

EXTRAMURAL RESEARCH SUPPORTED BY S&T (SA) NEUCHÂTEL

MAIN INVESTIGATOR	PURPOSE / TITLE of RESEARCH	YEARS	AMOUNT (USD)
Prof. BARRY D. University of Cork, Ireland	Statistical Flaws of Epi. Studies	1994-????	37'800.-
Prof. BÄTTIG K. Technical University (ETH) Zürich, Switzerland	Behavioural Research	1990-1996	25'500.-
Prof. BURSTEIN C. Université Paris 7, France	L-lactate Biocaptors (Sensors for Indoor Air Quality)	1989-1991	116'000.-
CABOCHE J. Université Paris 6, France	Scholarship in Neurophysiology	1991-1992	14'800.-
Prof. LENGES J. C.E.R.I.A.- Brussels, Belgium	Tar and Nicotine in Ventilated Cigarettes	1986-1991	525'200.-
Prof. CLEMENTI F. Università degli Studi di Milano, Italy	Alzheimer's Disease	1993-????	172'200.-
Prof. DOLARA P. Università degli Studi di Firenze, Italy	Aromatic Amines in Outdoor Air	1994-????	21'900.-
Prof. DÜSSER D. Hôpital Cochin, Pneumology, Paris, France	Airways Enzymes in Lung Tissue	1990-????	252'000.-
Prof. FONDU M. Université Libre de Bruxelles, Belgium	International Legislation on Ingredients	1984-1988	53'000.-
FRESENIUS Institute Taunusstein-Neuhof, Germany	Indoor Air Quality Measurements Nicotine in Vegetables	1988-1992	409'000.-
Prof. GORROD J.W. King's College, London, UK	Nicotinic Glucuronic Conjugates	1989-????	50'000.- per yr. (est.)
Prof. PERRY R. Imperial College of Science and Technology, London, UK	Indoor Air Quality & ETS Exposure	1991-1992	221'800.-
Prof. HIRT B. ISREC, Swiss Cancer Res. Center, Lausanne, Switzerland	Basic Research on Papillomaviruses	1991-????	441'400.-

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SA Neuchâtel

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MAIN INVESTIGATOR	PURPOSE / TITLE of RESEARCH	YEARS	AMOUNT (USD)
Prof. WAHREN J. Karolinska Institute	PET Scanning of Nicotine in Brain	1991-????	178'800.-
LEE P. P.N. Lee Statistics and Computing Ltd., Sutton, UK	Research on Statistics	1990	50'000.- per yr. (est.)
Dr. MICHELETTI G. Université de Strasbourg, France	Parkinson's Disease	1990-????	291'500.-
Prof. MOLIMARD R. Collège de France, Paris	Behaviour	1986-????	482'700.-
Dr. NEURATH G. Vertragsforschung und Beratung, Hamburg, Germany	Ventilation Improvement	1988-1992	1'050'000.-
Dr. NILSEN O. University of Trondheim, Norway	Nicotine in Hair	1990-????	695'800.-
Dr. POLLA B. Université de Genève, Switzerland	Stress Proteins	1995	23'400.-
Prof. ROSECRANS J.A. Virginia Commonwealth University, Richmond, USA	Nicotine in Brain	1994-1996	60'000.-
Prof SCHMID-KITSIKIS E. Université de Genève, Switzerland	Decision Making in Adolescents	1993-????	136'100.-
Prof SCHNEIDER B. University of Hanover, Germany	Evaluation of Health Risks	1990-1995	322'500.-
Dr. SCHWARTZ S.L. and Dr. BALTER N.J. CEHHT, Georgetown Medical School, Washington, USA	ETS Database - Risk Analysis	1988-1993	408'500.-
Prof. SYMANN M. Université Catholique de Louvain, Brussels, Belgium	Cancer Mechanisms	1989-????	269'300.-
Prof. SYRJÄNEN K. University of Kuopio, Finland	Human Papillomavirus, Prospective Study	1990-1996	617'500.-
Prof. SZENDE B. and Prof. KENDREY G. Semmelweis Medical School, Budapest, Hungary	Precision of Diagnosis (Check by Post-Mortem)	1994-????	16'200.-

