

CONTRACTS

PROJECT TITLE / DURATION	PROJECT LEADER / OTHER PARTNERS	FINANCIAL AGENCY / BUDGET (10 ³ PTE)
NUCLEAR SOLID STATE PHYSICS USING ION BEAMS		
Processing and Characterisation of Thin Films with Ion Beams and Hyperfine Interactions (PBICT/C/CTM/1891/95) 1996 - 1999	Univ. Lisboa CFNUL / ITN	UE: --- 6.200
Formation of Metallic Silicides Using Ion Implantation (PRAXIS/2/2.1/FIS/348/94) Jan/1997 - Dez/1999	Fundação Univ. Lisboa ITN CFNUL INESC	PRAXIS: 36.000 13.000 13.000 10.000
Growth and Characterization of Nanostructured Multilayer Coatings of TiN/Mo and ZrN/TiAlN Jan/1997 - Dez/1999	Univ. Minho ITN	FCT: 7.500 6.000 1.500
e-γ Perturbed Angular Correlations Experiments at CERN/ISOLDE (CERN/S/FIS/2041/97) 1998	Univ. Lisboa ITN	FCT: --- 8.000
Metastable Alloys in Al-Cr System, Produced by Ion Implantation and Laser Processing (PRAXIS/PCEX/P/FIS/2/96) Jan/1997 - Dez/1998	FFC - Univ. Lisboa ITN IST	PRAXIS: 10.600 --- 4.100 ---
Low-Temperature Polycrystalline Silicon Circuits for Large-Area Electronics (PRAXIS/3/3.1/MMA/17/75/95) 1997 - 1998	INESC ITN/CFNUL IST	PRAXIS: 25.000 14.300 5.700 5.000
Ion Implantation of Crystalline Oxides: Radiation Damage and Doping of TiO ₂ (<i>German-Portuguese Bilateral Agreement of Cooperation on Research and Technological Development</i>) (423/BMFT) Jan/1997 - Dez/1999	ITN (Rui Silva) INFP/FZK	FCT/BMFT: 600
European Fusion Long-Term Technology Programme Sub-Task: <i>Precise Ion Beam Analysis of Advanced Materials for Nuclear Fusion Reactor</i> 1996-1998	IST/CFN ITN ⁽³⁾	6.000
EURATOM Fusion Technology Programme Sub-Task: <i>Be Binary Pebble Bed Electrical Resistivity Measurements</i> Jan/1998 - Dez/1999	IST/CFN ITN ⁽³⁾	
Irradiation of Biomaterial Implants for Head and Neck Oncological Patients (PRAXIS/PSAU/C/SAU/120/96) Jan/1998 - Dez/2000	IPO ITN (Eduardo Alves)	PRAXIS: 15.000 --- 5.000
Cabeças Integradas de Gravação e leitura (PRAXIS/3/3.1/MMA/1751/95) Jan/1998 - Dez/2000	INESC IFIMUP CFNUL/ITN	PRAXIS: 44.951 29.061 11.690 4.200

⁽¹⁾ Only travels

⁽²⁾ Equipment (~10.000 c)

⁽³⁾ It's a SUB-CONTRACT

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CONDENSED MATTER PHYSICS

Determination of Internal Strains in Superalloys for High Temperature Applications (PBIC/C/CTM/1898/95) Jan/1996 - Dez/1998	ITN (<i>António Sequeira</i>)	JNICT: 6.450
Caracterisation and Modelling of Physical Properties of High-Temperature Coated Super Alloys (PRAXIS/PCEX/P/FIS/21/96) Mai/1997 - Mai/2000	ITN (<i>António Sequeira</i>) IST	PRAXIS: 40.000 33.900 6.100
Microstructure Determination of Vitreous Matrix Composites and Vitreous Materials (Portuguese - French Sc. And Technical Coop. Programme 1998) Jan/1998 - Dec/2000	ITN (<i>Fernanda Margaça</i>) Univ. Aveiro Lab. Léon Brillouin, CEA-CNRS	ICCTI 1.800 IFREMER 600 600 600

