

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division	Department	Archives and Records Office Use Only
Directorate	Public Affairs	
Group		Filing Code
Creative Services Offices (CSO)/PhotoLab		ARO-6824
Location	46R0192	LBLN Accession Date
Transferee	Bailey, Marilee B	8/12/2015
Head of Department		FRC Accession No.
Pamela Patterson		

Records Title

Public Affairs Creative Services Office's Photo Lab's Historic Analog And Digital Photographs

Inclusive Date of Records

1943 1966

No of Containers

1 Magnetic Tape Box

Brief description of records

AT NARA

This accession provides photographic documentation of the early history of nuclear medicine at Berkeley Lab (LBLN), primarily the work of John Hundale Lawrence. Significant individuals, projects, instruments and events were photographed in the early days of what was then known as the University of California Radiation Laboratory (UCRL). Arranged by XBD number.

John Hundale Lawrence (January 7, 1904 – September 7, 1991) was an American physicist and physician best known for pioneering the field of nuclear medicine.

Lawrence was born in Canton, South Dakota. His parents, Carl Gustavus and Gunda Regina (née Jacobson) Lawrence, were both the offspring of Norwegian immigrants who had met while teaching at the high school in Canton, South Dakota, where his father was also the superintendent of schools. His brother was physicist Ernest O. Lawrence. He attended college at the University of South Dakota before getting his M.D. degree from Harvard Medical School. He was awarded a Guggenheim Fellowship in physics in 1957.

He had a long-term association with the University of California, Berkeley and worked at the Lawrence Berkeley National Laboratory. There he discovered treatments for leukemia and polycythemia by injecting infected mice with radioactive phosphorus derived from the cyclotron invented by his brother, the Nobel Laureate Ernest O. Lawrence.[4]

Lawrence's work with cancer patients attracted the interest of William Donner, a Philadelphia industrialist and philanthropist, whose son had died of cancer. Donner contributed funds for construction of Donner Laboratory, at the Northeast corner of the Berkeley Campus that was dedicated in 1942. In June of the same year, he married Amy McNear Bowles, daughter George McNear Bowles, Sr. and Beatrice (Nickel) Bowles of San Francisco.

John Lawrence received the Enrico Fermi Award in 1983. He received honorary degrees from the University of South Dakota, University of Bordeaux and from the Catholic University of America. He was awarded the Caldwell Medal of the American Roentgen Ray Society; the MacKenzie Davidson Medal of the British Institute of Radiology ; a medal from Pope Pius XII; the Silver Medal of the University of Bordeaux; the Silver Cross of the Greek Royal Order of the Phoenix and the Pasteur Medal of the Pasteur Institute of Paris.

[Source: Wikipedia (https://en.wikipedia.org/wiki/John_H._Lawrence)].

The collection also includes some photographs of Hal Anger. Hal Oscar Anger (May 20, 1920 – October 31, 2005)[2] was an American electrical engineer and biophysicist at Donner Laboratory, University of California, Berkeley, known for his invention of the gamma camera. In all, Anger held 15 patents, many of them for work at the Ernest O. Lawrence Radiation Laboratory. Anger received several awards in recognition of his inventions and their contributions to the field of nuclear medicine. Anger died in Berkeley, California.

In 1957, Anger invented the scintillation camera, known also as the gamma camera or Anger camera. Anger also developed the well counter, widely used in laboratory tests to measure radioactivity in samples. Anger also developed a multi-plane tomographic radiation scanner using the Anger camera and a focussed radiation collimator.

[Source: Wikipedia (https://en.wikipedia.org/wiki/Hal_Anger)]

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Box

2 JHL 1. Photos--

XBD9606-02745.TIF -- John Lawrence became interested in the biological effects of neutrons during a 1935 visit to Berkeley and soon joined his brother's team. Cooksey Film 17-23 (nitrate).
 XBD9609-04559.TIF -- Donner decompression chamber studies. Day one gone-and three more to go. Trying (with not much success) to sleep, Will Siri lies quietly on a cot during early hours of his confinement. By the fourth day, most of mountain sickness symptoms had abated, as S
 XBD9609-04773.TIF -- Living flour beetle poses for a portrait under the scanning electron microscope. 700 times magnification. Photograph taken August 15, 1966. John H. Lawrence Collection-6424.
 XBD9610-04843.TIF -- Positron-detecting scintillation camera, shown with its inventor Hal Anger of Lawrence Radiation Laboratory's Donner Laboratory, is a highly sensitive electronic instrument developed especially to exploit short-lived radioisotopes that decay by producing
 XBD9708-03150.TIF -- Hal Anger with Gamma Ray Positron Camera. JHL-2967.
 XBD9811-03046.TIF -- Multiprobe Detector "Monster" for in vivo kinetic analysis with Dr. Myron Polycove and patient; aka, Hematology with Tracers; October 1962. JHL-6454C.
 XBD9901-00160.TIF -- John H. Lawrence, center working in lab. Photograph taken October, 1984. BBC8410-08118; CBB8410-08117.
 XBD9908-01854.TIF -- Dr. John H. Lawrence at work in lab with students (dissecting mice); September 15, 1965.
 XBD200006-00835.TIF -- Whole Body Scanner Mark II. See also color negative JHL-5308C (CN3031).
 XBD200208-00453.TIF -- F. Lindgren analyzing chromatographic patterns. JHL5909-2547.
 XBD201308-03394.TIF -- Apparatus for measuring cardiac output, Donner Lab. Cornelius Tobias on right. Photograph taken February 3, 1944. John H. Lawrence Collection-2.
 XBD201308-03395.TIF -- Tilt table for aviators. Photograph taken September 1, 1943 at Donner Laboratory. John H. Lawrence Collection-4.
 XBD201308-03396.TIF -- Tilt table for aviators. Photograph taken September 1, 1943 at Donner Laboratory. John H. Lawrence Collection-5.
 XBD201308-03397.TIF -- Animal experimental room in Donner Laboratory. Photograph taken September 1, 1943. John H. Lawrence Collection-6.
 XBD201308-03398.TIF -- Interior of altitude chamber in Donner Laboratory. Photograph taken September 1, 1943. John H. Lawrence Collection-7.
 XBD201308-03399.TIF -- Altitude chamber party in Donner Laboratory. Photograph taken September 1, 1943. John H. Lawrence Collection-8.
 XBD201308-03400.TIF -- 50 Caliber machine gun outside of Donner Laboratory. Photograph taken May 19, 1944. John H. Lawrence Collection-11.
 XBD201308-03401.TIF -- Aviator oxygen hose and clamps. Photograph taken May 19, 1944. John H. Lawrence Collection-14.
 XBD201308-03402.TIF -- A12 type oxygen mask. Photograph circa 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-18.
 XBD201308-03403.TIF -- B-29 airplane before take off. Photograph taken August 9, 1950. John H. Lawrence Collection-18A.
 XBD201308-03404.TIF -- Waist component of B-24 high altitude tests. Photograph date unknown. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-19.
 XBD201308-03405.TIF -- Use of bends bag in waist component of B-24 tests. Photograph date unknown. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-20.
 XBD201308-03406.TIF -- Use of bends bag in B-24 tests. Photograph date unknown. Formerly

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restricted, declassified 9/10/1959. John H. Lawrence Collection-21.
 XBD201308-03407.TIF -- Use of bends bag in B-24 tests. Photograph date unknown. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-22.
 XBD201308-03408.TIF -- Blinker oxygen flow indicator, model I. Photograph taken May 6, 1944. John H. Lawrence Collection-23.
 XBD201308-03409.TIF -- Oxygen safety device pilots panel model II. Photograph taken June 23, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-28.
 XBD201308-03410.TIF -- Agastat relay device. Photograph taken July 3, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-29.
 XBD201308-03411.TIF -- Manual resuscitator apparatus. Patent 9/14/1945 Cornelius Tobias. Photograph taken July 3, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-32.
 XBD201308-03415.TIF -- Oxygen safety device. Photograph taken July 3, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-34.
 XBD201308-03416.TIF -- Safety demand oxygen station with agastat X relay. Photograph taken July 21, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-35.
 XBD201308-03417.TIF -- Safety demand oxygen station with agastat X relay. Photograph taken July 21, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-38.
 XBD201308-03418.TIF -- Manual resuscitator and double walk-around bottle. Photograph taken July 25, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-44.
 XBD201308-03419.TIF -- Spirometer metabolism blower. Photograph taken August 10, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-47.
 XBD201308-03420.TIF -- Parachute release device. Photograph taken August 10, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-48.
 XBD201308-03421.TIF -- Donner Laboratory glass blowing room. Photograph taken August 10, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-49.
 XBD201308-03422.TIF -- Metabolism measuring apparatus. Photograph taken August 16, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-50.
 XBD201308-03423.TIF -- Parachute showing opening device. Photograph taken August 16, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-51.
 XBD201308-03424.TIF -- Automatic parachute opening device. Photograph taken August 16, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-52.
 XBD201308-03425.TIF -- Oxygen supply system. Photograph taken August 31, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-54.
 XBD201308-03426.TIF -- Oxygen supply system. Photograph taken August 31, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-55.
 XBD201308-03427.TIF -- Oxygen mask resuscitator. Photograph taken September 8, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-58.
 XBD201308-03428.TIF -- Double walk-around bottle and resuscitator. Photograph taken November 30, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-66.
 XBD201308-03429.TIF -- Skin thermopile. Photograph taken December 11, 1944. John H. Lawrence Collection-67.
 XBD201308-03430.TIF -- Parachute release. Photograph taken December 15, 1944. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-70.
 XBD201308-03431.TIF -- Automatic parachute release, model 4. Photograph taken January 12, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-73.
 XBD201308-03432.TIF -- Automatic parachute release, model 4. Photograph taken January 24,

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1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-86.
 XBD201308-03433.TIF -- Oxygen warning panel. Photograph taken February 13, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-92.
 XBD201308-03434.TIF -- Anesthesia experiment on mount. Photograph taken March 2, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-94.
 XBD201308-03435.TIF -- Parachute release model 6. Photograph taken March 2, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-96.
 XBD201308-03436.TIF -- Automatic parachute release, modeled in a backpack. Photograph taken March 7, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-106.
 XBD201308-03437.TIF -- Automatic parachute release, modeled in a backpack. Photograph taken March 7, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-107.
 XBD201308-03438.TIF -- Graph showing typical altitude and temperature curves. Photograph taken March 27, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-109.
 XBD201308-03439.TIF -- Graph showing the uptake of CO in various percentages of CO rates and ventilation. Photograph taken April 9, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-110.
 XBD201308-03440.TIF -- O2 and CO2 analyzer experiment with Cornelius Tobias, standing. John H. Lawrence Collection-119.
 XBD201308-03441.TIF -- O2 and CO2 analyzer. Photograph taken June 6, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-139.
 XBD201308-03442.TIF -- Automatic parachute release, model 6. Photograph taken June 19, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-140.
 XBD201308-03443.TIF -- Automatic rip cord. Photograph taken June 20, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-142.
 XBD201308-03444.TIF -- Automatic parachute release mechanism. Photograph taken June 20, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-143.
 XBD201308-03445.TIF -- Automatic parachute release. Photograph taken June 20, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-144.
 XBD201308-03446.TIF -- Automatic parachute release. Photograph taken June 21, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-145.
 XBD201308-03447.TIF -- Chart showing solubility of inert gases in water. Photograph taken June 29, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-147.
 XBD201308-03448.TIF -- Chart showing decrease of C* in the left thigh while breathing oxygen and after 1 1/2 minute of inhaling C*O. Photograph taken July 14, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-148.
 XBD201308-03449.TIF -- Chart showing decrease of C* in the spleen and heart region while breathing oxygen and after 1 1/2 minute of inhaling C*O. Photograph taken July 14, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-149.
 XBD201308-03450.TIF -- Chart showing decrease of C* in the liver region while breathing oxygen and after 1 1/2 minute of inhaling C*O. Photograph taken July 14, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-150.
 XBD201308-03451.TIF -- Skin thermopile. Photograph taken August 31, 1945. John H. Lawrence Collection-167.
 XBD201308-03552.TIF -- Spirometer drawing. Photograph taken September 4, 1945. John H. Lawrence Collection-168.
 XBD201308-03453.TIF -- Relay panel oxygen warning system. Photograph taken September 15, 1945. Formerly restricted, declassified 9/10/1959. John H. Lawrence Collection-171.

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XBD201308-03553.TIF -- Harden Jones' "Mouse House." Photograph taken March 7, 1946. John H. Lawrence Collection-231.

XBD201308-03554.TIF -- Photo used to encourage funding for enlarging "Mouse House." Photograph taken March 7, 1946. John H. Lawrence Collection-232.

XBD201308-03555.TIF -- Electrolysis assembly. Photograph taken September 18, 1946. John H. Lawrence Collection-251.

XBD201308-03556.TIF -- Electrolysis assembly. Photograph taken September 18, 1946. John H. Lawrence Collection-252.

XBD201308-03557.TIF -- Measuring tumor on mouse. Photograph taken September 18, 1946. John H. Lawrence Collection-253.

XBD201308-03558.TIF -- Close up of electrolysis cell. Photograph taken October 8, 1946. John H. Lawrence Collection-256.

XBD201308-03559.TIF -- Altitude chamber studies. Photograph taken August 18, 1943. John H. Lawrence Collection-269.

XBD201308-03560.TIF -- Altitude chamber studies. Photograph taken August 18, 1943. John H. Lawrence Collection-270.

XBD201308-03561.TIF -- Altitude chamber exterior. Photograph taken August 18, 1943. John H. Lawrence Collection-271.

XBD201308-03562.TIF -- Campus medical research building for altitude chamber studies. Photograph taken August 18, 1943. John H. Lawrence Collection-272.

XBD201308-03563.TIF -- Altitude chamber studies with John Lawrence, right. Photograph taken August 18, 1943. John H. Lawrence Collection-273.

XBD201308-03564.TIF -- John Lawrence conducting altitude chamber studies. Photograph taken August 18, 1943. John H. Lawrence Collection-274.

XBD201308-03565.TIF -- Entrance to altitude chamber. Photograph taken August 18, 1943. John H. Lawrence Collection-275.

XBD201308-03566.TIF -- Altitude chamber study subject. Photograph taken February 2, 1944. John H. Lawrence Collection-276.

XBD201308-03567.TIF -- Thermistor micromax. Photograph taken August 22, 1947. John H. Lawrence Collection-297.

XBD201308-03568.TIF -- Thermistor micromax. Photograph taken August 22, 1947. John H. Lawrence Collection-298.

XBD201308-03569.TIF -- Recording differential photometer. Photograph taken November 21, 1947. John H. Lawrence Collection-311.

XBD201308-03570.TIF -- Recording differential photometer. Photograph taken November 21, 1947. John H. Lawrence Collection-312.

XBD201308-03571.TIF -- Equipment and set up for measuring the electrical resistance of blood. Photograph taken December 9, 1947. John H. Lawrence Collection-316.

XBD201308-03572.TIF -- Equipment and set up for measuring the electrical resistance of blood. Photograph taken December 9, 1947. John H. Lawrence Collection-317.

XBD201308-03573.TIF -- Equipment and set up for measuring the electrical resistance of blood. Photograph taken December 9, 1947. John H. Lawrence Collection-318.

XBD201308-03574.TIF -- In vivo gamma counter for human subjects. Photograph taken January 8, 1948. John H. Lawrence Collection-325.

XBD201308-03575.TIF -- In vivo gamma counter for human subjects. Photograph taken January 8, 1948. John H. Lawrence Collection-326.

