

NATIONAL AND INTERNATIONAL COLLABORATIONS

New Materials and Compounds

⇒ Nuclear Solid State Physics Using Ion Beams

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Ion implantation of crystalline oxides: radiation damage and doping	Institut für Nukleare Festkörperphysik, Kernforschungszentrum Karlsruhe (Germany)	Dr. O. Meyer Dr. R. Fromknecht	423/BMFT
Studies of High-Tc Superconductors Doped with Radioactive Isotopes	ISOLDE/CERN Collaboration (IS360)	Dr. João G. Correia	CERN Project (FCT) and "Young Researchers Project" (FCT)
Defect-dopant Interaction in GaAs and InP	ISKP, Bonn University Surrey University	Prof. Reiner Vianden Prof. Brian Sealy	Human Capital and Mobility (HCM)
LiNbO ₃	Dep. Física de Materiales, Autonoma Univ., Madrid	Prof. Fernando Agulló-López, Prof. Ernesto Diéguez	
K _t OPO ₄	CSIC	Dr. C. Zaldo	
Iridium Silicides	ETSI, Madrid	Prof. Tomas Rodrigues	
Improvement of Surface Properties of Stainless Steel by Ion Implantation	Seville University	Prof. Miguel Respaldiza, Prof. José António Odriozola	CECA, European Program on Stainless Steels
Amorphous Silicon Thin Films	Dep. Física Aplicada, Vigo University, Vigo	Prof. Pio M. Gonzalez Fernandes	
Wide Program on Semiconductors Using the ISOLDE Mass Separator	ISOLDE/CERN Collaboration (IS368)	Dr. João G. Correia Dr. Ulrich Wahl	CERN Project (FCT)
Characterisation of Thin YBaCuO:PrBaCuO Multilayers by Means of RBS under Large Tilts	INPG/ENSP Grenoble	Dr. J.-P. Sénateur	
Characterisation of Quality of TiTaMox Multilayers			

⇒ Nuclear Solid State Physics Using Ion Beams (cont.)

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Synthesis and Characterisation of Metastable Materials Using Ion Beams	UFRGS/Brasil	Prof. F.C. Zawislak	FCT/CAPES
Multilayer Coatings	Universidade do Minho, Dep. de Física	Dr. Luís Rebouta	
Magnetic Multilayers Thin Films	INESC, Lisboa	Dr. Paulo de Freitas	Base Program (FCT)
Metastable Alloys in the Al-Cr System, Produced by Ion Implantation and Laser Processing	FCUL (Laser Surface Processing Group) IST (Laser Surface Processing Group)	Dr. O. Conde Dr. Rui Vilar	PRAXIS/ /PCEX/P/FIS/2/96
Biomaterials	Dept. of Mechanical Eng., Oporto Univ.	Prof. Mário Barbosa	
Granular Nanocrystalline and Magnetic Films	Oporto University	Prof. Bessa e Sousa	Base Program (FCT)

