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## **GEP-NET : rare tumour connections. Pathophysiological aspects of gastroenteropancreatic neuroendocrine tumours**

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Patricia Kuiper

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*Pathophysiological aspects of gastroenteropancreatic  
neuroendocrine tumours*

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# Contents

<b>Abbreviations</b>	7
<b>Chapter 1</b> General Introduction and Outline of the Thesis	9
<b>Chapter 2</b> An overview of the current diagnosis and recent developments in neuroendocrine tumours of the gastroenteropancreatic tract: the diagnostic approach <i>Neth J Med</i> 2011; 69: 14-20	31
<b>Chapter 3</b> Pathological incidence of duodenopancreatic neuroendocrine tumours in the Netherlands: a Pathologisch Anatomisch Landelijk Geautomatiseerd Archief study <i>Pancreas</i> 2010; 39: 1134-1139	49
<b>Chapter 4</b> A case of recurrent gastrinoma in the liver with a review of “primary” hepatic gastrinomas <i>BMJ Case Reports</i> [published online 11 June 2009]	67
<b>Chapter 5</b> Diagnostic efficacy of the secretin stimulation test for the Zollinger-Ellison syndrome: an intra-individual comparison using different dosages in patients and controls <i>Pancreatology</i> 2010; 10: 14-18	81
<b>Chapter 6</b> Expression and ligand binding of bombesin receptors in pulmonary and intestinal carcinoids: The role of bombesin in carcinoids <i>J Endocrinol Invest</i> 2010 [Epub ahead of print]	97
<b>Chapter 7</b> Angiogenic markers endoglin and vascular endothelial growth factor in gastroenteropancreatic neuroendocrine tumours <i>World J Gastroenterol</i> 2011; 17: 219-225	115
<b>Chapter 8</b> The IGF-matrilysin network in gastroenteropancreatic neuroendocrine tumours <i>Submitted</i>	133

<b>Chapter 9</b>	149
Summarizing discussion	
<b>Chapter 10</b>	159
Nederlandse samenvatting voor leken	
<b>List of publications</b>	169
<b>Curriculum Vitae</b>	171
<b>Nawoord</b>	173
<b>Full-colour illustrations</b>	175

# Abbreviations

5-HIAA	5-hydroxyindoleacetic acid
ACTH	Adrenocorticotrophic hormone
APUDoma	Amine precursor uptake decarboxylase tumour
BB1R, BRS-1	Bombesin-receptor type 1, Neuromedin B receptor
BB2R, BRS-2	Bombesin-receptor type 2, Gastrin-releasing peptide receptor
BB3R, BRS-3	Bombesin receptor subtype 3
BB4R, BRS-4	Bombesin receptor subtype 4
BBS	Bombesin
BLP	Bombesin-like peptide
BSA	Bovine serum albumin
CBS	Central Bureau for Statistics
CCK	Cholecystokinin
CD105	Endoglin
CgA	Chromogranin A
CNS	Central nerve system
CRC	Colorectal cancer
CT	Computed tomography
DAB	3,3'-diaminobenzidine
DNET	Duodenal neuroendocrine tumour
EC	Enterochromaffin
ECL	Enterochromaffin-like
ECM	Extracellular matrix
ELISA	Enzyme linked immuno-sorbent assay
EUS	Endoscopic ultrasonography
Flt-1	VEGF receptor 1
F-PNET	Functioning/functional pancreatic neuroendocrine tumour
FSG	Fasting serum gastrin
GEP-NET	Gastroenteropancreatic neuroendocrine tumour
GI	Gastrin increase
GI-NET	Gastrointestinal neuroendocrine tumour
GIST	Gastrointestinal stromal tumour
GRF	Growth-hormone releasing factor
GRP	Gastrin releasing peptide
GRPR	Gastrin releasing peptide receptor
HRP	Horseradish peroxidase
IGF	Insuline-like growth factor
kDa	Kilo Dalton
KDR	VEGF receptor 2
MEN-1	Multiple endocrine neoplasia syndrome type 1
MMP	Matrix metalloproteinases
MMP-7	Matrilysin, matrix metalloproteinase-7
MRI	Magnetic resonance imaging
mRNA	Messenger ribonucleic acid
MVD	Microvessel density



NEC	Neuroendocrine carcinoma
NET	Neuroendocrine tumour
NF-1	Neurofibromatosis type 1
NF-PNET	Non-functioning/non-functional pancreatic neuroendocrine tumour
NMB	Neuromedin B
NMBR	Neuromedin B receptor
NME	Necrolytic migratory erythema
NSE	Neuron specific enolase
PALGA	Nationwide network and registry for histo- and cytopathology in the Netherlands
PBS	Phosphate buffered saline
PET	Pancreatic endocrine tumour
PNET	Pancreatic neuroendocrine tumour
PP	Pancreas polypeptide
PPI	Proton pump inhibitor
ROC	Receiver operating characteristic
RT	Room temperature
s.e.	Standard error
SEER	Surveillance, Epidemiology and End Results database
SEM	Standard error of the mean
sEndoglin	Soluble endoglin
SRS	Somatostatin receptor scintigraphy
SSPS	Statistical Package for Social Sciences
St. dev.	Standard deviation
TBS	Tris-buffered saline
TGF- $\beta$	Transforming growth factor beta
TNM	Tumour node metastasis
VEGF	Vascular endothelial growth factor
vHLD	Von Hippel-Lindau disease
VIP	Vasoactive intestinal peptide
WDHA	Watery diarrhea hypokalemia achlorhydria
WHO	World Health Organization
ZES	Zollinger-Ellison syndrome