XBD201308-03576.TIF -- In vivo beta counter research with mouse. Photograph taken January 8,

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1948. John H. Lawrence Collection-327.
 XBD201308-03578.TIF -- In vivo beta counter. Photograph taken January 8, 1948. John H. Lawrence Collection-328.
 XBD201308-03579.TIF -- Recording differential photo. Photograph taken February 5, 1948. John H. Lawrence Collection-335.
 XBD201308-03580.TIF -- Bone marrow of rat irradiated with 3,000 N. Photograph taken April 1, 1948. John H. Lawrence Collection-374.
 XBD201308-03581.TIF -- Normal rat bone marrow. Photograph taken April 1, 1948. John H. Lawrence Collection-375.
 XBD201308-03582.TIF -- Small doses of poisonous carbon monoxide and radioactive carbon being used to study blood circulation in the heart and liver disease. Photograph taken June 23, 1948. John H. Lawrence Collection-398.
 XBD201308-03583.TIF -- A mass spectrograph, which identifies isotopes by atomic weight, being used to study heart disease and polycythemia. Photograph taken June 23, 1948. John H. Lawrence Collection-399.
 XBD201308-03584.TIF -- Respired air from a patient is analyzed by this apparatus in studies on problems such as carbon monoxide poisoning. Photograph taken June 23, 1948. John H. Lawrence Collection-400.
 XBD201308-03585.TIF -- Siamese-twin rats used to study new technique in radioactive iron and radioactive sodium experiments. Photograph taken June 23, 1948. John H. Lawrence Collection-402.
 XBD201308-03586.TIF -- Pipette used to safeguard workers. Photograph taken June 23, 1948. John H. Lawrence Collection-403.
 XBD201308-03587.TIF -- Donner Lab technicians tracked the health of hundreds of leukemia and polycythemia patients. Photograph taken June 23, 1948. John H. Lawrence Collection-404.
 XBD201308-03588.TIF -- A micrometer pipette used in small radioactive tracer experiments. Photograph taken June 23, 1948. John H. Lawrence Collection-405.
 XBD201308-03589.TIF -- Chamber known as the "coffin," used in heart disease and obesity experiments. Photograph taken June 23, 1948. John H. Lawrence Collection-406.
 XBD201308-03590.TIF -- Heavy brass shield and a lucite syringe guard protects the doctor from radiation as he prepares an injection of P32 for a leukemia patient. Photograph taken June 23, 1948. John H. Lawrence Collection-407.
 XBD201308-03591.TIF -- Electroplating equipment for preparing samples of radioactive gold, iron, cobalt and other metals for arthritis and blood disease research. Photograph taken June 23, 1948. John H. Lawrence Collection-408.
 XBD201308-03592.TIF -- Treatment table for use with 184-inch beam, associated with Hal Anger. Photograph taken October 18, 1948. John H. Lawrence Collection-414.
 XBD201308-03681.TIF -- Treatment table for use with 184-inch cyclotron beam. Photograph taken October 18, 1948. John H. Lawrence Collection-415.
 XBD201308-03682.TIF -- Treatment table for use with 184-inch cyclotron beam. Photograph taken October 18, 1948. John H. Lawrence Collection-416.
 XBD201308-03683.TIF -- Treatment table for use with 184-inch cyclotron beam, extrapolation chamber. Photograph taken October 18, 1948. John H. Lawrence Collection-417.
 XBD201308-03684.TIF -- Schematic cut away of atomic pile. Photograph taken October 19, 1948. John H. Lawrence Collection-429.
 XBD201308-03685.TIF -- Room 216, Donner Lab alterations. Photograph taken November 15, 1948. John H. Lawrence Collection-453.
 XBD201308-03686.TIF -- Room 216, Donner Lab ultracentrifuge. Photograph taken November 15,

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1948. John H. Lawrence Collection-455.
 XBD201308-03687.TIF -- Room 216, Donner Lab. Photograph taken November 15, 1948. John H. Lawrence Collection-456.
 XBD201308-03688.TIF -- Auto sample changer for exchange. Photograph taken January 14, 1949. John H. Lawrence Collection-492.
 XBD201308-03689.TIF -- Detail anode and cell of electroplating apparatus. Photograph taken January 14, 1949. John H. Lawrence Collection-493.
 XBD201308-03690.TIF -- Modified Esterline Angus recorder for ion exchange. Photograph taken January 14, 1949. John H. Lawrence Collection-495.
 XBD201308-03691.TIF -- Clot retraction rate curve. Photograph taken February 14, 1949. John H. Lawrence Collection-553.
 XBD201308-03692.TIF -- Hal Anger at control panel used for 184-inch cyclotron medical experiments. Photograph taken March 8, 1949. John H. Lawrence Collection-613.
 XBD201308-03693.TIF -- Chamber for exposing parabolic rats to radiation. Photograph taken May 5, 1949. John H. Lawrence Collection-621.
 XBD201308-03694.TIF -- The equipment used in measuring the blood volume with P32 labeled red cells. Photograph taken May 23, 1949. John H. Lawrence Collection-654.
 XBD201308-03695.TIF -- Chart of elements processed and not yet processed in the calutron, and elements with no detectable isotopes. Photograph taken June 23, 1949. John H. Lawrence Collection-683.
 XBD201308-03696.TIF -- Distillation plant attic in Donner Lab. Photograph taken June 27, 1949. John H. Lawrence Collection-692.
 XBD201308-03697.TIF -- A table of medical problems studied with isotopes and elements. Photograph taken July 20, 1949. John H. Lawrence Collection-702.
 XBD201308-03698.TIF -- Automatic syringe freed apparatus for the purpose of giving an even rate of flow through ion exchange columns. Photograph taken October 3, 1949. John H. Lawrence Collection-738.
 XBD201308-03699.TIF -- Donner Lab, Room 324. Photograph taken October 26, 1949. John H. Lawrence Collection-779.
 XBD201308-03700.TIF -- Donner Lab, Room 224. Photograph taken October 26, 1949. John H. Lawrence Collection-781.
 XBD201308-03701.TIF -- Automatic injector for lymphatic vessels. Photograph taken October 27, 1949. John H. Lawrence Collection-782.
 XBD201308-03702.TIF -- Four counter, four scale In vivo counting apparatus with table for patient. Photograph taken November 23, 1949. John H. Lawrence Collection-789.
 XBD201308-03703.TIF -- Schematic of sector shaped analytical ultracentrifuge cell with optical diagram Photograph taken May 8, 1950. John H. Lawrence Collection-889.
 XBD201308-03704.TIF -- Schematic of sector shaped analytical ultracentrifuge cell with optical diagram. Photograph taken May 8, 1950. John H. Lawrence Collection-890.
 XBD201308-03705.TIF -- Group shot taken on research trip to Peru. John Lawrence, center. Photograph taken June 26, 1950. John H. Lawrence Collection-967.
 XBD201308-03706.TIF -- In vivo gamma counter, complete apparatus for counting patients. Photograph taken July 14, 1950. John H. Lawrence Collection-976.
 XBD201308-03707.TIF -- Counting rate recorder and scaler. Photograph taken July 14, 1950. John H. Lawrence Collection-977.
 XBD201308-03708.TIF -- Scintillation gamma counter for samples enclosed in vials. Photograph taken July 14, 1950. John H. Lawrence Collection-978.

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XBD201308-03709.TIF -- Close up of scintillation counter. Photograph taken July 14, 1950. John H. Lawrence Collection-979.

XBD201308-03710.TIF -- 12-cell electroplate unit. Trace Analysis Group. Photograph taken July 11, 1950. John H. Lawrence Collection-980.

XBD201308-03711.TIF -- 12-cell electroplate unit. Trace Analysis Group. Photograph taken July 11, 1950. John H. Lawrence Collection-981.

XBD201308-03712.TIF -- Studies of atom bomb effects on human subject. Formerly secret. Declassified 9/10/1959. Photograph taken January 21, 1946. John H. Lawrence Collection-192.

XBD201308-03713.TIF -- Studies of atom bomb effects on human. Formerly secret. Declassified 9/10/1959. Photograph taken January 21, 1946. John H. Lawrence Collection-193.

XBD201308-03714.TIF -- Nagasaki, Japan waterfront after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-353.

XBD201308-03715.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-352.

XBD201308-03716.TIF -- Nagasaki, Japan bomb victim after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-351.

XBD201308-03717.TIF -- Image taken in Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-354.

XBD201308-03718.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-355.

XBD201308-03719.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-356.

XBD201308-03720.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-357.

XBD201308-03721.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-358.

XBD201308-03722.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-359.

XBD201308-03723.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-360.

XBD201308-03724.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-361.

XBD201308-03725.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-362.

XBD201308-03726.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-363.

XBD201308-03727.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-364.

XBD201308-03728.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-365.

XBD201308-03729.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-366.

XBD201308-03730.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-367.

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XBD201308-03731.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-368.

XBD201308-03732.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-369.

XBD201308-03733.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-370.

XBD201308-03734.TIF -- Nagasaki, Japan after the atomic bomb detonation. Formerly restricted. Declassified 9/10/1959. Photograph taken March 17, 1948. John H. Lawrence Collection-371.

XBD201308-03735.TIF -- Alopecia (male pattern baldness) in girl exposed to atomic bomb radiation. Photograph taken March 14, 1950. John H. Lawrence Collection-856.

XBD201309-03741.TIF -- Disassembled light source mount for Scherlarian camera. Photograph taken April 23, 1951. John H. Lawrence Collection-1113.

XBD201309-03742.TIF -- Components associated with light source mount for Scherlarian camera. Photograph taken April 23, 1951. John H. Lawrence Collection-1114.

XBD201309-03743.TIF -- Rocker for ultra-centrifuge. Photograph taken April 24, 1951. John H. Lawrence Collection-1117.

XBD201309-03744.TIF -- Diagram of preaccelerator and cyclotron. Photograph taken May 8, 1951. John H. Lawrence Collection-1121.

XBD201309-03745.TIF -- Radioautograph of NTA stripping film of normal thyroid tissue from a young rhesus monkey. Photograph circa 1951. John H. Lawrence Collection-1126.

XBD201309-03746.TIF -- Radioautograph of radio-iodine deposition in normal thyroid tissue of rat. Photograph circa 1951. John H. Lawrence Collection-1127.

XBD201309-03747.TIF -- Radioautograph obtained using NTH stripping film of normal thyroid tissue section from rat. Photograph taken May 12, 1951. John H. Lawrence Collection-1128.

XBD201309-03748.TIF -- Radioautograph obtained using NTH stripping film of normal thyroid tissue section from rat. Photograph circa 1951. John H. Lawrence Collection-1129.

XBD201309-03749.TIF -- Radioautograph of paratracheal tissue and parathyroid gland of a young rhesus monkey. Photograph taken December 12, 1951. John H. Lawrence Collection-1130.

XBD201309-03751.TIF -- Shielding for scintillation counter, old type. Photograph taken May 31, 1951. John H. Lawrence Collection-1141.

XBD201309-03752.TIF -- Shielding for scintillation counter, new type. Photograph taken May 31, 1951. John H. Lawrence Collection-1142.

XBD201309-03753.TIF -- Shielding for scintillation counter, new type, showing door mechanism. Photograph taken May 31, 1951. John H. Lawrence Collection-1143.

XBD201309-03754.TIF -- Shielding for scintillation counter, new type. Photograph taken May 31, 1951. John H. Lawrence Collection-1144.

XBD201309-03755.TIF -- Diagram of in vivo scintillation counter. Photograph taken June 8, 1951. John H. Lawrence Collection-1146.

XBD201309-03756.TIF -- In vivo counter retouched. Photograph taken July 25, 1951. John H. Lawrence Collection-1167A.

XBD201309-03757.TIF -- Method of C14 measurement. Photograph taken June 22, 1951. John H. Lawrence Collection-1170.

XBD201309-03758.TIF -- Method of C14 measurement, retouched. Photograph taken July 25, 1951. John H. Lawrence Collection-1170A.

XBD201309-03759.TIF -- Metabolism cage and absorption column used to collect carbon dioxide from mouse. Photograph taken August 29, 1951. John H. Lawrence Collection-1170B.

XBD201309-03761.TIF -- Metabolism and absorption column for collection of radiation carbon

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dioxide from mouse. Photograph taken September 1951. John H. Lawrence Collection-1170C.
 XBD201309-03762.TIF -- Method of measuring C14. Photograph taken June 1951. John H. Lawrence Collection-1171.
 XBD201309-03763.TIF -- Method of measuring C14. Photograph taken June 1951. John H. Lawrence Collection-1172.
 XBD201309-03764.TIF -- Method of measuring C14. Photograph taken June 1951. John H. Lawrence Collection-1173.
 XBD201309-03765.TIF -- Differential pulse height analyzer. Photograph taken July 3, 1951. John H. Lawrence Collection-1177.

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Box

- 3 JHL 2. Photos--
- XBD201309-03766.TIF -- Ultracentrifuge, exterior view. Photograph taken August 30, 1951. John H. Lawrence Collection-1235.
 - XBD201309-03767.TIF -- Ultracentrifuge, interior view. Photograph taken August 30, 1951. John H. Lawrence Collection-1236.
 - XBD201309-03768.TIF -- Pepsin crystals. Photograph taken October 10, 1951. John H. Lawrence Collection-1263.
 - XBD201309-03769.TIF -- Crystallized tobacco necrosis virus. Photograph taken October 10, 1951. John H. Lawrence Collection-1264.
 - XBD201309-03770.TIF -- Slides used by Arne Tiseluis in the first Hitchcock lecture on "Isolation and Characterization of Proteins," given on 9/26/1951. Photograph taken October 10, 1951. John H. Lawrence Collection-1265.
 - XBD201309-03771.TIF -- Slides used by Arne Tiseluis in the first Hitchcock lecture on "Isolation and Characterization of Proteins," given on 9/26/1951. Photograph taken October 10, 1951. John H. Lawrence Collection-1266.
 - XBD201309-03772.TIF -- Slides used by Arne Tiseluis in the first Hitchcock lecture on "Isolation and Characterization of Proteins," given on 9/26/1951. Photograph taken November 12, 1951. John H. Lawrence Collection-1268.
 - XBD201309-03773.TIF -- Slides used by Arne Tiseluis in the first Hitchcock lecture on "Isolation and Characterization of Proteins," given on 9/26/1951. Photograph taken October 10, 1951. John H. Lawrence Collection-1275.
 - XBD201309-03774.TIF -- Illustration of the apparatus used for filter paper electrophoresis. Photograph taken October 10, 1951. John H. Lawrence Collection-1280.
 - XBD201309-03775.TIF -- Proposed addition to Cowell Hospital. Photograph taken November 1, 1951. John H. Lawrence Collection-1290.
 - XBD201309-03776.TIF -- Ultracentrifuge plates. Photograph taken October 31, 1951. John H. Lawrence Collection-1293.
 - XBD201309-03777.TIF -- Diagram showing the percentage of Fe59 dose in circulating erythrocytes versus days following intravenous injection of globulin. Photograph taken November 2, 1951. John H. Lawrence Collection-1305.
 - XBD201309-03778.TIF -- Diagram showing the percentage of Fe59 dose in circulating erythrocytes versus days following intravenous injection of globulin. Photograph taken November 2, 1951. John H. Lawrence Collection-1305A.
 - XBD201309-03779.TIF -- Diagram showing the percentage of Fe59 dose in circulating erythrocytes versus days following intravenous injection of globulin. Photograph taken November 2, 1951. John H. Lawrence Collection-1305B.
 - XBD201309-03780.TIF -- Ultracentrifuge plates. Photograph taken November 6, 1951. John H. Lawrence Collection-1306.
 - XBD201309-03782.TIF -- Table showing the blood volume, packed red cell volume, and plasma volume of students and native persons before and after acclimatization. Photograph taken November 8, 1951. John H. Lawrence Collection-1308.
 - XBD201309-03783.TIF -- Ether extraction unit. Photograph taken December 5, 1951. John H. Lawrence Collection-1346.
 - XBD201309-03784.TIF -- Blood volume scaler equipment, geiger counter and lead shield. Photograph taken March 21, 1952. John H. Lawrence Collection-1390.
 - XBD201309-03785.TIF -- Image and description showing the path of the atomic cocktail. Photograph taken July 17, 1952. John H. Lawrence Collection-1481.

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XBD201309-03786.TIF -- Body volume apparatus for measuring specific gravities and body volume of humans. Associated individual: Will Siri. Photograph taken September 25, 1952. John H. Lawrence Collection-1506.

XBD201309-03787.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1533.

XBD201309-03788.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1535.

XBD201309-03789.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1537.

XBD201309-03790.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1538.

XBD201309-03791.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1539.

XBD201309-03792.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1548.

XBD201309-03793.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1549.

XBD201309-03794.TIF -- Gamma-ray scanner image. Photograph taken November 12, 1952. John H. Lawrence Collection-1550.

XBD201309-03795.TIF -- Rat holder for pituitary radiation bombardment. Photograph taken November 11, 1952. John H. Lawrence Collection-1554.

XBD201309-03796.TIF -- Multiple In vivo counters being used on patient. Photograph taken November 19, 1952. John H. Lawrence Collection-1557.

XBD201309-03797.TIF -- Multiple In vivo counters being used on patient. Photograph taken November 19, 1952. John H. Lawrence Collection-1558.

XBD201309-03798.TIF -- Multiple In vivo counters being used on patient. Photograph taken November 19, 1952. John H. Lawrence Collection-1559.

XBD201309-03799.TIF -- Gamma-ray scanner image. Photograph taken December 8, 1952. John H. Lawrence Collection-1560.

XBD201309-03800.TIF -- Complete head-to-toe scanner image of patient with known or suspected carcinoma. Photograph taken July 1, 1952. John H. Lawrence Collection-1560A.