⇒ Condensed Matter Physics

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Neutron Scattering Spectrometers-Instrument Development and Applications	Lab. Léon-Brillouin (CEA-CNRS), Saclay, France	Dr. José Teixeira	PRAXIS XXI/BTI /16745/98 (Fellowship)
	Lab. Léon-Brillouin (CEA-CNRS), Saclay, France	Dr. G. Koskas	
Microstructure Investigation of Silicate Materials	Univ. Aveiro, Dept. of Ceramics and Glass Engineering	Prof. Isabel M. Salvado	Cooperative research EC (TMR Large Facility Programme) ICCTI/IFREMER 98/211/B3
	Lab. Léon-Brillouin (CEA-CNRS), Saclay, France	Dr. José Teixeira	
	Univ. Sofia, Fac. Physics	Prof. M. Misheva	
Dynamics of Aqueous Solutions of Ionic Salts	Center for Condensed Matter Physics, Univ. Lisbon	Prof. M. Alves Marques	Cooperative research EC (TMR Large Facility Programme)
	ISIS Facility, Rutherford Appleton Laboratory, UK	Dr. John Tomkinson	
High Temperature Structural Materials, Superalloys	JRC - Petten, Institute of Advanced Materials	Dr. Johan Bressers	Cooperative research PRAXIS/PCEX/P/FIS/21/96 JNICT (PBICT/C/CTM/1898/95) PRAXIS/PCEX/P/FIS/21/96 PRAXIS/PCEX/P/FIS/21/96
	Dept. of Materials, IST, Lisbon Technical University	Prof. Rui Vilar	
	Inst. of Applied Physics, Swiss Federal Institute of Technology Zürich.	Prof. Gernot Kostorz	
	Max Planck Institute for Metals Research Stuttgart, Germany	Prof. E. Mittemeijer	
	Dep. Ing. Metalurgica, ESIQIE - IPN, Mexico	Prof. Hector Calderon	
	Dep. de Mecânica do Instituto Superior Técnico, IST	Prof. Moura Branco	
	Dep. Cerâmica e do Vidro, Universidade de Aveiro	Prof. Joaquim Vieira	
	Nuclear Physics Center, Lisbon University	Prof. M. Ribeiro da Silva	
	Dept. of Solid State Physics, Risø Nat.	Dr. Jan Skov Pedersen	

	Laboratory, Denmark		
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⇒ *Condensed Matter Physics (cont.)*

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Cross-linked Polymer Gels	Risø National Laboratory, Condensed Matter Physics & Chemistry Dept. Complexo II da Univ. Lisboa University of Coimbra, Faculty of Sciences and Technology Instituto Biomédico da Luz e Imagem	Dr. Gabriel Feio Prof. M. Helena Gil Eugénio Leite, M.D.	Cooperative research EC (TMR Large Facility Programme)

⇒ *Solid State Chemistry and Physics*

Subject	Institute/University	Name of scientist(s)	Contract/Program
Multisulfur Compounds	Institut de Ciència de Materials/CSIC Barcelona	Dr. C. Rovira	Bilateral Programme CSIC-JNICT
Superconducting Thin Films	LEPES - CNRS LMPG - Grenoble	Dr. D. Feinberg, Dr. J. Dumas Prof. J.P. Senateur	France Emb. - JNICT
Molecular Systems with Unconventional Electrical, Optical and Magnetic Properties	LCC-CNRS Toulouse Royal Institut	Dr. Patrick Cassoux Prof. Peter Day	COST
Intermetallic Magnetic Materials	FCUL FCUC IFMUP	Margarida Godinho M.M.R.Costa, J.A. Paixão, N. Ayres de Campos J.M. Brochado Oliveira M. Amado, R. Pinto	PRAXIS
Molecular Conductors	Instituto Superior Técnico	Luís Alcácer, M. Teresa Duarte, Luís Veiros	—
Inorganic Materials	Instituto Superior Técnico	João C. Pessoa	—
High T _c Superconductors	Instituto Superior Técnico	Adelino Galvão	—

Environmental Sciences

⇒ Health and Environmental Studies using Ion Beam Techniques

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Particulate Matter and Health – From Air to Human Lungs	IAEA Faculty of Medicine-UL ITN – Química INETI – ITA	A. Bugalho de Almeida M. Carmo Freitas M. Alexandra Barreiros	IAEA POR/9479
Research on Ecotoxicity Indicators in Aquatic Communities at the Guadiana River”	Faculty of Sciences, Department of Zoology and Anthropology, UL	Maria da Luz Mathias Ana Maria Crespo	JNICT/DGA/PEA M/P/NMA/666/95
Microanalysis of Toxic Elements in Human Teeth by SRXRF	LURE CFA-UL INETI-ITA	P. Chevallier M.Luisa Carvalho M. Alexandra Barreiros	EC-TMR (LURE)
Nuclear Microprobe Applications to Biomedicine and Material Sciences	University of Oxford, Department of Materials	Geoff Grime Eva Pålsgård	---
Clinical Diagnosis and Quality Control of Drugs Used in Therapy	Pulido Valente Hospital - University Clinic of Internal Medicine and Gastroenterology	Mário G. Quina António Santos Jorge Canena	---
PIXE applications and Training activities (Biology Graduation and Physics)	Faculty of Sciences, UL - Department of Zoology and Anthro- pology	Ana Maria Crespo	---

