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CONTRIBUTIONS OF PHARMACOLOGY TO PHYSIOLOGY.

LADIES AND GENTLEMEN: Before I enter upon the task for which I ask your kind

¹ Being the first of the Herter lectures delivered at the Johns Hopkins Medical School, October 5, 1905. attention, I desire to express my hearty thanks for the great honor you have extended to me in inviting me to deliver the Herter lectures. The honor I accept, not so much for myself as for the science which I represent.

· Experimental pharmacology is a science with essentially theoretical aims-a part of general biology, in which there is nowhere shown a greater interest than in America. I take especial pleasure in asserting that in this land of varied successes the understanding of abstract problems and of purely theoretical work thrives and ever grows. always extending to wider circles, filled with a scientific idealism which invites the most splendid and admirable sacrifices. spiritual and material. Your famous university and, indeed, these lectures themselves owe their origin to such idealistic And this gives me the courage impulses. and the desire to talk to you of the significance and value of pharmacology.

It is, then, not necessary for me to claim your attention for the practical results or for their value to the practising physician; not, however, that I undervalue this important side of pharmacology. But may I not hope at this place to be able to attain my purpose most easily, if I beg your attention to the biological results which we owe to pharmacological investigations?

For the explanation and analysis of physiological function, apart from comparative physiology, stimulation and extirpation of certain organs or parts of organs serve as general methods. Experimental physiology employed to this end mechanical