XBD201309-03801.TIF -- Diagram of gamma-ray scanner circuit. Photograph taken December 8, 1952. John H. Lawrence Collection-1561.

XBD201309-03802.TIF -- Block diagram of gamma-ray scanner and scintillation camera. Associated individual: Hal Anger. Photograph taken December 8, 1952. John H. Lawrence Collection-1562.

XBD201309-03803.TIF -- Ultracentrifuge plates. Photograph taken December 12, 1952. John H. Lawrence Collection-1563.

XBD201309-03804.TIF -- Modification on Speedomax recorders. Photograph taken December 31, 1952. John H. Lawrence Collection-1571.

XBD201309-03805.TIF -- Blood scanner. Photograph taken March 20, 1953. John H. Lawrence Collection-1613.

XBD201309-03806.TIF -- Blood scanner. Photograph taken March 20, 1953. John H. Lawrence Collection-1614.

XBD201309-03807.TIF -- Blood scanner. Photograph taken March 20, 1953. John H. Lawrence Collection-1615.

XBD201309-03808.TIF -- Scanner image. Photograph taken April 15, 1953. John H. Lawrence

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Collection-1617.
 XBD201309-03875.TIF -- Cardiac output apparatus with patient. Photograph taken April 21, 1953. John H. Lawrence Collection-1618.
 XBD201309-03876.TIF -- Cardiac output apparatus with patient. Photograph taken April 21, 1953. John H. Lawrence Collection-1619.
 XBD201309-03877.TIF -- Distribution of radio iron in human body. Photograph taken May 25, 1953. John H. Lawrence Collection-1624.
 XBD201309-03878.TIF -- Pituitary research on rat. Photograph taken May 25, 1953. John H. Lawrence Collection-1625.
 XBD201309-03879.TIF -- Carbon beam measurement apparatus. Photograph taken June 29, 1953. John H. Lawrence Collection-1633.
 XBD201309-03880.TIF -- Carbon beam measurement apparatus. Photograph taken June 29, 1953. John H. Lawrence Collection-1634.
 XBD201309-03881.TIF -- Carbon beam measurement apparatus. Photograph taken June 29, 1953. John H. Lawrence Collection-1635.
 XBD201309-03882.TIF -- Carbon beam measurement apparatus. Photograph taken June 29, 1953. John H. Lawrence Collection-1636.
 XBD201309-03883.TIF -- Centrifuge plates. Photograph taken July 7, 1953. John H. Lawrence Collection-1637.
 XBD201309-03884.TIF -- Human body volume chamber. Photograph taken July 8, 1953. John H. Lawrence Collection-1638.
 XBD201309-03885.TIF -- Human body volume chamber. Photograph taken July 8, 1953. John H. Lawrence Collection-1639.
 XBD201309-03886.TIF -- Project plate comparator. Photograph taken July 8, 1953. John H. Lawrence Collection-1640.
 XBD201309-03887.TIF -- Micro cell electrophoresis rack. Photograph taken July 8, 1953. John H. Lawrence Collection-1642.
 XBD201309-03888.TIF -- Monkey pituitary bombardment. Photograph taken July 14, 1953. John H. Lawrence Collection-1643.
 XBD201309-03889.TIF -- Monkey pituitary bombardment. Photograph taken July 14, 1953. John H. Lawrence Collection-1645.
 XBD201309-03890.TIF -- Electrophoretic patterns of alpha and beta lipoprotein-free serum. Photograph taken July 20, 1953. John H. Lawrence Collection-1648.
 XBD201310-03891.TIF -- Liver and spleen scanner ray images. Photograph taken August 20, 1953. John H. Lawrence Collection-1650.
 XBD201310-03892.TIF -- Scanner ray image of rabbit. Photograph taken August 20, 1953. John H. Lawrence Collection-1651.
 XBD201310-03893.TIF -- Scanner ray image of human, front view. Photograph taken August 20, 1953. John H. Lawrence Collection-1652.
 XBD201310-03894.TIF -- Alpha source. Photograph taken August 25, 1953. John H. Lawrence Collection-1658.
 XBD201310-03895.TIF -- Foil ionization chamber. Photograph taken September 3, 1953. John H. Lawrence Collection-1659.
 XBD201310-03896.TIF -- Quadrant ionization chamber. Dose measuring instrument with sample holder. Photograph taken September 3, 1953. John H. Lawrence Collection-1660.
 XBD201310-03897.TIF -- Quadrant ionization chamber dose measuring instrument with sample holder. Photograph taken September 3, 1953. John H. Lawrence Collection-1661.

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XBD201310-03898.TIF -- Scanning apparatus for carbon beam. Photograph taken September 3, 1953. John H. Lawrence Collection-1662.

XBD201310-03899.TIF -- Eye irradiation on rabbit. Photograph taken October 9, 1953. John H. Lawrence Collection-1664.

XBD201310-03900.TIF -- Eye irradiation on rabbit. Photograph taken October 9, 1953. John H. Lawrence Collection-1665.

XBD201310-03901.TIF -- Phase plate mounted on brass ring. Photograph taken December 11, 1953. John H. Lawrence Collection-1672. ZN-820.

XBD201310-03902.TIF -- Interior of monkey skull showing deuteron beam radiation effect on pituitary gland. Photograph taken March 26, 1954. John H. Lawrence Collection-1679.

XBD201310-03903.TIF -- Head rotator device. Photograph taken April 14, 1954. John H. Lawrence Collection-1684.

XBD201310-03904.TIF -- Head rotator device. Photograph taken April 15, 1954. John H. Lawrence Collection-1686.

XBD201310-03905.TIF -- Head rotator device. Photograph taken April 14, 1954. John H. Lawrence Collection-1687.

XBD201310-03910.TIF -- Radiation burns on fingers. Photograph taken May 7, 1954. John H. Lawrence Collection-1697.

XBD201310-03911.TIF -- Donner lab publicity shot for San Joaquin County Heart Association. Photograph taken May 10, 1954. John H. Lawrence Collection-1699.

XBD201310-03912.TIF -- Multiple In vivo counter. Photograph taken May 28, 1954. John H. Lawrence Collection-1726.

XBD201310-03913.TIF -- Scanner-ray image. Photograph taken May 28, 1954. John H. Lawrence Collection-1728.

XBD201310-03914.TIF -- Scanner-ray image. Photograph taken May 28, 1954. John H. Lawrence Collection-1729.

XBD201310-03915.TIF -- Scanner-ray image. Photograph taken May 28, 1954. John H. Lawrence Collection-1730.

XBD201310-03916.TIF -- Scanner-ray image. Photograph taken May 28, 1954. John H. Lawrence Collection-1731.

XBD201310-03917.TIF -- Scanner-ray image. Photograph taken May 28, 1954. John H. Lawrence Collection-1732.

XBD201310-03918.TIF -- Scanner-ray image. Photograph taken May 28, 1954. John H. Lawrence Collection-1733.

XBD201310-03919.TIF -- Artist's rendering of Donner Laboratory with new annex. Photograph taken October 1, 1954. John H. Lawrence Collection-1773.

XBD201310-03920.TIF -- Body volume chamber. Photograph taken October 13, 1954. John H. Lawrence Collection-1778.

XBD201310-03921.TIF -- Body volume chamber. Photograph taken October 13, 1954. John H. Lawrence Collection-1779.

XBD201310-03922.TIF -- Myeloproliferative syndromes. Photograph taken October 22, 1954. John H. Lawrence Collection-1781.

XBD201310-03923.TIF -- Diagram showing the course of polycythemia vera. Photograph taken October 22, 1954. John H. Lawrence Collection-1782.

XBD201310-03924.TIF -- Diagram of the relationship of polycythemia vera with myeloid metaplasia of the proliferative diseases. Photograph taken October 22, 1954. John H. Lawrence Collection-1783.

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XBD201310-03927.TIF -- Cave set up with patient in position. Photograph taken October 29, 1954. John H. Lawrence Collection-1789.

XBD201310-03928.TIF -- Cave set up. Photograph taken October 29, 1954. John H. Lawrence Collection-1792.

XBD201310-03929.TIF -- Cave set up with mask. Photograph taken October 29, 1954. John H. Lawrence Collection-1794.

XBD201310-03930.TIF -- Plastic molding technique for making plastic mask used to hold head in fixed position. Photograph taken October 27, 1954. John H. Lawrence Collection-1795.

XBD201310-03931.TIF -- Plastic molding technique for making mask. Photograph taken October 27, 1954. John H. Lawrence Collection-1796. ZN-1353.

XBD201310-03932.TIF -- Plastic molding technique for making plastic mask. Photograph taken October 27, 1954. John H. Lawrence Collection-1797. ZN-1354.

XBD201310-03933.TIF -- Plastic molding technique for making plastic mask. Photograph taken October 27, 1954. John H. Lawrence Collection-1798. ZN-1355.

XBD201310-03934.TIF -- Plastic molding technique for making plastic mask. Photograph taken October 28, 1954. John H. Lawrence Collection-1799.

XBD201310-03935.TIF -- Plastic molding technique for making plastic mask. Photograph taken October 28, 1954. John H. Lawrence Collection-1800.

XBD201310-03936.TIF -- Plastic molding technique for making plastic mask. Photograph taken October 28, 1954. John H. Lawrence Collection-1801.

XBD201310-03937.TIF -- Plastic molding technique for making plastic mask. Photograph taken October 28, 1954. John H. Lawrence Collection-1802.

XBD201310-03938.TIF -- Plastic molding technique for making plastic mask. Photograph taken October 28, 1954. John H. Lawrence Collection-1803. ZN-1352.

XBD201310-03939.TIF -- Ultracentrifuge plates. Photograph taken November 8, 1954. John H. Lawrence Collection-1808.

XBD201310-03940.TIF -- Cave set up with patient in position. Photograph taken November 19, 1954. John H. Lawrence Collection-1816.

XBD201310-03941.TIF -- Cocker Spaniel in cave set up. Photograph taken November 26, 1954. John H. Lawrence Collection-1820.

XBD201310-03942.TIF -- Cocker Spaniel in cave set up. Photograph taken November 26, 1954. John H. Lawrence Collection-1821.

XBD201310-03943.TIF -- Rat X-rays. Photograph taken December 2, 1954. John H. Lawrence Collection-1824.

XBD201310-03944.TIF -- Ultracentrifuge plates. Photograph taken December 10, 1954. John H. Lawrence Collection-1826.

XBD201310-04134.TIF -- Ultracentrifuge plates. Photograph taken January 26, 1955. John H. Lawrence Collection-1845.

XBD201310-04136.TIF -- Head mask. Photograph taken April 22, 1955. John H. Lawrence Collection-1864.

XBD201310-04137.TIF -- Head mask. Photograph taken April 22, 1955. John H. Lawrence Collection-1865.

XBD201310-04138.TIF -- Head mask. Photograph taken April 22, 1955. John H. Lawrence Collection-1866.

XBD201310-04139.TIF -- Head mask. Photograph taken April 22, 1955. John H. Lawrence Collection-1867. ZN-1356.

XBD201310-04140.TIF -- Head mask. Photograph taken April 22, 1955. John H. Lawrence

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Collection-1868.
 XBD201310-04141.TIF -- Source for reflecting microscope. Photograph taken May 18, 1955. John H. Lawrence Collection-1878.
 XBD201310-04142.TIF -- Pellet press. Photograph taken May 18, 1955. John H. Lawrence Collection-1879.
 XBD201310-04143.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1923.
 XBD201310-04144.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1924.
 XBD201310-04145.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1925.
 XBD201310-04146.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1926.
 XBD201310-04147.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1927.
 XBD201310-04148.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1928.
 XBD201310-04149.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1929.
 XBD201310-04150.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1930.
 XBD201310-04151.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1931.
 XBD201310-04152.TIF -- Lipoprotein analysis. Photograph taken September 13, 1955. John H. Lawrence Collection-1932.
 XBD201310-04153.TIF -- Milling plastic models of a head. Photograph taken September 15, 1955. John H. Lawrence Collection-1937.
 XBD201310-04154.TIF -- Milling plastic models of a head. Photograph taken September 15, 1955. John H. Lawrence Collection-1938.
 XBD201310-04155.TIF -- Special multiple counter. The counters indicate where the radioactive substance goes in the body. Photograph taken September 28, 1955. John H. Lawrence Collection-1943.
 XBD201310-04156.TIF -- Peruvian expedition in 1950 to study effect of high altitude. Photograph taken October 7, 1955. John H. Lawrence Collection-1967.
 XBD201310-04157.TIF -- Map image of White Mountain Research Station, California. Photograph taken October 16, 1950. John H. Lawrence Collection-2006.
 XBD201310-04158.TIF -- Large eccentric atheromatous plaque in coronary artery of 23 year-old man. Published in the American Heart Journal, 1948. John H. Lawrence Collection-2009.
 XBD201310-04159.TIF -- Localization survey of the torso by In vivo counting. Photograph taken November 11, 1951. John H. Lawrence Collection-2039.
 XBD201310-04160.TIF -- Bone marrow, taken from color slide. Photograph of image taken February 20, 1951. John H. Lawrence Collection-2072.
 XBD201310-04161.TIF -- Bone marrow, taken from color slide. Photograph of image taken November 17, 1951. John H. Lawrence Collection-2072A.
 XBD201310-04162.TIF -- Dedication plaque at Donner Lab, March 14, 1941. Photograph taken September 19, 1956. John H. Lawrence Collection-2105. See also XBC844-2584.
 XBD201310-04164.TIF -- Infrared spectrophotometer. Photograph taken October 18, 1956. John H.

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Lawrence Collection-2106.
 XBD201310-04165.TIF -- Charles Sondhaus with micro spectrophotometer. Photograph taken October 18, 1956. John H. Lawrence Collection-2107.
 XBD201310-04166.TIF -- Electron microscope. Photograph taken October 18, 1956. John H. Lawrence Collection-2108.
 XBD201310-04167.TIF -- Electron microscope. Photograph taken October 18, 1956. John H. Lawrence Collection-2109.
 XBD201310-04168.TIF -- Ellis Myers with Berkeley E.A.S.E. computer. Photograph taken October 18, 1956. John H. Lawrence Collection-2110.
 XBD201310-04169.TIF -- Ellis Myers with Berkeley E.A.S.E. computer. Photograph taken October 18, 1956. John H. Lawrence Collection-2111.
 XBD201310-04170.TIF -- Charles Sondhaus with micro spectrophotometer. Photograph taken November 6, 1956. John H. Lawrence Collection-2112.
 XBD201310-04171.TIF -- Charles Sondhaus with micro spectrophotometer. Photograph taken November 6, 1956. John H. Lawrence Collection-2113.
 XBD201310-04172.TIF -- Counter-current distribution apparatus. Photograph taken November 6, 1956. John H. Lawrence Collection-2114.
 XBD201310-04173.TIF -- Counter-current distribution apparatus. Photograph taken November 6, 1956. John H. Lawrence Collection-2115.
 XBD201310-04174.TIF -- Administration of anoxic environment to nephrectomized member of parabiotic rats. Photograph taken May 2, 1957. John H. Lawrence Collection-2129.
 XBD201310-04175.TIF -- Altitude chamber studies. Photograph taken May 9, 1957. John H. Lawrence Collection-2132.
 XBD201310-04176.TIF -- Carbon-14 respiration pattern analyzer. Photograph taken May 22, 1957. John H. Lawrence Collection-2133. ZN-1744.
 XBD201310-04177.TIF -- Carbon-14 respiration pattern analyzer, Martha Kirk. Photograph taken May 22, 1957. John H. Lawrence Collection-2134.
 XBD201310-04178.TIF -- Carbon-14 respiration pattern analyzer. Photograph taken May 22, 1957. John H. Lawrence Collection-2135. ZN-1745.
 XBD201310-04233.TIF -- Altitude studies on Mt. Aconcagua, 23,081 feet. The highest mountain in the Western Hemisphere, Argentina. Photograph undated. John H. Lawrence Collection-2144.
 XBD201310-04234.TIF -- Patient radiation table. Photograph taken July 24, 1957. John H. Lawrence Collection-2146.
 XBD201310-04235.TIF -- Multiprobe detector, nicknamed "monster" with patient. Photograph taken November 1, 1957. John H. Lawrence Collection-2151.
 XBD201310-04236.TIF -- Tracing machine. Photograph taken November 1, 1957. John H. Lawrence Collection-2152.
 XBD201310-04237.TIF -- Tracing machine. Photograph taken November 1, 1957. John H. Lawrence Collection-2153.
 XBD201310-04238.TIF -- BVD (Body volume D), with Will Siri. Photograph taken November 1, 1957. John H. Lawrence Collection-2154.
 XBD201310-04239.TIF -- BVD (Body volume D), with Will Siri (standing) and Ellis Myer. Photograph taken November 1, 1957. John H. Lawrence Collection-2155.
 XBD201310-04240.TIF -- Scintillation camera picture of normal thyroid phantom. Photograph taken December, 1957. John H. Lawrence Collection-2159.
 XBD201310-04241.TIF -- Scanner image. Photograph taken November 27, 1957. John H. Lawrence Collection-2160.

