# All species cranium partitions difference

Results of the area difference random test for the cranium of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.42 | 7.95 | 0.00 | 0.00 | **0.003** |
| Tip of snout | -0.52 | -8.60 | -0.00 | 0.00 | **0.003** |
| Remainder | 0.10 | 5.69 | -0.00 | 0.00 | **0.003** |

# All species cranium partitions difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.07 | 3.90 | 0.00 | 0.00 | **0.003** |
| Tip of snout | -0.05 | -3.00 | 0.00 | 0.00 | **0.012** |
| Remainder | 0.10 | 6.11 | -0.00 | 0.00 | **0.003** |

# All species cranium partitions overlaps

Results of the overlap probability random test for the cranium of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.95 | -6.00 | 0.98 | 0.00 | **0.003** |
| Tip of snout | 0.95 | -5.96 | 0.98 | 0.00 | **0.003** |
| Remainder | 0.78 | -4.95 | 0.90 | 0.00 | **0.003** |

# All species cranium partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the cranium of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.85 | -1.98 | 0.90 | 0.00 | 0.153 |
| Tip of snout | 0.86 | -1.65 | 0.90 | 0.00 | 0.297 |
| Remainder | 0.69 | -8.41 | 0.91 | 0.00 | **0.003** |

# All species mandible partitions difference

Results of the area difference random test for the mandible of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | -0.02 | -1.38 | 0.00 | 0.00 | 0.51 |
| Symphyseal area | 0.05 | 0.96 | -0.00 | 0.00 | 1.00 |
| Remainder | -0.03 | -0.68 | -0.00 | 0.00 | 1.00 |

# All species mandible partitions difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | -0.02 | -1.48 | 0.00 | 0.00 | 0.43 |
| Symphyseal area | 0.01 | 0.51 | 0.00 | 0.00 | 1.00 |
| Remainder | -0.01 | -0.27 | -0.00 | 0.00 | 1.00 |

# All species mandible partitions overlaps

Results of the overlap probability random test for the mandible of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.83 | -3.31 | 0.92 | 0.00 | **0.024** |
| Symphyseal area | 0.99 | 2.37 | 0.98 | 0.00 | **0.045** |
| Remainder | 0.98 | 0.05 | 0.98 | 0.00 | 1 |

# All species mandible partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the mandible of all species

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.87 | -1.98 | 0.92 | 0.00 | 0.14 |
| Symphyseal area | 0.91 | -0.58 | 0.92 | 0.00 | 1.00 |
| Remainder | 0.92 | -0.00 | 0.92 | 0.00 | 1.00 |

# *Lasiorhinus* cranium partitions difference

Results of the area difference random test for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | -0.02 | -1.38 | 0.00 | 0.00 | 0.51 |
| Tip of snout | 0.05 | 0.96 | -0.00 | 0.00 | 1.00 |
| Remainder | -0.03 | -0.68 | -0.00 | 0.00 | 1.00 |

# *Lasiorhinus* cranium partitions difference rarefied

Results of the area difference random test (rarefied - 47) for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | -0.02 | -1.48 | 0.00 | 0.00 | 0.43 |
| Tip of snout | 0.01 | 0.51 | 0.00 | 0.00 | 1.00 |
| Remainder | -0.01 | -0.27 | -0.00 | 0.00 | 1.00 |

# *Lasiorhinus* cranium partitions overlaps

Results of the overlap probability random test for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.83 | -3.31 | 0.92 | 0.00 | **0.024** |
| Tip of snout | 0.99 | 2.37 | 0.98 | 0.00 | **0.045** |
| Remainder | 0.98 | 0.05 | 0.98 | 0.00 | 1 |

# *Lasiorhinus* cranium partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.87 | -1.98 | 0.92 | 0.00 | 0.14 |
| Tip of snout | 0.91 | -0.58 | 0.92 | 0.00 | 1.00 |
| Remainder | 0.92 | -0.00 | 0.92 | 0.00 | 1.00 |

