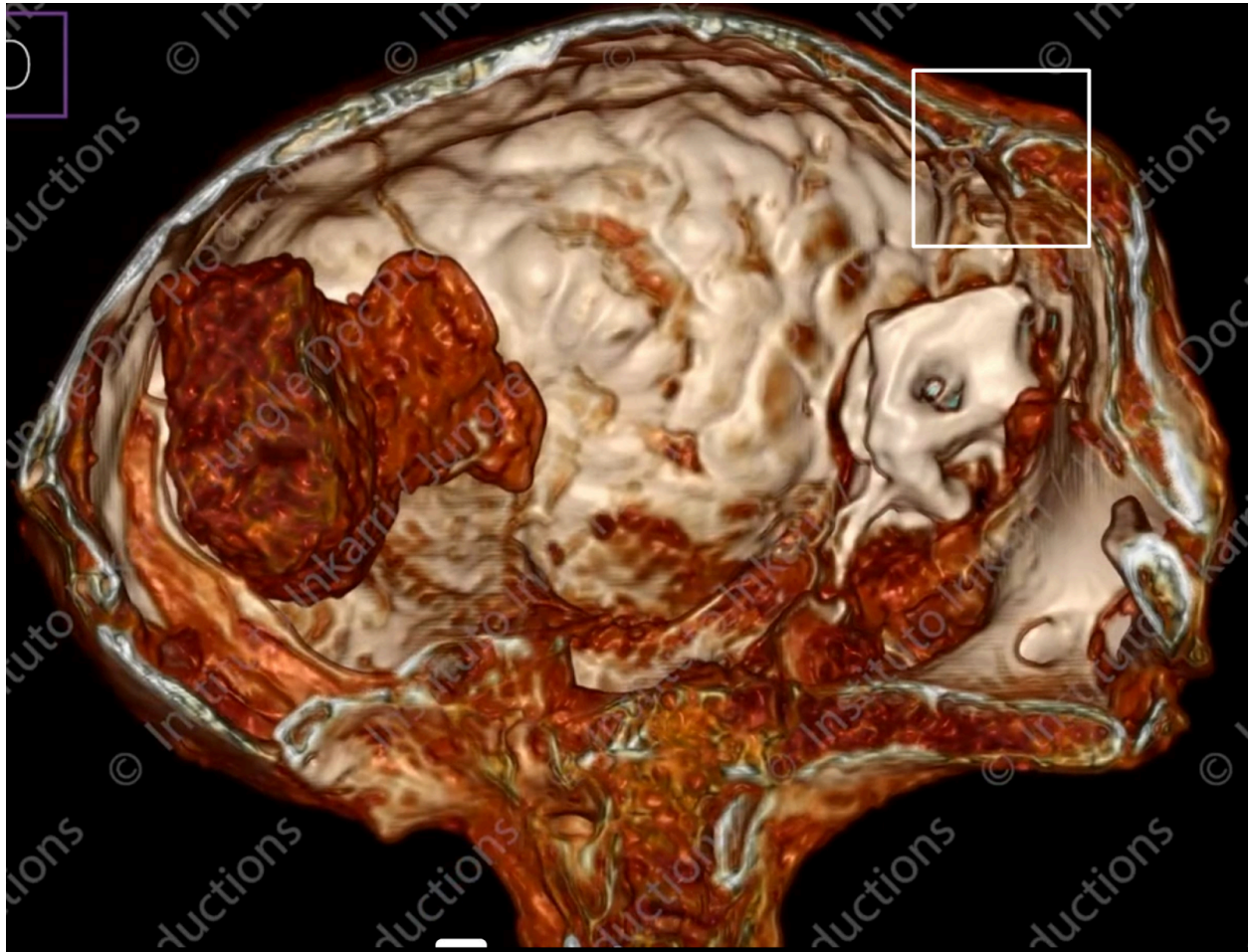


Discovery and Characterization of a Parietal-Pineal Complex with Duophotoreceptors in the Tridactyl Morphotype

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Disclaimer: The author is a former archaeologist and museum educator and not a formal medical researcher. The goal is to educate as many members of the public as possible, not publication. The author apologizes for the cosmological references contained within and asks you to excuse them in lieu of the author's unique background to this study.

