SECOND JOINT MEETING OF THE ITALIAN AND DUTCH PHARMACOLOGICAL SOCIETIES

LUNTEREN, FEBRUARY 12-14, 2003

Wednesday February 12

13:00-14:00	Lunch		
14:00-15:30	Business Meeting of the Dutch Pharmacological Society		
15:35	Opening of the Joint Meeting V. Cuomo, P. Saxena		
15:45-17:35	I. Pulmonary pharmacology (P. Geppetti, Firenze; J. Zaagsma, Groningen) Plenary symposium in remembrance of S. Nicosia		
	H. Meurs, Groningen	NO in allergic asthma: excess or shortness?	
	G.E. Rovati, Milano	Leukotrienes in asthma pathophysiology	
	Oral abstract presentations		
	A.R. Kranenburg et al., Rotterdam	Enhanced bronchial expression of vascular endothelial growth factor and receptors (FLK-1 and FLT-1) in patients with chronic obstructive pulmonary disease	
	S. Marzocco et al., Salerno	Anti-inflammatory activity of methylguanidine on carrageenan induced rat pleurisy	
	M. Kool et al., Utrecht	Role for the neurokinin-1 receptor in the early phase of non-IgE mediated pulmonary hypersensitivity reactions	
	H. Maarsingh et al., Groningen	Role of arginase in neuronal nitric oxide production and airway smooth muscle relaxation induced by inhibitory nonadrenergic noncholinergic (iNANC) nerve stimulation	
17:35-17:50	Break		
17:50-19:40	 II. Pharmacology of migraine H. Doods, Biberach G. Geppetti, Firenze (L.A. Pini, Modena;	P. Saxena, Rotterdam) CGRP and migraine Trigeminal neurons and migraine	

Oral abstract presentations U. Arulmani et al., Rotterdam

Effects of BIBN4096BS on capsaicin-induced haemodynamic changes in a porcine

experimental model for migraine

Serotonergic and opiatergic modifications induced by paracetamol as a model for daily chronic headache with analgesic overuse L.A. Pini et al., Modena

S. Gupta et al., Rotterdam

A. Ottani et al., Modena

Differential potency of BIBN4096BS in blocking CGRP relaxations in human distal and proximal coronary arteries

Different effect of sumatriptan in models of thermal, chemical or cephalalgic pain in rats

17:50-19:40 III. CNS effects of steroids

A. Ederveen, Oss

M.L. Barbaccia, Roma

Oral abstract presentations F. di Michele et al., Roma M. Serra, Cagliari (G. Biggio, Cagliari; A. Rijnders, Oss)

The use of in vivo models in drug development to elucidate tissue selectivity of partial estrogen receptor agonists

Neurosteroids and the mechanism of action of antipsychotic drugs

Neuroactive steroids in Parkinson's disease

Social isolation-induced increase in the sensitivity of rats to the steroidogenic effect of ethanol

19:40-20:30 Reception/posters

20:30 Dinner

Thursday February 13

07:45-09:00 Breakfast

09:00-12:00 IV. Neuropeptides (A. Bertolini, Modena; B. Olivier, Utrecht)

> G. van Dijk, Groningen Involvement of the brain melanocortin system in regulation of energy balance

A. Bertolini, Modena Melanocortins in shock and in other conditions of tissue hypoxia

B. Olivier, Utrecht The CRH-overexpressing mouse: model for depression?

F. Drago, Catania Neurotransmitter interactions in the amnesic effects induced by beta-amyloid related

peptides

10:40-11:00 Break

Oral abstract presentations

J. Hillebrand, Utrecht The melanocortin system and eating disorders

Chronic intracerebroventricular infusion either of a melanocortin agonist and of a A.V. Vergoni et al., Modena

melanocortin antagonist at low doses profoundly modifies energy balance without any

other behavioral effect in rats

K. de Vries et al., Groningen The central melanocortin system and metabolism

M. Massi et al., Camerino Inhibition of CRF-induced anorexia by NOP receptor activation

V. Immunopharmacology (C. Riccardi, Perugia; F. Nijkamp, Utrecht) 09:00-12:00

> F. Redegeld/A. Kraneveld. Utrecht Free light chain elicits immediate hypersensitivity-like responses: possible

