**Title:** The hatching mechanism of root-knot nematode.

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**Brief description:** The hatching mechanism of root-knot nematode includes several steps: (1) Complete the development from embryo to second-stage juvenile (J2), (2) Secretion of enzymes, such as lipase, by the unhatched J2, (3) Cell wall structure change, (4) Enhanced movement of the unhatched J2 due to the increment of water content in the egg, as a result of changes in eggshell permeability, (5) J2 use stylet to puncture the eggshell to create a hole, (6) J2 swim out of the flexible eggshell. Environmental factors, such as moisture, temperature, host root exudates, and microorganisms, are known to affect hatching. However, how these factors regulate the egg-hatching mechanism is not fully understood. Since egg hatching is key to root-knot nematode disease management in the field, it is critical to understand the hatching mechanism. I aim to emphasize this important topic in a simple manner through this painting!