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SOLID STATE CHEMISTRY AND PHYSICS

Intermetallic Magnetic Materials (PRAXIS/3/3.1/FIS/29/94) Jan/1995 - Dez/1998	ITN (Manuel Leite de Almeida) ICAT FC - Univ. Coimbra IFIM - Univ. Porto	PRAXIS: 37.000 11.200 10.900 9.450 5.450
Magnetic Molecular Materials Based on Dithiolate Complexes (PBIC/C/QUI/2204/95) Jan/1996 - Dez/1998	ITN (Vasco da Gama)	JNICT: 6.963
Magnetic Intermetallic Materials: ThMn ₁₂ type Compounds with Interstitials (PRAXIS/2/2.1/QUI/202/94) Out/1996 - Out/1999	ITN (Manuel Leite de Almeida) FC - Univ. Coimbra	PRAXIS: 10.000 5.000 5.000
Vortex Motion in YBaCuO Thin Films (PRAXIS/2/2.1/QUI/410/94) Out/1996 - Out/1999	ITN (Gregoire Bonfait) FFC - Univ. Lisboa	PRAXIS: 10.000 4.700 5.300
Charge Transfer Solids: from the Metal Dichalcogenate to Synthetic Metals (PRAXIS/2/2.1/QUI/203/94) Jan/1997 - Dez/1999	ITN (Rui Teives Henriques) IST	PRAXIS: 30.000 15.000 15.000
Polymer LED Active Matrix (PRAXIS/3/3.1/MMA/1792/95) Abr/1997 - Abr/2000	IST (Luís Alcácer) ITN (Manuel Leite de Almeida) INESC DF - Univ. Algarve DF - Univ. Aveiro	PRAXIS: 25.000 12.000 3.000 4.000 2.500 3.500
Phase Transitions in Magnetic Anisotropic Systems (PRAXIS/PCEX/P/FIS/1/96) Jun/1997 - Dez/1998	ITN (Manuel Leite de Almeida) FFC - Univ. Lisboa	PRAXIS: 50.000 40.000 10.000
New Molecular Heterobimetallic and Bifunctional Architectures: Synthesis, Properties and Catalytic Applications (PRAXIS/QUI/316/94) Jan/1997 - Dez/1999	ITQB - Univ. Nova Lisboa ITN (Rui Teives Henriques) FCT - Univ. Nova Lisboa DQ/FC - Univ. Porto DEQ/IST - Univ Técnica Lisboa	PRAXIS: 60.000 --- 2.500 --- --- ---
Design and Preparation of New Molecular Systems with Unconventional Electrical, Optical and Magnetic Properties	ITN (Manuel Leite de Almeida)	EC/COST: ⁽¹⁾

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SOLID STATE CHEMISTRY AND PHYSICS

Transport Properties of Thin Films and Multilayer of HT _C Superconductors (B1/105)	ITN (Manuel Leite de Almeida)	France Emb. ⁽¹⁾
High Spin Molecules	IST (Candia Suhoji) ITN (Vasco da Gama)	PRAXIS: 18.000 16.250 1.750

⁽¹⁾ Only Travels

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ENVIRONMENTAL SCIENCES

Health and Environmental Studies Using Ion Beam Techniques

Particulate Matter and Health - from Air to Human Lung (IAEA - 9479/R0) Jan/1997 - Dez/1999	ITN (Maria Teresa Pinheiro) Faculdade de Medicina - Univ. Lisboa	IAEA: 2.775 2.775 0
Research on Ecotoxicity Indicators in Aquatic Communities at the Guadiana River (JNICT/DGA/PEAM/P/NMA/666/95) Dec/1996 - Dez/1999	FCUL (Prof. M ^a da Luz Mathias) ITN (Maria Teresa Pinheiro)	JNICT/GDA: 5.000 500
Microanalysis of Toxic Elements in Human Teth by SRXRF (TMR - Large Scale Facilities Access) (TMR900-98 (LURE)) Jan/1998 - Dez/1998	CFA-UL (Prof. Luisa Carvalho) ITN (Maria Teresa Pinheiro) INETI	UE: (1)