MAIN INVESTIGATOR	PURPOSE / TITLE of RESEARCH	YEARS	AMOUNT (USD)
Prof. TASSIN J.P. Collège de France, Paris	Neuro-Receptors in Brain	1988-????	449'600.-
Dr. TÁTRAI E. Hungarian NIOSH, Budapest, Hungary	Fibrosis and Environment	1994-????	25'000.-
TNO Environmental and Energy Research, Delft, The Netherlands	Indoor Air Quality / Inflight Air Quality / Air Cleaner / Mund Tyndallometer	1988-1993	1'062'900.-
Dr. VINCZE I. National Institute of Hygiene, Budapest, Hungary	DNA Damages in Lung	1991-1993	70'300.-
Prof. WARBURTON D.M. University of Reading, UK	Use of Pleasurable Substances	1993-1995	64'400.-
CERCHAR Industrie Verneuil-en-Halatte, France	Measurement of Nicotine in Air	1988-1989	30'200.-

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OUTSIDE CONTACTS OF INTEREST

NAME	PURPOSE	YEARS
Prof. Sir Peter FROGGATT, Chairman ISCSH Mr. WALLER D., DHSS Member	Common Meeting between TAC / ISCSH / DHSS in Neuchâtel	1985
Prof. Sir Peter FROGGATT, Chairman ISCSH Prof. WALD N., ISCSH Member Mr. WALLER D., DHSS Member	Common Meeting between TAC / ISCSH / DHSS in Neuchâtel	1987
Prof. HIRSCH A. Chairman French Commission on Tobacco	Visit of R&D Center in Richmond, USA	1987

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EXTRAMURAL RESEARCH SUPPORTED THROUGH ASFC / CISC (SWISS NMA)

PM Contribution pro rata Market Share

MAIN INVESTIGATOR	PURPOSE / TITLE of RESEARCH	YEARS	AMOUNT (USD)
Prof. GRANDJEAN E. Department of Hygiene, ETH, Zürich, Switzerland	Effects of Tobacco Smoke and its Constituents	1964-1977	721'800.-
Profs. LEUCHTENBERGER C. & R. ISREC, Swiss Cancer Res. Center, Lausanne, Switzerland	Effects of Tobacco Smoke on Cells and their Metabolism	1967-1976	531'300.-
Prof. BÄTTIG K. Technical University (ETH) Zürich, Switzerland	Nicotine Effects and Smoker's Behaviour	1968-1994	1'758'600.-
Drs. SCHLATTER J. / SUTER T. / DRISCOL P. Technical University (ETH) Zürich, Switzerland	Co-workers of Prof. BÄTTIG K.	1972-1974	237'500.-
Prof. KISTLER G. University of Zürich, Switzerland	Effects of Tobacco Smoke on Ciliated and Non-Ciliated Cells	1970-1979	598'800.-
Prof. CERUTTI P.A. ISREC, Swiss Cancer Res. Center, Lausanne, Switzerland	Mechanisms of Transformation Initiation in Tissues	1978-1994	1'250'000.-
Prof. MEDICI T.C. University of Zürich, Switzerland	Tobacco Smoke and Pulmonary Diseases	1980-1984	246'100.-
Prof. HAAB P. Université de Fribourg, Switzerland	CO and Oxygen Affinity for Hemoglobin	1981-1992	525'800.-
Prof. BRUNNER H. Université de Lausanne, Switzerland	Cardiovascular Effects of Tobacco Smoke	1985-1993	555'500.-
Prof. FELDON J. (succ. to Prof. BÄTTIG K.) Technical University (ETH) Zürich, Switzerland	Nicotine Effects and Smoker's Behaviour	1994-????	156'300.-
Dr. POLLA B. Université de Genève, Switzerland	Stress Proteins	1994-????	79'300.-

Between 1964 and 1994, 265 scientific papers were published with acknowledgment of the financial support of the ASFC / CISC