# *Lasiorhinus* mandible partitions difference

Results of the area difference random test for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | -0.02 | -1.38 | 0.00 | 0.00 | 0.51 |
| Symphyseal area | 0.05 | 0.96 | -0.00 | 0.00 | 1.00 |
| Remainder | -0.03 | -0.68 | -0.00 | 0.00 | 1.00 |

# *Lasiorhinus* mandible partitions difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | -0.02 | -1.48 | 0.00 | 0.00 | 0.43 |
| Symphyseal area | 0.01 | 0.51 | 0.00 | 0.00 | 1.00 |
| Remainder | -0.01 | -0.27 | -0.00 | 0.00 | 1.00 |

# *Lasiorhinus* mandible partitions overlaps

Results of the overlap probability random test for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.83 | -3.31 | 0.92 | 0.00 | **0.024** |
| Symphyseal area | 0.99 | 2.37 | 0.98 | 0.00 | **0.045** |
| Remainder | 0.98 | 0.05 | 0.98 | 0.00 | 1 |

# *Lasiorhinus* mandible partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the mandible of Lasiorhinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.87 | -1.98 | 0.92 | 0.00 | 0.14 |
| Symphyseal area | 0.91 | -0.58 | 0.92 | 0.00 | 1.00 |
| Remainder | 0.92 | -0.00 | 0.92 | 0.00 | 1.00 |

# *Lasiorhinus krefftii* cranium partitions difference

Results of the area difference random test for the cranium of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.09 | 3.45 | 0.00 | 0.00 | **0.006** |
| Tip of snout | -0.13 | -4.26 | -0.00 | 0.00 | **0.003** |
| Remainder | 0.04 | 4.96 | 0.00 | 0.00 | **0.003** |

# *Lasiorhinus krefftii* cranium partitions difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.01 | 1.78 | -0.00 | 0.00 | 0.225 |
| Tip of snout | -0.01 | -1.51 | 0.00 | 0.00 | 0.378 |
| Remainder | 0.05 | 5.11 | -0.00 | 0.00 | **0.003** |

# *Lasiorhinus krefftii* cranium partitions overlaps

Results of the overlap probability random test for the cranium of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.97 | -1.98 | 0.98 | 0.00 | 0.132 |
| Tip of snout | 0.98 | -1.00 | 0.98 | 0.00 | 0.95 |
| Remainder | 0.58 | -13.69 | 0.92 | 0.00 | **0.003** |

# *Lasiorhinus krefftii* cranium partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the cranium of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.89 | -0.94 | 0.92 | 0.00 | 1 |
| Tip of snout | 0.90 | -0.66 | 0.92 | 0.00 | 1 |
| Remainder | 0.52 | -16.20 | 0.92 | 0.00 | **0.003** |

# *Lasiorhinus krefftii* mandible partitions difference

Results of the area difference random test for the mandible of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.03 | 2.37 | 0.00 | 0.00 | 0.057 |
| Symphyseal area | -0.11 | -2.60 | -0.00 | 0.00 | **0.045** |
| Remainder | 0.08 | 2.31 | -0.00 | 0.00 | **0.045** |

# *Lasiorhinus krefftii* mandible partitions difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.03 | 2.62 | -0.00 | 0.00 | **0.015** |
| Symphyseal area | -0.02 | -1.50 | 0.00 | 0.00 | 0.42 |
| Remainder | 0.02 | 1.43 | -0.00 | 0.00 | 0.438 |

# *Lasiorhinus krefftii* mandible partitions overlaps

Results of the overlap probability random test for the mandible of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.79 | -4.96 | 0.92 | 0.00 | **0.003** |
| Symphyseal area | 0.98 | 0.91 | 0.98 | 0.00 | 1 |
| Remainder | 0.99 | 1.40 | 0.98 | 0.00 | 0.438 |