Abstract

This paper reports the identification of a previously undocumented parietal-pineal complex in the cranial anatomy of the Tridactyl specimen known as Alberto.

Despite the abundance of forensic and imaging studies, public and academic consensus remains anchored in early dismissals, a pattern suggestive of confirmation bias and narrative inertia despite the majority of forensic scientists signing sworn affidavits of the specimens authenticity.

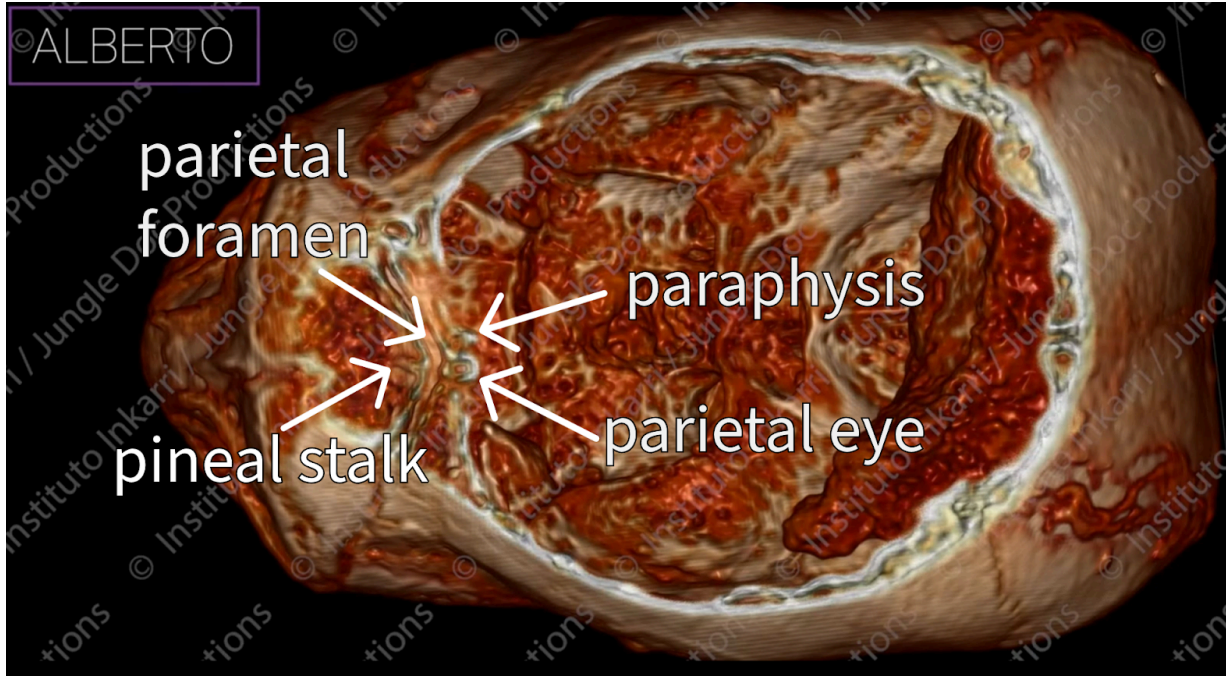
The specimens in question possess a suite of amphibian traits such as tridactyly, cranio-coelelemic brooding, metamorphic lifeways, and cutaneous breathing. As such, a near the surface pineal complex was not a surprise and expected by the author.

The structure proposed comprises two distinct but adjacent photoreceptive elements positioned along the superior midline of the skull.

The complex is proposed as a unique sensory adaptation with potential implications for neuroendocrine evolution and cranial pneumatization in basal tetrapods.