> > implication for asthma

Glucocorticoid hormones and regulation of T lymphocytes activation and death C. Riccardi, Perugia Virally encoded G Protein-coupled receptors: new targets for drug therapy M. Smit. Amsterdam

S. Cuzzocrea, Messina

Ligands of the peroxisome proliferator-activated receptor-y (PPAR-y) reduce acute and

chronic inflammation

10:40-11:00 Break

Oral abstract presentations

M.W. Zuurman et al., Groningen L-CCR: a novel functional C-C chemokine receptor expressed in murine glial cells R. d'Emmanuele di Villa Bianca et al., Napoli Role of endothelium derived hyperpolarizing factor (EDHF) in glucocorticoids induced

hypertension

A. Rijnerse et al., Utrecht Validation of a murine model for colonic hypersensitivity

Signals through the TNFR superfamily (TNFRSF) member GITR are costimulatory to T S. Ronchetti et al., Perugia

lymphocytes

12:00-14:00 Lunch/posters

14:00-15:00	Plenary lectures (J. Smits, Maastricht; A. Mugelli, Firenze E. Cattaneo, Milano R. Leurs, Amsterdam	Huntington: a "model" disease Do receptors need ligands?
15:00-15:30	Break	
15:30-16:30	Plenary lectures (J. Smits, Maastricht; F. Drago, Catania) F. Nicoletti, Roma R. Masereeuw, Nijmegen	Cell cycle activation and neuronal death Endothelin-regulated drug transport in the kidney
16:30-17:00	Break	
17:00-18:00	Ariëns lecture (P. Saxena) Ariëns lecturer: H. Timmerman, Amsterdam	
19:00	Banquet	

Friday February 14

07:45-08:30	Breakfast	
08:30-11:30	 VI. Cardiovascular Pharmacology: Heart Failure (L. Berri W. van Gilst, Groningen E. Cerbai, Firenze M. Blankesteijn, Maastricht M. Ziche, Siena 	New concepts on the treatment of heart failure with RAS inhibitors Electrophysiologic remodeling in heart failure The myofibroblast as a therapeutic target to prevent heart failure development after myocardial infarction Coronary dysfunction and angiogenesis
10:10-10:30	Break	
	Oral abstract presentations A. Nap et al., Amsterdam G. Lonardo et al., Firenze B. Tom et al., Rotterdam L. Raimondi et al., Firenze	Different AT_1 -receptor subtypes at prejunctional and postjunctional sites: AT_{1A} versus AT_{1B} -receptors ANP increases the pacemaker current (I_F): A potentially new link between stretch and arrhythmogenesis? No role for oxygen-derived free radicals in angiotensin-II-mediated vasoconstriction of human coronary arteries Chronic treatment with ω -3 PUFA decreases plasma concentration of asymmetric dimethylarginine (ADMA) in aging SHR rats
08:30-11:30 10:10-10:30	VII. Pharmacology of Drug Abuse (W. Fratta, Cagliari; J. T. Schoffelmeer, Amsterdam L. Fattore, Cagliari A. Cools, Nijmegen P. Nencini, Roma Break	van Ree, Utrecht) Towards a pharmacotherapy of relapse behavior Opioid-cannabinoid interactions in release mechanisms to drug-seeking Individual differences in winerability to drugs of abuse: role of genetic background, early postnatal factors, and stress What makes heroin different: the case of morphine glucoronidation
10.10-10.30	Oral abstract presentations J.R. Homberg, Amsterdam P. Fadda et al., Cagliari E.D. Schmidt, Amsterdam M.R. Carratù et al., Bari	Neuropharmacological assessment of enhanced motivation of rats to self-administer cocaine Antagonism by baclofen of nicotine rewarding effects: behavioral and neurochemical studies Drug-specific hot spots in rat brain associated with relapse to heroin-seeking behavior An experimental model simulating gestational carbon monoxide exposure in human cigarette smokers: subtle myelin alterations in rat offspring

