The Annual Meeting of the Council for High Blood Pressure Research provides a forum for the presentation of current basic research in the field of hypertension. This year's meeting held in Cleveland, OH, on October 21-22, 1982, focused principally on the biochemical and endocrine aspects of hypertension. Two invited State-of-the-Art lectures are published in this special issue of HYPERTENSION, which focus on two areas of research under intense investigation. Dr. Benjamin Zweifach reviewed the state of the microcirculation in hypertension, while Dr. Sami Said reviewed the influence of vasoactive peptides on cardiovascular function and arterial blood pressure. A number of original studies dealing with various biochemical and hormonal aspects of arterial pressure regulation were also presented. One group of studies deals with various aspects of mineralocorticoid alterations in hypertension. A second group of studies reflects the current interest in the role of calcium in the control of vascular smooth muscle tone. A third group of studies focuses on various factors that can influence the sodium-potassium pump in vascular smooth muscle. The remaining studies deal with various neural and humoral factors that are thought to be of importance in hypertension.

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