

# Novel *Bartonella* Agent as Cause of Verruga Peruana

## Technical Appendix

Technical Appendix Table. *rhoB* (top) and *gltA* (bottom) sequence similarities for *Bartonella* species

Taxon	Percentage similarity with taxon																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1) <i>B. alsatica</i>		88.2	90.5	87	86.8	87	88.7	87.9	88.6	88.7	91	91.7	90.3	91.5	87.3	87	90.1	91.9	90	92.8	92.8	92.6	<b>84</b>	73.2
2) <i>B. bacilliformis</i>	84.9		86.8	88.2	88.4	87.7	88	86.8	84.2	84.5	88.2	86.8	87.2	87.7	87	88.2	85.8	87.3	85.8	87.2	85.9	86.5	<b>84.9</b>	71.9
3) <i>B. birtlesii</i>	92.9	85.8		85.9	86.5	85.9	86.5	87.3	86.1	86.6	88.4	89.4	87.7	88.6	85.1	86.6	87.5	89.4	88.9	91	90.3	91.4	<b>83.3</b>	72.5
4) <i>B. bovis</i>	87.8	87.1	90		94.7	94.3	87.3	89.3	84.9	85.6	88.2	86.3	89.3	87.5	87.2	94.9	86.6	86.5	86.1	86.5	86.1	87.2	<b>85.9</b>	73.3
5) <i>B. capreoli</i>	88.1	87.8	88.4	94.8		97.8	87.3	89.3	84.5	85.2	88.6	87	88.4	88	87.3	99.8	86.8	87.2	86.3	86.8	86.5	87.5	<b>85.2</b>	73.2
6) <i>B. chromelii</i>	87.1	85.5	88.1	95.1	97.1		87.5	88.7	84.7	85.1	87.9	87.2	88	87.7	87.2	98	86.6	86.3	86.1	86.8	87	87.3	<b>84.7</b>	73.5
7) <i>B. clarridgeiae</i>	86.2	85.2	87.8	90.7	90.3	89.4		87.2	85.1	85.6	87.5	87.2	87.9	88.4	91.7	87.5	85.1	87.9	86.5	88	87.3	87.5	<b>84.5</b>	71.9
8) <i>B. doshiae</i>	87.1	84.6	89.4	87.8	86.8	87.1	87.8		85.1	87.2	90.3	87	90.7	89.3	86.8	89.1	85.9	88.7	87.5	88	88.4	<b>85.2</b>	73	
9) <i>B. elizabethae</i>	87.8	83.9	89.1	88.4	88.7	89.1	87.8	86.8		93.1	87	86.1	87.9	87	84.4	84.7	88.2	87.3	93.6	87	87.5	86.8	<b>82.4</b>	73.2
10) <i>B. grahamii</i>	89.4	85.8	91	90.7	90.7	91	88.1	88.1	94.8		87.9	86.8	88.2	87.9	84.4	85.4	87.5	87.3	93.6	87.9	87.7	87.7	<b>82.4</b>	74.6
11) <i>B. henselae</i>	89.4	84.2	91	90.7	87.5	88.1	87.1	87.1	86.5	89.1		88.6	95.6	93.3	86.6	88.7	87.2	89.4	88.9	89.3	89.3	90	<b>84</b>	73.7
12) <i>B. japonica</i>	85.2	83	87.1	85.5	85.8	84.9	85.5	83.9	84.6	87.1	87.1		88	88.9	85.4	87.2	89.3	88.9	89.1	91.4	91.2	91.2	<b>84.4</b>	72.3
13) <i>B. koehlerae</i>	89.7	84.9	91	89.4	87.8	88.1	87.8	85.5	87.8	89.1	94.5	86.8		91.5	86.1	88.6	86.8	89.4	88.7	88.4	88.7	89.1	<b>83.8</b>	72.8
14) <i>B. quintana</i>	88.7	83.9	88.7	89.4	88.7	87.5	88.7	85.5	85.8	87.8	92.3	87.5	91.3		87.3	88.2	87	90.8	88.6	91.2	91	91.4	<b>84.5</b>	74.7
15) <i>B. rochalimae</i>	86.2	86.2	88.7	91.9	91.6	90.7	96.1	86.5	88.4	89.4	89.1	85.5	87.8	89.1		87.2	84	85.8	85.8	85.9	85.2	85.6	<b>84.7</b>	72.5
16) <i>B. schoenbuchensis</i>	86.8	85.5	87.8	94.5	97.1	99.3	89.4	86.8	89.1	91	87.5	84.6	87.5	87.5	90.7		87	87.3	86.5	87	86.6	87.7	<b>85.1</b>	73.3
17) <i>B. silvatica</i>	85.8	82	86.5	86.5	87.1	86.8	88.7	85.5	86.2	89.1	85.8	84.2	85.2	87.5	88.4	87.1		88.6	87.7	89.3	88.9	88.9	<b>83.7</b>	72.8
18) <i>B. taylorii</i>	90.7	85.5	91.3	88.7	89.1	88.1	87.1	86.8	87.8	89.7	89.4	87.8	89.4	89.7	88.4	87.8	90.3		88	91.4	90.7	91.7	<b>82.8</b>	73.7
19) <i>B. tribocorum</i>	90.7	86.8	91.9	90	89.1	88.4	88.1	87.1	94.5	95.8	89.4	85.5	89.7	88.1	90	88.4	87.1	90		88.2	88.7	89.3	<b>83.3</b>	72.6
20) <i>B. vinsonii</i> subsp. <i>arupensis</i>	91.9	84.6	91.6	90	89.1	90	88.4	89.1	90.3	91.6	90.3	89.1	90	90.7	89.1	89.7	88.7	92.9	91		94.7	95.2	<b>83.5</b>	73.7
21) <i>B. vinsonii</i> subsp. <i>berkhoffii</i>	92.6	85.2	91.6	89.7	87.8	88.4	88.1	87.5	89.4	90.7	90.7	86.8	89.4	89.4	88.7	88.1	88.7	92.3	91.3	94.8		96.1	<b>82.4</b>	74.4
22) <i>B. vinsonii</i> subsp. <i>vinsonii</i>	92.9	86.5	91.6	89.1	89.1	89.7	88.1	88.4	90.3	91.3	90	87.8	90	89.4	89.4	89.4	89.1	94.5	91.3	95.8	96.1		<b>84</b>	74
<b>23) Candidatus <i>B. ancashi</i></b>	<b>86.5</b>	<b>84.9</b>	<b>88.1</b>	<b>89.4</b>	<b>87.1</b>	<b>86.8</b>	<b>84.6</b>	<b>85.5</b>	<b>84.9</b>	<b>83.9</b>	<b>87.1</b>	<b>81.7</b>	<b>85.8</b>	<b>84.9</b>	<b>85.5</b>	<b>86.5</b>	<b>81</b>	<b>84.9</b>	<b>85.5</b>	<b>85.5</b>	<b>85.2</b>	<b>85.8</b>		73.3
<b>20.00</b>																								
24) <i>Brucella melitensis</i>	69.8	70.1	67.9	69.8	71.7	70.5	69.2	67.3	70.8	69.8	69.2	69.8	68.2	69.5	69.8	70.5	69.5	67.9	69.5	70.5	71.4	68.5	<b>68.2</b>	

\*Similarities are based on a 312-bp fragment of *gltA* and a 589-bp fragment of *rhoB*. **Boldface** indicates similarities of the novel isolate.