11:30-13:00 Lunch

13:00-16:00 VIII. Endocrine Pharmacology: Diabetes (M. Carruba, Milan; P. Smits, Nijmegen)

P. Smits, Nijmegen
Coral blood glucose lowering drugs: new aspects
Hyperglycemia and cardiovascular damage

E. Blaak, Maastricht Disturbances in fatty acid metabolism in type 2 diabetes mellitus

E. Nisoli, Milano Role of nitric oxide in adipose cell biology

14:40-15:00 Break

Oral abstract presentations

G.A. Rongen, Nijmegen Tc-99m-HYNIC-Annexin V scintigraphy: detection of ischemic preconditioning in humans

in vivo

L. Raimondi et al., Firenze Glucose disposition and electrophysiological features in diabetic cardiomyocytes: the

effect of angiotensin II blockade

P. Pickkers et al., Nijmegen Activation of the ATP-dependent potassium channel attenuates noradrenalin-induced

vasoconstriction in the human forearm

S. Grande et al., Milan (pres. Visioli) Mediterranean wild plant extracts ameliorate endothelial function: an in vitro study

13:00-16:00 IX. Receptor Pharmacology (P.A. Borea, Ferrara; R. Leurs, Amsterdam)

A. IJzerman, Leiden Allosteric modulation of G protein-coupled receptors

P. Borea, Ferrara Adenosine receptors and cancer: new pharmacological targets?

C. van Koppen, Oss

Molecular pharmacology of low molecular weight agonists for the lutropin receptor

M.A. Riva, Milano

Dopaminergic system and modulation of neurotrophic factor expression in the rat brain

14:40-15:00 Break

Oral abstract presentations

M.C. Hendriks-Balk et al., Weesp

E. Giannini et al, Roma

M.C. Wittendorp et al., Groningen

The role of RGS4 in ligand-directed signaling of the dopamine D2-receptor

Prokineticins and their receptors participate in the peripheral transmission of

inflammatory pain

CL-IB-MECA induced release of CCL2 by astrocytes: possible role for the adenosine A3

receptor?

G. De Sarro et al., Catanzaro (pres. Gallelli)

Tetrahydroisoquinoline derivatives: a new class of non-competitive AMPA receptor

antagonists with potential anticonvulsant activity.

16:00 Adjournment

POSTERS

V.K.T. Allagappan et al. Insulin-like growth factors stimulate proliferation of cultured human airwya epithelial but not smooth muscle cells

R.A. Bakker et al. Inverse agonists reveal conditional synergy between Gαi- and Gαq-coupledreceptors W.W. Batenburg et al. AT₂ receptor-mediated vasodilation in human and rat coronary arteries. Role of nitric oxide

F. Borelli et al. Green tea and gastrointestinal cancer risk

M. Bruysters et al. A mutagenic and *in silico* approach to characterise the histamine H1-receptor binding-pocket M. Bucci et al. Involvement of heat shock protein 90 (Hsp-90) in testosterone-induced vasorelaxation in vitro

W.M. Blankesteijn et al. Time course of gene expression in infarcted and non-infarcted areas of the left ventricle after MI, analyzed by microarray

P. Casarosa et al. Differential constitutive signaling properties of the human and rat cytomegalovirus- encoded receptors UL33 and R33

S. Casini et al. Functional characterization of a novel Brugada syndrome mutation in the cardiac Na⁺ channel Role of calcitonin gene-related peptide in ischaemic preconditioning in rat isolated heart

S. Cuzzocrea et al.

A.A. de Groot et al.

Role of teachorisis gene related peptide in isolated means.

Role of the inducible nitric oxide synthase in experimental model of acute pancreatitis.

