

VOLUME 18, 1997/4 ISSUES

Editor-in-Chief: Peter G. Fedor-Freybergh

NEL Vol. 18 No. 1

Ameliorative Effects of Fragments of Vasoactive Intestinal Peptide (VIP) and Related Peptide on Impaired Performance Caused by Scopolamine in Rats
by Yoshima Yamaguchi, M. Higashi, M. Nishio & H. Kobayashi
1997; **18**:1–6

Effects of PACAP, VIP and their Peptide Fragments on Scopolamine-Induced Impaired Performance and on the CHAT Activity in the Brain of Rats
by Yoshima Yamaguchi, M. Higashi, M. Nishio & H. Kobayashi
1997; **18**:7–14

Suppression of N-Nitroso-N-Methylurea Induced Second Generation Rat Mammary Tumours with Combined Melatonin-Tamoxifen Therapy
by Lalita Kothari, A. Kothari, A. Borges, I. Mitra & S. Kabre
1997; **18**:15–20

Human Prolactinomas in Cell Culture: Structure-Function Correlation and Indication of Early Relapse
by Chih-Jen Wang & S.L. Howng
1997; **18**:21–26

Acute and Chronic Effects of Insulin on the Activities of Monoamine Oxidase and Antioxidant Enzymes in the Rat Hypothalamus
by Vukosava Davidovic, R. Radojicic, G. Cvijic & S. Djurasevic
1997; **18**:27–32

Caffeine Effect on the Secretion of Immunoreactive Parathyroid Hormone by Different Brain Areas of Sheep—An *In Vitro* Study
by Georg Bühler, S. Balabanova & J. Rosenthal
1997; **18**:33–40

The Implication of the Rat Pineal Gland in Leydig Cells Reactive Response to Acute Immobilization
by Tatjana Kostic, J. Milin & D. Maric
1997; **18**:41–46

NEL Vol. 18 Nos.2/ 3

Both Melatonin and a Putative Nuclear Melatonin Receptor Agonist CGP 52608 Stimulate Glutathione Peroxidase and Glutathione Reductase Activities in Mouse Brain *In Vivo*
by M. I. Pablos, J. M. Guerrero, G. G. Ortiz, M. T. Agapito & R. J. Reiter
1997; **18**:49–58

Melatonin Regulation of Tumor Growth and the Role of Fatty Acid Uptake and Metabolism
by D. E. Blask, L. A. Sauer & R. T. Dauchy
1997; **18**:59–62

Pineal Gland and Cancer: An Old Concept with Potential for the Future
by C. Bartsch and H. Bartsch
1997; **18**:63–72

Melatonin: A Synchronizing Signal for the Immune System
by D. R. Cardinali, L. I. Brusco, L. Selgas & A. I. Esquifino
1997; **18**:73–84

Neurochemical Markers of Emesis Induced by Anti-Cancer Drugs: Role of Central Mechanisms
by S. H. Parvez, M. Minami, P. Caudy, T. Endo, S. Parvez, M. Hirafuji, N. Hamaue, K. Akita, H. Saito, M. Yoshioka & G. Qureshi
1997; **18**:85–102

Peptides in Processes of Learning and Memory
by Y. Yamaguchi, S. Kawashima & H. Kobayashi
1997; **18**:103–110

Glutathione and Metallothionein in Neurodegeneration-Neuroprotection of Parkinson's Disease
by M. Ebadi, J. F. Rodriguez-Sierra & N. S. Norton
1997; **18**:111–121

Cytochemical, Scanning Electron Microscopy X-ray Microanalysis and Spectrophotometric Study of Ca²⁺ Contents and Distribution in the Rat Pineal Gland During Ontogenetic Development
by L. M. Barragán, D. L. Pizarro, M. B. Gómez Esteban, J. C. Carvajal, S. Carbajo & A. J. Alvarez-Morujó
1997; **18**:123–133

Involvement of Nitric Oxide in the Ameliorative Effect of Vasoactive Intestinal Peptide on Impaired Performance induced in Rats by Scopolamine in Radial-Arm Maze
by Y. Yamaguchi, M. Higashi & H. Kobayashi
1997; **18**:135–139

Pre- and Neonatal Control of Pituitary Hormone Secretion in the Pig
by N. Parvizi
1997; **18**:141–152

The GnRH-Containing Synapses in the Preoptic Area of Normal and Ovariectomized Female Rat: Immunocytochemical Study
by B. Gajkowska & K. Kochman
1997; **18**:153–159

Drugs and the Calcium-Homeostasis Hormones—A Review
by G. Bühler, S. Balabanova & J. Rosenthal
1997; **18**:161–169

Obituary to Derek Gupta
by Peter G. Fedor-Freybergh
1997; **18**:172–174

NEL Vol. 18 No. 4

Evidence for Prolactin Releasing Activity of Neuropeptide FF in Rats
by A. A. Aarnisalo, R. K. Tuominen, M. Nieminen & Panula
1997; **18**:191–196

Quinolinic Acid: Lipolytic Effect
by M. Beskid, J. Jachimowicz & Z. Obminski
1997; **18**:197–201

Testosterone is Locally Metabolized in Human Brain Tumors, with Possible Qualitative and Quantitative Changes in Its Effects
by H. J. Stuerenberg, I. Breivik, M. J. A. Puchner, F. Lohmann & K. Kunze
1997; **18**:203–213

Estrogen-Brain Relationship During Development and Aging: Effects on Glial Cells
by R. Kapur by P. S. Timiras
1997; **18**:215–220