# *Lasiorhinus krefftii* mandible partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the mandible of Lasiorhinus krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.75 | -6.46 | 0.92 | 0.00 | **0.003** |
| Symphyseal area | 0.91 | -0.33 | 0.92 | 0.00 | 1 |
| Remainder | 0.91 | -0.34 | 0.92 | 0.00 | 1 |

# *Lasiorhinus latifrons* cranium partitions difference

Results of the area difference random test for the cranium of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.00 | 0.17 | -0.00 | 0.00 | 1 |
| Tip of snout | -0.14 | -4.95 | 0.00 | 0.00 | **0.003** |
| Remainder | 0.14 | 16.32 | 0.00 | 0.00 | **0.003** |

# *Lasiorhinus latifrons* cranium partitions difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.00 | 0.17 | -0.00 | 0.00 | 1 |
| Tip of snout | -0.01 | -1.59 | -0.00 | 0.00 | 0.333 |
| Remainder | 0.15 | 16.41 | 0.00 | 0.00 | **0.003** |

# *Lasiorhinus latifrons* cranium partitions overlaps

Results of the overlap probability random test for the cranium of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.96 | -1.88 | 0.98 | 0.00 | 0.165 |
| Tip of snout | 0.98 | -0.34 | 0.98 | 0.00 | 1 |
| Remainder | 0.35 | -22.43 | 0.91 | 0.00 | **0.003** |

# *Lasiorhinus latifrons* cranium partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the cranium of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.90 | -0.10 | 0.91 | 0.00 | 1 |
| Tip of snout | 0.91 | -0.14 | 0.91 | 0.00 | 1 |
| Remainder | 0.19 | -28.21 | 0.91 | 0.00 | **0.003** |

# *Lasiorhinus latifrons* mandible partitions difference

Results of the area difference random test for the mandible of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.10 | 10.43 | -0.00 | 0.00 | **0.003** |
| Symphyseal area | -0.22 | -6.75 | -0.00 | 0.00 | **0.003** |
| Remainder | 0.11 | 3.85 | 0.00 | 0.00 | **0.003** |

# *Lasiorhinus latifrons* mandible partitions difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.11 | 11.56 | 0.00 | 0.00 | **0.003** |
| Symphyseal area | -0.04 | -3.43 | -0.00 | 0.00 | **0.006** |
| Remainder | 0.02 | 2.31 | -0.00 | 0.00 | 0.069 |

# *Lasiorhinus latifrons* mandible partitions overlaps

Results of the overlap probability random test for the mandible of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.58 | -13.25 | 0.91 | 0.00 | **0.003** |
| Symphyseal area | 0.93 | -7.31 | 0.98 | 0.00 | **0.003** |
| Remainder | 0.95 | -3.44 | 0.98 | 0.00 | **0.015** |

# *Lasiorhinus latifrons* mandible partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the mandible of Lasiorhinus latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.46 | -17.59 | 0.91 | 0.00 | **0.003** |
| Symphyseal area | 0.85 | -2.78 | 0.92 | 0.00 | **0.018** |
| Remainder | 0.87 | -1.52 | 0.91 | 0.00 | 0.333 |

# *Vombatus ursinus* cranium partitions difference

Results of the area difference random test for the cranium of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.40 | 11.90 | 0.00 | 0.00 | **0.003** |
| Tip of snout | -0.33 | -8.85 | -0.00 | 0.00 | **0.003** |
| Remainder | -0.06 | -5.51 | -0.00 | 0.00 | **0.003** |

# *Vombatus ursinus* cranium partitions difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.07 | 5.88 | -0.00 | 0.00 | **0.003** |
| Tip of snout | -0.03 | -3.08 | -0.00 | 0.00 | **0.006** |
| Remainder | -0.06 | -5.92 | -0.00 | 0.00 | **0.003** |

# *Vombatus ursinus* cranium partitions overlaps

Results of the overlap probability random test for the cranium of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.90 | -16.63 | 0.98 | 0.00 | **0.003** |
| Tip of snout | 0.92 | -15.51 | 0.99 | 0.00 | **0.003** |
| Remainder | 0.72 | -7.59 | 0.92 | 0.00 | **0.003** |