Involvement of the beta(3) adrenoceptor in nebivolol-induced vasorelaxation in the rat aorta.

I.M. Dijkstra et al. Expression and functional activity of the chemokine receptor CXCR3 in microglia and its role in neurodegenation

M. Festa et al. Petrosaspongiolide M reduces morphine withdrawal in vitro

M. Fornai et al. Gastrin/CCK-2 receptors mediate relaxant effects of gastrin and cck-8s on the motility of the distal colon

M.N. Ghayur et al. Pharmacological basis for the cardiodepressant and sialogogue effects of betel nut

R. Gosens et al. Role of PKC and p42/p44 MAP kinase in synergism of airway smooth muscle proliferation induced by G-protein coupled receptor agonists

and growth factors

R. Gosens et al. Cholinergic synergism of mitogenesis in airway smooth muscle is mediated by muscarinic M₃-, not M₂-receptors

E. Lipsic et al. Erythropoietin activates MAP kinase in isolated rat hearts

S. Marzocco et al.

M. Massi et al.

S. Notenboom et al.

Inhibition of nitric oxide synthase expression by yuccaol c isolated from Yucca schidigera roezl

Effect of nociceptin-orphanin FQ on ethanol self-administration and ethanol seeking behaviour in rats

Short-term gentamicin exposure to renal proximal tubule has long-term intracellular signaling consequences

P. Ochodnický et al. Variability in renal damaging effects of doxorubicin explained by variability in prevailing renal blood flow

J. Oostendorp et al.

Localization and regulation of expression of the orphan chemokine receptor L-CCR in the lung in a murine model of ovalbumin-induced airway inflammation

J.B.G. Paquay et al. Contractile properties of myocardial scar tissue

A. Popolo et al. Role of calcium flux on vascular hyporeactivity induced by endothelial mechanical injury in rat carotid arteries

C. Sand et al. The contribution of endogenously produced reactive oxygen species to the inotropic and chronotropic effects of adrenoceptor- and et-

receptor stimulation

M.W. Sanders et al. Effects of prenatal stress on renal function and blood pressure in adult rats

M. Sandovici et al. Differential regulation of glomerular and interstitial endothelial nitric oxide synthase expression in the kidney of the hibernating ground squirrel

J.J. Saris et al. (Pro)renin receptor-dependent responses in cardiomyocytes: do they occur?

M.P.Schuijt et al. Superoxide: a direct or an indirect vasoconstrictor?

I. Serraino et al. Pyrrolidine dithiocarbamate modulates the severity of cerulein induced murine acute pancreatitis

P.H.E. Smeets et al. ATP-dependent transport of *para*-aminohippurate and fluorescein by multidrug resistance proteins 2 and 4 (MRP2/ABCC2 and

MRP4/ABCC4)

J.O. Streefkerk et al.

D.L. Valstar et al.

Facilitating effect of vasopressin on sympathetic nervous system in the human plethysmography model
Depletion on lung function and airway inflammation in a rat model for tma-induced occupational asthma

H.P.M. van der Kleij et al. Functional expression of neurokinin-1 receptors on mast cells induced by IL-4 and SCF

E.C.A.M. van Esch et al. T.J.A. van Eijl et al. J. van Golde et al. A.H. van Houwelingen et al. C.E. van Meijeren et al. J.L.M. Vissers et al. Role for IL-10 in allergen immunotherapy in a mouse model of allergic asthma

Use of ex-vivo perfusion to assess lung function changes in a murine model of elastase-induced emphysema Mechanisms of sympathetic hyperinnervation in chick embryo exposed to chronic moderate hypoxia

F991, a new therapeutical compound for contact dermatitis

Use of different pharmacological tools in search for an alternative in vitro method for the histamine sensitization test in mice

Stimulation of IL-10 production by allergen-loaded macrophages enhances the immunosuppressive effects in a mouse model of allergic

asthma

J.P.M. Wesselman et al. Role of the rho/rho kinase pathway in flow-related remodeling of rat resistance arteries in vivo