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XBD201310-04242.TIF -- Scintillation camera set up. Photograph taken February 27, 1958. John H. Lawrence Collection-2175.

XBD201310-04243.TIF -- Scintillation camera set up. Photograph taken February 27, 1958. John H. Lawrence Collection-2176.

XBD201310-04244.TIF -- Scintillation camera. Photograph taken February 27, 1958. John H. Lawrence Collection-2177.

XBD201310-04245.TIF -- Infrared micro spectrophotometer. Photograph taken February 27, 1958. John H. Lawrence Collection-2178.

XBD201310-04246.TIF -- X-ray developing from cave, Dr. Carlson and Wade Pratt. Photograph taken February 28, 1958. John H. Lawrence Collection-2179.

XBD201310-04247.TIF -- Main control room for the 184-inch cyclotron. Photograph taken February 28, 1958. John H. Lawrence Collection-2180.

XBD201310-04248.TIF -- Pituitary irradiation program group: Unknown individual (left), Cornelius Tobias (second from left), Dr. Carlson (at blackboard), James Born (second from right), and unknown individual. Photograph taken March 5, 1958. John H. Lawrence Collection-2181.

XBD201310-04249.TIF -- Pituitary irradiation program: Dr. Carlson (center) and James Born. Photograph taken March 5, 1958. John H. Lawrence Collection-2182.

XBD201310-04250.TIF -- Pituitary irradiation program. Photograph taken March 5, 1958. John H. Lawrence Collection-2183.

XBD201310-04251.TIF -- Pituitary irradiation program. Photograph taken March 4, 1958. John H. Lawrence Collection-2184.

XBD201310-04252.TIF -- Pituitary irradiation program, mask fabrication. Photograph taken March 5, 1958. John H. Lawrence Collection-2186.

XBD201310-04253.TIF -- Pituitary irradiation program, mask fabrication. Photograph taken March 5, 1958. John H. Lawrence Collection-2187.

XBD201310-04269.TIF -- Model of multiprobe detector, nicknamed "monster", for Geneva. Photograph taken July 7, 1958. John H. Lawrence Collection-2246.

XBD201311-04254.TIF -- Pituitary irradiation program, mask fabrication. Photograph taken March 5, 1958. John H. Lawrence Collection-2188.

XBD201311-04255.TIF -- Pituitary irradiation program. Wade Pratt fabricating mask. Photograph taken March 4, 1958. John H. Lawrence Collection-2189.

XBD201311-04256.TIF -- Pituitary irradiation program. Wade Pratt fabricating mask. Photograph taken March 4, 1958. John H. Lawrence Collection-2190.

XBD201311-04257.TIF -- Pituitary irradiation program. Photograph taken March 4, 1958. John H. Lawrence Collection-2191.

XBD201311-04258.TIF -- Pituitary irradiation program. Wade Pratt with patient, fabricating mask. Photograph taken March 4, 1958. John H. Lawrence Collection-2192.

XBD201311-04259.TIF -- Pituitary irradiation program. Wade Pratt with patient, fabricating mask. Photograph taken March 4, 1958. John H. Lawrence Collection-2193.

XBD201311-04260.TIF -- Pituitary irradiation program. Photograph taken March 7, 1958. John H. Lawrence Collection-2194.

XBD201311-04261.TIF -- Pituitary irradiation program. Photograph taken March 7, 1958. John H. Lawrence Collection-2195.

XBD201311-04262.TIF -- Pituitary irradiation program with Cornelius Tobias and James Born. Photograph taken March 7, 1958. John H. Lawrence Collection-2196.

XBD201311-04263.TIF -- Pituitary irradiation program. Photograph taken March 7, 1958. John H. Lawrence Collection-2197. ZN-2744

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XBD201311-04264.TIF -- Pituitary irradiation program. Photograph taken March 7, 1958. John H. Lawrence Collection-2199.

XBD201311-04265.TIF -- Pituitary irradiation program. Patient in wheelchair outside of the Bevatron building. Photograph taken March 7, 1958. John H. Lawrence Collection-2201.

XBD201311-04266.TIF -- Pituitary irradiation program, patient testing. Photograph taken March 11, 1958. John H. Lawrence Collection-2202.

XBD201311-04267.TIF -- Pituitary irradiation program, patient testing. Photograph taken March 11, 1958. John H. Lawrence Collection-2203.

XBD201311-04268.TIF -- Inside the cyclotron, Cornelius Tobias, right. Photograph taken March 18, 1958. John H. Lawrence Collection-2207.

XBD201311-04270.TIF -- Multiprobe detector, nicknamed "monster," with Myron Pollycove, left. Photograph taken August 4, 1958. John H. Lawrence Collection-2255.

XBD201311-04271.TIF -- Multiprobe detector, nicknamed "monster," in operation. Photograph taken August 4, 1958. John H. Lawrence Collection-2256.

XBD201311-04272.TIF -- Ionization chamber. Photograph taken August 27, 1958. John H. Lawrence Collection-2268.

XBD201311-04273.TIF -- Ionization chamber. Photograph taken August 27, 1958. John H. Lawrence Collection-2269. ZN-2023.

XBD201311-04274.TIF -- Ionization chambers. Photograph taken August 27, 1958. John H. Lawrence Collection-2270.

XBD201311-04275.TIF -- Ionization chamber. Photograph taken August 27, 1958. John H. Lawrence Collection-2273.

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Box

- 4 JHL 3. Photos--
- XBD201311-04276.TIF -- Lightstand with serum, Donner Lab. Photograph taken August 28, 1958. John H. Lawrence Collection-2277.
 - XBD201311-04277.TIF -- Hilac bombardment chamber, mouse in position. Photograph taken November 4, 1958. John H. Lawrence Collection-2313.
 - XBD201311-04278.TIF -- Hilac bombardment chamber absorber discs. Photograph taken November 4, 1958. John H. Lawrence Collection-2314.
 - XBD201311-04279.TIF -- Hilac bombardment chamber. Photograph taken November 4, 1958. John H. Lawrence Collection-2315.
 - XBD201311-04280.TIF -- Hilac bombardment chamber. Photograph taken November 4, 1958. John H. Lawrence Collection-2316.
 - XBD201311-04281.TIF -- HILAC bombardment chamber. Photograph taken November 4, 1958. John H. Lawrence Collection-2318.
 - XBD201311-04282.TIF -- Electronic equipment in the HILAC bombardment chamber. Photograph taken November 4, 1958. John H. Lawrence Collection-2319.
 - XBD201311-04283.TIF -- HILAC bombardment chamber with Tor Brustead. Photograph taken November 4, 1958. John H. Lawrence Collection-2320.
 - XBD201311-04284.TIF -- Damaged multiprobe detector model, nicknamed "monster." Photograph taken January 23, 1959. John H. Lawrence Collection-2371.
 - XBD201311-04285.TIF -- Continuous free boundary electrophoresis. Photograph taken February 13, 1959. John H. Lawrence Collection-2381.
 - XBD201311-04286.TIF -- Hal Anger with Scintillation camera. Photograph taken April 24, 1959. John H. Lawrence Collection-2487.
 - XBD201311-04287.TIF -- Color separating apparatus. Photograph taken May 1, 1959. John H. Lawrence Collection-2492.
 - XBD201311-04288.TIF -- Radio sigmoidoscope. Photograph taken May 28, 1959. John H. Lawrence Collection-2512.
 - XBD201311-04289.TIF -- Body scan of patient 1, six days after 1 millicurie of I131. Scan taken June 1, 1959. John H. Lawrence Collection-2539.
 - XBD201311-04290.TIF -- Dr. Chamberlain body scan after 1 millicurie of I131 administered on May 12, 1959. Scan taken May 14, 1959. John H. Lawrence Collection-2540.
 - XBD201311-04291.TIF -- Body scan of patient 2, after 1 millicurie of I131 administered on July 28, 1959. Scan taken August 3, 1959. John H. Lawrence Collection-2541.
 - XBD201311-04292.TIF -- Body scan of patient 3, after 1 millicurie of I131 administered on August 4, 1959. Scan taken August 7, 1959. John H. Lawrence Collection-2542.
 - XBD201311-04293.TIF -- Body scan of patient 4, after 1 millicurie of I131 administered on August 4, 1959. Scan taken August 7, 1959. John H. Lawrence Collection-2543.
 - XBD201311-04305.TIF -- Gas chromatographic apparatus. Photograph taken September 17, 1959. John H. Lawrence Collection-2546.
 - XBD201311-04306.TIF -- Low temperature bombardment chamber. Photograph taken October 1, 1959. John H. Lawrence Collection-2558.
 - XBD201311-04307.TIF -- Mold and plastic face cast. Photograph taken December 22, 1959. John H. Lawrence Collection-2600.
 - XBD201311-04308.TIF -- Column chromatography. Photograph taken January 19, 1960. John H. Lawrence Collection-2615.
 - XBD201311-04309.TIF -- Column chromatography. Photograph taken January 19, 1960. John H. Lawrence Collection-2616.

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XBD201311-04310.TIF -- Column chromatography. Photograph taken January 19, 1960. John H. Lawrence Collection-2617.

XBD201311-04311.TIF -- Electromagnetic blood flow meter. Photograph taken January 20, 1960. John H. Lawrence Collection-2619.

XBD201311-04312.TIF -- Electromagnetic blood flow meter. Photograph taken January 20, 1960. John H. Lawrence Collection-2620.

XBD201311-04313.TIF -- Electromagnetic blood flow meter. Photograph taken January 20, 1960. John H. Lawrence Collection-2621.

XBD201311-04314.TIF -- Electromagnetic blood flow meter. Photograph taken January 20, 1960. John H. Lawrence Collection-2622.

XBD201311-04315.TIF -- Electromagnetic blood flow meter. Photograph taken January 20, 1960. John H. Lawrence Collection-2623.

XBD201311-04316.TIF -- Free flow electrophoresis. Photograph taken February 15, 1960. John H. Lawrence Collection-2652.

XBD201311-04317.TIF -- Free flow electrophoresis. Photograph taken February 15, 1960. John H. Lawrence Collection-2653.

XBD201311-04318.TIF -- Free flow electrophoresis. Photograph taken February 15, 1960. John H. Lawrence Collection-2654.

XBD201311-04319.TIF -- Free flow blood meter. Photograph taken February 29, 1960. John H. Lawrence Collection-2665.

XBD201311-04320.TIF -- Free flow blood meter. Photograph taken February 29, 1960. John H. Lawrence Collection-2666.

XBD201311-04321.TIF -- Free flow electrophoresis. Photograph taken March 17, 1960. John H. Lawrence Collection-2672.

XBD201311-04323.TIF -- Free flow electrophoresis. Photograph taken March 17, 1960. John H. Lawrence Collection-2673.

XBD201311-04324.TIF -- Free flow electrophoresis. Photograph taken March 17, 1960. John H. Lawrence Collection-2674.

XBD201311-04325.TIF -- Rat experiment set up in medical cave. Photograph taken April 13, 1960. John H. Lawrence Collection-2686.

XBD201311-04326.TIF -- Rat experiment set up in medical cave. Photograph taken April 13, 1960. John H. Lawrence Collection-2687.

XBD201311-04327.TIF -- I131 (Iodine-131, also referred to as radioiodine) body scan of unidentified patient. Photograph taken April 22, 1960. John H. Lawrence Collection-2702.

XBD201311-04328.TIF -- 200 M I131 (Iodine-131, also referred to as radioiodine) body scan of unidentified patient. Scan taken 11/14/1958. Photograph taken April 22, 1960. John H. Lawrence Collection-2703.

XBD201311-04329.TIF -- 1 millicurie I131 (Iodine-131, also referred to as radioiodine) body scan of patient. Scan taken 6/2/1959. Photograph taken April 22, 1960. John H. Lawrence Collection-2704.

XBD201311-04330.TIF -- Typical mitochondrial profiles in a normal HeLa cell, 55,000x magnification. Photograph taken June 2, 1960. John H. Lawrence Collection-2733.

XBD201311-04331.TIF -- Irradiated HeLa cell with intra-nuclear inclusions of a membranous nature, 55,000x magnification. Photograph taken June 2, 1960. John H. Lawrence Collection-2734.

XBD201311-04332.TIF -- Survey view of irradiated HeLa cell; 1000x, 8 days post-irradiation, 8,000x magnification. Photograph taken June 2, 1960. John H. Lawrence Collection-2735.

XBD201311-04333.TIF -- Irradiated HeLa cell showing multiple nuclei and nucleolar fragments,

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14,000x magnification. Photograph taken June 2, 1960. John H. Lawrence Collection-2736.
 XBD201311-04334.TIF -- Normal HeLa cell displaying a variety of cytoplasmic structure and a typical large nucleus, 14,000x magnification. Photograph taken June 2, 1960. John H. Lawrence Collection-2737.
 XBD201311-04335.TIF -- Irradiated HeLa cell with intra-nuclear fragments and cytoplasmic abnormalities, 29,000x magnification. Photograph taken June 2, 1960. John H. Lawrence Collection-2738.
 XBD201311-04336.TIF -- Irradiated HeLa cell with large multiple nucleoli and nuclear lobes, 14,000x magnification. Photograph taken June 2, 1960. John H. Lawrence Collection-2739.
 XBD201311-04337.TIF -- Irradiated HeLa cell showing micro-nuclear structures, 27,000x. Photograph taken June 2, 1960. John H. Lawrence Collection-2740.
 XBD201311-04338.TIF -- Detection of radioactivity in breath after morphine NC14 H3 injection. Photograph taken July 6, 1960. John H. Lawrence Collection-2799.
 XBD201311-04339.TIF -- Detection of radioactivity in breath after morphine NC14 H3 injection. Photograph taken July 6, 1960. John H. Lawrence Collection-2800.
 XBD201311-04340.TIF -- Estrogen chromatography radioautograph. Photograph taken July 12, 1960. John H. Lawrence Collection-2801.
 XBD201311-04341.TIF -- Swinging bucket rotor. Photograph taken July 13, 1960. John H. Lawrence Collection-2803.
 XBD201311-04342.TIF -- Swinging bucket rotor. Photograph taken July 13, 1960. John H. Lawrence Collection-2804.
 XBD201311-04343.TIF -- Swinging bucket rotor. Photograph taken July 13, 1960. John H. Lawrence Collection-2805.
 XBD201311-04344.TIF -- Swinging bucket rotor. Photograph taken July 13, 1960. John H. Lawrence Collection-2806.
 XBD201311-04345.TIF -- Swinging bucket rotor. Photograph taken July 13, 1960. John H. Lawrence Collection-2807.
 XBD201311-04346.TIF -- Control racks, and set up for exposure to biological samples with Tor Brustead. Photograph taken July 27, 1960. John H. Lawrence Collection-2810.
 XBD201311-04347.TIF -- Control racks, and set up for exposure to biological samples. Photograph taken July 27, 1960. John H. Lawrence Collection-2811.
 XBD201311-04348.TIF -- Control racks, and set up for exposure to biological samples. Photograph taken July 27, 1960. John H. Lawrence Collection-2812.
 XBD201311-04349.TIF -- Control racks, and set up for exposure to biological samples. Photograph taken July 27, 1960. John H. Lawrence Collection-2813.
 XBD201311-04350.TIF -- Control racks, and set up for exposure to biological samples. Photograph taken July 27, 1960. John H. Lawrence Collection-2814.
 XBD201311-04351.TIF -- Control racks, and set up for exposure to biological samples. Photograph taken July 27, 1960. John H. Lawrence Collection-2815.
 XBD201311-04352.TIF -- Control racks, and set up for exposure to biological samples. Photograph taken July 27, 1960. John H. Lawrence Collection-2816.
 XBD201311-04353.TIF -- Control racks, and set up for exposure to biological samples. Photograph taken July 27, 1960. John H. Lawrence Collection-2817.
 XBD201311-04354.TIF -- Experimental mice on mineral oil with control and robane. Photograph taken November 10, 1960. John H. Lawrence Collection-2876.
 XBD201311-04355.TIF -- Gas chromatography, flow proportional counter. Photograph taken November 29, 1960. John H. Lawrence Collection-2885.

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XBD201311-04356.TIF -- Gas chromatography, flow proportional counter. Photograph taken November 29, 1960. John H. Lawrence Collection-2886.