Melatonin, Dehydroepiandrosterone and RZR/RORLigand CGP 52608 Attenuate the Stress-Induced Gastric Lesion Formation in Rats
by A. Gruszka, J. Kunert-Radek, M. Pawlikowski & M. Karasek
1997; **18**:221–229

VOLUME 19, 1998/4 ISSUES

Editor-in-Chief: Peter G. Fedor-Freybergh

NEL Vol. 19 No. 1

The Clock and the Mirror—New Vistas for Melanocortins

by F. L. Strand
1998; 19:5-14

Effects of Melatonin Administration in Advanced Breast Cancer Patients, Preliminary Report

by M. Karasek, K. Kuzdak, J. Cywinski, K. Zylinska, A. Smialowska & A. Pluzanska
1998; 19:15-19

Sympathetic Regulation of Immune Response in Cadmium Exposed Mice

by S. B. Lall & G. Dan
1998; 19:21-25

Responsiveness of the Reproductive System to Pineal Hormones and to Serotonergic Drugs in the Developing and in the Aging Rat

by C. Ruzsás & K. Shirama
1998; 19:27-32

Effects of Fasting and Aprotic Diet on Prolactin Regulation in the Rat

by O. Ponzo, D. Rondina, S. Nacht, B. Szwarcfarb, S. Carbone, J. Moguilevsky & P. Scacchi
1998; 19:33-38

Similarities and Differences of Retinal N-Acetyltransferase Activities in the Early and Late Development of the Chick Embryo

by A. Espinar, J. M. Guerrero & C. Osuna
1998; 19:39-42

Extracellular Concentration of Monoamines and Their Metabolites in the Mediobasal Hypothalamus-Median Eminence of Ewes During b-Endorphin Treatment

by D. Tomaszewska, K. Mateusiak & F. Przekop
1998; 19:43-53

NEL Vol. 19 No. 2

Impaired Synthesis of Immunoreactive Placental Calcitonin by Ethanol and Its Possible Role in the Fetal Alcohol Syndrome

by G. Bühler, S. Balabanova, F. A. Wolf & J. Rosenthal
1998; 19:67-70

Antiproliferative Effects of Melatonin and CGP 52608 on the Murine Colon 38 Adenocarcinoma

In Vitro and In Vivo
by M. Karasek, K. Winczyk, J. Kunert-Radek, I. Wiesenberg & M. Pawlikowski
1998; 19:71-78

Ultrastructural Demonstration of NADPH-Diaphorase, a Marker for Nitric Oxide Synthase in Hypothalamo-Neurohypophysial System, Hippocampus and Cerebral Cortex of the Rat After Ischemia

by B. Gajkowska & M. Walski
1998; 19:79-85

Melatonin Is Elevated in Highly Gifted Musicians

by M. Hassler & D. Gupta
1998; 19:87-91

Synthesis of 5-alpha-pregnane-2,20-dione and 5-alpha-pregnane-3-alpha-ol-20-One in Human Brain Tumors

by H. J. Stuerenburg, H. Schuhmacher, F. Lohmann, M. Puchner, I. Breivik & K. Kunze
1998; 19:93-99

NEL VOL. 19 No. 3

Melatonin Treatment Stabilizes Chronobiologic and Cognitive Symptoms in Alzheimer's Disease

by Luis I. Brusco, Miguel Márquez & Daniel P. Cardinali
1998; 19:111-115

Pinoline and Melatonin Protect Against H2O2-Induced Lipid Peroxidation in Rat Brain Homogenates

by Tina J. P. Frederiksen, Gitte Pless, Joaquin J. Garcia & Russel J. Reiter
1998; 19:117-123

Effects of Alclosterine Replacement on the Radial Arm Maze Performance of Adrenalectomized Rats

by Paul R. Vaheer & Bruce S. McEwen
1998; 19:125-137

Synchronized Seasonal Variation in Plasma Melatonin and Plasma Tryptophan and the Immune System

by Michael Maes, Simon Scharpé, Robert Verkerk, Wim Stevens, Dirk Peeters & Peter D'Hondt
1998; 19:139-146

Application of Neural Networks and Pattern Recognition Methods to the Evaluation of Speech Deformation Degree for Patients Surgically Treated for Larynx Cancer

by Elzbieta Reron, Ryszard Tadeusiewicz, Maciej Modrzejewski & Wieslaw Wszolek
1998; 19:147-157

Effect of Naloxone on Immunoreactive Parathyroid Hormone in Cerebrospinal Fluid and Plasma in Sheep

by Georg Bühler, Svetla Balabanova & Julian Rosenthal
1998; 19:159-163

NEL VOL.19 No. 4

Melatonin Retards the Growth of Diethylstilbestrol-Induced Renal Tumors in Male Syrian Hamsters

by Bryant Benson
1998; 19:173-180

Effectiveness of Ubiquitin Therapy of Sensorineural Hearing Loss in Children

by Elzbieta Reron, Gabriel Turowski & Eugeniusz Olszewski
1998; 19:181-189

Effects of Type 2 Adrenal Receptor Agonist RU28362 on the Radial Arm Maze Performance of Adrenalectomized Rats

by Paul R. Vaheer & Bruce S. McEwen
1998; 19:190-201

The Pineal and Vasopressin Synthesis

by Ewa Bojanowska, Marlena Juszcak, Jan W. Guzek, Ryszard Dabrowski
1998; 19:202-206