⇒ *Health and Environmental Studies using Ion Beam Techniques (cont.)*

Subject	Institute/University	Name of Scientist(s)	Contract/Program
PIGE development and Training activities	Faculty of Science and Technology, Department of Physics, UNL Faculty of Sciences, Department of Physics, UL	M. Adelaide P. de Jesus J. Pires Ribeiro	---

⇒ Atmospheric Elemental Dispersion

Subject	Institute/University	Name of Scientist(s)	Contract/Program
PERM-Polymeric Elemental Reference Material	DSM N.V., IRMM, BASF A.G., other EU Laboratories/Universities	Dr. W. van Borm, Dr. J. Pauwels, Dr. H. Endriss	EU SMT4-CT952034
Study of dispersion of air pollutants in Sado region	Foundation of Lisbon University, RISO Laboratory, Delft University	Prof. Adelaide de Jesus, Dr. T. Mikkelsen, Dr. H.Th. Wolterbeek	JNICT/DGA 26/96
ValorSul Monitoring of Air Quality of the CTRU	IDAD/Universidade de Aveiro, ValorSul	Prof. Carlos Borrego, Eng. Luís Alves	ValorSul
Study of dispersion of air pollutants in Sado region	Delft University and other CRP laboratories /universities	Dr. B. Smodis, Dr. H.Th. Wolterbeek, other CRP participants	IAEA 9938
Roman marbles in Portugal	ITN, Universidade de Évora, Universidade Nova de Lisboa	Prof. J.M. Peixoto Cabral, Prof. L. Lopes, Prof. M.J. Maciel	PRAXIS XXI
Paleobiology of transition of mesolithic-neolithic	ITN, Universidade de Coimbra	Prof. Dr. J.M. Peixoto Cabral, Dr. Eugénia Cunha	PRAXIS XXI
Particulate and health – from air to lungs	ITN, other CRP laboratories/universities	Dr. Teresa Pinheiro, other CRP participants	IAEA CRP 9479
ValorSul-Monitoring of trace elements in CTRU	ITN, ValorSul	Eng. Ângela Gouveia	ValorSul
PIGE and other Ion Beam Analysis Developments	ITN, CFNUL	Prof ^a Adelaide de Jesus, Prof. Pires Ribeiro	

⇒ Environmental Analytical Chemistry

Subject	Institute/University	Name of scientist(s)	Contract/Program
The Use of Fine Grain Sediments (Silts and Clays) in the Understanding of Sedimentary Dynamics and Recent Evolution of the West Portuguese Continental Margin.	Museu Nacional de História Natural; Instituto Hidrográfico; Univ. do Algarve; Univ. de Bordéus.	Prof. A.M. Galopim de Carvalho; Dr. M. Teresa Drago; Prof. J. Alveirinho Dias; Dr. J.-M. Jouanneau; Dr. O. Webber	PBICT/JNICT
Ocean Margin Exchange (OMEX II)	Univ. Algarve, IST, Instituto Hidrográfico, Univ. Bordeau I, etc. (around 40 Universities and Laboratories)	Prof. J. Alveirinho Dias; Prof. Ramiro Neves; Dr. J.M. Jouanneau; Prof. T. Boski; Prof. Van Weering, etc.	MAST EC DG XII
Heavy Metal Pollution in the Trancão Basin - Soils, Sediments and Water Resources	ITN – Física S.M.C.M. Loures	Dra. Teresa Pinheiro Eng ^a Ana da Mata Eng ^o Arménio de Figueiredo	JNICT/DGA/PEAM/ P/GAG/226/93
Palaeaux – Management of Coastal Aquifers in Europe. Palaeowaters, Natural Controls and Human Influence	British Geological Survey; University College London; Noble Gas Hydrogeochemistry Laboratory; Vrije Universiteit Amsterdam; University of Gent; Geological Survey, Copenhagen ; Université Paris-Sud; Université Avignon; Universitat Politecnica de Catalunya; Universidad de las Palmas Universidade de Aveiro University of Bern; Estonian Academy Sciences	Prof. Mike Edmunds Prof. John A. Barker Dr. Jason Poole Dr. C.A.J. Appelo Dr. Kristine Walracuens Dr. Klaus Hinsby Prof. Laurent Dever Dr. Yves Travi Prof. Emílio Custodio Dr. Maria del Carmen Cabrera Prof. Marques da Silva Prof. Heinz Loosli Prof. Rein Vaikmäe	ENV4-CT95-0156