XBD201311-04357.TIF -- Mask making machine with unidentified machinist. Photograph taken January 13, 1961. John H. Lawrence Collection-2891.

XBD201311-04358.TIF -- Mask making machine with unidentified machinist. Photograph taken January 13, 1961. John H. Lawrence Collection-2892.

XBD201311-04359.TIF -- Mask making machine. Photograph taken January 13, 1961. John H. Lawrence Collection-2893.

XBD201311-04360.TIF -- Mask making machine. Photograph taken January 13, 1961. John H. Lawrence Collection-2894.

XBD201311-04361.TIF -- Mask in place on J. Lyman. Photograph taken January 19, 1961. John H. Lawrence Collection-2897.

XBD201311-04363.TIF -- Patient in steel room. Photograph taken January 18, 1961. John H. Lawrence Collection-2900.

XBD201311-04364.TIF -- Scintillation camera photo. Associated individual, Hal Anger. Photograph taken February 27, 1961. John H. Lawrence Collection-2909.

XBD201311-04365.TIF -- Scintillation camera photo. Associated individual, Hal Anger. Photograph taken February 27, 1961. John H. Lawrence Collection-2911.

XBD201311-04366.TIF -- Scintillation camera photo. Associated individual, Hal Anger. Photograph taken February 27, 1961. John H. Lawrence Collection-2912.

XBD201311-04367.TIF -- Scintillation camera photo. Associated individual, Hal Anger. Photograph taken February 27, 1961. John H. Lawrence Collection-2913.

XBD201311-04368.TIF -- Gamma ray positron camera. Photograph taken March 7, 1961. John H. Lawrence Collection-2916.

XBD201311-04369.TIF -- Ellis Myers preparing slides. Photograph taken May 15, 1961. John H. Lawrence Collection-2951.

XBD201311-04370.TIF -- Electron micrograph, thoracic duct. Photograph taken May 24, 1961. John H. Lawrence Collection-2960.

XBD201311-04371.TIF -- Electron micrograph, thoracic duct. Photograph taken May 24, 1961. John H. Lawrence Collection-2961.

XBD201311-04372.TIF -- Hal Anger with the gamma ray positron camera. Photograph taken May 23, 1961. John H. Lawrence Collection-2965.

XBD201311-04373.TIF -- Oliver Delala with lypholyzer, freeze drying apparatus. Photograph taken July 24, 1961. John H. Lawrence Collection-3017.

XBD201311-04374.TIF -- Gas chromatography assembly. Photograph taken September 18, 1961. John H. Lawrence Collection-3033.

XBD201311-04375.TIF -- Constant fix assembly on patient's arm. Photograph taken October 16, 1961. John H. Lawrence Collection-3041.

XBD201311-04376.TIF -- Constant fix assembly on Don Van Dyke's arm. Photograph taken October 16, 1961. John H. Lawrence Collection-3040.

XBD201311-04377.TIF -- Constant fix assembly on patient's arm. Photograph taken October 25, 1961. John H. Lawrence Collection-3043.

XBD201311-04378.TIF -- Primate irradiation device. Photograph taken November 3, 1961. John H. Lawrence Collection-3047.

XBD201311-04379.TIF -- Primate irradiation device. Photograph taken November 3, 1961. John H. Lawrence Collection-3048.

XBD201311-04380.TIF -- Y90 DTPA radiation of human subjects. Photograph taken January 8,

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1962. John H. Lawrence Collection-3073.
 XBD201311-04381.TIF -- Y90 DTPA radiation with patient. Photograph taken January 8, 1962. John H. Lawrence Collection-3075.
 XBD201311-04382.TIF -- Strontium "milking." Photograph taken February 1, 1962. John H. Lawrence Collection-3096.
 XBD201311-04383.TIF -- Strontium "milking." Photograph taken February 1, 1962. John H. Lawrence Collection-3097.
 XBD201311-04384.TIF -- Color separating apparatus. Photograph taken March 1, 1962. John H. Lawrence Collection-3121.
 XBD201311-04385.TIF -- Gas chromatographic apparatus M-2 with Frank Lindgren. Photograph taken May 7, 1962. John H. Lawrence Collection-3154.
 XBD201401-00011.TIF -- Gas chromatographic apparatus M-2. Photograph taken May 7, 1962. John H. Lawrence Collection-3155.
 XBD201401-00012.TIF -- Rotating wheel for X-Irradiation of mice for LD50 studies. Photograph taken May 8, 1962. John H. Lawrence Collection-3163.
 XBD201401-00013.TIF -- Rotating wheel for X-ray irradiation of mice for LD50 studies. Photograph taken May 8, 1962. John H. Lawrence Collection-3165.
 XBD201401-00014.TIF -- Individual caging of mice for LD50 studies. Photograph taken May 8, 1962. John H. Lawrence Collection-3167.
 XBD201401-00015.TIF -- Exposure apparatus for LD50 studies with 184-inch cyclotron radiation. Photograph taken May 21, 1962. John H. Lawrence Collection-3171.
 XBD201401-00016.TIF -- Beta particle detector. Photograph taken September 13, 1962. John H. Lawrence Collection-3213.
 XBD201401-00017.TIF -- Researchers observing subject in high altitude chamber. Photograph taken October 24, 1962. John H. Lawrence Collection-3252.
 XBD201401-00018.TIF -- High altitude chamber, Reed Johnson. Photograph taken October 24, 1962. John H. Lawrence Collection-3254.
 XBD201401-00019.TIF -- High altitude chamber, Reed Johnson. Photograph taken October 24, 1962. John H. Lawrence Collection-3256.
 XBD201401-00020.TIF -- High altitude chamber. Photograph taken October 24, 1962. John H. Lawrence Collection-3257. See also; XBD9609-04559.TIF.
 XBD201401-00021.TIF -- High altitude chamber. Photograph taken October 24, 1962. John H. Lawrence Collection-3258.
 XBD201401-00022.TIF -- Preparative ultra centrifuge. Photograph taken November 5, 1962. John H. Lawrence Collection-3267.
 XBD201401-00023.TIF -- Gas-liquid chromatography, Frank Lindgren. Photograph taken November 5, 1962. John H. Lawrence Collection-3269.
 XBD201401-00024.TIF -- Ultra centrifuge plate reading. Photograph taken November 5, 1962. John H. Lawrence Collection-3271.
 XBD201401-00025.TIF -- Electron microscope, Tom Hayes. Photograph taken November 5, 1962. John H. Lawrence Collection-3275.
 XBD201401-00026.TIF -- Electrophoresis equipment. Photograph taken May 1961. John H. Lawrence Collection-3277.
 XBD201401-00027.TIF -- Electrophoresis equipment. Photograph taken May 1961. John H. Lawrence Collection-3278.
 XBD201401-00028.TIF -- Interior views of student lab at Donner. Photograph taken December 10, 1962. John H. Lawrence Collection-3342.

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XBD201401-00029.TIF -- Baseline values for high altitude studies-EKG. Photograph taken January 7, 1963. John H. Lawrence Collection-3392.

XBD201401-00030.TIF -- Clinic Iron Turn Over Study with Will Siri. Photograph taken January 7, 1963. John H. Lawrence Collection-3393.

XBD201401-00031.TIF -- Baseline values for high altitude studies-EKG. Photograph taken January 7, 1963. John H. Lawrence Collection-3394.

XBD201401-00032.TIF -- Diagnostic x-ray rig. Photograph taken December 12, 1963. John H. Lawrence Collection-3395.

XBD201401-00035.TIF -- Cross section of monkey's head. Photograph taken January 23, 1963. John H. Lawrence Collection-3416.

XBD201401-00036.TIF -- Precision Abbe' refractometer lipoprotein determination. Photograph taken January 28, 1963. John H. Lawrence Collection-3424.

XBD201401-00037.TIF -- Precision Abbe' refractometer lipoprotein determination. Photograph taken January 28, 1963. John H. Lawrence Collection-3427.

XBD201401-00038.TIF -- Time-lapse sequence taken with scintillation camera. Photograph taken February 11, 1963. John H. Lawrence Collection-3435.

XBD201401-00039.TIF -- X-ray spectrophotometer and counting equipment. Photograph taken February 28, 1963. John H. Lawrence Collection-3457.

XBD201401-00040.TIF -- X-ray spectrophotometer and counting equipment. Photograph taken February 28, 1963. John H. Lawrence Collection-3458.

XBD201401-00041.TIF -- Tube for the electron irradiation of the following mixtures: methane, ammonia, water, and hydrogen. Photograph taken March 25, 1963. John H. Lawrence Collection-3495.

XBD201401-00042.TIF -- Tube for the electron irradiation of the following mixtures: methane, ammonia, water, and hydrogen. Photograph taken March 25, 1963. John H. Lawrence Collection-3496.

XBD201401-00043.TIF -- Microtome attachment. Photograph taken March 28, 1963. John H. Lawrence Collection-3498.

XBD201401-00044.TIF -- Patient positioner. Photograph taken April 17, 1963. John H. Lawrence Collection-3534.

XBD201401-00045.TIF -- Mouse exposure geometrical configuration with plastic cages in place. Photograph taken April 16, 1963. John H. Lawrence Collection-3535.

XBD201401-00046.TIF -- Mouse exposure geometrical configuration with plastic cages in place. Photograph taken April 16, 1963. John H. Lawrence Collection-3537.

XBD201401-00047.TIF -- Mouse exposure geometrical configuration with plastic cages in place. Photograph taken April 16, 1963. John H. Lawrence Collection-3538.

XBD201401-00048.TIF -- Mouse exposure geometrical configuration with plastic cages in place. Photograph taken April 16, 1963. John H. Lawrence Collection-3540.

XBD201401-00049.TIF -- Composite image of patient. Photograph taken April 23, 1963. John H. Lawrence Collection-3541.

XBD201401-00050.TIF -- Micro-electrophoresis apparatus close up. Photograph taken June 5, 1963. John H. Lawrence Collection-3632.

XBD201401-00056.TIF -- Micro-electrophoresis apparatus close up. Photograph taken June 5, 1963. John H. Lawrence Collection-3633.

XBD201401-00057.TIF -- Micro-electrophoresis apparatus close up. Photograph taken June 5, 1963. John H. Lawrence Collection-3634.

XBD201401-00058.TIF -- Micro-electrophoresis apparatus close up. Photograph taken June 5, 1963.

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John H. Lawrence Collection-3635.
 XBD201401-00059.TIF -- Micro-electrophoresis apparatus close up. Photograph taken August 21, 1963. John H. Lawrence Collection-3635A.
 XBD201401-00060.TIF -- Automatic intravenous urine recycling unit. Photograph taken June 12, 1963. John H. Lawrence Collection-3636.
 XBD201401-00061.TIF -- Automatic intravenous urine recycling unit. Photograph taken June 12, 1963. John H. Lawrence Collection-3637.
 XBD201401-00062.TIF -- Variable ionization chamber AA D88. Photograph taken June 13, 1963. John H. Lawrence Collection-3638.
 XBD201401-00063.TIF -- Rat skeleton. Fe52 x-ray of rat. Photograph taken June 3, 1963. John H. Lawrence Collection-3639.
 XBD201401-00064.TIF -- Patient positioning apparatus model. Photograph taken June 19, 1963. John H. Lawrence Collection-3670.
 XBD201401-00065.TIF -- Patient positioning apparatus model. Photograph taken June 19, 1963. John H. Lawrence Collection-3678.
 XBD201401-00066.TIF -- Patient positioning apparatus model. Photograph taken June 19, 1963. John H. Lawrence Collection-3683.
 XBD201401-00067.TIF -- Patient positioning apparatus model. Photograph taken June 19, 1963. John H. Lawrence Collection-3685.
 XBD201401-00068.TIF -- Artery perfusion apparatus. Photograph taken June 11, 1963. John H. Lawrence Collection-3690.
 XBD201401-00069.TIF -- Artery perfusion apparatus. Photograph taken June 11, 1963. John H. Lawrence Collection-3691.
 XBD201401-00070.TIF -- Staflophoresis diffusion gravity reaction. Photograph taken June 20, 1963. John H. Lawrence Collection-3723.
 XBD201401-00071.TIF -- Staflophoresis diffusion gravity reaction. Photograph taken June 20, 1963. John H. Lawrence Collection-3725.
 XBD201401-00072.TIF -- Staflophoresis diffusion gravity reaction. Photograph taken June 20, 1963. John H. Lawrence Collection-3727.
 XBD201401-00073.TIF -- Rotary head positioner. Photograph taken July 24, 1963. John H. Lawrence Collection-3742.
 XBD201401-00074.TIF -- Rotary head positioner. Photograph taken July 24, 1963. John H. Lawrence Collection-3743.
 XBD201401-00075.TIF -- Rotary head positioner. Photograph taken July 24, 1963. John H. Lawrence Collection-3744.
 XBD201401-00076.TIF -- Cyclotron medical facility model. Photograph taken August 6, 1963. John H. Lawrence Collection-3745.
 XBD201401-00077.TIF -- Cyclotron medical facility model. Photograph taken August 6, 1963. John H. Lawrence Collection-3747.
 XBD201401-00078.TIF -- Dr. De Lalla and lyophilization apparatus. Photograph taken September 16, 1963. John H. Lawrence Collection-3797.
 XBD201401-00079.TIF -- Chamber for radiation of tumor cells. Photograph taken September 18, 1963. John H. Lawrence Collection-3801.
 XBD201401-00080.TIF -- Proton cow. Photograph taken September 11, 1963. John H. Lawrence Collection-3811.
 XBD201401-00081.TIF -- Blood and bone marrow separator. Photograph taken September 11, 1963. John H. Lawrence Collection-3813.

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XBD201401-00082.TIF -- Blood and bone marrow separator. Photograph taken September 11, 1963. John H. Lawrence Collection-3815.

XBD201401-00083.TIF -- Whole body counter, Tony Sargent. Photograph taken September 11, 1963. John H. Lawrence Collection-3822.

XBD201401-00084.TIF -- Whole body counter. Photograph taken September 11, 1963. John H. Lawrence Collection-3824.

XBD201401-00085.TIF -- Positron-detecting scintillation camera, a highly sensitive electronic instrument developed especially to exploit short-lived radioisotopes that decay by producing positrons, or positive electrons. Photograph taken September 11, 1963. John H. Lawrence Col

XBD201401-00086.TIF -- Positron-detecting scintillation camera, a highly sensitive electronic instrument developed especially to exploit short-lived radioisotopes that decay by producing positrons, or positive electrons. Photograph taken September 11, 1963. John H. Lawrence Col

XBD201401-00087.TIF -- Positron-detecting scintillation camera, a highly sensitive electronic instrument developed especially to exploit short-lived radioisotopes that decay by producing positrons, or positive electrons. Photograph taken September 11, 1963. John H. Lawrence Col

XBD201401-00088.TIF -- Will Siri's "coffin." Photograph taken September 11, 1963. John H. Lawrence Collection-3834.

XBD201401-00089.TIF -- Will Siri's "coffin" with a patient inside. Photograph taken September 11, 1963. John H. Lawrence Collection-3835.

XBD201401-00090.TIF -- Patient positioner model. Photograph taken September 26, 1963. John H. Lawrence Collection-3838.

XBD201401-00091.TIF -- Patient positioner model. Photograph taken September 26, 1963. John H. Lawrence Collection-3839.

XBD201401-00092.TIF -- Multiprobe detector, nicknamed "monster," with patient. Photograph taken October 23, 1963. John H. Lawrence Collection-3899.

XBD201401-00093.TIF -- Multiprobe detector, nicknamed "monster," with patient. Photograph taken October 23, 1963. John H. Lawrence Collection-3901.

XBD201401-00097.TIF -- Whole body scanner. Photograph taken October 23, 1963. John H. Lawrence Collection-3909.

XBD201401-00098.TIF -- Electro-encephalography with patient. Photograph taken January 10, 1964. John H. Lawrence Collection-4062.

XBD201401-00099.TIF -- Piero Arioti at controls of the electro-encephalogram. Photograph taken January 10, 1964. John H. Lawrence Collection-4064.

XBD201401-00100.TIF -- Focal detector assembly with 9 x 1.5-inch crystal. Photograph taken January 18, 1964. John H. Lawrence Collection-4080.

XBD201401-00101.TIF -- Focal detector assembly with 9 x 1.5-inch crystal. Photograph taken January 18, 1964. John H. Lawrence Collection-4086.

XBD201401-00102.TIF -- Hemispherical gas chromatographic column. Photograph taken January 30, 1964. John H. Lawrence Collection-4129.

XBD201401-00103.TIF -- Hemispherical gas chromatographic column. Photograph taken January 30, 1964. John H. Lawrence Collection-4130.