Ultrastructural Analysis of Rat's Hypothalamo-Neurohypophysial System in a New Experimental Model of Clinical Death

by Barbara Gajkowska & Andrzej Kapuscinski
1998; 19:207-214

VOLUME 20, 1999/6 ISSUES

Editor-in-Chief: Peter G. Fedor-Freybergh

NEL Vol. 20 Nos 1/2, 1999

EDITORIAL:

"All true life lies in encounter..."

by Peter G. Fedor-Freybergh
1999; 20:1-5

FROM THE ART DIRECTOR'S DESK:
Encountering Neuroendocrinology Letters in its new appearance

by Lili Maas
1999; 20:6

GUEST EDITORIAL:

Citation data: the wrong impact?

by Charles Jennings
1999; 20:7-10

NEL REVIEW:

Activation of the inflammatory response system: A new look at the etiopathogenesis of major depression

by Dirk van West & Michael Maes
1999; 20:11-17

ORIGINAL ARTICLES:

Effects of aprotic diet on hypothalamic-pituitary-gonadal regulation in the male rat

by Osvaldo J. Ponzo, Dora Rondina, Berta Szwarcfarb, Silvia Carbone, Jaime Moguilevsky & Pablo Scacchi
1999; 20:19-24

General and unspecific damping by malignancy of the circadian amplitude of circulating human melatonin?

by Brunetto Tarquini, Germaine Cornélissen, Roberto Tarquini, Federico Perfetto & Franz Halberg
1999; 20:25-28

A half-yearly aspect of circulating melatonin in pregnancies complicated by intrauterine growth retardation

by Cristina Maggioni, Germaine Cornélissen, Roberto Antinozzi, Marco Ferrario, Armin Grafe & Franz Halberg
1999; 20:55-68

Maternal melatonin influences rates of somatic and reproductive organs post-natal development of male rat offspring

by Beatriz Díaz, Elena Díaz, M^a Dolores Colmenero, Agustin Arce, Ana Esquifino & Bernardo Marín
1999; 20:69-76

Effects of oxytocin and vasopressin on retrieval of passive avoidance response

in melatonin-treated and/or pinealectomized male rats

by Marlena Juszcak, Edgar Appenrodt, Jan W. Guzek & Helmut Schwarzberg
1999; 20:77-81

Progesterone inhibits embryotoxic effect of the complement system

by Pavla Nováková & Michal Zeman
1999; 20:105-108

Detection of secretory immunoglobulin A (SIgA) in saliva of ventilated and non-ventilated preterm neonates

by Julie A. Hayes, Elvidina N. Adamson-Macedo, Shantha Perera & Janet Anderson
1999; 20:109-113

Opioid modulation of hypothalamic catecholaminergic neurotransmission and the pre-ovulatory LH surge in the rat

by Bayram Yilmaz & Desmond P. Gilmore
1999; 20:115-121

Evaluation of crystallization processes in the calculi of the submandibular salivary glands

by Elzbieta Reroń, Jacek Skladzień, Marek Pawlikowski & Janusz Stepiński
1999; 20:123-125

THE STORY BEHIND:

Pineal mythology and chronorisk: The Swan Song of Brunetto TARQUINI

by Franz Halberg, Germaine Cornélissen, Othild Schwartzkopff, Mario Cagnoni, Federico Perfetto & Roberto Tarquini
1999; 20:91-100

Chronome/chrone

by Franz Halberg, Germaine Cornélissen, Othild Schwartzkopff, Mario Cagnoni, Federico Perfetto & Roberto Tarquini
1999; 20:101

Chronorisk/Circadian-Circannual (Macey, 1994)

by Franz Halberg, Germaine Cornélissen, Othild Schwartzkopff, Mario Cagnoni, Federico Perfetto & Roberto Tarquini
1999; 20:102-104

SEASON'S APPRECIATIONS:

Seasons Appreciations 1998

by Franz Halberg, Germaine Cornélissen, Mary Sampson, George Katinas & Othild Schwartzkopff
1999; 20:31-43

HOMMAGE:

A Tribute to Franz Halberg on his 80th Birthday

by Peter G. Fedor-Freybergh
1999; 20:46-47

PHILOSOPHY BEHIND SCIENCE:
The European discoveries in prenatal ethnology and archeology of the mind

by Helga Blazy
1999; 20:83-90

BOOK REVIEWS:

Melatonin-Your Body's Natural Wonder Drug by Russel J. Reiter & Jo Robinson

by Peter G. Fedor-Freybergh
1999; 20:18

Publishing Your Medical Research Paper, What they don't teach in Medical School by Daniel W. Byrne

by Peter G. Fedor-Freybergh
1999; 20:44

CONGRESS REPORT:

9th International Congress of the Czech and Slovak Neurochemical Society

by Bela Mess
1999; 20:50

NEL ARTISTS:

Axell Nordell 1999; 20:54
Vladimír Jiránek 1999; 20:29, 30, 51
Gertrud Håkansson 1999; 20:114

INSTRUCTIONS FOR AUTHORS:

Valid from Vol. 20. Nos. 3/4, 1999.
1999; 20:127-133

COMING EVENTS:

The 4th International Congress International Society for Neuroimmunomodulation ISNIM-99