⇒ *Environmental Analytical Chemistry (cont.)*

Subject	Institute/University	Name of scientist(s)	Contract/Program
Application of Geochemical Methods, Isotopes and Flow Models to the Aquifer of Serra de S. Mamede	Faculdade de Ciências UNESUL	Prof. Lourenço Silva Dr. J. Paulo Monteiro	PEAM/SEL/557/95
Environmental Isotopes and Noble Gas Palaeothermometers in the Study of Climatic Change Encoded in the Palaeowaters of the Aveiro Aquifer	Universidade de Aveiro	Prof. Marques da Silva	PRAXIS XXI 2/2.1/CTA/321/94
Hydrological Study of the “Sete Cidades” Massive – Azores	Universidade dos Açores, Faculdade de Ciências	Dr. Rui Catarino Prof. Costa Almeida	—
Study of Gaso-Carbonic Cold Waters from “Vilarelho da Raia”, “Vidago” and “Pedras Salgadas”	Laboratório de Mineralogia e Petrologia – IST	Prof. Aires de Barros	—
Enregistrement géochimique de l’impact anthropique dans la sédimentation fine de la marge nord portugaise	Dep. Géologie et Océanographie Univ. Bordeaux I, IPIMAR	Dr. J.M. Jouaneau Eng. Carlos Vale	JNICT/IFREMER n° 198/B0

Inorganic Chemistry, Radiochemistry and Radiopharmacy

⇒ *Inorganic and Organometallic Chemistry*

Subject	Institute/University	Name of Scientist(s)	Contract/Program
X-Ray Diffraction Studies And Theoretical Calculations	Instituto Superior Técnico Faculdade de Ciências da Universidade de Lisboa	Adelino Galvão Maria José Calhorda	
Thermochemistry	Instituto Superior Técnico Faculdade de Ciências da Universidade de Lisboa	M. E. Minas da Piedade H. Diogo J. A. Martinho Simões	
Gas Phase Chemistry	Faculdade de Ciências da Universidade de Lisboa Instituto Superior Técnico Universidade Técnica de Lisboa	J. A. Martinho Simões M. T. Fernandez M. E. Minas da Piedade M. C. Oliveira	
Synthesis and Catalytic Applications of f-Element Complexes with Chelate Ligands	Lab. De Synthèse Assymétrique, URA, CNRS, Univ. Paris-Sud	Jacqueline Collin	ICCTI/CNRS
Lanthanide and Actinide Poly (pyrazolyl)borate Compounds	University of Alberta	Prof. Josef Takats	NATO Collaborative Research Grant
Inorganic and Organometallic Compounds of Lanthanides	Universidade de S. Paulo	Prof. Paulo Celso Isolani	ICCTI/FAPESP Bilateral Cooperation Project
Correlation of Gas and Condensed Phase Reactivity of Organolanthanide Metallocenes and Related Species	University of California, Irvine	Prof. William J. Evans	NATO Collaborative Research Grant
FT/ICR Mass Spectrometry of Organocompounds of Actinides and Lanthanides	Florida State University /High National Magnetic Field laboratory	Prof. Alan G. Marshall	NATO Collaborative Research Grant

