

**Appendix 4.** (Two files located on CD in back sleeve) Sequence alignments of the data sets used for the phylogenetic analyses in Chapters Four and Five.

Sequence alignment data for two different data sets, presented in two columns. The text is very faint and appears to be a standard sequence alignment format with gaps and symbols.

Legionella nucleotide sequence alignment Chapter 4.txt

TITLE Legionella 16S rRNA and mip sequences used in phylogenetic analysis (Chapter 4)

COMMENT 16S rRNA sequence: sites 1-1406

mip sequences: sites 1407-2159

OTUs excluded from analysis: bozemanii2, bozemanii3, erythra2, geestiana, LLAP3, pneumophila2,

sllyticum

mip hyper-variable region (mip sequence sites 55-132) is combined sequence sites 1462-1539

#adelaidensis

ACATGCAAGTCGAACGGCAGCATGGTCTAGCTTGTAGACTGATGGCGAGTGGCGAACGGGTGAGTAACGCGTAGGAATATACCTTAGAGAGGGGGATAA

#anisa

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#birminghamensis

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#bozemanii

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#bozemanii2

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#bozemanii3

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#cherrii

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#cinncinensis

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#erythra

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#erythra2

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#feelii

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#geestiana

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#hackeliae

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#jamestownensis

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#jordani s  
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#LLAP3  
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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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#birminghamsensis  
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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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Legionella nucleotide sequence alignment Chapter 4.txt

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#cherri i  
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#maceacherni i  
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#oakridgensis  
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#brunensi s  
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#cherri i  
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#cinncinensi s  
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#erythra  
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#grati ana  
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#israelensi s  
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#jamestowniensi s  
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#maceacherni i  
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#oakridgensis  
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#quinivani  
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#shakespearei  
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#tucsonensis  
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#anisa  
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#birminghamsensis  
ATAGTCATGAAGATGAAACTGGTCGCTGCAGCTACCATGGGTCTGGCTATGTCCACCGCAATTGCTGCGTCCGATGTG-----  
#bozemani







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#santiacrucis  
CAACTGAT-----GCTACATCGCTTACTACGGACAAAGATAAATTATCTTATAGTATTGGTGCTGATTTAGGAAAAAACTTTCAAAAA  
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#bozemani  
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#bozemani2



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#steigerwaltii  
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#tucsonensis  
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#wadsworthii  
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#worsleiensis  
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#cburnetti  
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#slyticum  
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#adelaidensis  
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#anisa  
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#birminghamsis  
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#bozemani  
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#bozemani3



Legionella nucleotide sequence alignment Chapter 4.txt

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#oakridgensis
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#rubrilucens
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#sainthelens
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#santicrocis
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#shakespearei
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#spiritensis
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#birminghamensis
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#bozemani
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#bozemani3
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Legionella nucleotide sequence alignment Chapter 4.txt

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#cherri i  
AGTTGAATATACTGGTACTTTAATTGATGGTACTGTATTTGACAGCACTGAAAAAGCAGGTAAACCAGCGACATTCCAAGTATCACAAGTAATACCTGGT  
#cinennatis s  
TGTTGAATATACTGGAACCTTTAATTGACGGTACTGTATTTGATAGCACTGAAAAAGCAGGTAAAGCCAGCTACATTTCAAGTATCGCAAGTAATCCCTGGT  
#dumoffii  
TGTTGAATATACTGGTACTTTAATTGATGGAACTGTATTTGATAGCACTGAGAAAAGCAGGTAAACCTGCTACTTTCCAGGTATCTCAAGTGATTCTGGT  
#erythra  
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#erythra2  
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#fairfieldensis  
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#feelieii  
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#geestiana  
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#gormanii  
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#gratiana  
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#hackeliae  
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#israelensis  
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#LLAP3  
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#londoniensis  
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#maceachernii  
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#micdadei  
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#moravica  
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#nautarum  
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Legionella nucleotide sequence alignment Chapter 4.txt

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#pneumophila  
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#pneumophila2  
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#quatei rensis  
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#santi crucis  
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#shakespearei  
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#spiritalensis  
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#tucsonensis  
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#slyticum  
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#adelaidensis  
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#bozemani3  
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#brunensis

Legionella nucleotide sequence alignment Chapter 4.txt

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#cincoensis  
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#dumoffi i  
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#erythra  
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#erythra2  
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#fairfieldensis  
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#feleia  
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#geestiana  
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#londoniensis  
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#oakridgensis  
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Legionella nucleotide sequence alignment Chapter 4.txt

