Statocysts and statoliths of Scyphozoa

Scyphozoans have complex sense organs (rhopalia) responsible for photoreception, equilibrium reception and sensory responses to other stimuli such as touch, chemicals and temperature. The rhopalia are located at the marginal rim of the bell; each rhopalium consists of a proximal basis and a distal statocyst. The statocyst serves together with sensory cilia as equilibrium sense of the medusa. The statocyst contains several up to thousands crystals (statoliths) consisting of calcium sulfate subhydrate (basanite). The crystals have a trigonal shape (habit) and their crystal faces are indexed as \{3 0 2\} (headfaces) and \{1 0 0\} (sidefaces).

References
Sötje I, Dishon T, Hoffmann F, Holst S (accepted) New methods of morphometric analyses on scyphozoan jellyfish statoliths including the first evidence for statolith growth using calcein as a fluorescent marker. Microscopy & Microanalysis

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