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(I) Synchrotron Radiation as a Tool in Paleontology – Search for Soft Tissue Preservation

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Studies in paleontology have been fast developing with the recent employment of new technologies. Among these new tools, the use of dedicated synchrotron radiation facilities to probe specimens long extinct have added a new layer of contribution to the knowledge of how those animals lived, died and, in some cases, evolved into the diversity of life that we witness nowadays.

In this talk, I will cover the work that I have been developing in searches for soft tissue structure preservation, and how to use this towards valuable contributions to evolutionary studies. I will cover a recent discovery of dinosaur cell layers and how they compare to extant specimens. I will also discuss a few selected on-going projects including exceptionally well-preserved insect amber inclusions and dinosaurs such as T. rex, hadrosaurs and others.

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