# *Vombatus ursinus* cranium partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the cranium of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Zygomatic Arch | 0.80 | -4.44 | 0.92 | 0.00 | **0.003** |
| Tip of snout | 0.85 | -2.35 | 0.91 | 0.00 | **0.048** |
| Remainder | 0.69 | -8.29 | 0.91 | 0.00 | **0.003** |

# *Vombatus ursinus* mandible partitions difference

Results of the area difference random test for the mandible of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | -0.01 | -0.98 | -0.00 | 0.00 | 0.959 |
| Symphyseal area | -0.15 | -3.68 | 0.00 | 0.00 | **0.003** |
| Remainder | 0.17 | 4.63 | 0.00 | 0.00 | **0.003** |

# *Vombatus ursinus* mandible partitions difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | -0.01 | -1.08 | -0.00 | 0.00 | 0.797 |
| Symphyseal area | -0.03 | -2.03 | 0.00 | 0.00 | 0.132 |
| Remainder | 0.03 | 2.86 | -0.00 | 0.00 | **0.012** |

# *Vombatus ursinus* mandible partitions overlaps

Results of the overlap probability random test for the mandible of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.88 | -1.91 | 0.93 | 0.00 | 0.17 |
| Symphyseal area | 0.98 | -0.56 | 0.98 | 0.00 | 1.00 |
| Remainder | 0.97 | -1.87 | 0.98 | 0.00 | 0.18 |

# *Vombatus ursinus* mandible partitions overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the mandible of Vombatus ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean.Normal.residuals | Random.mean | Random.variance | p value (adjusted) |
| Masticatory insertions | 0.88 | -2.00 | 0.93 | 0.00 | 0.12 |
| Symphyseal area | 0.90 | -1.03 | 0.93 | 0.00 | 0.84 |
| Remainder | 0.91 | -0.62 | 0.93 | 0.00 | 1.00 |

# all differences

“diff” is the difference in landmark length between the ones from the partition and all the other. “overlap” is the probability of overlap between the distribution of the landmark lengths in the partitions and all the other. The p values are adjusted using a Bonferroni-Holm correction. Because of the number of bootstrap pseudo-replicates involved in the test (1000), we lowered our threshold for rejecting H0 to p <= 0.01. Signif. codes: 0 ’\*\*’ 0.001 ’\*’ 0.01 ’.’ 0.05 ’ ’ 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | test | Zygomatic Arch | Tip of snout | Remainder(C) | Masticatory insertions | Symphyseal area | Remainder(M) |
| All species | diff | 0.425 | 0.098 | -0.519 | -0.03 | -0.022 | 0.049 |
|  | p | 0.003\* | 0.003\* | 0.003\* | 1 | 0.509 | 1 |
|  | overlap | 0.95 | 0.78 | 0.95 | 0.98 | 0.83 | 0.99 |
|  | p | 0.003\* | 0.003\* | 0.003\* | 1 | 0.024. | 0.045. |
| *Lasiorhinus* | diff | 0.027 | 0.04 | -0.068 | 0.156 | 0.112 | -0.26 |
|  | p | 1 | 0.003\* | 0.309 | 0.003\* | 0.003\* | 0.003\* |
|  | overlap | 0.97 | 0.87 | 0.98 | 0.97 | 0.59 | 0.94 |
|  | p | 0.003\* | 0.126 | 0.051 | 1 | 0.003\* | 0.003\* |
| *Lasiorhinus krefftii* | diff | 0.092 | 0.043 | -0.133 | 0.081 | 0.029 | -0.112 |
|  | p | 0.006\* | 0.003\* | 0.003\* | 0.045. | 0.057 | 0.045. |
|  | overlap | 0.97 | 0.58 | 0.98 | 0.99 | 0.79 | 0.98 |
|  | p | 0.132 | 0.003\* | 0.95 | 0.438 | 0.003\* | 1 |
| *Lasiorhinus latifrons* | diff | 0.004 | 0.14 | -0.145 | 0.114 | 0.104 | -0.22 |
|  | p | 1 | 0.003\* | 0.003\* | 0.003\* | 0.003\* | 0.003\* |
|  | overlap | 0.97 | 0.35 | 0.98 | 0.95 | 0.58 | 0.93 |
|  | p | 0.165 | 0.003\* | 1 | 0.015. | 0.003\* | 0.003\* |
| *Vombatus usrinus* | diff | 0.395 | -0.06 | -0.333 | 0.165 | -0.012 | -0.148 |
|  | p | 0.003\* | 0.003\* | 0.003\* | 0.003\* | 0.959 | 0.003\* |
|  | overlap | 0.9 | 0.72 | 0.92 | 0.97 | 0.88 | 0.98 |
|  | p | 0.003\* | 0.003\* | 0.003\* | 0.18 | 0.174 | 1 |