⁽¹⁾ Only Travels and Daily Allowence

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Atmospheric Elemental Dispersion

Study of Atmospheric Dispersion of Pollutants in the Industrial Region of the Sado Estuary Using Biomonitoring (DGA/26/95) Abr/1996 - Abr/1999	ITN (Maria do Carmo Freitas) CFNUL	DGA: 5.853 5.853 0
Design, Production and Certification of Synthetic Polymeric Reference Material for Multielement Analysis (EU - PERM STM4-CT-95-2034) Jan/1996 - Dez/1998	15 Partners ITN (Maria do Carmo Freitas)	UE: --- 3.300
Study of Atmospheric Dispersion of Pollutants in the Industrial Region of the Sado Estuary Using Biomonitoring (IAEA-CRP 9938) Dez/1997 - Dez/2001	ITN (Maria do Carmo Freitas) 	IAEA: 3.331 EDP (1) 3.331
ValorSul - Monitoring of Air Quality at the Incinerator of S.João da Talha Nov/1998 - May/1999 (renewable for 6 months periods)	ITN (Maria do Carmo Freitas)	IDAD: 8.305

*** Only equipment.

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Environmental Analytical Chemistry

Heavy Metal Pollution in the Trancão River Basin - Soils, Sediments and Water Resources (PEAM/P/GAG/226/93) Jan/1996 - Abril/1999	ITN (<i>Maria de Fátima Araújo</i>) Química Física	DGA: 4.800
The Use of Fine-Grained Sediments (Silts and Clays) in the Understanding of Sedimentary Dynamica and Recent Evolution of the West Portuguese Continental Margin (PBIC/C/MAR/2248/95) Jan/1996 - Dez/1998	MNHN - Univ. Lisboa ITN (<i>Maria de Fátima Araújo</i>) Inst. Hidrográfico UCTRA - Univ. Algarve IPIMAR Univ. Bordéus, France	JNICT: 6.000 --- 1.500 --- --- --- ---
Biological Chemistry of Vanadium - Implications and Applications (PRAXIS/P/2/2.1/QUI/4/94) Jan/1996 - Dez/1998	CQE/IST - Univ. Técnica Lisboa ITN (<i>Maria de Fátima Araújo</i>) LA/IST - Univ. Técnica Lisboa FTQB FC - Univ. Lisboa	PRAXIS: (1,2) 1.500
Management of Coastal Aquifers in Europa: Paleowaters, Natural Controls and Human Influence - PALLAEUX (ENV4-CT95-0156) Fev/1996 - Fev/1999	British Geological Survey, UK ITN (<i>Paula Carreira</i>) Univ. Gent, Belgium GSDG, Denmark Univ. Paris-Sud XI, France Univ. Polit. Cataluna, Spain Univ. Aveiro, Portugal Univ. Amsterdam, Netherlands Univ. Bern, Switzerland	EC: 202.432 39.677 18.887 26.235 27.166 26.215 26.114 10.769 27.369 0
Environmental Isotopes and Noble Gas Palaeothermometers in the Study of Climatic Change Encoded in the Palaeowaters of the Aveiro Aquifer (PRAXIS/2/2.1/CTA/321/94) Jan/1997 - Dez/1999	Univ. Aveiro ITN (<i>Paula Carreira</i>)	PRAXIS: 9.955 4.345 5.610
Application of Geochemical Methods, Isotopes and Flow Modells to the Aquifer of Serra de S. Mamede (PEAM/SEL/557/95) Jan/1996 - Dez/1998	FC - Univ. Lisboa ITN (<i>Paula Carreira</i>)	JNICT: 4.150 3.080 1.070
OMEX (Ocean Margin Exchange) Programa MAST 1999-2000	Univ. Libre de Bruxelles Univ. Algarve ITN (<i>M. Fátima Araújo</i>)	UE: (2) 2.000
Enregistrement géochimique de l'impact anthropique dans la sédimentation fine de la marge nord portugaise (JNICT/IFREMER n° 198/BO) 1997-1998	Univ. Bordeaux I ITN (<i>M. Fátima Araújo</i>)	JNICT/IFREMER: (3)