1999; 20:126

CONTENTS, Vol. 20 No. 3/4, 1999

VOLUME 20, 1999/6 ISSUES

Editor-in-Chief: Peter G. Fedor-Freybergh

EDITORIAL:

by Peter G. Fedor-Freybergh
1999; **20**:135–136

FROM THE ART DIRECTOR'S DESK:

by Lili Maas
1999; **20**:137

GUEST EDITORIAL:

by Michal Karasek & Marek Pawlikowski
1999; **20**:138

INVITED NEL REVIEWS:

Pineal gland, melatonin and cancer

by Michal Karasek & Marek Pawlikowski
1999; **20**:139–144

Oxidative damage to nuclear DNA: amelioration by melatonin

by Russel J. Reiter
1999; **20**:145–150

Reciprocal interdependence between pineal gland and avian immune system

by Krystyna Skwarlo-Sonta
1999; **20**:151–156

ORIGINAL ARTICLES:

Effects of melatonin on the oxidative stress induced by thyrotoxicosis in rats

by Ewa Sewerynek, Joanna Wiktorska & Andrzej Lewinski
1999; **20**:157–161

Effects of melatonin on 24-h rhythms of neuroendocrine and immune changes in Freund's adjuvant-induced arthritis

by Ana I. Esquifino & Daniel P. Cardinali
1999; **20**:163–166

Melatonin secretion in patients with pineal region tumors—preliminary report

by Marek Mandera, Piotr Bazowski, Tadeusz Wencel & Renata Dec
1999; **20**:167–170

The effect of morphine on melatonin secretion in the domestic pig. *In vivo* and *in vitro* study

by Bogdan Lewczuk, Barbara Przybylska-Gornowicz & Zygmunt Wyrzykowski
1999; **20**:171–178

Induction of endothelial nitric oxide synthase in perivascular mast cells in rat neurohypophysis after ischemia

by Barbara Gajkowska & Robert Gniadecki
1999; **20**:189–193

Hormonal evaluation in schizophrenic patients treated with neuroleptics

by Kristina Melkersson, Anna-Lena Hulting & Kerstin Hall
1999; **20**:199–204

Mercury and nickel allergy: risk factors in fatigue and autoimmunity

by Ivan Sterzl, Jarmila Procházková, Pavlína Hrdá, Jirina Bártová, Petr Matucha & Vera DM Stejskal
1999; **20**:221–228

Effect of melatonin on *in vitro* gonadotropins and prolactin release from pituitary LHRH stimulated, and median eminence and on ovarian response to hCG in middle-aged female rats

by Elena Díaz, Carmen Fernández, Patricia O. Castrillón, Ana I. Esquifino, Bernardo Marín & Beatriz Díaz
1999; **20**:229–236

New analogs of somatostatin: inhibiting effectively GH, glucagon and insulin levels

by Bogusława Baranowska, Malgorzata Radzikowska, Elzbieta Wasilewska-Dziubinska, Artur Plonowski, Krzysztof Roguski, Anna Legowska & Józef Przybylski
1999; **20**:237–244

THE STORY BEHIND:

Melatonin in humans—where we are 40 years after its discovery

by Michal Karasek
1999; **20**:179–188

PHILOSOPHY BEHIND SCIENCE:

Psychoimmuno-neuroendocrinology: an integrative approach to modern philosophy in medicine and psychology

by Peter G. Fedor-Freybergh
1999; **20**:205–213

ART BEHIND SCIENCE:

An analysis of Peer Gynt

by Tore Håkansson
1999; **20**:195–197

NEL ARTISTS:

Lili Maas “Notre devoir réel,…”

1999; **20**:206–207

Lili Maas “The stairs”

1999; **20**:206–207

Lili Maas “Borromini sul Lago”

1999; **20**:214–215

Lili Maas “The Swing of the Gods”

1999; **20**:218–219

Lili Maas “Prague is waiting for you”

1999; **20** inside backcover

Vladimir Jiránek

1999; **20**:162, 194, 252

INSTRUCTIONS FOR AUTHORS:

Instructions 1999; **20**:245–252

CONTENTS, Vol. 20 No. 5, 1999

EDITORIAL

by Peter G. Fedor-Freybergh
1999; **20**:253–254

FROM THE ART DIRECTOR'S DESK

by Lili Maas
1999; **20**:255

GUEST EDITORIALS:

Peer review and editorial decision-making

by Louise Howard & Greg Wilkinson
1999; **20**:256–260

Editor creates journal

by J. L. Crammer
1999; **20**:261–262

Quantifying quality

by H. L. Freeman
1999; **20**:263

INVITED NEL REVIEW:

The actions of melanin and melanocyte stimulating hormone (MSH)

by Natalie Rasmussen, Francine Nelson, Piyarat Govitrapong & Manuchair Ebadi
1999; **20**:265–282

ORIGINAL ARTICLES:

Metal-specific lymphocytes: biomarkers of sensitivity in man

by Vera DM Stejskal, Antero Danersund, Anders Lindvall, Romuald Hudecek, Veronica Nordman, Amer Yaqob, Wolfgang Mayer, Wilfried Bieger & Ulf Lindh
1999; **20**:289–298

Wavelength dependency of light-induced changes in rhythmic melatonin secretion from chicken pineal gland *in vitro*

by Valér Csernus, Péter Becher & Béla Mess
1999; **20**:299–304

Effect of isologous pineal transplants on tumorigenesis of autologous intrasplenic ovarian transplants in Swiss mice.

