

## The collection of the "Cabinet du Roy" (1729-1793), an example of preservation and historical investigations





Bandeau p.13 : Description de la partie du cabinet du Roy qui a rapport à l'Histoire naturelle de l'Homme, de Séve inv. Babel sculto Histoire Naturelle (1749)

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During 18th century, voyages of discovery to exotic parts of the world offered opportunities for museums and collectors to acquire a wide range of natural curiosities.

Attesting to this are the old specimens of the "Cabinet du Roy" (1729- 1793) at the Muséum National d'Histoire Naturelle (MNHN) in Paris.

Through archives research combined to high analytical technologies, it was possible to first re-identify some famous specimens, to observe 18<sup>th</sup> century taxidermy techniques and to better understand degradations of some specimens.



## Re-identification of "Jocko", Buffon's chimpanzee

During his lifetime, Buffon had a chimpanzee called Jocko which passed away in 1740s. The specimen was preserved in the collection of "Cabinet du Roy".

still preserved at the Museur

In 2001, the status of this specimen was doubtful. Regarding to inventory two "Jocko" specimens were present in the collection ! And one of them was de-accesionnated in 1898.

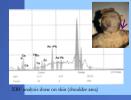


Back to *Histoire Naturelle* to have more informations about the specimen itself:

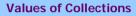
Buffon (G-L) [Leclerc Comte de] & Daubenton (L-J-M) Histoire Naturelle (1749) - t XIV, pp. 130. N° MCCXCI: Jocko's skin This skin was stuffed, we left the extremity of phalanges [...]. The stuffed skin shows a seating Jocko.

The X-ray radiographies of the specimen confirmed the description of Jocko done by Daubenton. We were able to certify

that the specimen preserved at the Museum was Buffon's chimpanzee.



Relating to the tanning XRF analysis shows that arsenic and lead were employed. And combined to X-ray, this gave us some clues to better understand the actual state of preservation of the specimen.



Historically, natural history collections were used by naturalists for the determination of new species based on anatomical and morphological descriptions.

Today ancient and present collections have become very valuable for scientist community for molecular informations (proteins, DNA...)



*hylacinus cynocephalus* « Type de Buffon <mark>»</mark>

The preservation of collections for these new investigations requires an understanding of historical and actual preparation techniques that could be a cause of molecular degradations.

Fluid collections

## Science for the Preservation of Natural History Collection



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Research in preservation involves several aspects: preservation (fluid collections), conservation, health hazards (arsenic, mercury



Investigations are important to understand any deterioration process occuring in these collections and the impact of past treatments.

De-accessionned bird prepared in 1 (MNHN), tanning with asenic . SEM-EDS of arsenical on feather.

The protection of nature and the rapid extinction of species have given increased value to natural history collections for researchers and for society.

Today, there are important issues regarding preservation and conservation of our collected resources in the natural sciences.

Research in preservation of natural history collections is necessary to understand how materials deteriorate and to ensure specimens are available in the future.