⁽¹⁾ Only equipment

⁽²⁾ SUB-CONTRACT

⁽³⁾ Only Travels and Daily Allowence

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INORGANIC AND ORGANOMETALLIC CHEMISTRY

Thermochemistry of Inorganic and Organometallic Compounds (PBIC/C/QUI/1941/95) Fev/1996 - Fev/1999	ITN (João Paulo Leal)	JNICT: 6.380
FTICR/MS Study of the Gas Phase Chemistry of Intermetallic Ions of the <i>f</i> and <i>d</i> Blocks (PBIC/C/QUI/2188/95) Fev/1996 - Fev/1999	ITN (Joaquim Marçalo)	JNICT: 6.875
Chemical Behavior in the Heterogeneous Phase of Compounds of the <i>f-E</i> lements (PRAXIS/2/2.1/QUI/386/94) Jan/1997 - Jan/2000	ITN (António Pires de Matos) IST - Univ. Técnica Lisboa FCT - Univ. Nova Lisboa ISEL	PRAXIS: 27.000 15.680 2.205 4.290 4.825
Energetics, Structure and Reactivity of Molecules (PRAXIS/2/2.1/QUI/51/94) Jan/1997 - Jan/2000	FFC - Univ. Lisboa (José Simões) ITN (João Paulo Leal) IST	PRAXIS: 35.838 13.708 7.155 14.975
Compounds of <i>f</i> -Elements: Synthesis, Characterization and Reactivity Studies (PRAXIS/2/2.1/QUI/454/94) Abr/1997 - Abr/2000	ITN (Isabel Rego dos Santos)	PRAXIS: 7.500
Applications of Fourier Transform Ion Cyclotron Resonance Mass Spectrometry (FTICR/MS) to Gas Phase Chemistry (PRAXIS/PCEX/C/QUI/72/96) Set/1997 - Set/1998	ITN (Joaquim Marçalo) FC - Univ. Lisboa IST - Univ. Técnica Lisboa	PRAXIS: 15.000 15.000 0 0

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RADIOPHARMACEUTICAL DEVELOPMENT

Synthesis and Characterization of Technetium Complexes with Biguanidas (PRAXIS/2/2.1/SAU/1396/95) Set/1996 - Set/1999	ITN (<i>Maria dos Anjos Neves</i>) AAIBILI	PRAXIS: 15.000 14.230 770
Development of ^{99m} Tc labelled somatostatin and evolution of their radiochemical and biological behaviour (IAEA - 8972/R1) Dez/1995 - Fev/1999	ITN (<i>Maria de Lurdes Gano</i>)	IAEA: 1.846 (1)
Detection of Amyloid Deposit by Scintigraphy with Labelled Serum Component	UN - Hospital Curry Cabral ITN (<i>Luciana Patrício</i>)	SANDOZ GRANT: ---
¹⁷ O-[¹²⁵ I] iodovinilesteroids substituted at 7 α : Investigation of a New Series of Iodine [¹²⁵ I] labeled Estrogens as Potential Imaging Agents for Estrogen Receptor Positive Breast Cancers (PRAXIS/PSAU/C/SAU/89/96) Jul/1997 - Jul/1999	ITN (<i>Luciana Patrício</i>) FF - Univ. Coimbra AAIBILI	PRAXIS: 18.000 10.650 6.200 1.150

(1) Biochemical Products (~ 923 c.)

