This report covers the last academic year in which the Department of Physiology has been physically located on the campus at Lawrence. During this year, E. B. Brown, Jr., Chairman of the department; Mr. Robert W. Hamilton, Jr., Instructor; Mr. Richard Clancy, predoctoral fellow; a secretary and a research assistant have been located in the medical center in Kansas City.

This report will cover the activities in both locations.

The academic staff consisted of the following persons:

- E. B. Brown, Jr., Professor and Chairman
- Frederick Samson, Associate Professor
- Parke Woodard, Associate Professor
- Norman Loofobourrow, Assistant Professor
- William Balfour, Visiting Lecturer
- Robert W. Hamilton, Jr., Instructor

- Ronald Saldarina, Graduate Assistant
- Robert Grabske, Graduate Assistant
- Donald Quinn, Graduate Assistant
- Jerry Albright, Graduate Assistant
- Ira Paulin, Undergraduate Assistant

Richard Clancy, Nancy Dahl, and Dr. Dennis Dahl assisted with the course for medical students. The first two of these are United States Public Health Service predoctoral fellows and the latter is a U.S.P.H.S. postdoctoral fellow. Dr. Robert Hersh,
a U.S.P.H.S. Career Development Awardee, taught Physiology 165
a five semester hour course in general physiology, during the
second semester. Dr. Hersh is a member of the department of
biochemistry. Dr. Lawrence Sullivan, Assistant Professor in the
department of pharmacology, presented the lectures on renal
physiology to the medical students.

Although the staff was somewhat depleted because of unfilled
positions, the usual teaching load at Lawrence was carried on.

Courses taught during the year consisted of the following:

### Fall, 1961

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<thead>
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<th>Title</th>
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<tbody>
<tr>
<td>2</td>
<td>Medical School Course</td>
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<tr>
<td>50</td>
<td>Principles of Physiology (3 laboratories)</td>
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<td>52</td>
<td>Human Physiology</td>
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<td>162</td>
<td>Mammalian Physiology</td>
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<td>300</td>
<td>Advanced Topics</td>
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<td>301</td>
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<tr>
<td>302</td>
<td>Seminar</td>
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<tr>
<td>304</td>
<td>Thesis</td>
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<td></td>
<td>Physiology of the Nervous System</td>
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### Spring, 1962

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<tr>
<td>302</td>
<td>Thesis</td>
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</table>
RESEARCH ACTIVITIES OF THE DEPARTMENT

The following research grants and contracts were active or activated during the academic year:

**Potassium Metabolism and Acid-Base Balance** U.S.P.H.S.
Grant Number 5649. Principal Investigator: E. B. Brown, Jr.
Second year June 1, 1962 to May 31, 1963. Amount of grant:
First year $14,001.00. Second year $16,330.00.

**Ventilatory Responses to Chemical Stimuli in Arterial Blood**
Air Force Contract Number AF41-(657)-400, United States Air Force School of Aerospace Medicine, Brooks Air Force Base, Texas.

**A Study of Cardiovascular Regulatory Mechanisms** U.S.P.H.S.
Grant Dates: First year May 1, 1962 to November 30, 1963.
Successive years: December 1, 1963 to November 30, 1964 and December 1, 1964 to November 30, 1965. Amount in Grant:
First year $38,980.00; second year $24,084.00; third year $24,648.00.

**Undergraduate Research Participation** N.S.F. Grant Number G15811
Amount in grant: $27,610.00.

**Energy Metabolism of Nervous Tissue** University of Kansas
Free Energy Requirements of Nervous Tissue  U.S.P.H.S.
Grant Number NB01151-06. Principal Investigator: F.E. Samson, Jr.
Co-principal Investigator: William Balfour. Grant dates:

A Study of the Cerebral Subcellular Particles  U.S.P.H.S.
Grant Number E3070 (R1) Principal Investigator: F.E. Samson, Jr.
Co-principal Investigator: William Balfour. Grant dates:

Activity of the Corpus Callosum in Various Physiological States.
University of Kansas General Research Fund. Principal Investigator: Dr. G. N. Loofbourrow. Grant Dates: September, 1961 through June 1962. Amount in grant: $2,400.00.

Dr. Parke H. Woodard, Associate Professor, is not conducting any research work.

Projected into the next academic year when the department of physiology will be located in the medical center, we can briefly summarize as follows:

Staff Members Appointed
E. B. Brown, Jr., Professor and Chairman
Alan M. Thompson, Associate Professor
G. Norman Loofbourrow, Assistant Professor
Lawrence Sullivan, Assistant Professor
Robert W. Hamilton, Jr., Instructor

Mr. Michael D. Moeller will be a part time teaching assistant.

Two postdoctoral fellows, Dr. Virginia Tucker and Dr. William Smith, will be members of the department. In addition to Robert Hamilton and Michael Moeller, graduate students will be Robert Thurber, Richard Clancy, and Mrs. Maria Zeijdel.
Weekly meetings were held during several months of the winter with the chairmen of the departments of anatomy and biochemistry to work out the schedule and curriculum for the first year. A copy of the proposed schedule is attached. It is anticipated that in addition to the course for medical students and the course for nurses, five or six graduate courses, taught by the senior staff and covering the various areas of physiology, will be added to the offerings of the department. Titles and schedules of these courses have not been worked out and will not be until the new staff is assembled.

In addition to the three research projects under the direction of the chairman of the department, other members of the physiology staff will conduct research with the following support:

**Effect of pH Upon a Renal Excretion of Weak Acids and Bases.**
Budget: First year $9,371.00; second year: $9,487.00.

**Tissue CO₂: Chemical Forms and Exchange Rates** U.S.P.H.S.
Grant Number RG-6786 (C3) Principal Investigator: A. M. Thompson
Grant Dates: June 1, 1962 to May 31, 1963 (Final approval of this grant has not yet been received). Amount in grant: $17,250.00.