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gestion of particles by the infusorians. The matter taken up thus from the funnel by the first cell is carried by the rest and so on till the cells having a lumen are reached. The presence of the excretum causes the granules to stimulate the muscular fibres of the cells, peristalsis results and the substance is carried outwards. The character of this contractile reticulum offers an explanation of the structure of a cilium as being the continuation of a contractile reticular thread. — N. R. Harrington in »Observations on the lime gland of the Earthworm« described the minute structure of these glands in *L. terrestris*, and showed that the lime is taken up from the blood by wandering connective tissue cells which form club shaped projections on the lamellae of the gland, and which pass off when filled with lime. The new cell comes up from the base of the older cell and repeats the process. This explanation is in harmony with the fact that in all other invertebrates lime is laid down by connective tissue cells. Histological structure and the developmental history confirm it. — Dr. Bashford Dean, offered some observations on »Instinct in some of the lower Vertebrates.« The young of *Amia calva*, the dogfish of the Western States, attach themselves, when newly hatched to the water plants at the bottom of the nest which the male *Amia* has built. They remain thus attached until the yolk sac is absorbed. As soon as they are fitted to get food they flock together in a dense cluster following the male. When hatched in an aquarium they go through the same processes. The young fry take food particles only when the particles are in motion, never when they are still. The larvae of *Necturus* also take food particles that are in motion. C. L. Bristol, Secretary.

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Jahresversammlung in Bonn vom 28.—30. Mai.

Vorträge haben ferner angemeldet die Herren

Prof. F. Blochmann (Rostock): Die Epithelfrage bei Cestoden und Trematoden (mit Dem.).

Prof. O. Bütschli (Heidelberg): Über den Bau der quellbaren Körper und die Quellung.

Dr. F. Schaudinn (Berlin): Über das Centralkorn der Heliozoen, ein Beitrag zur Centrosomenfrage.

Dr. P. Samassa (Heidelberg): Über die äußeren Entwicklungsbedingungen der Eier von *Rana temporaria*.

Dr. R. v. Erlanger (Heidelberg): Über die Befruchtung und ersten Theilungen des Eies von *Ascaris megalocephala*, nebst allgemeinen Betrachtungen über den Bau des Protoplasmas, der Spindel und des Centrosomas (mit Dem.).

Prof. V. Häcker (Freiburg i. Br.): Einige Berührungspuncte der Entwicklungsmechanik und Zellenlehre.

Demonstrationen haben angemeldet die Herren

Dr. Samassa (Heidelberg): Über die Keimblätterbildung bei Wirbelthieren.

Dr. F. Schaudinn (Berlin): Copulationsstadien von *Actinophrys sol* Ehrbg.

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