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PROJECTS FUNDED BY THE

TOBACCO PRODUCTS RESEARCH TRUST

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Project No.	GRANTHOLDER	TITLE	GRANT		DURATION
			Initial	As at 3.9.1992	
	Prof. Holland (St.Thomas)	Tar content of cigarettes on respiratory symptoms	£ 24,652	£ 24,652	1 year (completed)
	Prof. Holland (St.Thomas)	Effect of tar yield of cigarettes on respiratory symptoms (pre pilot study)	66,160	55,994 (saved 10,166)	do.
	Prof. Holland (St.Thomas)	Validate questions about brand of cigarettes smoked and effect of changing to lower tar brands on respiratory symptoms and lung function.	15,540	9,185 (saved 6,355)	do.
	Prof. Wald (St.Bartholomews)	Biochemical & epidemiological research into health effects of low tar cigarettes	303,243* (amalgamated with 9 below)		1/6/84 - 30/5/87
	Prof. Tunstall Pedoe (Dundee)	Scottish Smoking Study	266,164	370,754* (saved 11,769)	1/4/85 - 31/3/88 extended to 30/9/89 (completed)
	Dr. Pritchard (Harwell)	Measurement of tar retention in smokers switching to products with lower tar yields	226,164	308,698* (saved £77)	1/2/86 - 31/1/88 extended to 31/7/88 (completed)
	Prof. Holland (St.Thomas)	Effect of different cigarettes on respiratory health	1,317,964	1,398,151* (excluding cost of cigarettes) (saved 18,239)	1/12/85 - 31/12/87 extended to 31/1/89 (completed)
	Mr. Peto (Oxford)	Isis epidemiology enquiry	791,314	1,122,546	1/4/86 - 31/3/89 extended to 31/12/93
	Prof. Wald (St.Bartholomews)	Tar reduction study (incorporates 4)	336,829	848,705	1/1/86 - 30/6/88 analytical service extended to 31/12/90 6 month extension 1992
	Prof. Parry (Swansea)	Ability of tobacco condensates to induce aberrations of chromosome number and structure in cultured primary fibroblasts	89,878	124,523* (saved 5,243)	1/10/86 - 30/9/89 (completed)

*These are actual sums paid out; the "saving" represents the difference between the sum finally agreed and that paid out.

PROJECTS FUNDED BY THE

TOBACCO PRODUCTS RESEARCH TRUST

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GRANTHOLDER	TITLE	GRANT		DURATION
		Initial	As at 3.9.1992	
Mr.Jarvis (Institute of Psychiatry)	Development of smoke intakes in novice smokers in relation to brand smoked	£ 30,578	£ 45,136* (saved 2,109)	1/9/86 - 31/8/88 (completed)
Dr.Powell (Charing Cross)	Smoking profile of patients with symptomatic peripheral arterial disease. (Pilot)	7,263	6,048* (saved 1,215)	1/9/86 - 30/3/87 (completed)
Dr.Waters (Swansea)	Correlation between lung cancer and ability of smoke to induce DNA damage in cultured human cells or mutation in a bacterial assay.	66,478	69,020* (saved 1,951)	12/10/87 - 11/10/90 (completed)
Dr.Powell (Charing Cross)	Does the tar brush paint the artery wall.	219,166	258,059	1/5/88 - 31/5/93
Prof.Rosen (Cardiff)	Effect of switching cigarettes on post-operative pulmonary complications in middle tar smokers.	84,366	91,635* (saved nil.)	4/7/88 - 3/7/89 (completed)
Prof.Woolf (Middlesex)	Use of models of cigarette smoke related vascular damage in comparing smoking materials.	108,303	121,687	1/7/88 - 30/6/91
r.Seller (Guy's)	Effect of tar yield on developing embryos using curly tail mice, a model for human neural tube defects.	147,254	207,154	1/6/88 - 31/10/91 (extended to 31/10/92)
Dr.Miller (BIBRA)	Tobacco smoke constituents on pulmonary surfactant system (in vitro studies)	183,518	180,575* (saved 6,488)	1/10/88 - 30/9/91 (completed)
Dr.Duthie (Rowett)	Functional antioxidant status and heart disease in smokers and non-smokers	127,950	167,348* (saved £407)	2/5/88 - 1/6/90 (extended to 1/3/91) (completed)
Dr.Law (St.Bartholomews)	Cigarette smoking, nicotine/tar yield and bone density	176,492	266,165	1/7/88 - 30/6/90 (extended to 31/12/91)

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PROJECTS FUNDED BY THE

TOBACCO PRODUCTS RESEARCH TRUST

C3

Project No.	GRANTHOLDER	TITLE	GRANT		DURATION
			Initial	As at 3.9.1992	
			£	£	
21	Dr.Pritchard (Harwell)	Reducing tar, but maintaining delivery on tar retention (Males)	116,495	118,191* (saved nil.)	Nov.88 - 1 year (completed)
22	Dr.Pritchard	Deposition of tar in female smokers	114,655	116,351* (saved nil)	Apr. 88 - 1 year (completed)
23	Dr.Pritchard (Harwell)	Comparison of cigarette smoke intake in men and women	11,730	11,669* (saved £60)	Oct.89 - 6 months (completed)
24	Dr.Humphries (Sunley Research)	Interaction between smoking fibrinogen levels and fibrinogen gene haplotype: comparison between low yield and higher yield brand cigarettes.	11,096	19,512	Nov. 90 - Oct. 91
25	Professor Milner (St.Thomas's)	Pregnancy smoking and the lower respiratory tract in infancy.	182,543	185,993	1/12/90 - 30/11/93
26	Dr.Page (Aberdeen)	Human placental function in relation to tar yield and cadmium content in cigarettes smoked by pregnant women.	99,828	103,629	19/8/91 - 18/8/94
27	Dr.Waters	Smoking related DNA damage in normal oral tissue from patients suffering with oral cancer.	11,700	12,411	March 91 - Feb.92
28	Dr.Duthie (Aberdeen)	Effects of vitamin E supplementation on plasma cholesterol concentration and free radical-mediated damage in smokers.	62,794	65,794	1/10/91 - 31/3/93
29	Dr.Williams (Liverpool)	Effects of nicotine and its withdrawal on energy balance: the role of neuropeptide Y in the rat hypothalamus.	2,010		1 month (May 1992) pilot

