### Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors

"-" absent / "?" uncertain or no information

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Prothorax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Idlm1</td>
<td>x</td>
<td>?</td>
<td>3</td>
<td>?</td>
<td>l dlm 10</td>
<td>op-t 3</td>
</tr>
<tr>
<td>Idlm2</td>
<td>-</td>
<td>?</td>
<td>?</td>
<td>0 dlm 1</td>
<td>op-t 2</td>
<td></td>
</tr>
<tr>
<td>Idlm3</td>
<td>x</td>
<td>?</td>
<td>2</td>
<td>?</td>
<td>l dlm 11b</td>
<td>cv(d)-t 1, t 14</td>
</tr>
<tr>
<td>Idlm4</td>
<td>x</td>
<td>?</td>
<td>1</td>
<td>?</td>
<td>0 dlm 2</td>
<td>op-t 1</td>
</tr>
<tr>
<td>Idlm5</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l dlm 12</td>
<td>t 12</td>
</tr>
<tr>
<td>Idlm6</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l dlm 12?</td>
<td>t 13</td>
</tr>
<tr>
<td>Idvm1</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>0 lm 7</td>
<td>op-cv 1</td>
</tr>
<tr>
<td>Idvm2</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>0 lm 7</td>
<td>op-cv 2</td>
</tr>
<tr>
<td>Idvm3</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>0 lm 8</td>
<td>op-cv 3</td>
</tr>
<tr>
<td>Idvm4</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>0 lm 5</td>
<td>t-s(cv) 1?</td>
</tr>
<tr>
<td>Idvm5</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>t-cv 1</td>
</tr>
<tr>
<td>Idvm6</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>0 lm 6</td>
<td>t-cv 2</td>
</tr>
<tr>
<td>Idvm7</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>t-cv 3</td>
</tr>
<tr>
<td>Idvm8</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>t-s(cv) 9</td>
</tr>
<tr>
<td>Idvm9</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>op-s 2, p-s 3</td>
</tr>
<tr>
<td>Idvm10</td>
<td>x</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l ism 22</td>
<td>t-s 1</td>
</tr>
<tr>
<td>Idvm11</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l ism 24</td>
<td>t-s 8</td>
</tr>
<tr>
<td>Idvm12</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>t-s 2</td>
</tr>
<tr>
<td>Idvm13</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l dvm 15</td>
<td>t-ti(cx) 2</td>
</tr>
<tr>
<td>Idvm14</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l dvm 16</td>
<td>t-ti(cx) 3</td>
</tr>
<tr>
<td>Idvm15</td>
<td>x</td>
<td>?</td>
<td>13</td>
<td>?</td>
<td>l dvm 17?</td>
<td>t-ti(cx) 1</td>
</tr>
<tr>
<td>Idvm16</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l dvm 19</td>
<td>t-cx 5</td>
</tr>
<tr>
<td>Idvm17</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l dvm 20</td>
<td>t-cx 6, t-cx 7</td>
</tr>
<tr>
<td>Idvm18</td>
<td>x</td>
<td>?</td>
<td>14 &amp; 15</td>
<td>?</td>
<td>l dvm 21</td>
<td>t-cx 7</td>
</tr>
<tr>
<td>Idvm19</td>
<td>-</td>
<td>?</td>
<td>-</td>
<td>?</td>
<td>l dvm 18</td>
<td>t-tr 1</td>
</tr>
</tbody>
</table>
## Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors

"-" absent / "?" uncertain or no information

| Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|
| Itpm1  | -   | ?   | -   | ?   | -   | op-p 2 |
| Itpm2  | -   | ?   | -   | ?   | 0 lm 9 | op-p 1, t-p 3 |
| Itpm3  | x   | ?   | 12  | ?   | l tpm 25 | - |
| Itpm4  | -   | ?   | -   | ?   | l tpm 26 | t-p 14? |
| Itpm5  | -   | ?   | -   | ?   | l tpm 27? | t-p 15? |
| Itpm6  | -   | ?   | -   | ?   | -   | t-p 1, t-p 2 |
|       | Itpm7 | ?   | 4   | ?   | ?   | ? |
|       | Itpm8 | ?   | 5   | ?   | ?   | ? |
|       | Itpm9 | ?   | 7   | ?   | ?   | ? |
|       | Itpm10 | ?   | 9   | ?   | ?   | ? |
|       | Itpm11 | ?   | 10  | ?   | ?   | ? |
| Ispm1  | x   | ?   | -   | ?   | l zm 34 | p-s1 |
| Ispm2  | -   | ?   | -   | ?   | -   | p-s 2 |
| Ispm3  | -   | ?   | -   | ?   | -   | p-s 6 |
| Ispm4  | -   | ?   | -   | ?   | -   | p-s 7 |
| Ispm5  | -   | ?   | -   | ?   | -   | p-s 5 |
| Ispm6  | -   | ?   | -   | ?   | -   | p-s 4 |
| Ispm7  | -   | ?   | -   | ?   | -   | p-s 10 |
| Ipcm1  | -   | ?   | -   | ?   | -   | cv-cx 3 |
| Ipcm2  | -   | ?   | -   | ?   | -   | cv-cx 1, cv-cx 2 |
| Ipcm3  | -   | ?   | -   | ?   | -   | p-ti(cx) 1 |
| Ipcm4  | -   | ?   | -   | ?   | -   | p-cx 4 |
| Ipcm5  | -   | ?   | -   | ?   | l cpm 28 | p-cx 5 |
| Ipcm6  | -   | ?   | -   | ?   | -   | p-cx 6, p-cx 9 |
| Ipcm7  | -   | ?   | -   | ?   | -   | p-cx 7 |
| Ipcm8  | x   | ?   | 18  | ?   | l cpm 29 | p-tr 1, p-tr 2 |
|       | Ipcm9 | ?   | 17  | ?   | ?   | ? |
| Ivlm1  | -   | ?   | -   | ?   | 0 vlm 4 | cv-s 1, cv-s 4? |
| Ivlm2  | -   | ?   | -   | ?   | -   | op-cv(v) 4 |
### Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors

"-" absent / "?" uncertain or no information

| Muscles | | | | | | |
|---------|---|---|---|---|---|
| lvlm3   | x | ? | 11 | ? | 0 vlm 3 s 1, s 2 |
| lvlm4   | - | ? | - | ? | lvlm 14 s 14, s16 |
| lvlm5   | - | ? | - | ? | - s 17 |
| lvlm6   | - | ? | - | ? | - s 15 |
| lvlm7   | x | ? | 41 | ? | lvlm 13 s 13 |
| lvlm8   | - | ? | - | ? | - s 11 |
| lvlm9   | - | ? | - | ? | - s 12 |
| iscm1   | - | ? | - | ? | lbm 30 s-cx 5 |
| iscm2   | x | ? | 16 | ? | lbm 33 s-cx 3 |
| iscm3   | - | ? | - | ? | lbm 32 s-cx 6 |
| iscm4   | - | ? | - | ? | - s-cx 2 |
| iscm5   | - | ? | - | ? | - s-cx 4 |
| iscm6   | x | ? | 19 | ? | lbm 31 s-tr 1 |
| iscm7   | - | ? | - | ? | - s-cx 1, s-cx 7 |

---

**Mesothorax**

| Muscles | | | | | | |
|---------|---|---|---|---|---|
| lldlm1  | x | x | 25 | MT.m | lldlm 35 t 14 |
| lldlm2  | - | - | - | S.LP7m | lldlm 36, lldlm 37 t12, t13 |
| lldlm3  | - | - | - | S.Esm | - t-p 5, t-p 6 |
| lldvm1  | x | x | 23’ | S.CmA | lldvm 40 t-ti 1, t-ti 2 |
| lldvm2  | - | - | - | S.CmA | lldvm 41 t-ti 3 |
| lldvm3  | x | x | 23 | - | - t-cx 5 |
| lldvm4  | x | x | 26 | PSL.Cm, S.CmP | lldvm 43 t-cx 6, t-cx 7 |
| lldvm5  | x | x | 27 | SA.Cm, SA.Fm | lldvm 43 t-cx 8 |
| lldvm6  | x | - | - | S.Trm | lldvm 42 t-s 1 |
| lldvm7  | - | - | - | - | - t-tr 1 |
| lldvm8  | - | - | - | - | ll ism 44 t-s 8, t-s 7 |
| lldvm9  | - | - | - | A.Pm | - t-p 3 |
| lltpm1  | - | - | - | BA.Pm | ll tpm 46a t-p 4, t-p 20 |
Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors

"-" absent / "?" uncertain or no information

| ITpm2 | - | x | - | - | IT pm 47 | t-p 7, t-p 8, t-p 9 |
| ITpm3 | x | - | - | - | Sr A.Pm, Ax.Pml | IT pm 46b ? | t-p 10, t-p 11, t-p 18 |
| ITpm4 | x | x | 28 | - | - | t-p 12 |
| ITpm5 | - | - | - | - | t-p 15 |
| ITpm6 | x | x | 31 | - | IT pm 49 | t-p 13 |
| ITpm7 | x | x | 33 | - | IT pm 48 | - |
| ITpm8 | x | x | 32 | Ax.PmS | - | t-p 14 |
| ITpm9 | x | x | 29/30 | - | - | t-p 16 |
| ITpm10 | x | x | 34 | - | IT ppm 56 | t-p 19 |
| ITpm11 | - | - | - | - | - | t-p 17 |
| ITpm12 | - | - | - | - | ? | p 1 |
| ITpm13 | - | - | - | - | - | ? |
| ITpm1 | - | - | - | - | IT im 65a | p 2 |
| ITpm2 | - | - | - | - | IT pm 54a, b | p 3 |
| ITpm1 | - | - | - | - | IT ppm 55 | p-s 1 |
| ITpm2 | x | - | 35 | - | IT zm 61a | p-s 2 |
| ITpm3 | - | - | - | - | - | p-s 6 |
| ITpm4 | - | - | - | - | - | p-s 7 |
| ITpm5 | - | - | - | - | - | p-s 3 |
| ITpm6 | - | - | - | - | - | p-s 9 |
| ITpm7 | - | - | - | - | - | p-s 5 |
| ITpm8 | - | - | - | - | - | p-tl(cx) 1 |
| ITpm1 | x | x | 21 | - | - | p-tl(cx) 2, p-tl(cx) 3 |
| ITpm2 | x | x | 22 | - | IT cm 51 | p-cx 4, p-cx 6 |
| ITpm3 | - | - | - | - | P.Cm | p-cx 5 |
| ITpm4 | x | x | 36 | BA-Trm | IT cm 52 | p-tr 2 |
| ITpm5 | - | - | - | - | P.Trm | IT cm 50 | p-tr 1 |
| ITpm6 | x | x | 39 | Fm | - | s14, s16 |
| ITpm1 | - | - | - | - | - | s15 |
Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors

| IIvlm2 | - | - | - | iFm | - | s 13 |
| IIvlm3 | - | - | - | - | II vlm 38 | s 11 |
| IIvlm4 | - | - | - | - | - | s 12 |
| IIvlm5 | - | - | - | - | II vlm 39 | p-s 13 |
| IIvlm6 | x | - | 68 | - | - | p-s 10 |
| IIvlm7 | x | x | 41 | F.CmA | - | s-cx 5 |
| IIscm1 | x | - | - | - | II bm 57 | s-cx 3 |
| IIscm2 | x | - | - | - | II bm 60 | s-cx 6 |
| IIscm3 | x | x | 38 | F.CmP | II bm 59 | s-cx 2 |
| IIscm4 | - | - | - | - | II zm 61b | s-cx 4 |
| IIscm5 | - | - | - | - | - | s-tr1 |
| IIscm6 | x | x | 40 | - | II bm 58 | s-cx 1 |
| IIscm7 | x | - | - | - | - | s-cx 7 |