⇒ *Inorganic and Organometallic Chemistry (cont.)*

Gas Phase Chemistry of Lanthanide and Actinide Elements	Technical University of Berlin	Prof. H. Schwarz	ICCTI/BMFT
Gas Phase Chemistry of Rare Earth Alkoxides and Aryloxides	Université de Nice-Sophia Antipolis	Prof. Serge Geribaldi	ICCTI/France Embassy
Thermochemistry and Structure of Organic and Organometallic Compounds	Instituto Superior Técnico University of Hamburg	Dr. M. E. Minas da Piedade Dr. Mathias Epple	CRUP/

⇒ Radiopharmaceutical Development

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Gama camera imaging	Inst. Biomédico de Inv. da luz e Imagem (IBILI) Coimbra	Prof. J. Pedroso de Lima	PRAXIS XXI
Molecular Modelling	Dep. de Química, FCT, Univ. de Coimbra	Dr. Rui Fausto	PRAXIS XXI
Technetium-99 Chemistry	Chemistry Department University of Ferrara, Italy	Prof. Andrea Marchi	PRAXIS XXI
Labelling of HIG with 99m-Tc and Characterization.	Univ. of Massachusetts Medical Center, USA	Prof. D. J. Hnatowich	—
Synthesis of Esteroid Derivatives	Faculdade de Farmácia, Universidade de Coimbra Institut of Advanced Material Study, Kyushu University, Fukuoka 816, Japan	Prof. Maria Luisa Sá e Melo DoctorThies Thiemann	PRAXIS XXI
Synthesis of Ligands	Faculdade de Farmácia da Universidade de Lisboa	Prof. Rui Moreira	—
Clinical Trials of Radiopharmaceutical	Inst. de Medicina Nuclear, Fac. de Medicina, Lisboa Serviço de Medicina Nuclear, IPO, Lisboa	Dr. Guilhermina Cantinho Dr. Maria do Rosário Vieira	—
Microbiologic Preparations	Instituto Nacional de Engenharia e Tecnologia Industrial	Dr. Eugénia Marques	—
Neuroendocrine Regulation of Growth Hopmone Secretion	Division de Biologie de la Croissance et de la Reproduction Hôpital Cantonal Universitaire, Genève	Prof. Michel L. Aubert	—

Nuclear Engineering

⇒ *Dosimetry*

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Work in the Field of BNCT	Experimental Clinical Pharmacology Centre of Faculty of Medicine of Lisbon	Prof. Matilde de Castro and Prof. Fernando Valle	—
	Radiotherapy Service of Santa Maria Hospital	Dr. Francisco Mascarenhas	
	Faculty of Biological Science of University of Valence	Prof. José Pertusa	
	Polytechnic University of Madrid	Prof. Vicente Alcober	
	ECN Petten	Dr. Finn Rasmussen	Cont. n° PL 95 3174
	Helsinki Univ.Hospital	Dr. Maria Kallio	
	VTT Helsinki	Dr.Iiro Auterinen	
	Helsinki University	Dr.Sauli Savolainen	
	TUB Budapest	Dr. Eva Zsolnay	
	Nat.Inst.Onc.Budapest	Dr.Orsolya Czuka	
KFKI - Budapest	Dr.Istvan Vidovsky		

⇒ *Applied Dynamics*

Subject	Institute/University	Scientists	Contract/Program
Remote Identification of Impact Forces on Multi-Supported Tubes	CEA Département de Mécanique et Technologie (France)	P. Izquierdo Ph. Piteau T. Grunenwald	Contract
	Instituto Superior de Engenharia de Lisboa	M. Paulino	
	Universidade Nova de Lisboa	A. Urgueira	
Software Development for Experimental Identification of the Vibratory Modes in Structures and Machinery	EDP/Companhia Portuguesa de Produção de Electricidade	J. Soares	Contract
	Université Technologique de Compiègne (France)	P. de Araújo	
	Ecole Nationale Supérieure des Arts et Métiers (France)	M. de Araújo	
Rotor Vibrations Under Fluid Confinement: Theoretical and Experimental Analysis of Nonlinear Orbital Motions	Instituto Politécnico de Setúbal	M. Moreira	
	Université de Technologie de Troyes	A. Tissot	
	CEA Département de Mécanique et Technologie (France)	Ph. Piteau T. Grunenwald	
	Université de Lille (France)	C. Debailleux	
Identification and Simulation of Complex Systems	Instituto Superior Técnico de Lisboa	H. Pina	
	Instituto Politécnico de Setúbal	M. Moreira	