XBD201401-00104.TIF -- Positron cow. Photograph taken January 28, 1964. John H. Lawrence Collection-4131.

XBD201401-00105.TIF -- Carbon 14 breath analysis. Photograph taken January 28, 1964. John H. Lawrence Collection-4133.

XBD201401-00106.TIF -- Infusion pump. Photograph taken March 3, 1964. John H. Lawrence Collection-4176.

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XBD201401-00107.TIF -- Infusion pump. Photograph taken March 3, 1964. John H. Lawrence Collection-4177.

XBD201401-00108.TIF -- Sample holder and cavity for helium dewar. Photograph taken March 12, 1963. John H. Lawrence Collection-4191.

XBD201401-00109.TIF -- Inside helium dewar system EPR research. Photograph taken March 12, 1963. John H. Lawrence Collection-4192.

XBD201401-00110.TIF -- Cardiac output set up in "monster" room. Photograph taken March 24, 1964. John H. Lawrence Collection-4202.

XBD201401-00111.TIF -- Images of brain lesion taken with Hg203 neohydrin showing (a) left lateral view, (b) frontal view, and (c) back view. The six images of each view were obtained simultaneously by a 5-minute exposure. A prominent lesion and two marker sources are shown in e

XBD201401-00112.TIF -- Images of (a) adult liver taken after administration of 250 microcuries of I131 rose bengal. Exposure time was 10 minutes. (b) a 5-minute exposure of adult liver after administration of 200 microcuries of rose bengal. A defect is visible at upper left. As

XBD201401-00113.TIF -- (a and b) Images of normal human kidneys taken with Hg203 Neohydrin. Exposure times were 10 and 2 minutes. (c) Renal and pelvis of diseased kidney shown in a 5-minute exposure 20 minutes after administration of 200 microcuries of I131 hippuran. Associated

XBD201401-00114.TIF -- Time lapse sequence showing I131 hippuran going through human kidneys (top). Exposure time was 30 seconds per picture. Time lapse sequence showing excretion of I131 rose bengal from liver of a girl (bottom). Exposure time was two minutes per picture. Asso

XBD201401-00115.TIF -- Hilac exposure apparatus. Photograph taken April 16, 1964. John H. Lawrence Collection-4257.

XBD201401-00116.TIF -- Dishes with colonies. Photograph taken April 16, 1964. H eLa cell research. John H. Lawrence Collection-4259.

XBD201401-00117.TIF -- Time-lapse photograph of I131 uptake in kidney with additional stills of 3-5 minutes and 12-15 minutes. Photograph taken April 20, 1964. John H. Lawrence Collection-4278.

XBD201401-00118.TIF -- Image of patient in full-body scanner. Photograph taken May 11, 1964. John H. Lawrence Collection-4297.

XBD201401-00119.TIF -- Graphs showing effect of irradiation to sciatic nerve. Photograph taken May 13, 1964. John H. Lawrence Collection-4298.

XBD201401-00120.TIF -- Papillary necrosis with papillary slough secondary to vascular occlusion of dorsal renal artery. Photograph taken May 27, 1964. John H. Lawrence Collection-4337.

XBD201401-00121.TIF -- Plate 1 detail of sensitometry. Photograph taken May 29, 1964. John H. Lawrence Collection-4341.

XBD201401-00122.TIF -- Rat on tread mill. Photograph taken June 4, 1964. John H. Lawrence Collection-4347.

XBD201401-00125.TIF -- Dr. Rooth with PH meter. Photograph taken June 11, 1964. John H. Lawrence Collection-4349.

XBD201401-00126.TIF -- PH meter. Associated individual: Dr. Rooth. Photograph taken June 11, 1964. John H. Lawrence Collection-4350.

XBD201401-00127.TIF -- Tomometer. Photograph taken June 11, 1964. John H. Lawrence Collection-4351.

XBD201401-00128.TIF -- Muscle homogenizer. Photograph taken June 11, 1964. John H. Lawrence Collection-4352.

XBD201401-00129.TIF -- Ionization chamber. Photograph taken June 6, 1964. John H. Lawrence Collection-4353.

XBD201401-00130.TIF -- Lithium drifted detector and associated equipment. Photograph taken

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June 6, 1964. John H. Lawrence Collection-4354.
 XBD201401-00131.TIF -- Detail of sensitometer. (a) The side of the sector-wheel unit that attaches to the front of the camera. (b) The side of the sector-wheel unit that attaches to the back of the versal bellows unit. (c) Details of the sector wheel. (d) The sector-wheel unit
 XBD201401-00132.TIF -- X-ray showing location of electrode in cat's brain showing proper alignment with the 184-inch beam. Photograph taken August 27, 1964. John H. Lawrence Collection-4413.
 XBD201401-00133.TIF -- X-ray showing location of electrode in cat's brain showing proper alignment with the 184-inch beam. Photograph taken August 27, 1964. John H. Lawrence Collection-4414.
 XBD201401-00134.TIF -- Reproductive organs of fruit flies. Photograph taken September 30, 1964. John H. Lawrence Collection-4445.
 XBD201401-00136.TIF -- Reproductive organs of fruit flies. Photograph taken September 30, 1964. John H. Lawrence Collection-4447.
 XBD201401-00137.TIF -- Reproductive organs of fruit flies. Photograph taken September 30, 1964. John H. Lawrence Collection-4448.
 XBD201401-00138.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4578.
 XBD201401-00139.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4580.
 XBD201401-00140.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4582.
 XBD201401-00141.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4586.
 XBD201401-00142.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4587.
 XBD201401-00143.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4588.
 XBD201401-00144.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4589.
 XBD201401-00145.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4591.
 XBD201401-00146.TIF -- Sta-flo free boundary. Photograph taken October 13, 1964. John H. Lawrence Collection-4592.
 XBD201401-00147.TIF -- Model-E ultra centrifuge camera assembly. Photograph taken December 15, 1964. John H. Lawrence Collection-4675.
 XBD201401-00148.TIF -- Model-E ultra centrifuge camera assembly. Photograph taken December 15, 1964. John H. Lawrence Collection-4670.
 XBD201401-00149.TIF -- Model-E ultra centrifuge camera assembly. Photograph taken December 15, 1964. John H. Lawrence Collection-4671.
 XBD201401-00150.TIF -- Model-E ultra centrifuge camera assembly. Photograph taken December 15, 1964. John H. Lawrence Collection-4672.
 XBD201401-00151.TIF -- Rabbit "Barany chair." Photograph taken November 30, 1964. John H. Lawrence Collection-4649.
 XBD201401-00152.TIF -- Rabbit "Barany chair." Photograph taken November 30, 1964. John H. Lawrence Collection-4648.

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Box

- 5 JHL 4. Photos--
- XBD201401-00153.TIF -- Patient in medical cave. Jan Connell and Wade Pratt. Photograph taken February 9, 1965. John H. Lawrence Collection-4770.
- XBD201401-00154.TIF -- Patient in medical cave. Jan Connell and Wade Pratt. Photograph taken February 9, 1965. John H. Lawrence Collection-4771.
- XBD201401-00155.TIF -- Patient in medical cave. Photograph taken February 9, 1965. John H. Lawrence Collection-4773.
- XBD201401-00156.TIF -- Volumetric manometer. Photograph taken February 17, 1965. John H. Lawrence Collection-4804.
- XBD201401-00157.TIF -- Model of DNA. Photograph taken February 19, 1965. John H. Lawrence Collection-4821.
- XBD201401-00158.TIF -- Electron microscopy of surface of red blood corpuscle. Photograph taken March 11, 1965. John H. Lawrence Collection-4850.
- XBD201401-00159.TIF -- Electron microscopy of surface of red blood corpuscle. Photograph taken March 11, 1965. John H. Lawrence Collection-4851.
- XBD201401-00160.TIF -- Volumetric manometer. Photograph taken March 15, 1965. John H. Lawrence Collection-4887.
- XBD201401-00161.TIF -- Artery perfusion apparatus. Photograph taken March 17, 1965. John H. Lawrence Collection-4911.
- XBD201401-00162.TIF -- Artery perfusion apparatus. Photograph taken March 17, 1965. John H. Lawrence Collection-4912.
- XBD201401-00163.TIF -- First Parkinson's disease patient's head alignment. Photograph taken March 18, 1965. John H. Lawrence Collection-4913.
- XBD201401-00164.TIF -- First Parkinson's disease patient's head alignment. Photograph taken March 18, 1965. John H. Lawrence Collection-4914.
- XBD201401-00165.TIF -- First Parkinson's disease patient's head alignment. Photograph taken March 18, 1965. John H. Lawrence Collection-4915.
- XBD201401-00166.TIF -- First Parkinson's disease patient's head alignment. Photograph taken March 18, 1965. John H. Lawrence Collection-4917.
- XBD201401-00167.TIF -- Proposed sun-shading of Donner Laboratory's west wall. Photograph taken March 13, 1965. John H. Lawrence Collection-4930.
- XBD201401-00179.TIF -- Artificial insemination equipment. Photograph taken March 22, 1965. John H. Lawrence Collection-4935.
- XBD201401-00180.TIF -- Blackboard diagraming first Parkinson's disease treatment. Photograph taken March 23, 1965. John H. Lawrence Collection-4937.
- XBD201401-00181.TIF -- A six lens image showing F18 in a rat. Photograph taken March 25, 1965. John H. Lawrence Collection-4939.
- XBD201401-00182.TIF -- Distribution of F18 in a 4-year-old with hematologic disease. Pictures were taken 1 to 2 hours after injection, and exposure time was 4 to 6 minutes per field. Positron coincidence collimation was used with "plane of best focus" set at about 4 inches. Pho
- XBD201401-00183.TIF -- Distribution of erythropoietic bone marrow in a man with long-term chronic severe blood loss. Photograph taken March 25, 1965. John H. Lawrence Collection-4948.
- XBD201401-00184.TIF -- Electron micrograph of osium tetroxide fixed serum lipoproteins and 880 A polystyrene latex marker molecule. Photograph taken April 21, 1965. John H. Lawrence Collection-4990.
- XBD201401-00185.TIF -- Tagging of growth hormone, Joe Garcia. Photograph taken April 26, 1965. John H. Lawrence Collection-5005.

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XBD201401-00186.TIF -- Tagging of growth hormone with iodine-125, Joe Garcia. Photograph taken April 26, 1965. John H. Lawrence Collection-5007.

XBD201401-00187.TIF -- Addition antibody to growth hormone samples, Patti Risius-Powers. Photograph taken April 26, 1965. John H. Lawrence Collection-5009.

XBD201401-00188.TIF -- Counting growth hormone samples, Joe Garcia. Photograph taken April 26, 1965. John H. Lawrence Collection-5011.

XBD201401-00189.TIF -- C14 O2 Breath analyzer, Myron Pollycove and patient. Photograph taken April 29, 1965. John H. Lawrence Collection-5014.

XBD201401-00190.TIF -- Silicon solid detector for measurements of secondary electrons. Photograph taken May 10, 1965. John H. Lawrence Collection-5045.

XBD201401-00191.TIF -- Whole body scanner and patient. Associated individual: Hal Anger. Photograph taken June 9, 1965. John H. Lawrence Collection-5086.

XBD201401-00192.TIF -- Whole body scanner and patient, with Hal Anger. Photograph taken June 9, 1965. John H. Lawrence Collection-5088.

XBD201401-00193.TIF -- Patient imaged by the turret scintillation camera, with Jan Connell. Photograph taken June 9, 1965. John H. Lawrence Collection-5090.

XBD201401-00194.TIF -- Ultracentrifuge telemetry equipment. Photograph taken June 4, 1965. John H. Lawrence Collection-5095.

XBD201401-00195.TIF -- Rotor with transmitter attached. Associated individual, Jacob Fabrikant. Photograph taken June 4, 1965. John H. Lawrence Collection-5097.

XBD201401-00196.TIF -- Photo scans of the abdomen using the Anger positron camera, following an oral dose of F52. From left to right, 15 minutes after dose, 30 minutes after dose, and about 1 hours after dose. Photograph taken June 23, 1965. John H. Lawrence Collection-5110.

XBD201401-00197.TIF -- X-ray photograph of the gastro-intestinal tract following a barium meal, taken from Davenport's physiology of the digestive system tract. Photograph taken June 23, 1965. John H. Lawrence Collection-5112.

XBD201401-00198.TIF -- Boring and pinning ultracentrifuge rotor. Associated individual, Frank Lindgren. Photograph taken July 14, 1965. John H. Lawrence Collection-5178.

XBD201401-00199.TIF -- Boring and pinning ultracentrifuge rotor. Associated individual, Frank Lindgren. Photograph taken July 14, 1965. John H. Lawrence Collection-5179.

XBD201401-00200.TIF -- Ultracentrifuge temperature monitor. Associated individual, Frank Lindgren. Photograph taken August 2, 1965. John H. Lawrence Collection-5191.

XBD201401-00201.TIF -- Scintillation camera display boards: Metastatic Thyroid Carcinoma. Photograph taken September 13, 1965. John H. Lawrence Collection-5200.

XBD201401-00202.TIF -- Pipetting stand and rotor. Photograph taken August 2, 1965. John H. Lawrence Collection-5203.

XBD201401-00203.TIF -- White female, aged 21, with secondary polycythemia showing extension of bone marrow down humerus and femurs. Photograph taken August 16, 1965. John H. Lawrence Collection-5215.

XBD201401-00204.TIF -- The time of flight of the different particles in the negative pion beam after different thickness of lucite absorber: 2-1/8, 6-1/8, 8-5/8, and 13-1/8 inches. The scale setting on the PHA was 100,000 counts full scale for the run with 2-1/8 inches of lucit

XBD201401-00205.TIF -- Stable-flow free-boundary staflo apparatus with individual parts numbered. 1) Staflo cell; 2) Staflo cell clamp and supporting leveling stand; 3) Collection system on leveling table; 4) Syringe drive; 5) Solution pump syringes; 6) Solution reservoirs; 7)

XBD201401-00206.TIF -- Distribution of Fe-52 in polycythemic patient with anonalous marrow site above left knee. Associated individual: Hal Anger. Photograph taken August 20, 1965. John H.

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Lawrence Collection-5224.
 XBD201401-00207.TIF -- Pion radiation biology experiment at Building 6. Photograph taken August 23, 1965. John H. Lawrence Collection-5236.
 XBD201401-00208.TIF -- Pion radiation biology experiment at Building 6. Photograph taken August 23, 1965. John H. Lawrence Collection-5237.
 XBD201401-00209.TIF -- Close up of Staflo "dye stripe" experiment at inlet end. Photograph taken September 1, 1965. John H. Lawrence Collection-5238.
 XBD201401-00210.TIF -- Steady-state Staflo electrophoretic migration pattern for a sample of low density lipoprotein solution viewed by scattered light. Image shows the effect of the programmed electric field when the first 40% of the electrodes have been shorted out. Photograph XBD201401-00211.TIF -- Dye stripe experiments. Side view of Staflo cell with steady-state flow pattern established. Photograph taken September 13, 1965. John H. Lawrence Collection-5258.
 XBD201401-00212.TIF -- John Lawrence and students dissecting mice in the lab. Photograph taken September 15, 1965. John H. Lawrence Collection-5291.
 XBD201401-00213.TIF -- Hal Anger's scintillation camera. Photograph taken August 30, 1965. John H. Lawrence Collection-5292.
 XBD201401-00214.TIF -- Mark II, whole body scanner, controls. Associated individual: Hal Anger. Photograph taken August 30, 1965. John H. Lawrence Collection-5293.
 XBD201401-00215.TIF -- Scintillation camera. Associated individual: Hal Anger. Photograph taken August 30, 1965. John H. Lawrence Collection-5295.
 XBD201401-00216.TIF -- Hal Anger's scintillation camera. Photograph taken August 30, 1965. John H. Lawrence Collection-5303.
 XBD201401-00217.TIF -- Hal Anger with patient and Mark II, whole body scanner, controls. Photograph taken August 30, 1965. John H. Lawrence Collection-5307.
 XBD201401-00218.TIF -- Chromic phosphate preparation in Berkeley box. Photograph taken September 21, 1965. John H. Lawrence Collection-5343.
 XBD201401-00219.TIF -- Chromic phosphate preparation in Berkeley box. Photograph taken September 21, 1965. John H. Lawrence Collection-5346.
 XBD201401-00220.TIF -- Telemetry transmitter for ultracentrifuge. Photograph taken September 29, 1965. John H. Lawrence Collection-5380.
 XBD201401-00221.TIF -- Telemetry transmitter for ultracentrifuge. Photograph taken September 29, 1965. John H. Lawrence Collection-5381.
 XBD201401-00222.TIF -- Telemetry transmitter for ultracentrifuge. Photograph taken September 29, 1965. John H. Lawrence Collection-5382.
 XBD201401-00223.TIF -- Group of medical researchers standing around First Parkinson's disease patient, John Lawrence (far left in rear) and Cornelius Tobias (right). Photograph taken March 24, 1965. John H. Lawrence Collection-5449.
 XBD201401-00224.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5451.
 XBD201401-00225.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5452.
 XBD201401-00226.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5454.
 XBD201401-00227.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5456.
 XBD201401-00228.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5457.