The terminology, functional hypothesis, and evolutionary interpretation of the complex was preceded from the author's earlier acknowledgement of a unique pneumatic cranial structure identified by previous researchers. The name *kappa* was provided to demonstrate the unique morphology and its probable role as the region that would house a pineal complex.

Comparative support for such a configuration is found in the extinct monitor lizard *Saniwa ensidens*, which possessed a pineal and parapineal glandular arranged in tandem along the midline, constituting "the only known jawed vertebrate with four eyes" (Smith et al., 2018).



Introduction

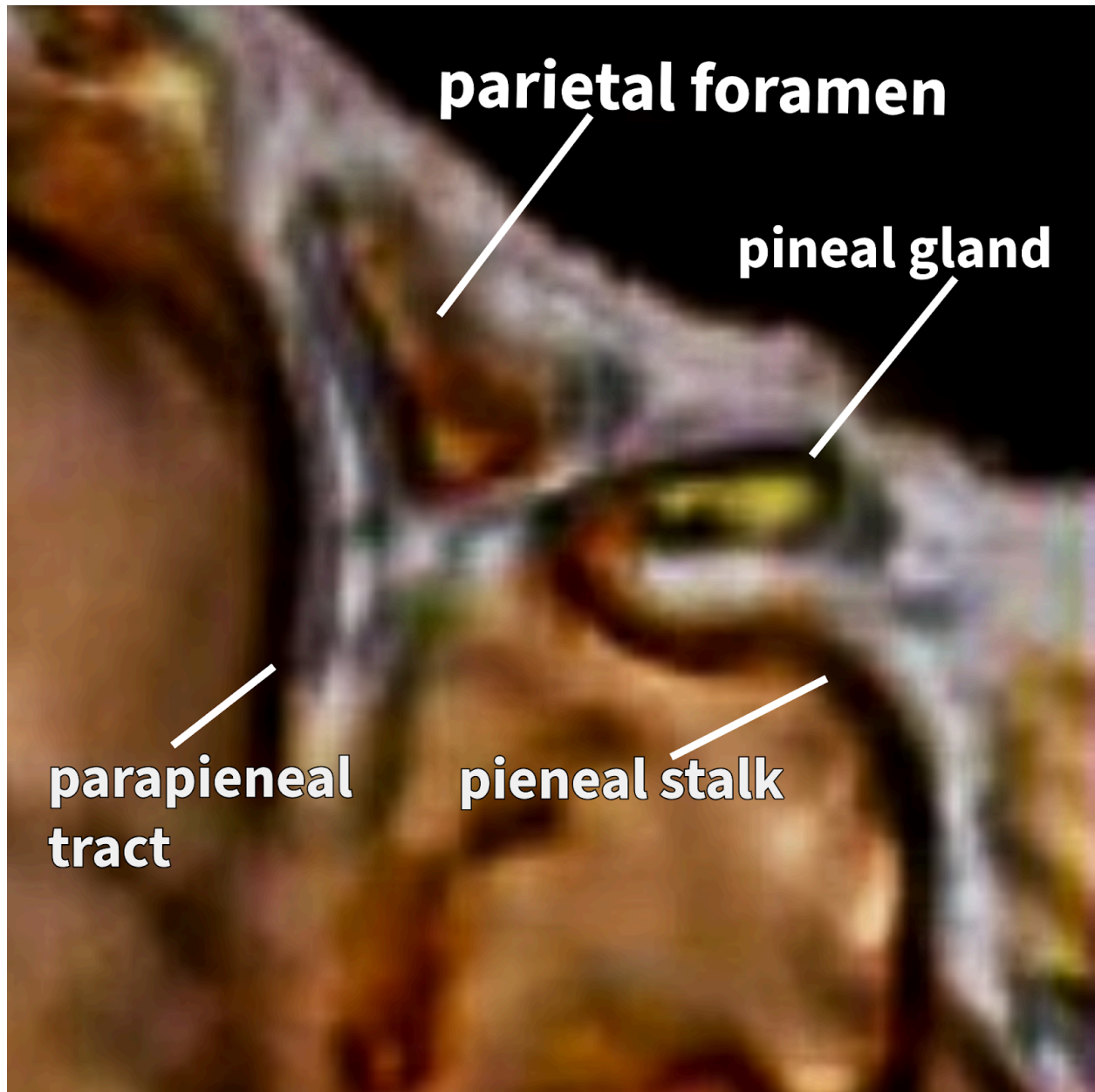
The discovery presented in this paper centers on a novel cranial organ system identified in a Tridactyl specimen recovered from the Nazca region of Peru. Prior to the imaging studies, the author hypothesized the presence of a specialized photoreceptive complex.