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TOBACCO PRODUCTS RESEARCH TRUST

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GRANTHOLDER	TITLE	GRANT		DURATION
		Initial	As at 3.9.1992	
Professor Caro (London I.C.)	Non-invasive ultrasound study of the effects of nicotine on arterial haemodynamics in healthy young adult human subjects.	£ 47,450	£	2 years
Dr.Higenbottam (Cambridge)	Reaction of nitric oxide in air and in tobacco smoke with aqueous solutions and confluent cell cultures.	£ 66,200		2 years

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ANLAGE 3

Von der Stiftung VERUM geförderte Forschungsvorhaben

zum Thema

"Rauchen und Gesundheit"

Forschungsnehmer	Forschungsvorhaben	Laufzeit (Jahre)	Vertragsdatum
Dr. D.J.K. Balfour Dr. M.E.M. Benwell	In vivo pharmacological characterisation of the receptors which mediate the effects of nicotine on brain monoamine systems	3	29.9.93
Prof. H. Biesalski	Antioxidative Vitamine und Rauchen	2	17.11.94
Prof. P.B.S. Clarke	CNS actions of nicotine: identification of receptor subunits	1,5	17.11.94
Prof. W. Clauss	Einfluß von Nikotin auf Ionenkanäle und intrazelluläres Calcium in Zellen des menschlichen respiratorischen Epithels	1	11.8.93
Dr. Eva Frei Prof. M. Wießler	Biomonitoring von tabakspezifischen Nitrosamin-Glucuroniden	2	19.10.93
Prof. K. Fuxe	Effects of acute and chronic nicotine treatment on fibroblast growth factor mechanisms within the nigrostriatal dopamine neurons in rodent models of Parkinson's disease	2	7.12.93
Prof. J.W. Gorrod Dr. G. Aislaitner	The biological formation, distribution and reactivity of iminium ions and their contribution to nicotine metabolism	1	22.4.94
Prof. A.J.R.Habenicht Dr. R.-M. Goerig	Interaktion von Nikotin und Cotinin mit der Arachidonsäurekaskade kokultivierter Endothelzellen und Monozyten	2	21.12.93
Prof. V. Höllt	Modulation der Nikotin-induzierten Genexpression in chromaffinen Zellen durch NO, Calcium-Antagonisten und tricyclische Antidepressiva	2	30.5.95
Prof. K. Kuschinsky	Durch Nikotin hervorgerufene Veränderungen im EEG und im Verhalten von Ratten unter besonderer Berücksichtigung dopaminergischer Mechanismen	2	11.8.93
Prof. F.C. Luft	Interaction of nicotine and endothelial derived relaxing factor on sympatho-adrenal blood pressure regulation	1	11.8.93 Abgeschlossen