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#pneumophila2
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#quini vani i
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#shakespearei
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#spiritensis
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#bozemani GTCCAAATGAAACTTTGATTTTCAAATTCATTTGATCTCTGTGAAAAAATCTGCC---
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#cherrii GTCCAAATGAAACTTTAATTTTTCAAATTCATTTGATCTCCGTTAAAAAAGCTGCC---
#cinclatensis GTCCAAATGAAACTTTGATTTTCAAATTCATTTGATTTCTGTAAAAAAGCAGCC---
#dumoffii GTCCAAATGAAACTTTGATTTTCAAATTCATTTGATTTCCGTGAAAAAAGCCTCAGCC
#erythra GCCCAACGAAACCTTGATTTTCAAATCCATTTGATTTCTGTCAAAAAATCT-----
#erythra2 ?????????????????????????????????????????????????????????????????????????????????????????????????????
#fairfieldensis GACCTAACGAAACATTAATCTTTAAAATTCATTTAATTTCTGTCAAAAAATCTGATGCG
#feelieii GACCTAATGAAACATTGATTTTCAAATTCATCTGATTTCTGTCAAGAAATCTGACGCT
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Legionella nucleotide sequence alignment Chapter 4.txt

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#i srael ensi s GTCCAAACGAGACATTAATTTTCAAATTCATTTGATATCTGTTAAGAAAAGACAAGGAC
#j amestowni ensi s ?????????????????????????????????????????????????????????????
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#l ongbeachae GTCCAAATGAAACTTTGATTTTCAAATTCATTTGATTTCTGTAAAAAAGCAGCC---
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#mi cdadei GACCTAATGAAACTTTAATTTTCAAATTCATCTGATTTGAGTGAAGAAATCTGACGCG
#moravi ca GACCAAATGAAACTTTGATCTTTAAAATTCATTTGATTTGAGTGAAGAAATCCGCATCC
#nautarum GACCTAATGAAACCTTAATTTTCAAGATTCATCTGATTTGAGTGAAGAAATCTGATGCC
#oakri dgeni s GACCAAATGAAACGTTGATTTTAAAATTCATTTGATTTGAGTGAAGAAATCTGACGCT
#pari si ensi s GTCCAAATGAAACTTTGATTTTCAAATACATTTGATCTCTGTGAAAAAATCTGCC---
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#rubri l uci s GCCCGAATGAAACCTTGATTTTCAAATTCATTTGATTTCTGTCAAAAAGTCTGACGCG
#sai nthel ensi GTCCAAATGAAACATTGATCTTCAAATTCATTTGATTTGAGTGAAGAAATCCGCAGCC---
#santi cruci s GTCCAAATGAAACTTTGATTTTCAAATTCATTTGATTTCTGTAAAAAAGCAGCC---
#shakespearei GACCAAATGAAACTTTAATTTTCAAATTCATTTGATTTGAGTGAAGAAATCTGAGCT
#spi ri tensi s GACCCAACGAAACACTCATTTTTAAAATTCATTTGATTTCCGTTAAAAAAGCAGGACGCA
#stei gerwal ti i GTCCAAATGAAACTTTGATTTTCAAATTCATTTGATCTCTGTGAAAAAAGCC-----
#tucsonensi s GTCCAAATGAAACTTTGATTTTCAAATTCATTTGATCTCTGTGAAAAAATCTGCC---
#wadsworthi i GTCCAAATGAAACTTTAATATTTAAAATTCATTTGATCTCTGTGAAAAAAGCTTCTGCA
#worsl ei ensi s GACCCAATGAAACTTTGATTTTCAAATTCATTTGATTTCTGTGAAAAAATCTGATGCC
#cburnetti GACCGAATGAAGCTTTAATTTTAAAGTAAATTTAATTTCTGTAAAAAAGAAA-----
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Ani sa-worslei ensi s clade alignment Chapter 5.txt

TITLE Legionella ani sa - worslei ensi s clade mspA and mip sequences used in phylogenetic analysis (Chapter 5)  
COMMENT mspA sequence: sites 1-438  
mip sequence: sites 439-1191  
16S rRNA sequence: sites 1192-2597 (Excluded from analysis)  
mip hyper-variable region (mip sequence sites 55-132) is combined sequence sites 494-571

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#BOZEMANI I -1
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#CHERRI I
AATGCATATTGGGATGGTCAGCAGATGACTTTTTGGTGATGGTGAT---ACCATGATGTATCCTTTAGTCTCTCTTGGCGTTGCTGCTCATGAAATTAGCC
#CINCI NNATI ENSI S
AATGCTTATTGGGATGGAGAGCAAATGACTTTTTGGTTGTGGTGAT---AGGATGATGTATCCTTTGGTTTCTCTCGGCGTTGGCGCTCATGAAATTAGCC
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Ani sa-worslei ensi s clade alignment Chapter 5. txt

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