by Trimbak Chapekar
1999; **20**:305–309

VOLUME 20, 1999/6 ISSUES (cont.), VOLUME 21, 2000/6 ISSUES

Editor-in-Chief: Peter G. Fedor-Freybergh

Influence of hypovolemic and hypertonic treatments on plasma vasopressin levels and fluid balance in the propylthiouracil-induced hypothyroid rat

by Rasim Mogulkoç, Abdülkerim K. Baltacı, Bayram Yılmaz & Haluk Kelestimur
1999; **20**:311–314

Distribution of serotonin and its effect on insulin and glucagon secretion in normal and diabetic pancreatic tissues in rat

by Ernest Adeghate, Abdul Samad Ponery, David Pallot, S. H. Parvez & Jaipaul Singh
1999; **20**:315–322

Endocrinological and genetic studies in patients with Polycystic Ovary Syndrome (PCOS)

by Zahra Ghanaati, Hartmut Peters, Susanne Müller, Manfred Ventz, Bettina Pfüller, Zeng-Ajusch Enchshargal, Wolfgang Rohde & Günter Dörner
1999; **20**:323–327

CONGRESS REPORT:

Symposium honoring the 70th birthday of Prof. Günther Dörner
by Béla Mess
1999; **20**:264

Visual impressions from Congress in Lugano (ISNIM 99)

by Lili Maas 1999; **20**:286

NEL ARTISTS:

Lili Maas "Journey to Lugano"
1999; **20** inside backcover
Vladimír Jiránek
1999; **20**:288, 310, 330

CONTENTS, Vol. 20 No. 6, 1999

EDITORIAL:

by Peter G. Fedor-Freybergh
1999; **20**:331–332

FROM THE ART DIRECTOR'S DESK:

by Lili Maas
1999; **20**:333

GUEST EDITORIAL

Congress Report:

International Congress of Neuroimmunomodulation, ISNIM-99

by Ario Conti & Georges J.M. Maestroni
1999; **20**:335–342

INVITED NEL REVIEWS

The pineal gland as a central regulator of cytokine network

by Paolo Lissoni
1999; **20**:343–349

The role of metals in autoimmunity and the link to neuroendocrinology

by Jenny Stejskal & Vera DM Stejskal
1999; **20**:351–364

ORIGINAL ARTICLES

Expression of NADPH-diaphorase (NOS) in rat hypothalamo-neurohypophysial system after ischemic and traumatic brain injury

by Barbara Gajkowska, Michal Walski & Hanna Olszewska-Badarczuk
1999; **20**:365–372

Hypoxia induces oxytocin release in the rat

by Xue-Qun Chen & Ji-Zeng Du
1999; **20**:373–378

Interaction between central effects of ethanol and melatonin in mice

by Elzbieta Czarnecka, Elzbieta Kubik-Bogucka & Jaroslaw S. Strzelec
1999; **20**:379–383

Effects of neuropeptide Y (NPY), galanin and vasoactive intestinal peptide (VIP) on pituitary hormone release and on ovarian steroidogenesis

by Boguslawa Baranowska, Magdalena Chmielowska, Malgorzata Radzikowska, Monika Borowiec, Krzysztof Roguski & Elzbieta Wasilewska-Dziubinska
1999; **20**:385–389

The age-related quantitative ultra-structural changes in pinealocytes of gerbils

by Jacek Swietoslowski
1999; **20**:391–396

Concentration of neuropeptide Y, galanin, β -endorphin, vasoactive intestinal peptide and gonadotropin releasing hormone in the hypothalamus of gilts during the estrous cycle

by Adam J. Ziecik, Stanislaw Okrasa, Hanna Kalamarz, Mirosław Lakomy & Robert R. Kraeling
1999; **20**:397–403

NEL ARTISTS:

Vladimír Jiránek
1999; **20**:350, 384, 408
Josef Lada
1999; **20**:390, inside backcover

INDEXES:

Author Index, Subject Index
Vol. 20, 1999
1999; **20**:406–407

NEL Vol. 21, No. 1, 2000

EDITORIAL:

by Peter G. Fedor-Freybergh
2000; **21**:1–3

FROM THE ART DIRECTOR'S DESK:

by Lili Maas
2000; **21**:4

INVITED GUEST EDITORIAL:

The human body circadian: How the biologic clock influences sleep and emotion

by Daniel P. Cardinali
2000; **21**:9–15

INVITED NEL REVIEW

Melatonin and aging. A brief survey

by Csilla Rúzsás & Béla Mess
2000; **21**:17–23

ORIGINAL ARTICLES:

Testosterone levels and bone mineral density in young healthy men and in young infertile patients

by Michal Karasek, Jan Wieslaw Kochanski, Jadwiga Bierowiec, Jacek Suzin & Jacek Swietoslowski
2000; **21**:25–30

Evidence of pineal endocrine hypofunction in autistic children

by Gaia Kulman, Paolo Lissoni, Franco Rovelli, Maria Grazia Roselli, Fernando Brivio & Pierangelo Sequeri
2000; **21**:31–34

Influence of hypovolemic and hypertonic treatments on plasma vasopressin levels and fluid balance in the thyroidectomy-induced hypothyroid rats

by Rasim Mogulkoç, Osman Dogru, A. Kasim Baltacı, Bayram Yılmaz & Haluk Kelestimur
2000; **21**:35–38

Melatonin treatment stabilizes chronobiologic and cognitive symptoms in Alzheimer's disease

by Luis I. Brusco, Miguel Márquez & Daniel P. Cardinali
2000; **21**:39–42

VOLUME 21, 2000/6 ISSUES (cont.)