This hypothesis was based on comparative anatomical modeling and the known distribution of parietal and pineal organs in extant vertebrates.

The subsequent CT imaging confirmed the presence of bifocal, bilaterally symmetrical stalks in the parietal zone, which is interpreted to be homologous to a parietal-pineal complex.

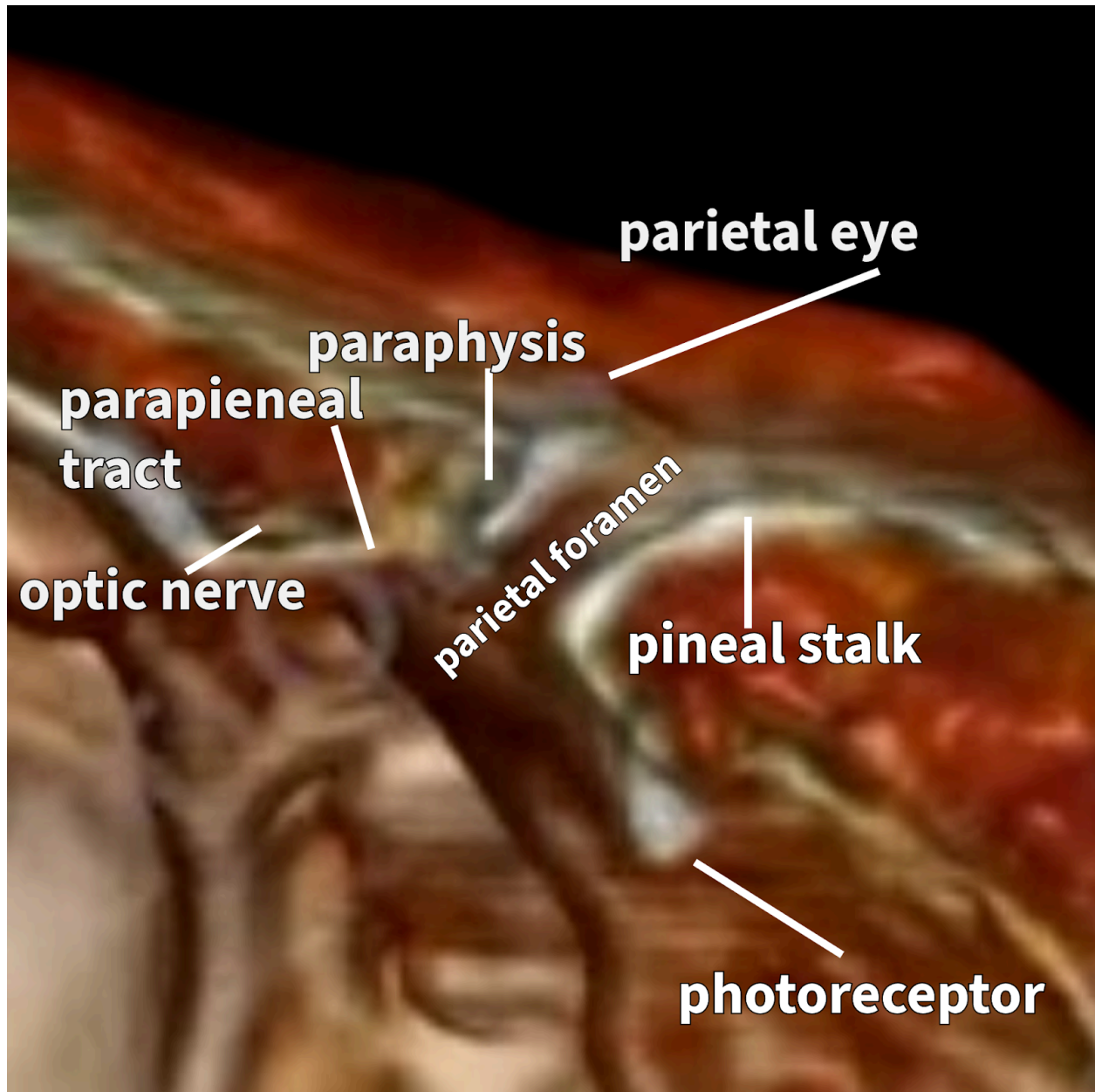
The rare precedent for such a configuration comes from *Saniwa ensidens*, whose fossil parietal bones preserved both a parietal foramen and a separate accessory foramen interpreted as the pineal opening (Smith et al., 2018).

