

SUPPLEMENTARY ONLINE MATERIAL FOR

**Pathological phalanges in a camarasaurid sauropod dinosaur and implications on behaviour**

Emanuel Tschopp, Oliver Wings, Thomas Frauenfelder, and Bruce M. Rothschild

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**Supplementary Online Material**

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STL-files are readable with the freeware Meshlab

**SOM 1:** Untextured (stl-file) and textured (pdf-file) 3D model of the left php I-1 and I-2 with the triangular proximal overgrowth (type 1) attached to the ungual, overlapping the proximal phalanx dorsally.

[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM1.stl](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM1.stl)  
[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM1.pdf](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM1.pdf)

**SOM 2:** Untextured (stl-file) and textured (pdf-file) 3D model of the right phm III-1 with laterally expanded proximal articular surfaces showing type 2 overgrowth. Note that the element mounted as phm III-2 was not found articulated with the proximal phalanx, and was probably mounted erroneously in this position (Tschopp 2008).

[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM2.stl](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM2.stl)  
[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM2.pdf](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM2.pdf)

**SOM 3:** Untextured (stl-file) and textured (pdf-file) 3D model of the of the left phm IV-1 with the distally projecting type 3 overgrowth associated with a fracture extending mediodorsally.

[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM3.stl](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM3.stl)  
[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM3.pdf](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM3.pdf)

**SOM 4:** Untextured (stl-file) and textured (pdf-file) 3D model of the of the left php IV-1 with the knob-like laterodistal overgrowth (type 4). The articulated php IV-2 has been hit and damaged by the excavator (Tschopp 2008).

[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM4.stl](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM4.stl)  
[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM4.pdf](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM4.pdf)

**SOM 5:** Untextured (stl-file) and textured (pdf-file) 3D model of the left php II-1 with the deep pit marking the proximal articular surface.

[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM5.stl](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM5.stl)  
[http://app.pan.pl/SOM/app61-Tschopp\\_etal\\_SOM/SOM5.pdf](http://app.pan.pl/SOM/app61-Tschopp_etal_SOM/SOM5.pdf)