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COVER LEGEND

This month's cover features Alexander Lipschutz and Rigoberto Iglesias, longtime collaborators in the study of endocrine tumorigenesis at the Instituto de Medicina Experimental in Santiago, Chile.

Alexander Lipschutz ([b. 1883, Riga, Latvia) received his M.D. in 1907 in Göttingen, West Germany. After serving as professor of physiology at Tartu, Estonia (now Russia), he moved to Chile in 1926. There he became professor of physiology and Dean of the Faculty of Medicine at the new Universidad de Concepción. Lipschutz again moved in 1937, when the directorship of the Chilean National Health Service's Instituto de Medicina Experimental was offered to him. Although he retired as director of the Institute in 1960, he has continued actively as an honorary member.

Lipschutz and his colleagues demonstrated in their work that partial castration in the guinea pig led to hyperplasia of the endometrium and myometrium, and exogenous estradiol was shown to produce uterine and other intraabdominal fibrous tumors. Prostatic gland compounds were found to be antitumorigenic, counteracting estrogenic effects, as were some androgens and corticoids. Antitumorigenic steroids were discovered to be diethylstilbestrol and most were Δ5-3-estrogenoids.

This work has been summarized in two books, Steroid Hormones and Tumors (Baltimore: The Williams & Wilkins Co., 1950) and Steroid Hormones and Tumorigenesis (Cambridge: Heffer, 1957).

Rigoberto Iglesias ([b. 1911, Quipao, Chile) graduated in medicine in 1938 as one of Lipschutz's original students. Discouraged after facing some difficult years, the institute is recovering and recently was selected as an International Cooperating Center for Cancer Research of the World Health Organization.

We are indebted to Dr. Iglesias for the photographs and information. The portrait of Lipschutz (left) was taken ca. 1945 and that of Iglesias (right) in 1966. 

not a great help." Thus, he returned in 1942 to the Instituto de Medicina Experimental in Santiago, where his investigations with Professor Lipschutz continued. In 1960, Iglesias succeeded Lipschutz as director and proceeded with his research of endocrine carcinogenesis, with intervals of study in the United States.

Since 1950, Iglesias has concentrated on transplantable endocrine tumors of the A x C rat, starting with a functional ovarian tumor found in Albert Segall's laboratory at the Ochsner Foundation in New Orleans. This tumor was still functional in 1972. The collection at the Chilean institute includes ovarian tumors, testicular tumors that produce androgens and estrogens, and pituitary tumors—some mammalsomatoctiotic—like those studied by Jacob Furth. Another group of tumors in the collection are the dependent mammary cancers, produced by transplantable androgenic and estrogenic testicular tumors and dependent ovarian tumors produced by a transplantable follicle-stimulating hormone- and luteininhibitor secreting pituitary tumor. Iglesias' earlier work is included in the books by Lipschutz as director and proceeded with his research of endocrine carcino-