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Forschungsnehmer	Forschungsvorhaben	Laufzeit (Jahre)	Vertragsdatum
Dr. L. Packer	Antioxidant intervention in the protection of human blood and lung lining fluids against damage by cigarette smoke	2	29.9.93
Dr. W. Pfau	Charakterisierung von kovalenten DNA Addukten mittels hochauflösender ³² P-Postlabelling/HPLC-Analyse und LC/Massenspektroskopie	2	40795
Prof. M. Quik	Role of nicotine and nicotinic receptors in cellular proliferation in small cell lung carcinoma	2	17.11.94
Prof. K. Racké	Charakterisierung der Wirkungen von Nikotin auf enterochromaffine Zellen und neuroendokrine Zellen des Respirationstraktes	2	11.8.93
PD Dr. E. Richter	Biomonitoring von tabakspezifischen Hämoglobinaddukten.	4 Monate	11.8.93 Abgeschlossen
"	Biomonitoring von Hämoglobinaddukten aromatischer Amine	2	17.11.94
Prof. K. Schrör	Der Einfluß von Nikotin, Kohlenmonoxid und Stickstoffmonoxid auf NO und Prostacyclin-synthese der koronaren Mikrozirkulation bei myocardialer Ischämie	2	10.12.93
PD Dr. I. Wessler	Neuro-immunologische Wirkungen von Nikotin im Bereich der Atemwege	2	11.8.93
PD Dr. B. Wiedenmann	Untersuchungen zur Wirkung von Neurotransmittern auf das Wachstum und die Differenzierung neuronaler und neuroendokriner Zellen	2	11.8.93
Dr. H.R.W. Wirtz Dr. T. Papadopoulos	Wirkmechanismen von Zigarettenrauch auf exokrine Funktionen der alveolären Typ II-Zelle: Sekretion von Surfactant und Expression von chemotaktischen Zytokinen	Ende 94	22.4.94 Abgeschlossen
Dr. H.R.W. Wirtz	Akute zigarettenrauchinduzierte Reduktion der stimulierten Surfactantsekretion. Untersuchungen zum Mechanismus an isolierten Typ II Zellen	2	30.5.95
PD Dr. H. W. L. Ziegler-Heitbrock	Nikotin und Monozyten-Differenzierung	2	21.12.94

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2nd September 1992

VdC RESEARCH PROGRAM 1992

1. THEME: PLANT RESEARCH

- Effect of nitrate concentration in tobacco on smoke composition
- Nitrates in tobacco plant
- Genetic engineering in tobacco growing

member companies of VdC

Prof. Wegmann

Prof. Wegmann

2. THEME: POSSIBLE HEALTH/RELATED EFFECTS

- Chromosome aberrations in smokers and non-smokers
- Levels of methylnitroso pyridyl butyric acid in urine
- Skin wrinkling in smokers and non-smokers

Prof. Obe

Dr. Klus

Dr. Tricker

Prof. Vogt

3. THEME: ETS AND ITS EFFECT ON MEN

- Serum cotinine in populations
- Confounding variables
- Asthma in children, acute reaction of ETS
- DNA adducts in monocytes after exposure to MS
- Blood biochemistry survey of smokers
 - pooled analytical results
- Asthma medium/long term reaction to ETS

Prof. Gostomzyk

Dr. Heller

P. Lee

Prof. Magnussen

Prof. Rüdiger

Prof. Adlkofer

Prof. Magnussen

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4. **THEME:** ENDOGENOUS/EXOGENOUS FACTORS - BASIC MEDICAL RESEARCH

- Steroids in serum
- Dioxin distribution
- Benzene levels on the work place (Halle)
- Diet and lung cancer in the mouse model
- Lipoprotein levels in general population

Laboratory Munich
Dr. Knebusch
Dr. Ball
Prof. Rüdiger
Prof. Adlkofer
Prof. Angerer
Dr. Haley
Laboratory Munich

5. **THEME:** SMOKING/PASSIVE SMOKING AND LIFESTYLE RISKS

- Benzene levels and road traffic
- Benzene levels - non occupation
- Lung cancer epidemiology (workplace and general environment)
- Longitudinal epidemiological survey on pregnancy outcome and lifestyle in smoking and non-smoking women
- Lung cancer epidemiology US/Japan

Prof. Adlkofer
Prof. Angerer
Prof. Angerer
Laboratory Munich
Dr. Jöckel
Prof. W. Schmidt
Prof. E. Wynder

6. **THEME:** MOTIVATION

- Social-psychological effects of smoking

Prof. von Troschke

TOTAL BUDGET: DM 4 538 960

Pr-share 33%
C3
~ 1,5 M DM
VERLIN 0.97017

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EXTRAMURAL RESEARCH SUPPORTED THROUGH SSI / VNK (THE DUTCH NMA)

PM Contribution pro rata Market Share

MAIN INVESTIGATOR	PURPOSE / TITLE of RESEARCH	YEARS	AMOUNT (USD)
Leeuwenhoek Research Center The Netherlands	Basic Cancer Research	1991-1993	89'300.-
CIVO / TNO Delft, The Netherlands	Influence of Cigarette Smoke on Bronchi and Vitamin A	1991-1993	163'700.-
Prof. SNOW The Netherlands	Genotoxic Factors and Head and Neck Cancer	1991-1993	178'600.-
Prof. Van BEKKUM The Netherlands	Radiobiological Research	1991	47'000.-
Prof. RAMAECKERS The Netherlands	Genetic Predisposition and Lung Cancer	1993	35'700.-