This identification also corroborates the author's broader proposal that the Tridactyls constitute a basal tetrapodclade.



Materials and Methods

High-resolution CT imaging was conducted using a Siemens SOMATOM multidetector system with a 0.5-mm axial slice thickness. Scans were processed using RadiAnt DICOM Viewer and OsiriX MD software to generate three-dimensional reconstructions of the cranial midline. The analysis was carried out in a certified laboratory under the auspices of the Ikari Institute.



Results

The imaging revealed a pair of dome-shaped, low-density areas centered along the midline and embedded in a concave depression connected to tracts or stalks leading to suspected photoreceptors.

These structures possess the bilateral symmetry and spatial orientation characteristic of primitive light-sensing organs. The two structures separated by a parietal foramen follow known extant and extinct morphology in species with parallel glandular structures.

Their morphology is highly consistent with the paired pineal-parapineal complex of *Saniwa*, which showed an “atavistic, lamprey-like four-eyed condition” (Smith et al., 2018).

Morphologically, the images are consistent with a paired photoreceptive system with the presence of a pineal gland and stalk leading to a proposed photoreceptor.

The *Naga tridactyls* exhibit a configuration of a pineal organ positioned anteriorly and a parietal eye posteriorly.

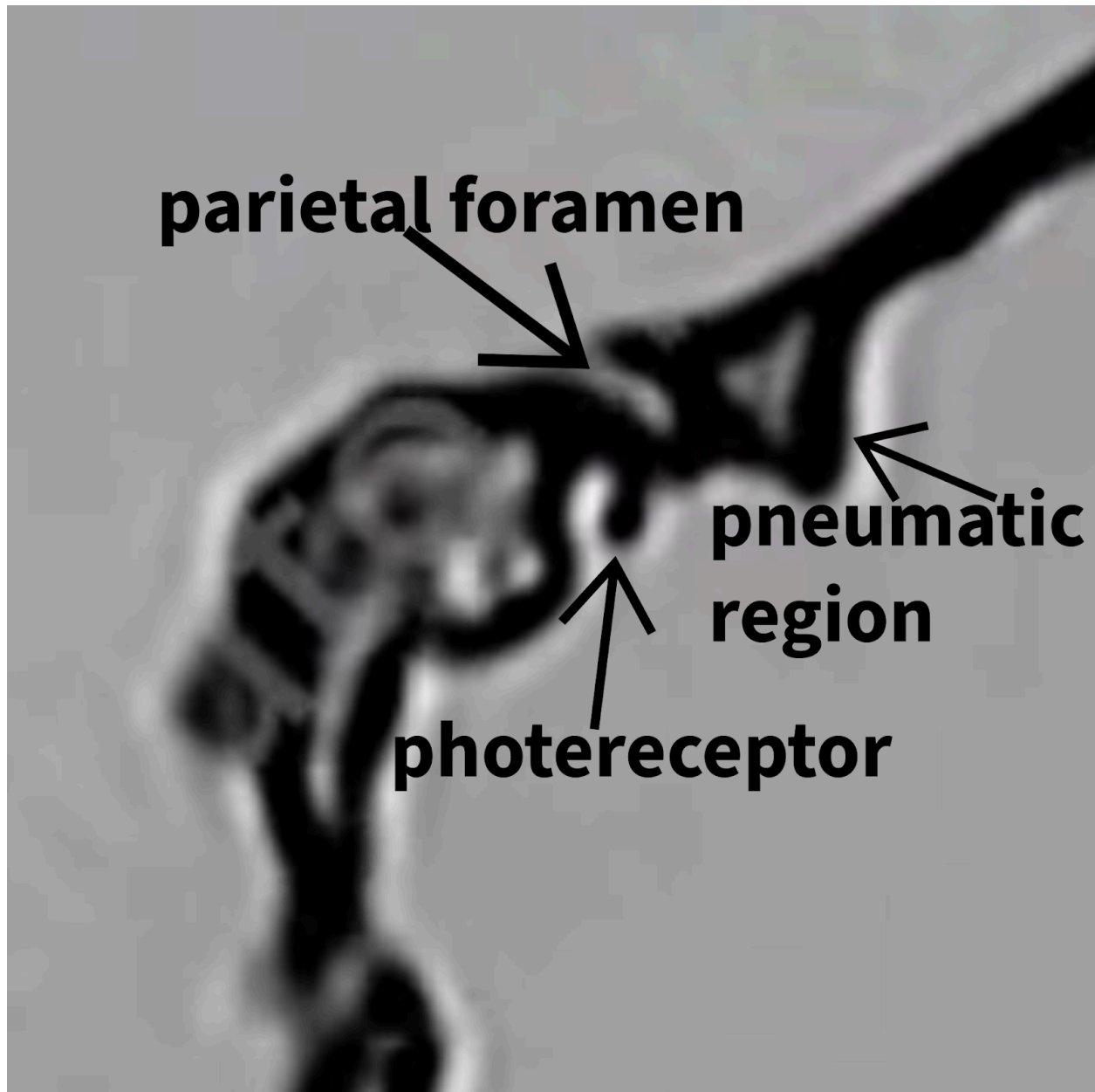
In *Saniwa*, the parietal eye is positioned posterior to the pineal organ, a configuration that Smith et al. (2018) interpret as an atavistic trait reminiscent of early vertebrate arrangements.

Discussion

From an anthropological perspective the glandular complex identified here may also resonate with mythological and cosmological traditions preserved in oral and archaeological records. In particular, the long-standing motifs of the 'Third Eye', a symbol of inner vision and metaphysical perception found across Eurasian traditions.

Among the mytho-historical traditions of the Eastern Plateau and Himalayan fringe, the serpent-linked Nagamani are said to possess a cranial light organ enabling divine or prophetic sight.