# all differences rarefied

Rarefied results. “diff” is the difference in landmark length between the ones from the partition and all the other. “overlap” is the probability of overlap between the distribution of the landmark lengths in the partitions and all the other. The p values are adjusted using a Bonferroni-Holm correction. Because of the number of bootstrap pseudo-replicates involved in the test (1000), we lowered our threshold for rejecting H0 to p <= 0.01. Signif. codes: 0 ’\*\*’ 0.001 ’\*’ 0.01 ’.’ 0.05 ’ ’ 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | test | Zygomatic Arch | Tip of snout | Remainder(C) | Masticatory insertions | Symphyseal area | Remainder(M) |
| All species | diff | 0.071 | 0.105 | -0.052 | -0.005 | -0.023 | 0.008 |
|  | p | 0.003\* | 0.003\* | 0.012. | 1 | 0.426 | 1 |
|  | overlap | 0.85 | 0.69 | 0.86 | 0.92 | 0.87 | 0.91 |
|  | p | 0.153 | 0.003\* | 0.297 | 1 | 0.141 | 1 |
| *Lasiorhinus* | diff | 0.005 | 0.042 | -0.006 | 0.03 | 0.119 | -0.042 |
|  | p | 1 | 0.003\* | 1 | 0.06 | 0.003\* | 0.006\* |
|  | overlap | 0.9 | 0.87 | 0.9 | 0.88 | 0.52 | 0.88 |
|  | p | 0.812 | 0.078 | 1 | 0.384 | 0.003\* | 0.414 |
| *Lasiorhinus krefftii* | diff | 0.015 | 0.046 | -0.013 | 0.017 | 0.031 | -0.018 |
|  | p | 0.225 | 0.003\* | 0.378 | 0.438 | 0.015. | 0.42 |
|  | overlap | 0.89 | 0.52 | 0.9 | 0.91 | 0.75 | 0.91 |
|  | p | 1 | 0.003\* | 1 | 1 | 0.003\* | 1 |
| *Lasiorhinus latifrons* | diff | 0.001 | 0.147 | -0.014 | 0.023 | 0.113 | -0.035 |
|  | p | 1 | 0.003\* | 0.333 | 0.069 | 0.003\* | 0.006\* |
|  | overlap | 0.9 | 0.19 | 0.91 | 0.87 | 0.46 | 0.85 |
|  | p | 1 | 0.003\* | 1 | 0.333 | 0.003\* | 0.018. |
| *Vombatus usrinus* | diff | 0.067 | -0.062 | -0.033 | 0.033 | -0.013 | -0.025 |
|  | p | 0.003\* | 0.003\* | 0.006\* | 0.012. | 0.797 | 0.132 |
|  | overlap | 0.8 | 0.69 | 0.85 | 0.91 | 0.88 | 0.9 |
|  | p | 0.003\* | 0.003\* | 0.048. | 1 | 0.117 | 0.839 |