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OF
SHORT PAPERS

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July 4-8, 1971

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182. *S. Raptis, G. Rothenbuchner, J. Birk, U. Loos, M. Schleyer and E. F. Pfeiffer*: Insulin dependent diabetes mellitus and HGH, TSH in serum following thyrotrophin releasing factor (TRF).
183. *Rolf D. Fussgänger, R. Goberna, K. H. Voigt, H. Laube and E. F. Pfeiffer*: Sex specific differences in the metabolic effects of the progestin chlormadinone acetate in subtotally pancreatectomized rats.

184. *Derek Davies*: Studies of pituitary-adrenal function in diabetic retinopathy.
185. *V. Büber, P. v. Velsen, M. L. Aubert, T. Lemarchand, G. Laudahn and J. P. Felber*: Hormone levels in diabetic and non-diabetic pregnancy.
186. *C. Lauritzen and W. D. Lehmann*: Metabolic behaviour of dehydroepiandrosterone and aromatizing capacity of the placenta in pregnancy cases of diabetes mellitus.

Pancreas, Insulin and Carbohydrate Metabolism

187. *H. Laube, R. Fussgänger, R. Goberna and E. F. Pfeiffer*: Human placental lactogen and its effect upon the insulin release of the isolated perfused pancreas.
188. *Ingmar Lundquist, Ragnar Ekholm and Lars E. Ericson*: Influence of 5-hydroxytryptamine on insulin secretion.
189. *H. Schmidt and K. D. Voigt*: Influence of insulin on carbohydrate and lipid metabolites in human blood under various experimental conditions.
190. *Sten Adolfsson, Olle Isaksson, Åke Hjalmarson and Kurt Åhrén*: Insulin and regulation of heart glycogen.
191. *Torben Clausen*: Sugar transport, membrane stabilizers, and insulin action.
192. *J.-P. Felber, F. Gomez, V. Büber and E. Jéquier*: Effect of biguanides on the peripheral oxidation of glucose.
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195. *J. Vallance-Owen, J. S. Bajaj and Dorothy McMaster*: Further studies on the incidence of the synalbumin insulin antagonist.
196. *J. Vallance-Owen and J. S. Bajaj*: Variations in synalbumin insulin antagonism during tolbutamide tolerance tests.
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198. *H. Frey, D. Falch, K. Forfang, N. Norman and D. Fremstad*: Metabolic effects of long-term glucagon infusion.
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201. *Lars E. Ericson, Ragnar Ekholm and Ingmar Lundquist*: Metabolism of L-DOPA and 5-HTP in the pancreatic islets of the mouse studied with electronmicroscopic autoradiography.
202. *Kristian F. Hanssen*: A growth hormone factor in human urine.
203. *R. Maynard Case and Torben Clausen*: Calcium ions and the release of enzymes from rat pancreas in response to gastrointestinal hormones.
204. *Felix P. N. Schennetten*: Differential diagnoses of so-called Brittle diabetes.
205. *Beryl M. A. Davies*: Insulin synthesis in a hamster adrenal tumour.

Hormonal Regulation of Calcium Metabolism

206. *O. Helmer Sørensen and Inge Hindberg*: The effect of long-term treatment with calcitonin on bone, kidney, and intestine in young rats.
207. *Inge Hindberg and O. Helmer Sørensen*: The influence of gonadal hormones on the action of calcitonin.

208. *Thorkild Friis, Inge Hindberg and O. Helmer Sørensen*: The renal effects of calcitonin in patients with hypoparathyroidism.
209. *B. E. C. Nordin and M. Peacock*: The role of the kidney in the regulation of plasma calcium.
210. *Richard M. Buckle*: Acute plasma and renal effects of porcine calcitonin in man.
211. *F. Schönau Jørgensen*: Serum calcium concentration following nephrectomy in rats.
212. *R. F. L. Bates*: The role of energy metabolism in the secretion of calcitonin in response to hypercalcaemia.
213. *F. Sundler, A. Melander and Ch. Owman*: The relation between amine and polypeptide hormone in calcitonin-producing cells.
214. *S. Pors Nielsen and O. Holger Petersen*: Calcium transport in the submandibular gland of the cat.
215. *Jean-Michel Garel*: Action of calcitonin in the foetal rat.
216. *R.-D. Hesch, M. Hüfner, M. Hasenjäger, A. v. zur Mühlen and W. Creutzfeldt*: Inhibition of gastric secretion by calcitonin.
217. *Ib Transbøl, J. R. Gill, Jr., M. Lifschütz, C. S. Delea and F. C. Bartter*: Intestinal absorption and renal excretion of calcium in metabolic acidosis and alkalosis.
218. *Ib Hornum and Ib Transbøl*: Escape of magnesium from the renal action of parathyroid hormone in hyperparathyroidism.
219. *M. Hüfner, R. Arnold and R.-D. Hesch*: The intracellular demonstration of parathyroid hormone in man.
220. *D. H. Copp, B. Rafferty, C. J. Robinson and J. A. Parsons*: Effect of calcitonin on the response to parathyroid hormone.

