

---

---

# Association Affairs

---

---

## Hotel Headquarters, Boston

*General Headquarters:* The Statler Hotel will serve as the general headquarters of the Association, housing the meetings of the Council and Executive Committee.

Headquarters of the sections of the Association and of the societies meeting with the Association follow:

*Statler Hotel:* Section on Medical Sciences (N), Subsections on Dentistry (Nd) and Pharmacy (Np); Academy Conference, American Microscopical Society, American Society of Naturalists, American Society of Parasitologists, American Society of Zoologists, Genetics Society of America, Ecological Society of America, Limnological Society of America, National Association of Science Writers, Sigma Delta Epsilon, Society for the Study of Evolution, Society of the Sigma Xi.

*Bradford Hotel:* Sections on Anthropology (H), Psychology (I), and Education (Q); American Nature Study Society, National Association of Biology Teachers, National Science Teachers Association, Pi Lambda Theta.

*Commander Hotel:* Sections on Astronomy (D) and Geology and Geography (E); American Astronomical Society, American Meteorological Society. Meetings

of these sections and societies will be held at Harvard University.

*Copley Plaza Hotel:* Sections on Agriculture (O) and Botanical Sciences (G); American Fern Society, American Society for Horticultural Science, American Society of Plant Physiologists, American Society of Plant Taxonomists, Botanical Society of America, Mycological Society of America, Phi Sigma Biological Society, Potato Association of America, Sullivant Moss Society.

*Kenmore Hotel:* Sections on Physics (B), Chemistry (C), Social and Economic Sciences (K), History and Philosophy of Science (L), and Engineering (M).

Hotels adjacent to the Bradford are the Avery and Touraine; those adjacent to the Copley Plaza are the Charlesgate, Fensgate, Pioneer (for women), Copley Square, Lenox, and Vendome; those adjacent to the Kenmore are the Puritan, Braemore, Myles Standish, Sheraton, Buckminster, Gardner, and Minerva.

The Lincolnshire, Commonwealth, Bellevue, and Parker House hotels are grouped about the Boston Common and are within convenient walking distance of the Statler and Bradford hotels. The Commander and Continental hotels are adjacent to Harvard University.

---

---

## Technical Papers

---

---

### Effect of Dilution on Fertilizing Capacity of Rabbit Spermatozoa<sup>1</sup>

M. C. CHANG

*Worcester Foundation for Experimental Biology  
Shrewsbury, Massachusetts*

In the determination of the minimal number of spermatozoa required to fertilize rabbit ova, Walton (5) suspended spermatozoa in 0.9 per cent of NaCl and inseminated 3 ml. of suspension into the vagina. Rowlands (4) used Baker's solution but inseminated 2 ml. According to them, 1,000,000 or more spermatozoa are required for maximum fertility. However, the writer (1) observed maximum fertility in 11 does following insemination of 1 ml. of 0.9 per cent NaCl, containing 330,000-420,000 spermatozoa.

<sup>1</sup>The writer wishes to acknowledge his gratitude to Drs. G. Pincus and N. Werthessen for their encouragement. This work has been aided by a grant from the Foundation for Applied Research, San Antonio, Texas.

Considering the fact that the motility and respiration of spermatozoa are very low in a very dilute sperm suspension (2), it was thought that the discrepancy of results might be due to the effect of dilution.

Twenty doe rabbits were superovulated according to Pineus (3) and inseminated with a known number or a similar number of spermatozoa suspended in 1, 0.4, or 0.1 ml. of saline. The does were killed 38 to 42 hours after insemination. The ova were flushed out and the number of cleaved ova were counted. The results show that 17-42 per cent, 0-28 per cent, and 0-6 per cent of the ova were cleaved when a similar number of spermatozoa (30,000-44,000) was suspended in 0.1, 0.4, and 1 ml. of saline, respectively. The mean per cent of cleavage (2.75) with the 1-ml. insemination is significantly different from the mean per cent (27) with the 0.1-ml. insemination. A maxi-