Editor-in-Chief: Peter G. Fedor-Freybergh

Effects of growth hormone (GH) and growth hormone releasing hormone (GHRH) on progesterone and estradiol release from cultured rat granulosa cells
by Bogusława Baranowska, Magdalena Chmielowska, Monika Borowiec, Krzysztof Roguski & Elżbieta Wasilewska-Dziubinska
2000; **21**:43–46

Effect of 24, 25-dihydroxycholecalciferol on the placental immunoreactive calcitonin
by Georg Bühler, Svetla Balabanova & Julian Rosenthal
2000; **21**:47–49

Pyrimidine and purine salvage deoxyribonucleoside metabolism in hepatic and renal homogenates from rats pretreated with propylthiouracil or L-thyroxine
by Malgorzata Karbownik, Hanna Modrzejewska, Russel J. Reiter, Krzysztof Zasada, Janusz Greger & Andrzej Lewinski
2000; **21**:51–55

PHILOSOPHY BEHIND SCIENCE: From ten years ago: Health in the 21st century—a change in belief systems
by Eli E. Lasch
2000; **21**:57–58

SEASON'S APPRECIATIONS: Circasemimillennial Season's Appreciations
by Franz Halberg, Germaine Cornélissen, Naoto Burioka, George Katinas, Mary Sampson & Othild Schwartzkopff
2000; **21**:59–68

NEL ARTISTS:
Lili Maas "The Pilgrimage"
2000; **21** inside backcover
Vladimír Jiránek 2000; **21**:16, 50, 76

NEL Vol. 21, No. 2, 2000

EDITORIAL
by Peter G. Fedor-Freybergh
2000; **21**:77

FROM THE ART DIRECTOR'S DESK
by Lili Maas
2000; **21**:79

INVITED NEL REVIEWS:
Diffuse neuroendocrine system and mitochondrial diseases: molecular and cellular bases of pathogenesis, new approaches to diagnosis and therapy
by Igor M. Kvetnoy, José Hernández-Yago, José Miguel Hernández, Tatiana V. Kvetnaia, Russel J. Reiter & Vladimír Kh. Khavinson
2000; **21**:83–99

Music medicine. A neurobiological approach
by Marianne Hassler
2000; **21**:101–106

ORIGINAL ARTICLES:
Serum melatonin circadian profile in women suffering from the genital tract cancers
by Michal Karasek, Andrzej J. Kowalski & Krystyna Zylinska
2000; **21**:191–113

Delta opioid modulation of hypothalamic serotonergic neurotransmission in the ovariectomized and steroid-primed rat
by Bayram Yilmaz & Desmond P. Gilmore
2000; **21**:115–120

Effect of somatostatin analog-octreotide on the adjuvant arthritis in rat
by Ilona Kurnatowska & Marek Pawlikowski
2000; **21**:121–126

Relationships of climatic data to immune and hematologic variables in normal human
by Michael Maes & Frans De Meyer
2000; **21**:127–136

Effects of somatostatin analogs octreotide and lanreotide on the proliferation and apoptosis in colon 38 tumor: interaction with 5-fluorouracil
by Gabriela Melen-Mucha, Katarzyna Winczyk & Marek Pawlikowski
2000; **21**:137–142

THE STORY BEHIND:
Hurdles to asepsis, universal literacy, and chronobiology—all to be overcome
by Franz Halberg, Henry Nash Smith, Germaine Cornélissen, Patrick Delmore, Othild Schwartzkopff & the International BIOCOS Group
2000; **21**:145–160

NEL ARTISTS:
Adela Fedor 2000; **21**:144
2000; **21** inside backcover
Vladimír Jiránek 2000; **21**:108, 114, 168

INSTRUCTIONS FOR AUTHORS:
Instructions 2000; **21**:161–166

NEL Vol. 21, No. 3, 2000

EDITORIAL:
"We stay on the intellectual shoulders of the giants of medicine from past days And we are able to see further than they did Only because they helped us to do so."
by Peter G. Fedor-Freybergh
2000; **21**:169–170

FROM THE ART DIRECTOR'S DESK:
by Lili Maas
2000; **21**:171

LETTER TO THE EDITOR:
Claude Bernard was right: hormones may be produced by "non-endocrine" cells
by Igor M. Kvetnoy, Russel J. Reiter & Vladimír Kh. Khavinson
2000; **21**:173–174

INVITED NEL REVIEW:
Neonatal Psychoneuroimmunology: Emergence, Scope and Perspectives
by Elvidina N. Adamson-Macedo
2000; **21**:175–186

ORIGINAL ARTICLES:
The mediating role of cutaneous sensitivity within neonatal psychoneuroimmunology
by J.A. Hayes, Elvidina N. Adamson-Macedo & Shantha Perera
2000; **21**:187–193

Comparative quantitative ultrastructural study of pinealocytes in eight mammalian species
by Michal Karasek & Anna Zielinska
2000; **21**:195–202

Influence of radiotherapy on 6-sulphatoxymelatonin levels in the urine of brain cancer patients
by Vijayalaxmi, Michael Selva, Russel J. Reiter, Martin L. Meltz, Thomas J. Prihoda, Jonathan Barnes, Belinda Z. Leal, Rajiv S. Dahiya & Terence S. Herman
2000; **21**:203–207

VOLUME 21, 2000/6 ISSUES (cont.)