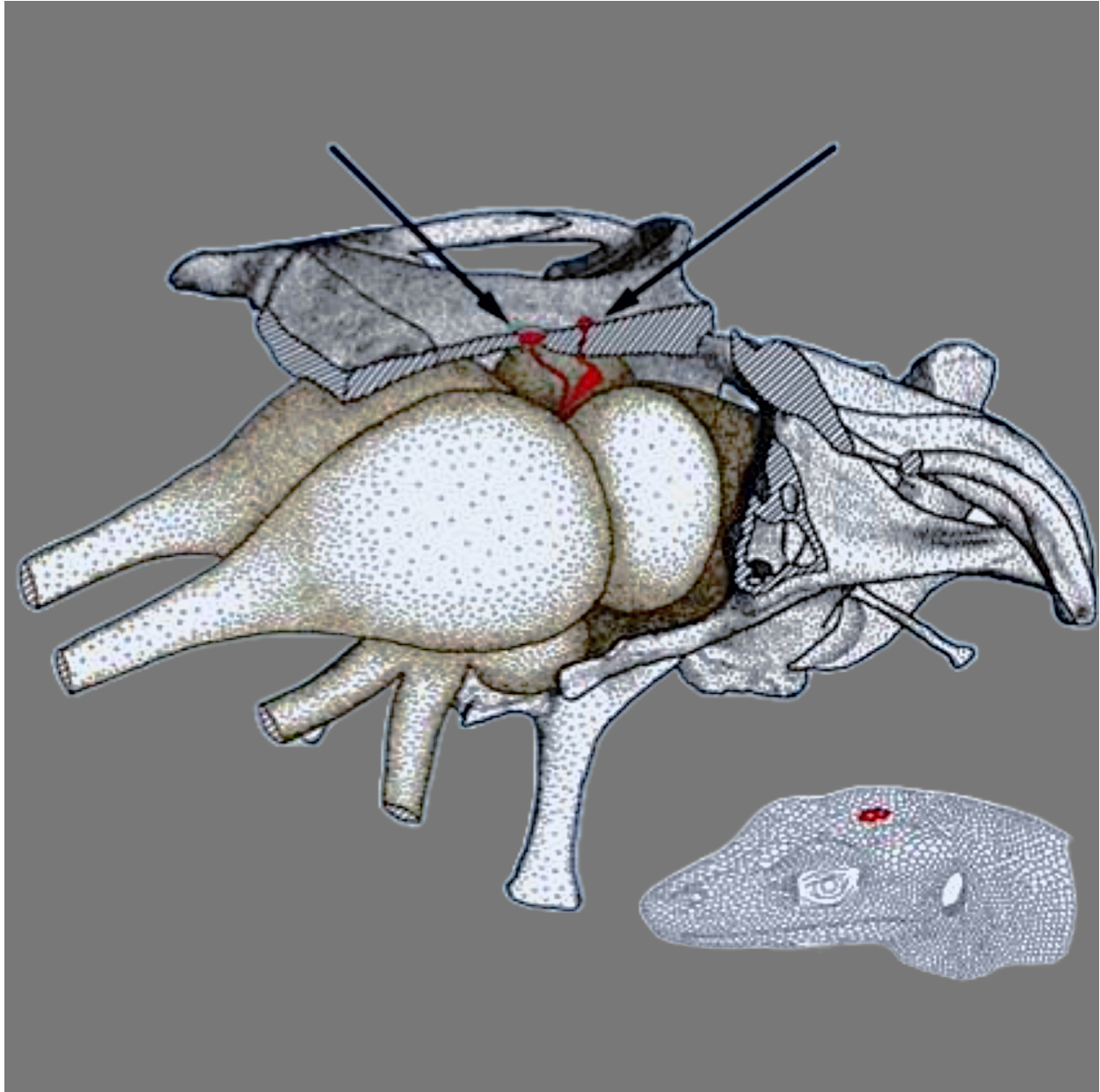
These ancestral narratives and symbolic systems suggest a deep cultural memory of a living thing with a pineal gland analogous to the biological structures found in the Tridactyls.



The presence of a dual photoreceptive structure within a pneumatic cranial cavity suggests a retained or evolved organ system for circadian or extrasensory regulation. Unlike, mammals which have lost externalized pineal-parietal components, the proto-amphibian *Tridactyl* morphotype preserves a midline complex that may indicate a deeper lineage relationship with early tetrapods and jawless fishes.

Saniwa has demonstrated that such dual structures can persist and even re-emerge, as “the pineal organ is the most plausible explanation” for the accessory foramen beyond the parietal eye in that taxon (Smith et al., 2018).