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APPLIED DYNAMICS

Software Development for Experimental Identification of the Vibratory Modes in Structures and Machinery 1995 - 1998	ITN (<i>Vieira Antunes</i>) EDP/PPE	EDP/CPPE: --- 6.000
Development of theoretical and experimental methods for the remote identification of impact forces on multisupported tubes 1997 - 1999	ITN (<i>Vieira Antunes</i>) CEA	CEA: --- 9.000

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NUCLEAR INSTRUMENTS AND METHODS

Searching Radiations (Program: "Ciência Viva") 1998-1999	ITN (<i>José Salgado</i>)	Adl: 2.122
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RADIATION TECHNOLOGIES: PROCESSES AND PRODUCTS

Establishment of Technological Parameters to Irradiate Dried Fruits for Desinfestation (IAEA/RC/8165/RB) Nov/1995 - Nov/1998	11 Partners ITN (<i>Maria Eduarda Andrade</i>)	IAEA: 2.500
Establishment of an Eastern European Network of Laboratories for Identification of Irradiated Foodstuffs (CIPA/CT/94/0134) Fev/1995 - Fev/1998	LARQUA - Univ. Marseilles, France ITN (<i>Maria Eduarda Andrade</i>) INCT, Warsaw UHFI and AI, Hungary IC, Bulgaria CEDRA, Belgium	EC: --- 1.740
New Bioactives Forms of Ophthalmologic and Dermathologic Products (BAT CC 6000) Jul/1997 - Dez/1999	OFTALDER ITN (<i>Maria Eduarda Andrade</i>) INETI	PEDIP II: --- 1.640
Dosimetry for Radiation Sterilisation of Medical Devices (SMT4/CT/96/2077) Jan/1997 - Dec/1999	RISO, Denmark/NPL, UK 20 Partners ITN (<i>Maria Eduarda Andrade</i>)	EC: --- (1)
Study Case on Medical Devices Manufacturing - Bioburden Studies in/on product. Gamma Sterilisation vs Sterilization with Steam under Pressure (BIOSTER) Fev/1997 - Fev/1999	ITN (<i>Maria Luísa Botelho</i>) AdI - PRAXIS XXI med. 3.1 INFARMED BASTOS VIEGAS FAPOMED OFTALDER PRAXIS XXI med. 4	AdI: 21.624 INFARMED: 2.000 BASTOS VIEGAS: 4.618 FAPOMED: 2.218 OFTALDER: 2.427 PRAXIS XXI med.4: 2.400
Microbiological Validation of LYOMER Product Jan/1998 - Fev/1999	ITN (<i>Maria Luisa Botelho</i>) JABA Farmacêutica	500

⁽¹⁾ Only Products and Meetings

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CULTURAL HERITAGE AND SCIENCES

Causes and Mechanisms of Degradation of Igneous Rocks of the Built Patrimony in Minho, Alentejo and Açores (PRAXIS/2/2.1/CSH/254/96)	ITN (Maria Isabel Prudêncio) Univ. Minho IICT LNEC CECRA	PRAXIS: 18.000 6.550 3.800 2.750 2.500 2.400
Alterations Processes and Conservation Processes of the Monumental Patrimony Built of Granite (PRAXIS/3/3.1/CEG/2516/95)	LNEC ITN (Maria Isabel Prudêncio)	PRAXIS: 23.000 14.823 8.177
Climate Change in Portugal in the Last 15 Thousand Years (PRAXIS/3/3.2/EMG/70/94)	FFC - Univ. Lisboa ITN (António Monge Soares) ICAT MLJB	PRAXIS: 11.000 1.680 4.520 4.800 9.000
Mármore Romanos em Portugal: caracterização artística, petrográfica, química e isotópica (PRAXIS/2/2.1/CSH/819/95)	ITN (João Peixoto Cabral) FCSH - Univ. Nova Lisboa IA - Univ. Coimbra DG - Univ. Évora	PRAXIS: 10.000 5.050 1.375 1.375 2.200