



# our PRIMATE HERITAGE PRIMATE LEGACY

EFP/PSGB INTERNATIONAL CONFERENCE  
8 | 11 Sep 2019 OXFORD

## Abstract submission form

<b>Title</b>	<b>From Extant Morphotypes To Extinct Morphotypes</b>
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<p>Primates' morphotypes are highly heterogeneous in size and shape (inertial properties). They also exhibit various posturo-locomotor capacities. From a biomechanical point of view, morphotypes are likely to reflect performance and, as a result, posturo-locomotor habits. In this context, a better understanding of the interaction between morphotypes and posturo-locomotor repertoires in extant species can help to model the locomotor habits of extinct species as well as their morphotype.</p> <p>For this aim, I have measured non-human primates since many years using a geometric model that estimates inertial properties of body segments. By collaborating with various zoological parks (e.g. Planckendael, Mulhouse, Besançon, Stuttgart), as well as the primatology station of the CNRS in Rousset (France), I have collected an important amount of morphological data on various species (e.g. <i>Cercopithecus lhoesti</i>, <i>Papio anubis</i>, <i>Nomascus gabriellae</i>, <i>Nomascus siki</i>, <i>Pan paniscus</i>). By combining these data with that available in the literature, I am able to investigate the variability of extant morphotypes as well as their relationships with the posturo-locomotor habits in living primates. Based on this knowledge, I will propose in this presentation a phylogenetic meta-analysis in order to reconstruct morphotypes of possible primate ancestors.</p>	
<b>Key words:</b> Body mass distribution, Primates, Hominoids, Evolution	
<b>Type of presentation:</b> Speed presentation <input checked="" type="checkbox"/> Podium presentation <input type="checkbox"/> Poster <input type="checkbox"/>	
<b>Confirm that main author already registered for the EFP-PSGB 2019 meeting via Eventbrite (necessary)</b> Yes	

The deadline for abstract submission is **Friday 10<sup>th</sup> May 2019**

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