The midline zone likely served a neurovascular and sensory function, linking environmental light input to internal physiological rhythms.



As Smith et al. note, “the extracranial portion shows some cellular differentiation into lens-like and retina-like layers with a lumen in between,”.

A particularly relevant extant analog is the tuatara (*Sphenodon punctatus*), a basal lepidosaur endemic to New Zealand, which retains a well-developed parietal eye, a photoreceptive structure housed in a parietal foramen at the dorsal midline of the skull.

The tuatara's parietal eye possesses a lens, retina, and rudimentary nerve connection to the brain, making it one of the most morphologically complete third-eye systems among living vertebrates (Gabe & Saint Girons, 1965).

In juvenile tuatara, the organ is visible beneath a translucent patch of skin, though it becomes covered with scales and less functional in adults. This extant condition serves as a functional and anatomical precedent for interpreting the Tridactyl's midline cranial complex as photoreceptive, particularly given the similar dorsal positioning, bilateral symmetry, and apparent cavity structure.

The presence of both pineal and parietal photoreceptors in *Saniwa ensidens* and the functional parietal eye in the tuatara reinforce the viability of a dual or tandem median-eye arrangement in diapsid-grade tetrapods.

The Tridactyl system may reflect a more conservative evolutionary trajectory, possibly retaining or reviving a primitive sensory architecture lost in most jawed vertebrates. This suggests either a convergent development, or unique lineage-specific adaptation, or evidence of a Genesis Taxon, akin to the panspermia hypothesis, an ancestral species to life on earth.

The Tridactyls' suite of conserved and primitive traits, e.g., suspected peristaltic circulation, larval metamorphosis, and pneumatic bones—may reflect evolutionary retention or evidence of a transitional species straddling the invertebrate-vertebrate divide.

Proposed Functional Implications

The functional role of the parietal-pineal complex in the *Naga tridactyls* may align with that of ancestral vertebrates like lampreys, where the median photoreceptors contribute to both photoreception and neuroendocrine modulation.

Where Smith et al. (2018) suggest a dual system of photoreception linked to circadian regulation, thermosensation, and possibly magnetoreception. In *Saniwa*, the differentiated anatomical positioning implies discrete physiological roles for each organ, perhaps separating tasks such as environmental light detection from internal homeostatic timing mechanisms.

In the *Naga tridactyls*, the midline placement and associated vascularization of the photoreceptive cavities suggest a nuanced regulatory function. One chamber may have

served as a chronobiological sensor, maintaining circadian or seasonal rhythms, while the second could have aided in thermoregulatory or buoyancy-linked modulation.

Such functions would support life in varied or transitional environments, consistent with the proposed semi-aquatic adaptations of this species. This dual capacity for exteroception and internal regulation may explain the preservation of such a complex in basal tetrapod forms.

The two glands were likely connected to the forebrain via anatomical structures analogous to the pineal stalk and habenular commissure, known pathways in extant reptiles and early vertebrates that mediate neuroendocrine signaling, photoreception, and behavioral modulation.

Conclusion

This study, initiated by the author, establishes the existence of a parietal-pineal complex in the Tridactyl specimen Alberto and introduces the framework for further comparative and developmental studies.

Elements of the complex include a parietal eye and parapineal tract accompanied by a paraphysis and habenula, a pineal gland and pineal stalk leading to a photoreceptor.

The identification of the parietal-pineal complex is an original contribution by the author and further supports evidence of an unique, authentic once-living species, deserving of greater study, and thorough consideration as to its placement in the taxonomic record.

The work of Smith et al. (2018) on *Saniwa ensidens* provides critical comparative validation of the possibility and plausibility of such a complex structure. Their demonstration of a “tandem midline arrangement” of pineal and parapineal eyes underscores the phylogenetic viability of the midline sensory complex in Tridactyls.

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