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XBD201401-00229.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5458.

XBD201401-00230.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5459.

XBD201401-00231.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5461.

XBD201401-00232.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5462.

XBD201401-00233.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5463.

XBD201401-00234.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5464.

XBD201401-00235.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5466.

XBD201401-00237.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5472.

XBD201401-00238.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5480.

XBD201401-00239.TIF -- John H. Lawrence, left and associate discussing research related to first Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5482.

XBD201401-00240.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5484.

XBD201401-00241.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5488.

XBD201402-00251.TIF -- John Lawrence, right in discussion related to first Parkinson's disease patient treatment. Photograph taken March 24, 1965.. John H. Lawrence Collection-5489.

XBD201402-00252.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5490.

XBD201402-00253.TIF -- First Parkinson's disease patient treatment. John Lawrence on his right. Photograph taken March 24, 1965. John H. Lawrence Collection-5499.

XBD201402-00254.TIF -- John Lawrence, center in discussion related to first Parkinson's disease patient treatment. Photograph taken March 24, 1965. John H. Lawrence Collection-5501.

XBD201402-00255.TIF -- Researchers adjusting head mask on first Parkinson's disease patient. John Lawrence, left and Cornelius Tobias center. Photograph taken March 24, 1965. John H. Lawrence Collection-5507.

XBD201402-00256.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5512.

XBD201402-00257.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5515.

XBD201402-00258.TIF -- First Parkinson's disease patient. John Lawrence, center. Photograph taken March 24, 1965. John H. Lawrence Collection-5519.

XBD201402-00259.TIF -- John Lawrence, right in discussion related to first Parkinson's disease patient treatment. Photograph taken March 24, 1965. John H. Lawrence Collection-5520.

XBD201402-00260.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5521.

XBD201402-00261.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5531.

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XBD201402-00262.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5540.

XBD201402-00263.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5541.

XBD201402-00264.TIF -- First Parkinson's disease patient. Photograph taken March 24, 1965. John H. Lawrence Collection-5542.

XBD201402-00265.TIF -- Electron-micrograph showing shadowed carbon replica of rat red blood cell. Photograph taken October 8, 1965. John H. Lawrence Collection-5546.

XBD201402-00266.TIF -- Electron-micrograph of carbon replica of cells taken from mouse TA3 ascites tumor (shadowed). Photograph taken November 8, 1965. John H. Lawrence Collection-5598.

XBD201402-00267.TIF -- Electron-micrograph of carbon replica of cells taken from mouse TA3 ascites tumor (shadowed red blood cell). Photograph taken November 8, 1965. John H. Lawrence Collection-5599.

XBD201402-00268.TIF -- Electron-micrograph of carbon replica of cells taken from mouse TA3 ascites tumor (unshadowed). Photograph taken November 8, 1965. John H. Lawrence Collection-5600.

XBD201402-00269.TIF -- Diode mounted on B and C connector. Photograph taken November 3, 1965. John H. Lawrence Collection-5616.

XBD201402-00272.TIF -- Diode mounted on B and C connector. Photograph taken November 3, 1965. John H. Lawrence Collection-5617.

XBD201402-00273.TIF -- Computer-controller and IR photometer. Photograph taken November 9, 1965. John H. Lawrence Collection-5618.

XBD201402-00274.TIF -- Computer-controller and IR photometer. Photograph taken November 9, 1965. John H. Lawrence Collection-5620.

XBD201402-00275.TIF -- Right lateral view of a female patient with myrlosclerosis, showing liver storage of Fe52 and areas of erythropoiesitic peripheral joints. Central bone marrow areas do not show normal Fe52 uptake. Photograph taken November 18, 1965. John H. Lawrence Colle

XBD201402-00276.TIF -- Densichron set up for growth determination. Photograph taken November 22, 1965. John H. Lawrence Collection-5692.

XBD201402-00277.TIF -- Densichron set up for growth determination. Photograph taken November 22, 1965. John H. Lawrence Collection-5693.

XBD201402-00278.TIF -- Whole body scanner. Photograph taken December 22, 1965. John H. Lawrence Collection-5695.

XBD201402-00279.TIF -- Cloner for tissue culture. Photograph taken December 21, 1965. John H. Lawrence Collection-5696.

XBD201402-00280.TIF -- Cloner for tissue culture. Photograph taken December 21, 1965. John H. Lawrence Collection-5697.

XBD201402-00281.TIF -- Carbon replicas of cell surfaces, red blood cells from ethanol. Photograph taken January 6, 1966. John H. Lawrence Collection-5701.

XBD201402-00282.TIF -- Carbon replicas of cell surfaces, lymph node cell. Photograph taken January 6, 1966. John H. Lawrence Collection-5702.

XBD201402-00283.TIF -- Carbon replicas of cell surfaces, red blood cells. Photograph taken January 6, 1966. John H. Lawrence Collection-5703.

XBD201402-00284.TIF -- Photo scans of the abdomen using the Anger positron camera from 30 min. to 2.5 hr. exposure. Photograph taken January 25, 1966. John H. Lawrence Collection-5779.

XBD201402-00285.TIF -- Photo scans of the abdomen using the Anger positron camera from 1 hr. exposure to 9 hr. exposure. Photograph taken January 25, 1966. John H. Lawrence Collection-5780.

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XBD201402-00286.TIF -- Four whole body scans showing 30 mins. through 12 hrs. Photograph taken January 25, 1966. John H. Lawrence Collection-5781.

XBD201402-00287.TIF -- Two scans of human subjects: 24 and 48 hours after i.v. injections of Fe52. Photograph taken January 25, 1966. John H. Lawrence Collection-5782.

XBD201402-00288.TIF -- H65-H-1 99m. 4m C Tc, Cardiomegaly. Photograph taken January 25, 1966. John H. Lawrence Collection-5783.

XBD201402-00291.TIF -- Tc65-H-12, 9 mC, Hemolytic anemia. Photograph taken January 25, 1966. John H. Lawrence Collection-5784.

XBD201402-00292.TIF -- AEC Bio-Medical Directors' Meeting, University of California Lawrence Radiation Laboratory4. Photograph taken February 8, 1966. John H. Lawrence Collection-5853.

XBD201402-00298.TIF -- Body scans of animal subject. Associated individual: Hal Anger. Photograph taken February 28, 1966. John H. Lawrence Collection-5866.

XBD201402-00299.TIF -- Liver phantom positioned scintillation camera mount. Photograph taken March 29, 1966. John H. Lawrence Collection-5995.

XBD201402-00300.TIF -- Liver phantom positioned scintillation camera mount. Photograph taken March 29, 1966. John H. Lawrence Collection-5996.

XBD201402-00301.TIF -- Liver phantom positioned scintillation camera mount. Photograph taken March 29, 1966. John H. Lawrence Collection-5997.

XBD201402-00302.TIF -- Liver phantom positioned scintillation camera mount. Photograph taken March 29, 1966. John H. Lawrence Collection-5998.

XBD201402-00303.TIF -- Static data acquisition equipment for scintillation camera. Photograph taken March 29, 1966. John H. Lawrence Collection-5999.

XBD201402-00304.TIF -- Liver phantom. Photograph taken March 29, 1966. John H. Lawrence Collection-6000.

XBD201402-00305.TIF -- Liver phantom. Photograph taken March 29, 1966. John H. Lawrence Collection-6001.

XBD201402-00306.TIF -- Liver phantom. Photograph taken March 29, 1966. John H. Lawrence Collection-6002.

XBD201402-00307.TIF -- Three scans of human subject 20 min. to 5 hrs. Photograph taken April 7, 1966. John H. Lawrence Collection-6029.

XBD201402-00308.TIF -- Two body scans 15 min. to 7.5 hrs. Photograph taken April 7, 1966. John H. Lawrence Collection-6030.

XBD201402-00309.TIF -- Shadowed lymphocyte. Photograph taken April 15, 1966. John H. Lawrence Collection-6034.

XBD201402-00310.TIF -- Shadowed lymphocyte. Photograph taken April 15, 1966. John H. Lawrence Collection-6038.

XBD201402-00311.TIF -- Shadowed lymphocyte. Photograph taken April 15, 1966. John H. Lawrence Collection-6039.

XBD201402-00312.TIF -- Shadowed lymphocyte. Photograph taken April 15, 1966. John H. Lawrence Collection-6040.

XBD201402-00313.TIF -- ESP (Electron Spin Resonance), Barry Jones. Photograph taken May 24, 1966. John H. Lawrence Collection-6170.

XBD201402-00314.TIF -- Loading mammalian cell culture on vibrator. Photograph taken May 24, 1966. John H. Lawrence Collection-6172.

XBD201402-00315.TIF -- Counting stained colonies of mammalian cells, Paul Todd. Photograph taken May 24, 1966. John H. Lawrence Collection-6174.

XBD201402-00316.TIF -- Mammalian cell exposure apparatus at HILAC, Paul Todd. Photograph

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taken May 26, 1966. John H. Lawrence Collection-6176.
 XBD201402-00317.TIF -- Low temperature liquid helium sample irradiator, Tor Brustead and Jerry Howard. Photograph taken May 25, 1966. John H. Lawrence Collection-6178.
 XBD201402-00318.TIF -- Low temperature liquid helium sample irradiator, Tor Brustead. Photograph taken May 25, 1966. John H. Lawrence Collection-6179.
 XBD201402-00319.TIF -- Nabil Amer placing sample in magnet incubator. Photograph taken May 25, 1966. John H. Lawrence Collection-6181.
 XBD201402-00320.TIF -- Secondary emission monitor for medical cave. Photograph taken May 26, 1966. John H. Lawrence Collection-6207.
 XBD201402-00321.TIF -- Secondary emission monitor for medical cave. Photograph taken May 26, 1966. John H. Lawrence Collection-6209.
 XBD201402-00322.TIF -- Secondary emission monitor for medical cave. Photograph taken May 26, 1966. John H. Lawrence Collection-6210.
 XBD201402-00323.TIF -- Growth determination system. Photograph taken June 14, 1966. John H. Lawrence Collection-6241
 XBD201402-00324.TIF -- Pion dosimetry group with Dr. C. Richman. Photograph taken July 21, 1966. John H. Lawrence Collection-6350a.
 XBD201402-00325.TIF -- Pion dosimetry equipment. Photograph taken July 21, 1966. John H. Lawrence Collection-6351a.
 XBD201402-00326.TIF -- Carbon replica of ba/b/c+ red blood cell. Photograph taken July 14, 1966. John H. Lawrence Collection-6353.
 XBD201402-00327.TIF -- Carbon replica of ba/b/c+ red blood cell. Photograph taken July 14, 1966. John H. Lawrence Collection-6354.
 XBD201402-00328.TIF -- Rat red blood cells, fixed point shadowed sections. Photograph taken July 21, 1966. John H. Lawrence Collection-6366.
 XBD201402-00329.TIF -- L.P. perivascular hemorrhage of irradiated area in rabbit #234. Photograph taken July 9, 1966. John H. Lawrence Collection-6392.
 XBD201402-00330.TIF -- Body section scope camera. Photograph taken August 8, 1966. John H. Lawrence Collection-6406.
 XBD201402-00331.TIF -- Body section scope camera. Photograph taken August 8, 1966. John H. Lawrence Collection-6408.
 XBD201402-00332.TIF -- Mice with ascites tumors in pion irradiation experiment. Photograph taken August 10, 1966. John H. Lawrence Collection-6417.
 XBD201402-00333.TIF -- Kidney phantom. Photograph taken August 12, 1966. John H. Lawrence Collection-6421.
 XBD201402-00335.TIF -- A "Jung" microtone machine. Photograph taken September 1, 1966. John H. Lawrence Collection-6461.
 XBD201402-00336.TIF -- A "Jung" microtone machine. Photograph taken September 1, 1966. John H. Lawrence Collection-6462.
 XBD201402-00337.TIF -- Pupa antenna tip, magnified. Photograph taken August 19, 1966. John H. Lawrence Collection-6468.
 XBD201402-00338.TIF -- Pupa head, magnified. Photograph taken August 19, 1966. John H. Lawrence Collection-6475.
 XBD201402-00340.TIF -- Cesium source vault, Dave Love. Photograph taken September 6, 1966. John H. Lawrence Collection-6477.
 XBD201402-00341.TIF -- Cesium source vault, Dave Love. Photograph taken September 6, 1966. John H. Lawrence Collection-6478.

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XBD201402-00342.TIF -- Hilac bio-med cave. Photograph taken September 6, 1966. John H. Lawrence Collection-6479.

XBD201402-00343.TIF -- Hilac bio-med cave, Dave Love. Photograph taken September 6, 1966. John H. Lawrence Collection-6480.

XBD201402-00344.TIF -- Super conducting magnet. Photograph taken September 6, 1966. John H. Lawrence Collection-6481.

XBD201402-00345.TIF -- Lethality of mammalian cells with x-ray ultrasonic vibration. Photograph taken September 6, 1966. John H. Lawrence Collection-6482.

XBD201402-00346.TIF -- 88-inch cyclotron bio-med cave, Graeme Welsh. Photograph taken September 6, 1966. John H. Lawrence Collection-6483.

XBD201402-00347.TIF -- Modified CHN elemental analyzer. Photograph taken September 12, 1966. John H. Lawrence Collection-6484.

XBD201402-00348.TIF -- CHN elemental analyzer samples, boat holder for drying. Photograph taken September 12, 1966. John H. Lawrence Collection-6485.

XBD201402-00349.TIF -- Insertion of boat cap CHN. Photograph taken September 12, 1966. John H. Lawrence Collection-6486.

XBD201402-00350.TIF -- Gradient preparation for chylomicron isolation. Photograph taken September 12, 1966. John H. Lawrence Collection-6487.

XBD201402-00351.TIF -- Fabrication/disassembly of spark eroder carbon electrode system, fixture center piece end mold for ultracentrifuge cells. Photograph taken September 15, 1966. John H. Lawrence Collection-6488.

XBD201402-00352.TIF -- Fabrication/disassembly of spark eroder carbon electrode system, fixture center piece end mold for ultracentrifuge cells. Photograph taken September 15, 1966. John H. Lawrence Collection-6489.

XBD201402-00353.TIF -- Electron micrograph of skeletal muscle. Photograph taken September 19, 1966. John H. Lawrence Collection-6514.

XBD201402-00354.TIF -- Electron micrograph of node of ranvier. Photograph taken September 19, 1966. John H. Lawrence Collection-6515.

XBD201402-00355.TIF -- Electron micrograph of retina. Photograph taken September 19, 1966. John H. Lawrence Collection-6516.

XBD201402-00356.TIF -- Electron micrograph of skeletal muscle. Photograph taken September 19, 1966. John H. Lawrence Collection-6517.

XBD201402-00357.TIF -- Magnified red blood cell of mouse. Photograph taken October 11, 1966. John H. Lawrence Collection-6581.

XBD201402-00358.TIF -- Solar flare simulator for space radiation studies. Photograph taken October 20, 1966. John H. Lawrence Collection-6590.

XBD201402-00359.TIF -- Solar flare simulator for space radiation studies. Photograph taken October 20, 1966. John H. Lawrence Collection-6591.mnmnmj

XBD201402-00360.TIF -- Solar flare simulator for space radiation studies. Photograph taken October 20, 1966. John H. Lawrence Collection-6592.

XBD201402-00361.TIF -- Solar flare simulator for space radiation studies. Photograph taken October 20, 1966. John H. Lawrence Collection-6593.

XBD201402-00362.TIF -- Solar flare simulator for space radiation studies. Photograph taken October 20, 1966. John H. Lawrence Collection-6594.

XBD201402-00363.TIF -- Red blood cell. Photograph taken November 4, 1966. John H. Lawrence Collection-6611.

