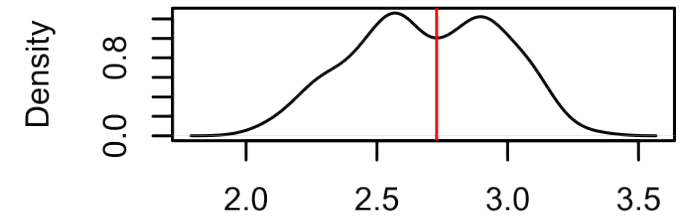
N = 416 Bandwidth = 0.1637

PA14_69170



N = 416 Bandwidth = 0.09738

PA14_69770



N = 416 Bandwidth = 0.0748

Supplementary Table

Supplementary Table 1: Oligonucleotides used in this study

Name	Sequence (5' - 3')	Goal of the primer	Other characteristics
rhIR_PA14_spc2_F	gcgcg GGCTTCGATTACTACGCCTA	Oligonucleotide in the sense orientation for the construction of the <i>rhIR</i> -targeting sgRNA	The nt depicted as bold characters were added to reconstruct the Eco31I protruding ends after plasmid hybridization for cloning in pS448-CsR
rhIR_PA14_spc2_R	aaac TAGGCGTAGTAATCGAAGCC c	Oligonucleotide in the antisense orientation for the construction of the <i>rhIR</i> -targeting sgRNA	The nt depicted as bold characters were added to reconstruct the Eco31I protruding ends after plasmid hybridization for cloning in pS448-CsR
phoB_PA14_spc2_F	gcgcg ACGGCGATCATCTCGCGAAT	Oligonucleotide in the sense orientation for the construction of the <i>phoB</i> -targeting sgRNA	The nt depicted as bold characters were added to reconstruct the Eco31I protruding ends after plasmid hybridization for cloning in pS448-CsR
phoB_PA14_spc2_R	aaac ATTGCGGAGATGATCGCCGT c	Oligonucleotide in the antisense orientation for the construction of the <i>phoB</i> -targeting sgRNA	The nt depicted as bold characters were added to reconstruct the Eco31I protruding ends after plasmid hybridization for cloning in pS448-CsR
rhIR_PA14(+)-Rec	cgggccaattctgctgtgatgcattttatcgatcagg gcttactgca ATGTGA agcgtagggcgcgccg gccggcgcgccctaccagatctggcagggtg	Recombineering oligonucleotide used for the deletion of <i>rhIR</i> in PA14	The start (ATG) and stop codons of <i>rhIR</i> are depicted as bold characters
phoB_PA14(+)-Rec	ttcgttatctaagcggcgcaagacagatcgacc gaggcaagacc ATGTGA ccccgccccggc cgccccggcgccggagtcgtttcccctggacggt	Recombineering oligonucleotide used for the deletion of <i>phoB</i> in PA14	The start (ATG) and stop codons of <i>phoB</i> are depicted as bold characters
rhIR_PA14-Seq-F	CTGTCGGCGTTTCATGGAATTG	Forward primer used for PCR and sequencing of the <i>rhIR</i> deletion	T _m = 58°C
rhIR_PA14-Seq-R	AAGACTTGATGCCGGTAGCGTC	Reverse primer used for PCR and sequencing of the <i>rhIR</i> deletion	T _m = 60°C
phoB_PA14-Seq-F	CGCCAGGTGGATTCTGTTCATCG	Forward primer used for PCR and sequencing of the <i>phoB</i> deletion	T _m = 61°C
phoB_PA14-Seq-R	GCGTTGCAGGTGGTAGATATTG	Reverse primer used for PCR and sequencing of the <i>phoB</i> deletion	T _m = 57°C

aaSSR-1F	TGAGCCAAGTAGCCAGGGTCG	Forward primer used to check the presence of <i>ssr</i> gene by PCR	T _m = 60°C
aaSSR-1R	GATTTGTAGACGTTGGCAGCGCAG	Reverse primer used to check the presence of <i>ssr</i> gene by PCR	T _m = 60°C
aaCas9-1F	AAGCACAAGTGTCTGGACAAGG	Forward primer used to check the presence of <i>S. pyogenes cas9</i> gene by PCR	T _m = 58°C
aaCas9-1R	TCACTCAAACCTCCACGTTTCAGC	Reverse primer used to check the presence of <i>S. pyogenes cas9</i> gene by PCR	T _m = 58°C

Supplementary Data

Supplementary Data 1: Bimodally expressed genes and their affiliation to clusters containing genes with similar expression patterns across clinical isolates. KEGG pathways were assigned using the R package KEGGREST (version 1.26.1).

Supplementary Data 2: Genes that are significantly ($FDR \leq 0.05$) and relevantly ($\log_2FC \geq 1$; $\log_2FC \leq -1$) differentially expressed in clinical *lasR*^{*} compared to *lasR*^{WT} isolates under planktonic growth conditions ($OD_{600} = 2$).

Supplementary Data 3: Genes that are significantly ($FDR \leq 0.05$) and relevantly ($\log_2FC \geq 1$; $\log_2FC \leq -1$) differentially regulated between PA14 Δ /*lasR* compared to PA14 WT under planktonic growth conditions ($OD_{600} = 2$).

Supplementary Data 4: Genes that are significantly ($FDR \leq 0.05$) and relevantly ($\log_2FC \geq 1$; $\log_2FC \leq -1$) differentially regulated between clinical *lasR*^{*} compared to *lasR*^{WT} isolates under biofilm growth conditions (48h growth in LB at 37°C).

Supplementary Data 5: Genes that are significantly ($FDR \leq 0.05$) and relevantly ($\log_2FC \geq 1$; $\log_2FC \leq -1$) differentially regulated between PA14 Δ /*lasR* compared to PA14 WT under biofilm growth conditions (48h growth in LB at 37°C).

Supplementary Data 6: Strain-specific as well as common transcriptional signatures associated with *lasR* deficiency. Genes (PA14 Locus Tags) that are expressed below $\log_2FC = -1$ in the respective number of *lasR*^{*} isolates compared to all *lasR*^{WT} isolates (sheet "lasRmut vs all lasRWT down"). Genes (PA14 Locus Tags) that are expressed above $\log_2FC = 1$ in the respective number of *lasR*^{*} isolates compared to all *lasR*^{WT} isolates (sheet "lasRmut vs all lasRWT up").

Supplementary Data 7: Differential gene expression between biofilm and planktonic growth in clinical isolates harboring a *lasR* wildtype allele or a *lasR* deficiency. Genes that are significantly ($FDR \leq 0.05$) and relevantly ($\log_2FC \geq 1$; $\log_2FC \leq -1$) differentially expressed in clinical *lasR*^{WT} under planktonic growth conditions ($OD_{600} = 2$) compared to *lasR*^{WT} isolates under biofilm growth conditions (48h growth in LB at 37°C) (sheet "lasR WT PL vs BF"). Genes that are significantly ($FDR \leq 0.05$) and relevantly ($\log_2FC \geq 1$; $\log_2FC \leq -1$) differentially expressed in clinical *lasR*^{*} isolates under planktonic growth conditions ($OD_{600} = 2$) compared to *lasR*^{*} isolates under biofilm growth conditions (48h growth in LB at 37°C) (sheet "lasR Mutants PL vs BF").