Editor-in-Chief: Peter G. Fedor-Freybergh

The opposite effect of morning or afternoon application of melatonin on collagen accumulation in the sponge-induced granuloma

by Jacek Drobniak & Ryszard Dabrowski
2000; **21**:209–212

CASE REPORT:

Hemangiosarcoma of the Thyroid Gland. A case report

by Jaromír Astl, Jaroslava Dušková, Zdena Límanová, Ctibor Povýšil & Zdenka Kuchynková
2000; **21**:213–216

PHILOSOPHY BEHIND SCIENCE:

Complementarity is a useful concept for consciousness studies. A Reminder

by Harald Walach & Hartmann Römer
2000; **21**:221–232

THE STORY BEHIND:

Cross-spectrally coherent ~10.5- and 21-year biological and physical cycles, magnetic storms and myocardial infarctions

by Franz Halberg, Germaine Cornélissen, Kuniaki Otsuka, Yoshihiko Watanabe, George S. Katinas, Naoto Burioka, Anatoly Delyukov, Yuri Gorgo, Ziyang Zhao, Andi Weydahl, Robert B. Sothorn, Jarmila Siegelová, Bohumil Fišer, Jiri Dušek, Elena V. Syutkina, Federico Peretto, Roberto Tarquini, R.B. Singh, Brad Rhees, Dennis Lofstrom, Paula Lofstrom, Paul William Cort Johnson, Othild Schwartzkopff, & the International BIOCOS Study Group
2000; **21**:233–258

NEL Vol. 21. No.4

EDITORIAL:

"The visible is not the only truth, nor is it the whole truth; The invisible must be penetrated with the aid of the visible"
2000; **21**:261–262

FROM THE ART DIRECTOR'S DESK:

by Lili Maas
2000; **21**:263

INVITED GUEST EDITORIAL:

Ten ontogenetic theses for promotion of health and primary prevention of important diseases by a prenatal and early postnatal neuro-endocrine-immune prophylaxis

by Günter Dörner
2000; **21**:265–267

ORIGINAL ARTICLES:

Melatonin prevents oxidative damage to protein and lipid induced by ascorbate-Fe³⁺-EDTA: Comparison with glutathione and α -tocopherol

by Seok Joong Kim, Russel J. Reiter, Wenbo Qi, Dun-xian Tan & Javier Cabrera
2000; **21**:269–276

FSH β -subunit gene expression in long-term ovariectomized rat after pulsatile intracerebroventricular microinjections of GnRH

by Alina Gajewska, Yannick Lerrant, Raymond Counis & Kazimierz Kochman
2000; **21**:277–281

The effect of continuous darkness and illumination on the function and the morphology of the pineal gland in the domestic pig

I. The effect on plasma melatonin level
by Bogdan Lewczuk & Barbara Przybylska-Gornowicz
2000; **21**:283–291

The effect of continuous darkness and illumination on the function and the morphology of the pineal gland in the domestic pig

II. The effect on pinealocyte ultrastructure
by Bogdan Lewczuk & Barbara Przybylska-Gornowicz
2000; **21**:293–299

Melatonin inhibits testosterone secretion by acting at hypothalamo-pituitary-gonadal axis in the rat

by Bayram Yilmaz, Selim Kutlu, Rasim Mogulkoç, Sinan Canpolat, Süleyman Sandal, Berrin Tarakçi & Haluk Kelestimur
2000; **21**:301–306

Daytime pineal gland activation in rats with colon tumors induced by 1,2-dimethylhydrazine

by Dmitrii A. Sibarov, Rimma I. Kovalenko, Vladimir N. Anisimov & Alexander D. Nozdrachev
2000; **21**:307–312

Tau-protein expression in human blood lymphocytes: a promising marker and suitable sample for life-time diagnosis of Alzheimer's disease

by Igor M. Kvetnoy, Jose Hernandez-Yago, Tatiana V. Kvetnaia, Vladimir Kh. Khavinson, Vladimir V. Malinin, Alexander A. Yarilin, Nina I. Sharova, Jose R. Blesa, Vladimir N. Anisimov, Lilia V. Lenskaia, Sofia F. Sluchevskaia, Svetlana I. Chekalina, Oleg Yu. Tokarev & Vadim V. Yuzhakov
2000; **21**:313–318

Oncostatic activity of pineal neuroendocrine treatment with the pineal indoles melatonin and 5-methoxytryptamine in untreatable metastatic cancer patients progressing on melatonin alone

by Paolo Lissoni, Franco Rovelli, Andrea Frassinetti, Luca Fumagalli, Ola Malyshева, Ario Conti & Georges Maestroni
2000; **21**:319–323

PHILOSOPHY BEHIND SCIENCE:

Knowledge as an emotional and intellectual realization of the unconscious. Gnosiology, Psychedelic Drugs and Prenatal Experiences

by Zephyros Kafkalides
2000; **21**:326–331

SCIENCE BEHIND ART:

Unconscious Imagery in Painting

by Johannes Fabricius
2000; **21**:335–343

NEL Vol. 21. No.5

EDITORIAL

by Peter G. Fedor-Freybergh
2000; **21**:351

FROM THE ART DIRECTOR'S DESK

by Lili Maas
2000; **21**:352

LAUDATIO:

to Professor Marian JUTISZ, outstanding scientist, great humanist and patriot, on his 80th Anniversary

by Kazimierz Kochman
2000; **21**:353–354

INVITED NEL REVIEW:

Gestational diabetes as possible risk factor for Type I childhood-onset diabetes in the offspring

by Günter Dörner, Andreas Plagemann, Andreas Neu & Joachim Rosenbauer
2000; **21**:355–359

VOLUME 21, 2000/6 ISSUES (cont.)