⇒ *Applied Dynamics (cont.)*

Subject	Institute/University	Scientists	Contract/Program
Optimization of Acoustic Baffles in Heat Exchangers	Université Technologique de Compiègne (France) Instituto Superior de Engenharia de Lisboa EDP/Companhia Portuguesa de Produção de Electricidade	P. Araújo M. Paulino J. Soares	
Theoretical and Experimental Analysis of Nonlinear Oscillators	Université Technologique de Compiègne (France) Instituto Politécnico do Porto CEA Département de Mécanique et Technologie (France) Ecole Nationale Supérieure des Techniques Avancées (France) Trinity College Dublin	M. Tafasca L. Henrique L. Borsoi F. Axisa J. Fitzpatrick	
Theoretical and Experimental analysis of Two-Phase Flow Damping	Université de Technologie de Troyes CEA Département de Mécanique et Technologie (France)	F. Barroso F. Baj	

Industrial Technologies

⇒ Nuclear Instruments and Methods

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Industrial Cooperative Venture – Nuclear Instrumentation for Industrial Process Control (ITN-LUSOTECNA, SA - PROASTELA, SA)	ITN-LUSOTECNA- -PROASTELA	Engº Olívio Bento Engº José Quadros Engº Joaquim Lourenço	Contract CEDINTEC – Center for Technological Development and Innovation (Gov. Agency)
Searching Radiations	Dep. Educação, Fac. Ciências da Universidade de Lisboa Escola Secundária da Portela Escola Secundária de Benavente	Maurícia de Oliveira Maria Manuela Pereira (leader) and teachers of the 4 th Group Ana Maria Jacinto (leader) and teachers of the 4 th Group	Agência de Inovação Programa “Ciência Viva”
Metastable Superconducting Detectors	Centro de Física Nuclear das Universidades de Lisboa (Linha 5)	T. A. Girard, M. J. Gomes	
Monte Carlo simulation and radiation dosimetry techniques applied to external radiotherapy	Centro Regional de Oncologia de Coimbra (CROC), Coimbra, Laboratory of Instrumentation and Particles Physics (LIP)	M. Carmo Lopes, Adérito B. Chaves, Carla C. Oliveira Luís Peralta João Carlos Seco Margarida Fragoso	
Dosimetric studies of brachytherapy using simulation methods and TLD dosimeters	Instituto Português de Oncologia	Nuno Teixeira Brites Matos	
Monte Carlo simulation applied to external radiotherapy	Faculdade de Medicina Universidade de Sevilha	F. Sanchez Doblado	
Variable Voltage gas discharges for surface treatment	IST-OMFB (Hungria)	Dr. Mário Pinheiro Dr. Zoltan Donkó Dr. K. Kutasi	P423/OMFB
Work in the Field of BN Work in the Field of BNCT (see Reactor Dosimetry)			