XBD201402-00364.TIF -- Red blood cell. Photograph taken November 4, 1966. John H. Lawrence

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Collection-6612.
 XBD201402-00365.TIF -- Red blood cell. Photograph taken November 4, 1966. John H. Lawrence Collection-6613.
 XBD201402-00366.TIF -- Red blood cell. Photograph taken November 4, 1966. John H. Lawrence Collection-6614.
 XBD201402-00367.TIF -- Red blood cell, electron micrograph plate. Photograph taken November 4, 1966. John H. Lawrence Collection-6619.
 XBD201402-00368.TIF -- Red blood cell. Photograph taken November 4, 1966. John H. Lawrence Collection-6621.
 XBD201402-00369.TIF -- Rabbit brain irradiation apparatus. Photograph taken November 3, 1966. John H. Lawrence Collection-6624.
 XBD201402-00370.TIF -- Frozen etched lipoprotein. Photograph taken November 15, 1966. John H. Lawrence Collection-6658.
 XBD201402-00371.TIF -- Frozen etched lipoprotein. Photograph taken November 15, 1966. John H. Lawrence Collection-6659.
 XBD201402-00373.TIF -- Frozen etched lipoprotein. Photograph taken November 15, 1966. John H. Lawrence Collection-6660.
 XBD201402-00374.TIF -- Scanning electron micrographs. Photograph taken November 29, 1966. John H. Lawrence Collection-6660.
 XBD201402-00375.TIF -- Scanning electron micrographs showing irradiated brain section. Photograph taken November 29, 1966. John H. Lawrence Collection-7771.
 XBD201402-00376.TIF -- Scanning electron micrographs showing irradiated brain section. Photograph taken November 29, 1966. John H. Lawrence Collection-6672.
 XBD201402-00377.TIF -- Scanning electron microscope of irradiated brain sections x1000 (200 mesh woven grid). Photograph taken December 6, 1966. John H. Lawrence Collection-6683.
 XBD201402-00378.TIF -- Scanning electron micrograph of irradiated brain sections. Photograph taken December 6, 1966. John H. Lawrence Collection-6684.
 XBD201402-00379.TIF -- Standard electron microscope x1000 (showing 200-mesh woven grid). Photograph taken December 6, 1966. John H. Lawrence Collection-6685.
 XBD201402-00380.TIF -- Beetles used in space biology experiments, showing abnormal wing formation. Photograph taken December 21, 1966. John H. Lawrence Collection-6690.
 XBD201402-00381.TIF -- Beetles used in space biology experiments, showing normal wing formation. Photograph taken December 21, 1966. John H. Lawrence Collection-6691.

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Box

- 6 JHL 5. Photos--
- XBD201402-00382.TIF -- Multiaperture collimator and pinhole camera image of gamma ray emitting subjects. Photograph date unknown. John H. Lawrence Collection-3009.
- XBD201402-00383.TIF -- Image showing depth of focus of a positron camera. The positron emitting subject consisted of 12 point sources of sodium-22 in lucite, with 0.44 microcurie total activity, with 5-minute exposures. Photograph date unknown. John H. Lawrence Collection-3010.
- XBD201402-00384.TIF -- Image showing crossfire focusing for increased sensitivity and higher resolution, using a point source beta+ emitter located at the plane of best focus which is projected on the image detector crystal at seven distinct points by the seven coincidence detector.
- XBD201402-00385.TIF -- Image showing multi-lens oscilloscope camera and overdeveloped Polaroid photographs to give contrast amplification and optimum photographic density over a wide range of exposure times. Photograph date unknown. John H. Lawrence Collection-3013.
- XBD201402-00386.TIF -- Image showing comparison of pinhole camera multi-aperture collimator and focussed positron camera for photographing a 3-inch x 6-inch subject. Photograph date unknown. John H. Lawrence Collection-3014.
- XBD201402-00387.TIF -- Thyroid pictures using the gamma-ray scintillation camera. Photograph date unknown. John H. Lawrence Collection-3015.
- XBD201402-00388.TIF -- Early patient studied for radioactive iodine uptake. Geiger counter tube held over thyroid gland of young girl. Photograph date unknown. Negative missing. John H. Lawrence Collection-3057.
- XBD201402-00390.TIF -- Brain scan with a superimposed scale. Photograph date unknown. John H. Lawrence Collection-3398.
- XBD201402-00391.TIF -- Focused positron camera, scintillation image detector. Photograph date unknown. John H. Lawrence Collection-3449.
- XBD201410-00392.TIF -- Focussed Positron Camera, scintillation image detector. Photograph date unknown. John H. Lawrence Collection-3450.
- XBD201410-00393.TIF -- First brain images taken with Focussed Positron Camera. Pictures taken in collaboration with Dr. A. Gottschalk, date unknown. John H. Lawrence Collection-3451.
- XBD201410-00394.TIF
- XBD201410-00395.TIF -- Scintillation Camera diagram. Photograph date unknown. John H. Lawrence Collection-3453.
- XBD201410-00396.TIF -- Thyroid scans taken with Scintillation Camera and pinhole collimator. Image shows technician with camera setup. Photograph date unknown. John H. Lawrence Collection-3454.
- XBD201410-00397.TIF -- Gamma-ray Pinhole Camera, scintillation image detector diagram. Photograph date unknown. John H. Lawrence Collection-3455.
- XBD201410-00398.TIF -- Multi-aperture Gamma-ray Camera, scintillation image detector diagram. Photograph date unknown. John H. Lawrence Collection-3456.
- XBD201410-00412.TIF -- Image comparing depth of tissue penetration by several energy sources: X-rays, cyclotron, gamma rays, and betatron. Photograph undated. John H. Lawrence Collection-4229.
- XBD201410-00413.TIF -- Chromosome image comparisons. Photograph undated. John H. Lawrence Collection-4415-4416.
- XBD201410-00414.TIF -- Count-rate attachment for obtaining renograms from scintillation camera. Photograph undated. John H. Lawrence Collection-4938.
- XBD201410-00415.TIF -- Scintillation camera images showing heart and kidney Tc99m 1 second frames. Photograph undated. John H. Lawrence Collection-4940.
- XBD201410-00416.TIF -- Positron emitting line source at 3-inch distance. Photograph undated.

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John H. Lawrence Collection-4942.
 XBD201410-00419.TIF -- Positron emitting I-131 line source, at 1-inch and 4.5-inches. Photograph undated. John H. Lawrence Collection-4943.
 XBD201410-00420.TIF -- Kidney function studies with Hg-203, neohydrin, and I-131 hippuran. Photograph undated. John H. Lawrence Collection-5018.
 XBD201410-00427.TIF -- Chest x-rays showing changes over time.. Photograph taken September 17 and 24, 1963. John H. Lawrence Collection-5058.
 XBD201410-00428.TIF -- X-ray of deposition of F18 in bone showing normal structure; fractured right femur; bone metastases;and Paget's disease. Photograph circa 1963. John H. Lawrence Collection-5211.
 XBD201410-00429.TIF -- Image showing depositions in body in four skeletons: primary polycythemia; multiple myeloma; far-advanced Paget's disease; and normal, except for fracture of femur. Photograph circa 1963. John H. Lawrence Collection-5212.
 XBD201410-00430.TIF -- Distribution of erythropoietic bone marrow as shown by Fe52 and the Positron Camera in four skeletons (from normal to severe.) Congenital cyanotic heart disease. Photograph circa 1963. John H. Lawrence Collection-5213.
 XBD201410-00431.TIF -- Hepatomegaly probable carcinoma, in liver and pancreas. Photograph circa 1963. John H. Lawrence Collection-5226.
 XBD201410-00432.TIF -- Sf 0-20 sample before and after STAFLO-Electrophoresis. Photograph circa 1963. John H. Lawrence Collection-5248.
 XBD201410-00433.TIF -- Image showing pancreatic carcinoma after several exposure times. Photograph circa 1963. John H. Lawrence Collection-5589.
 XBD201410-00434.TIF -- Probable pancreatic cyst scans. Pancreatic scintiphotos taken during parathyroid visualization attempt. Photograph circa 1963. John H. Lawrence Collection-5590.
 XBD201410-00435.TIF -- Polycythemia and hypertension scans. Photograph circa 1963. John H. Lawrence Collection-5645.
 XBD201410-00436.TIF -- Diabetes mellitus and chronic pyelonephritis. Photograph circa 1963. John H. Lawrence Collection-5646.
 XBD201410-00437.TIF -- Polycythemia. Posterior view of renal scintiphotos on day of injection of 40micro-Ci Hg203 chlormerodrin, 15 minutes exposures. Photograph circa 1963. John H. Lawrence Collection-5647.
 XBD201410-00438.TIF -- Hydronephrosis. Secondary to ureteropelvic obstruction. Pyeloplasty four weeks prior to study. Photograph circa 1963. John H. Lawrence Collection-5648.
 XBD201410-00439.TIF -- Hypertension scans. Photograph circa 1963. John H. Lawrence Collection-5649.
 XBD201410-00440.TIF -- Polycythemia scans. Photograph circa 1963. John H. Lawrence Collection-5650.
 XBD201410-00441.TIF -- Positron tomography of the brain (preliminary results). Photograph undated, circa 1963. John H. Lawrence Collection-5741.
 XBD201410-00442.TIF -- Brain blood flow visualization, astrocytoma. Photograph circa 1963. John H. Lawrence Collection-5742.
 XBD201410-00443.TIF -- Brain blood flow visualization, right carotid obstruction. Photograph circa 1963. John H. Lawrence Collection-5743.
 XBD201410-00444.TIF -- Renal function study. Renal cyst, intrarenal artery aneurysm, 350cc volume. Photograph circa 1963. John H. Lawrence Collection-5744.
 XBD201410-00445.TIF -- Renal blood flow visualization in normal adult. Photograph circa 1963. John H. Lawrence Collection-5746.

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XBD201410-00446.TIF -- Dynamic study of colloid deposition in a normal adult liver. Photograph circa 1963. John H. Lawrence Collection-5747.

XBD201410-00447.TIF -- Heart blood flow visualization in a normal adult. Photograph undated, circa 1963. John H. Lawrence Collection-5748.

XBD201410-00448.TIF -- Carcinoma of the head of the pancreas, showing treatment and radiation field markers. Photograph circa 1963. John H. Lawrence Collection-5829.

XBD201410-00449.TIF -- Brain blood flow visualization, right carotid bruit. Photograph undated, circa 1963. John H. Lawrence Collection-5832.

XBD201410-00450.TIF -- Renal carcinoma, comparison of static and dynamic images. Photograph circa 1963. John H. Lawrence Collection-5833.

XBD201410-00451.TIF -- Absorption scans of human. Effect obtained with lower gamma energies, astrocytoma. Photograph circa 1963. John H. Lawrence Collection-5834.

XBD201410-00452.TIF -- Heart blood flow visualization in a normal adult. Photograph undated, circa 1963. John H. Lawrence Collection-5854.

XBD201410-00453.TIF -- Brain blood flow visualization, right carotid obstruction. Photograph circa 1963. John H. Lawrence Collection-5855.

XBD201410-00454.TIF -- Dynamic study of colloid deposition in a normal adult liver. Photograph circa 1963. John H. Lawrence Collection-5856.

XBD201410-00455.TIF -- Renal blood flow visualization in a normal adult. Photograph undated, circa 1963. John H. Lawrence Collection-5857.

XBD201410-00456.TIF -- Renal function study. Renal cyst, 350cc volume, intrarenal artery aneurysm. Photograph circa 1963. John H. Lawrence Collection-5858.

XBD201410-00457.TIF -- Brain blood flow visualization, astrocytoma. Photograph circa 1963. John H. Lawrence Collection-5859.

XBD201410-00458.TIF -- Positron tomography of the brain, preliminary results. Photograph circa 1963. John H. Lawrence Collection-5860.

XBD201410-00459.TIF -- Renal function study showing leukemia cell infiltration of both kidneys. The right kidney received 200R of x-radiation therapy prior to function study. Photograph circa 1963. John H. Lawrence Collection-5864.

XBD201410-00460.TIF -- Rat leukopenia x-ray experiments. Six hour pyknosis/necrosis and/or inhibition. Photograph circa 1963. John H. Lawrence Collection-5868.

XBD201410-00461.TIF -- Radiosensitive neural cells in neonatal rat brain, showing early radio necrosis. Photograph circa 1963. John H. Lawrence Collection-5869.

XBD201410-00462.TIF -- Image showing resolution of positron scintillation camera. Photograph circa 1963. John H. Lawrence Collection-5871.

XBD201410-00463.TIF -- Method for measuring inherent resolution of image detector. Photograph circa 1963. John H. Lawrence Collection-5873.

XBD201410-00470.TIF -- Normal abdominal aortic blood flow and renal perfusion and left renal cyst scans. Photograph circa 1963. John H. Lawrence Collection-5969.

XBD201410-00471.TIF -- Normal carotid blood flow and cerebral perfusion and ligated right common carotid artery. Photograph circa 1963. John H. Lawrence Collection-5970.

XBD201410-00472.TIF -- Inhibition by monosaccharides. Photograph circa 1963. John H. Lawrence Collection-6064.

XBD201410-00473.TIF -- Aggregation of trypsinized retina. Photograph circa 1963. John H. Lawrence Collection-6065.

XBD201410-00474.TIF -- Inhibition after EDTA. Photograph circa 1963. John H. Lawrence Collection-6066.

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XBD201410-00475.TIF -- Trypsin and EDTA. Photograph circa 1963. John H. Lawrence Collection-6067.

XBD201410-00476.TIF -- Puromycin, chloramphenicol, periodate, borate. Photograph circa 1963. John H. Lawrence Collection-6068.

XBD201410-00477.TIF -- Normal carotid blood flow and cerebral perfusion and ligated right common carotid artery. Photograph circa 1963. John H. Lawrence Collection-6069.

XBD201410-00478.TIF -- Body-section oscilloscope camera. Photograph circa 1963. John H. Lawrence Collection-6460.

XBD201410-00479.TIF -- Body scan showing bone marrow and liver. Photograph circa 1963. John H. Lawrence Collection-6567.

XBD201410-00485.TIF -- Body scan showing bone marrow, stomach, liver, small intestine, and bowel. Photograph circa 1963. John H. Lawrence Collection-6568.

XBD201410-00486.TIF -- Scan of a brain. Photograph circa 1963. John H. Lawrence Collection-3397.

XBD201410-00487.TIF -- Head-shots of patient with Acromegaly, showing progression of the disease over time. Photograph undated. John H. Lawrence Collection-4355.

XBD201410-00488.TIF -- Head-shots of patient with Acromegaly, showing progression of the disease over time. Photograph undated. John H. Lawrence Collection-4356.

XBD201410-00489.TIF -- Head-shots of patient with Acromegaly, showing progression of the disease over time. Photograph undated. John H. Lawrence Collection-4411.

XBD201410-00490.TIF -- Graph showing the stopping power of 1,000 meV/g/cm2 of various elements: argon, neon, oxygen, nitrogen, carbon. Photograph undated. John H. Lawrence Collection-4594.

XBD201410-00491.TIF -- Scintillation camera scans. Photograph undated. John H. Lawrence Collection-4954.

XBD201410-00492.TIF -- Head-shots of patient with Acromegaly, showing progression of the disease over time. Photograph undated. John H. Lawrence Collection-4957.

XBD201410-00493.TIF -- Head-shots of patient with Acromegaly, showing jaw displacement. Photograph undated. John H. Lawrence Collection-5140.

XBD201410-00494.TIF -- Head-shots of patient with Acromegaly. Photograph undated. John H. Lawrence Collection-5624.

XBD201410-00495.TIF -- Absorption effect with low-energy gamma rays: liver, amebic abscess. Photograph undated. John H. Lawrence Collection-5828.

XBD201410-00496.TIF -- Tomographic study of the brain, astrocytoma. Photograph undated. John H. Lawrence Collection-5830.

XBD201410-00497.TIF -- Heart blood flow study over time. Photograph undated. John H. Lawrence Collection-5831.

XBD201410-00498.TIF -- Resolution of gamma-ray scintillation camera with multichannel collimator. Photograph undated. John H. Lawrence Collection-5872.

XBD201410-00499.TIF -- Head-shots of patient with Acromegaly, showing progression of the disease over time. Photograph undated. John H. Lawrence Collection-5974.

XBD201410-00500.TIF -- Absorption effect with low-energy gamma rays: liver with amebic abscess. Photograph undated. John H. Lawrence Collection-5994.

XBD201410-00501.TIF -- Puromycin. Photograph undated. John H. Lawrence Collection-6063.

XBD201410-00502.TIF -- Abdominal scans. Photograph undated. John H. Lawrence Collection-6466.

XBD201410-00503.TIF -- Irradiated brain sections. Photograph undated. John H. Lawrence

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Collection-6673.
XBD201410-00504.TIF -- Absorption effect with low-energy gamma rays: liver with amebic abscess. Photograph undated. John H. Lawrence Collection-5745.
XBD9609-04765.TIF -- New insights into life and death of red cells. Living red blood cells drift through a human coronary artery. This photograph was taken by scientists at Lawrence Radiation Laboratory, using the recently developed scanning electron microscope. Photograph ci