Miscellaneous

221. *R. W. Kelly*: Measurements of prostaglandins in biological fluids by gas chromatography-mass spectrometry coupled with a small analogue computer.
222. *R. Vihko, T. Laatikainen and R. Pelkonen*: Steroid studies in two subjects with androgen-producing ovarian tumours.
223. *Ole Scheike, S. G. Johnsen and B. Svenstrup*: Hormonal aspects in male mammary carcinoma.
224. *Georg W. Oertel, Hans Holzmann and Bernhard Morsches*: Dehydroepiandrosterone deficiency in psoriasis.
225. *I. M. Valk*: Accurate ulna measurements and growth.
226. *K. F. Støa, D. Aarskog and P. A. Skulstad*: Oestrogen metabolism in a child with Down's syndrome.
227. *Jan I. Thorell and Bengt G. Johansson*: Enzymatic high-specific-activity iodination of polypeptide hormones.
228. *Knut O. Uthne, Turid Uthne and Kerstin Hall*: Influence of partial hepatectomy on sulphation factor activity in the rat.
229. *O. D. Bruno, P. Metzger and W. J. Malaisse*: Metyrapone inhibition of glucose utilization by brain and muscle.
230. *E. Otto Höhn*: Hormones and seasonal pelage change in the varying hare (*Lepus americanus*).
231. *A. Pekkarinen, U. K. Rinne, R. Salokangas, T. Siirtola and V. Sonminen*: Plasma testosterone content of patients with Parkinson's disease during L-DOPA treatment.

232. *M. Hyypä, P. Lehtinen and U. K. Rinne*: Effect of L-DOPA on the regulation mechanisms of reproductive functions in the rat.
233. *Niels Einer-Jensen*: Fertility in goldthiogluucose obese male mice and infertility in brown hereditary obese male mice before and during forced exercise.
234. *J. J. Heindel, S. W. Cushman and B. Jeanrenaud*: Modification of energy-requiring processes during lipolysis.
235. *Ch. Seyfried, H. G. Kraft and H. Kieser*: Oestrogenic potency and storage in body fat of a new isoflavenedioldicyclopentylether.
236. *Ilse von Berswordt-Wallrabe and Dietrich Flaskamp*: Inhibition of lactation by Estrovis (Quinestrol).

**Brain-Thyroid Relationships and Regulation
of Thyroid Function**

Abstract No. 1–18

II. Medizinische Klinik, Universität München

SEPARATE DETERMINATION OF TOTAL T₃ AND T₄
IN SERUM BY A SEMIAUTOMATICAL METHOD

*T. Ruhl, J. Habermann, K. Horn and P. C. Scriba**

Method: Iodothyronines are separated from serum proteins (2.5 ml) with 1 ml AG 50W-X4, minus 400 mesh, H⁺-form, yield > 95 %. T₃ and T₄ are completely separated on 4 g Sephadex G-25 superfine with 0.05 M potassiumphosphate buffer pH 11.9. T₃ and T₄ are eluted each in 40 ml (yield 100 %). From these eluates T₃ and T₄ are separately absorbed under continuous acidification (0.1 N HCl) on 1 ml Bio-Rex 70, 50-100 mesh, H⁺-form, and finally eluted by 5 ml 5 N NH₄OH (yield > 95 %). The eluates are dried down under recycling N₂. The residues are directly subjected to an automated competitive protein binding analysis for T₃, resp. T₄ or are dissolved in 1 ml 1 N NaOH with 10 mg activated Zn for an automated microchemical iodine determination (Z. Anal. Chem. 252, 267 (1970)). – The complete chromatography is performed in a closed system of 3 consecutive columns, which allows the parallel automatical analysis of 25 samples within less than 8 h.

Results: Recovery for the complete procedure: Added inactive T₃ = 87 %, T₃-¹²⁵I = 88.6 %. *Precision:* Variation coefficient for T₃-¹²⁷I = 6.5 %, for T₄-¹²⁷I = 2.7 %

$$(\text{var. coeff.} = \frac{\text{SD}}{\text{mean}} \times 100).$$

These results from the microchemical iodine determination are compared with the data from competitive protein binding assay as final analytical step. Data from patients with autonomous adenoma will be presented.

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