Editor-in-Chief: Peter G. Fedor-Freybergh

ORIGINAL ARTICLES:

Melatonin suppresses autoxidation and hydrogen peroxide-induced lipid peroxidation in monkey brain homogenate

by Dun-Xian Tan, Lucien C. Manchester, Russel J. Reiter, Javier Cabrera, Susanne Burkhardt, Tracey Phillip, Eloisa Gitto, Malgorzata Karbownik & Qi-Dong Li
2000; **21**:361–365

Effect of immunization on nocturnal NAT activity in chicken pineal gland

by Magdalena Markowska, Beata Bialecka, Magdalena Ciechanowska, Zbigniew Koter, Hanna Laskowska, Agnieszka Karkucinska-Wieckowska & Krystyna Skwarlo-Sonta
2000; **21**:367–373

Negative immunoregulatory effects of noradrenaline through α_2 -adrenoceptor activation

by Michael Maes, Aihua Lin, Gunter Kenis, Belinda Egyed & Eugene Bosmans
2000; **21**:375–382

Leptin modulates the corticotropin-releasing hormone (CRH) action on progesterone release from cultured rat granulosa cells

by Krzysztof Roguski, Boguslawa Baranowska, Magdalena Chmielowska & Monika Borowiec
2000; **21**:383–389

Evidence for a neuroimmunomodulatory and a hematopoietic role of the Luschka's coccygeal body

by Ario Conti, Georges JM Maestroni, Marco Cosentino, Gian Mario Frigo, Sergio Lecchini, Franca Marino, Raffaella Bombelli, Marco Ferrari, Fernando Brivio, Maria Grazia Roselli & Paolo Lissoni
2000; **21**:391–403

Efficacy of bromocriptine in the treatment of metastatic breast cancer- and prostate cancer-related hyperprolactinemia

by Paolo Lissoni, Mario Mandalà, Luisa Giani, Fabio Malugani, Simona Secondino, Sabrina Zonato, Francesco Rocco & Gianstefano Gardani
2000; **21**:405–408

INVITED PAPER: Variation in cerebrospinal fluid levels of neuropeptide Y, cholecystokinin and substance P in patients with neurological disorders

by G.A. Qureshi, S.M. Baig, C. Collin. & S.H. Parvez
2000; **21**:409–416

CASE REPORT

Invasive fibrous thyroiditis (Riedel's disease) with signs of giant cell arteritis

by Zdenka Kuchynková & Jan Soukup
2000; **21**:417–420

OBITUARY:

RNDr. Zdenek Klein,
13.6.1944 – 4.9.2000
by Peter G. Fedor-Freybergh
2000; **21**:421

POSTER:

An integrative approach to the study of human behavior

by Zdenek Klein & Peter G. Fedor-Freybergh
2000; **21**:422–423

NEL Vol. 21. No.6

EDITORIAL:

by Peter G. Fedor-Freybergh
2000; **21**:425–426

FROM THE ART DIRECTOR'S DESK:

by Lili Maas
2000; **21**:427

FROM ANDREW HERXHEIMER'S DESK:

From the Land of the Sick Doctors as patients

by Andrew Herxheimer
2000; **21**:429

ORIGINAL ARTICLES:

Effect of estradiol 17- β on LH subunits and prolactin mRNAs expression in the pituitary of old female rats

by Ewa Wolinska-Witort, Marek Snochowski, Alina Gajewska, Yannick Lerant, Raymond Counis & Boguslawa Baranowska
2000; **21**:431–436

Melatonin concentrations in patients with large goiter before and after surgery

by Michal Karasek, Aleksander Stankiewicz, Elzbieta Bandurska-Stankiewicz, Krystyna Zylinska, Marek Pawlikowski & Krzysztof Kuzdak
2000; **21**:437–439

Effect of a proteic diet and fasting on insulin, pancreatic noradrenaline and luteinizing hormone.

Changes after 24-hour refeeding
by Osvaldo J. Ponzio, Miguel A. Cresta, Dora Rondina, Berta Swarczfarb, Juan C. Basabe & Pablo Scacchi
2000; **21**:441–446

Neither gynecomastia nor galactorrhea is a common side effect of neuroleptics in male patients

by Yasuhiro Kaneda, Akira Fujii, Takashi Yamaoka, Tadaoki Morimoto & Isao Nagamine
2000; **21**:447–451

Thymidine kinase and adenosine kinase activities in homogenates of thyroid lobes in hemithyroidectomized rats; effects of melatonin in vitro

by Adam Gesing, Hanna Modrzejewska, Malgorzata Karbownik, Ewa Sewerynek, Janusz Greger & Andrzej Lewinski
2000; **21**:453–459

Melatonin protects against oxidative stress induced by the kidney carcinogen KBrO₃

by Gamal H. El-Sokkary
2000; **21**:461–468

Birthweight—is it linked to minor illness in adulthood?

by D.A. Bellingham-Young & E.N. Adamson-Macedo
2000; **21**:469–473

SHORT COMMUNICATION:

Prolactogenic effects of etizolam

by Yasuhiro Kaneda
2000; **21**:475–476

HUMAN ETHOLOGY:

The Ethological Approach to the Study of Human Behavior

by Zdenek Klein
2000; **21**:477–481

NEL ARTISTS:

Lili Maas 2000; **21**:428, 452, 482, 483, 496, 497
Vladimír Jiránek 2000; **21**:495
Noomi Engström 2000; **21**:498