

BENZON SYMPOSIUM No. 53
**THE NEW BIOLOGY OF THE GASTRIN-
CHOLECYSTOKININ FAMILY OF HORMONES**
OCTOBER 9-12, 2006, COPENHAGEN, DENMARK

Organizing committee:

*Jens F. Rehfeld (Copenhagen), Jens Bundgaard (Copenhagen), Anders H. Johnsen
(Copenhagen), Rolf Håkanson (Lund) and Arne Svejgaard (Copenhagen)*

Scientific program - MONDAY, October 9, 2006

Jens F. REHFELD: Welcome and opening comments

Session I: BIOGENESIS

Chair: Anders H. Johnsen

Sir James BLACK: Invention of gastrin receptor antagonists

Donald F. STEINER: An overview of neuroendocrine precursor processing

Iris LINDBERG: Proprotein convertases and their inhibitors

Hans H. GERDES: Biogenesis and delivery of secretory granules

Session I: BIOGENESIS

Chair: Finn Cilius Nielsen

Margery C. BEINFELD: Neuronal CCK synthesis

Jette Wagtberg SEN: Identification of tyrosine sulfation by mass spectrometry
(oral poster)

Jens R. BUNDGAARD: Sorting of progastrin and proCCK

Jens P. GOETZE: Extracerebrointestinal CCK Synthesis

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Scientific program - TUESDAY, October 10, 2006

Session II: BIOACTIVITY

Chair: Joel Adelson

Duan CHEN: Genetic dissection of gastrin and CCK pathways that control gastric acid secretion

Gary GREEN: Endocrine forms and novel physiology of cholecystokinin

Alan S. KOPIN: Drosophila as a model system for studying cholecystokinin/gastrin receptor mediated physiology

Arthur SHULKES: Production, secretion and biological activity of progastrin derived peptides

Session II: BIOACTIVITY

Chair: Linda Hilsted

Andrea TODISCO: Signal transduction pathways mediating the anti-apoptotic actions of gastrin in pancreatic cancer cells (*oral poster*)

Ayman I. SAYEGH: Cholecystokinin (CCK) reduces food intake through a central, and not a myenteric pathway (*oral poster*)

Catherine SEVA: Tyrosine phosphatase SHP-2 in CCK2 receptor signalling: Role of an ITIM-like motif (*oral poster*)

Per NORLÉN: Tachyphylaxis of the ECL-cell response to PACAP: Depletion of secretory products or desensitization? (*oral poster*)

Timothy C. WANG: Progastrin and colon cancer

Jens F. REHFELD: Progastrin and its products: Definitions and activities

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Scientific program - WEDNESDAY, October 11, 2006

Session III: ORGAN-SPECIFIC ROLES

Chair: Eero Vasar

Tomas HÖKFELT: Cholecystokinin systems in the brain

Jacques BRADWEJN: CCK in psychiatric disorders

Graham J. DOCKRAY: CCK and gut-brain signaling

Rolf HÅKANSON: ECL cells: Operational control and anticipated function

Session III: ORGAN-SPECIFIC ROLES

Chair: Jens Juul Holst

Maria BERNсанд: Mechanism of ischemia-evoked histamine mobilization from rat stomach ECL cells (*oral poster*)

Susanne HILKE: Cholecystokinin levels in the rat brain during the estrous cycle (*oral poster*)

Sulev KÕKS: Immune activation in the central nervous system during neuropathic pain: Role of cholecystokinin B and toll-like 4 receptors (*oral poster*)

Pernille KOEFOED: An intron one polymorphism in the cholecystokinin receptor A gene is associated with schizophrenia in males (*oral poster*)

Luc BOUWENS: Gastrin, the endocrine pancreas and diabetes mellitus

Daniel FOURMY: Functioning of cholecystokinin and gastrin receptors

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Scientific program - THURSDAY, October 12, 2006

Session IV: NEOPLASIA

Chair: Ove Schaffalitzky de Muckadell

Frank SCHMITZ: Gastrin and CCK in gastrointestinal cancer

Jean Claude REUBI: Gastrin/CCK receptor expression in cancers

Juanita L. MERCHANT: Why loss of gastrin and sonic hedgehog precedes gastric atrophy and cancer

Lennart FRIIS-HANSEN: Gastric cancer without gastrin

Session IV: NEOPLASIA

Chair: Jan Fahrenkrug

Joy E.S. ARDILL: Laboratory diagnosis of gastrinoma (*oral poster*)

Reidar FOSSMARK: Fundic gland polyps caused by proton pump inhibition are not related to hypergastrinemia and serum chromogranin A is affected by meals (*oral poster*)

Karin BAKKELUND: Premalignant changes developing after two months of hypergastrinemia in female Japanese cotton rats are reversed by antrectomy (*oral poster*)

Signe EILAND: Expression of gastrin in human gastric cancer tissue (*oral poster*)

Dorte BALSVED: Hydrolysis of tyrosine O-sulfate in acidic solutions (*oral poster*)

Helge WALDUM: Neuroendocrine origin of gastric carcinomas

Robert T. JENSEN: Gastrinomas and CCKomas : Recent advances

Jens F. REHFELD: Concluding remarks