<table>
<thead>
<tr>
<th>Metathorax</th>
</tr>
</thead>
<tbody>
<tr>
<td>IIIIdlm1</td>
</tr>
<tr>
<td>IIIIdlm2</td>
</tr>
<tr>
<td>IIIIdlm3</td>
</tr>
<tr>
<td>IIIIdvm1</td>
</tr>
<tr>
<td>IIIIdvm2</td>
</tr>
<tr>
<td>IIIIdvm3</td>
</tr>
<tr>
<td>IIIIdvm4</td>
</tr>
<tr>
<td>IIIIdvm5</td>
</tr>
<tr>
<td>IIIIdvm6</td>
</tr>
<tr>
<td>IIIIdvm7</td>
</tr>
<tr>
<td>IIIIdvm8</td>
</tr>
<tr>
<td>IIIItpm1</td>
</tr>
<tr>
<td>IIIItpm2</td>
</tr>
<tr>
<td>IIIItpm3</td>
</tr>
</tbody>
</table>
Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors

"-" absent / "?" uncertain or no information

<p>| IIItpm4 | x | x | 50 | SrA.Pm, Ax.Pml | - | t-p 10, t-p 11, t-p 18 |
| IIItpm5 | - | - | - | - | III tpm 49 | t-p 12 |
| IIItpm6 | x | x | 53 | - | III tpm 48 | t-p 15 |
| IIItpm7 | x | x | 55 | - | - | t-p 13 |
| IIItpm8 | x | x | 54 | - | - | - |
| IIItpm9 | x | x | 51/52 | Ax.PmS | III ppm 56 | t-p 14 |
| IIItpm10 | x | x | 56 | - | - | t-p 16 |
| IIItpm11 | - | - | - | - | - | t-p 19 |
| IIItpm12 | - | - | - | - | - | t-p 17 |
| IIItpm13 | - | - | - | - | ? | ? |
| IIIppm1 | - | - | - | - | III im 65a | p 1 |
| IIIppm2 | - | - | - | - | III ppm 54a, b | p 2 |
| IIIspm1 | - | - | - | - | III ppm 55 | p 3 |
| IIIspm2 | x | - | 57 | - | III zm 61 | p-s 1 |
| IIIspm3 | - | - | - | - | - | p-s 7 |
| IIIspm4 | - | - | - | - | - | p-s 9 |
| IIIspm5 | - | - | - | - | - | p-s 5 |
| IIIspm6 | - | - | - | - | ? | ? |
| IIIpcm1 | x | x | 43 | - | - | p-ti(cx) 1 |
| IIIpcm2 | x | x | 44 | - | III cpm 51 | p-ti(cx) 2, p-ti(cx) 3 |
| IIIpcm3 | - | - | - | - | - | p-cx 4, p-cx 6 |
| IIIpcm4 | x | x | 58 | P.Cm | III cpm 52 | p-cx 5 |
| IIIpcm5 | - | - | - | BA.Trm | III cpm 50 | p-tr 2 |
| IIIpcm6 | x | x | 62 | P.Trm | - | p-tr 1 |
| IIIpcm7 | - | - | - | - | - | p-cx 8 |
| IIIvlm1 | - | - | - | Fm | - | s 14, s16 |
| IIIvlm2 | x | x | 65 | - | III vlm 64 | s 20 |
| IIIvlm3 | x | x | 66 | - | - | s 12 |
| IIIscm1 | x | - | - | F.CmA | III bm 57 | s-cx 5 |</p>
<table>
<thead>
<tr>
<th>IIIscm2</th>
<th>x</th>
<th>-</th>
<th>-</th>
<th>-</th>
<th>III bm 60</th>
<th>s-cx 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>IIIscm3</td>
<td>x</td>
<td>x</td>
<td>61</td>
<td>-</td>
<td>III bm 59</td>
<td>s-cx 6</td>
</tr>
<tr>
<td>IIIscm4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>F.CmP</td>
<td>-</td>
<td>s-cx 2</td>
</tr>
<tr>
<td>IIIscm5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>s-cx 4</td>
</tr>
<tr>
<td>IIIscm6</td>
<td>x</td>
<td>x</td>
<td>63</td>
<td>-</td>
<td>III cpm 58</td>
<td>s-tr 1</td>
</tr>
</tbody>
</table>