The Entero-Insular Axis

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Foreword

On the occasion of the 10th Congress of the International Diabetes Federation (IDF) in Vienna, a Satellite Symposium was held at the University of Göttingen on September 7th and 8th, 1979, on the interactions between endocrine pancreas and gastrointestinal tract. The existence of such interactions has been postulated for 75 years. However, general interest in this area did not start until 15 years ago when the technique of the radioimmunoassay for estimating peptide hormones in blood had been developed. Meanwhile, endocrinologists and gastroenterologists have realized the close connection between the endocrine pancreas and the gut, the so-called 'enteroinsular axis', a term coined by R.H. Unger in 1969. The original concept of the enteroinsular axis referred to humoral factors only and has been extended since. It now includes the nervous connections between the gut and the islets. This reflects the growing knowledge of the close interrelationship between hormones and nerves in the gastrointestinal tract, especially the so-called peptidergic system.

It is surprising that during this time of countless meetings none has yet been devoted to this subject. Therefore, the research workers active in this field enthusiastically responded to the idea of a first symposium on the enteroinsular axis. The invited speakers covered morphology, physiology and pathophysiology of the system. Special emphasis was put on the recent concept...
of the gastroentero-pancreatic neuroendocrine system. A potentially important clinical implication of the research on the enteroinsular axis appeared to be the effect of substances delaying or inhibiting absorption of nutrients.

Foreword X

This volume of Frontiers of Hormone Research contains the invited lectures given during the symposium and the abstracts of free papers presented in a poster exhibition on this occasion.

I thank S. Karger AG, Medical and Scientific Publishers, Basel, for publishing the proceedings of the symposium so efficiently and quickly. I am especially grateful to the Council of the German Diabetes Association and to Professor P. Berchtold, Bayer AG, Wuppertal, for their generous financial contribution to the printing costs of this volume.

Werner Creutzfeldt