

**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)*

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**Scientific program - MONDAY, October 9, 2006**

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**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**

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*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**

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*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**

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*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