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Über die Entstehung der Eugsterachen Zwitterbienen Summary

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"Über die Entstehung der Eugsterschen Zwitterbienen"

Roux' Archiv f. Entwicklungsmech. 41;pp. 264-311; 2 text fig., 2 plates

Primarily a cytological study. Morphological observations ancillary.

The author presents a very detailed and heavily-documented study of the problem of the origin of vonSiebold's Eugster gynandromorph bees. He makes a very detailed study of the distribution of racial characters in these bees, reviews known data regarding normal process of fertilization in the bee egg, and draws upon contemporary knowledge of polyspermy, fertilization, and early embryology and concludes that the observable conditions in these bees can best be explained on the basis of delayed fertilization (i.e. union of a sperm nucleus with a daughter nucleus of an egg nucleus that had begun to divide parthenogenetically- whereby the "male" parts of the mosaic would be of purely parthenogenetic (maternal) origin, and the "female" areas hybrid. He finds that the observations and data available do not favor Morgan's dispermy theory whereby the male areas would be derived from sperm nuclei (paternal).

J.M.

Handwritten notes:
Roux' Archiv
f. Entwicklungsmech.
41, pp. 264-311
2 text fig., 2 plates