⇒ *Radiation Technologies: Processes and Products*

a) *Radiation Sterilisation Research and Related Work*

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Biochemical and Molecular Studies on Radioresistant Methylothrophic Bacteria	University of Lisbon, Faculty of Sciences Dept. of Vegetal Biology University of Lisbon, Faculty of Pharmacy	Prof. Rogério Tenreiro (Scientific Adviser) Prof Aida Duarte	BIOSTER Project
Auditing Environmental Conditions of Atmosphere Controlled Facilities	Portuguese Institute of Quality (IPQ)	Eng. Noélia Duarte	
Technical Committee CT/87: - Portuguese Committee for Standardisation of Healthcare Products	Portuguese Institute of Quality (IPQ)	Eng. Noélia Duarte Eng. Cristina Raínho	
Technical Committees: ISO/TC 209 “Clearrooms and Associated Controlled Environments”	International Organization for Standardization (ISO)	Chairman: Richard A. Mathews	National representative. Technological collaboration
Technical Committees: ISO/TC 198 “Sterilization of Healthcare Products”	International Organization for Standardization (ISO)	Chairman: Dr. Virginia Chamberlain Convenor: Dr. Joyce Hansen	National representative. Technological collaboration

b) *Radiation Sterilisation Research and Related Work (cont.)*

Technical Committees: CEN/TC 204 “Sterilization of Medical Devices” CEN/TC 243 “Cleanroom Technology”	European Committee for Standardization (CEN)	Chairman: Dr. B. Nyström	National representative Technological collaboration
Microbiological Validation	JABA	Dr Emilia Rojo Dr. Isabel Carvalhosa Dr Rui Gouveia	Scientific and technological collaboration

b) *Polymer Modifications and Methods of Characterisation*

Subject	Institute/University	Name of Scientist	Contract/Program
Grafting Copolymerisation by Gamma Radiation	Dept. of Chemical Engineering, University of Coimbra	Prof. Maria Helena Gil	Scientific collaboration Supervision of PhD
Characterisation of Polymer Modification	ICTPOL, Lisbon	Dr. Gabriel Feio	Scientific collaboration (project submitted)

c) *Food Irradiation and Detection of Irradiated Food*

Subject	Institute/University	Name of Scientist(s)	Contract/Program
R&D on Food Irradiation and Detection Methods of Irradiation Food, Training of University	National Institute of Agricultural Research (INIA) Technical University of Lisbon, Technical Superior Institute (IST), Biotechnology Depart.	Dr. M. J. Trigo, Eng. M. P. Esteves. Prof. José Empis	Scientific collaboration and partnership on Contract EU- CIPA CT94-0134, COPERNICUS
New Bioactives Forms of Ophtalmologic and dermathologic Products	IBQTA/INETI	Dr. M. Teresa Amaral Dr Eugénia Cruz, Dr A. Ramalhete	Scientific collaboration Contract PEDIP- BATCC6000

c) Food Irradiation and Detection of Irradiated Food (cont.)

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Establishment of Technological Parameters to Irradiate Dried Fruits for Disinfestation	IAEA-International Atomic Energy Agency, Vienna, Austria	Mr. Paisan Loaharanu, Head, Food and Environmental Protection Section	Research Contract IAEA 8165/RB
Establishment of Eastern Network of Laboratories for Identification of Irradiated Foodstuffs	University of Marseille, Laboratory for Food Quality Research (LARQUA), France Laboratory for the Detection of Irradiated Foods, INCT/DRCT, Warsaw, Poland Pilot Plant for Food Irradiation, INCT, Warsaw, Poland University of Horticulture and Food Industry, Budapest, Hungary	Prof. Jacques Raffi Dr. W. Stachowicz Dr. W. Migdal Dr. Sandór Barabassy	Contract EU CIPA-CT94-0134"
Intecomparison Dosimetry for Radiation Processing	National Physical Laboratory (NPL), Centre for Ionising Radiation and Accoustic, Teddington, UK Riso National Laboratory, High Dose Reference Laboratory, Roskilde, Denmark	Dr. Peter Sharpe Dr Arne Miller	Contract EU, SMT4-CT-96-2077".

Cultural Heritage and Sciences

⇒ *Cultural Heritage and Sciences*

Subject	Institute/University	Name of Scientist(s)	Contract/Program
Alteration Processes and Conservation Processes of the Monumental Patrimony Built Of Granite	Laboratório Nacional de Engenharia Civil	Dr. José Delgado Rodrigues Dra. Dória Costa	PRAXIS/3/3.1/CEG/ 2516/95

