

# FCT - Atualização de Equipas de Investigação e Entrega de Relatório Científico 2007 | 30-04-2008

## EQUIPA DE INVESTIGAÇÃO

Total de Investigadores: 21

Total de Investigadores Elegíveis: 21

Total de Validados: 21

Total de Confirmados: 21

Total F: 7

Total M: 12

Nome	(1)	(2)	(3)	%Tempo	Grau Académico	Categoria
- António José Feliciano Barbosa	X	X	1	20	Doutoramento	Professor Auxiliar
- António Manuel Bracinha Vieira	X	X	1	50	Agregação	Professor Catedrático
- Carlos Manuel Branco Nogueira Fragateiro	X	X	1	20	Doutoramento	Professor Auxiliar
- Catarina Pombo Martins de Castro Nabais	X	X	1	40	Doutoramento	Não aplicável (bolseiro)
- Cristina de Sousa Azevedo Tavares	X	X	1	20	Doutoramento	Professor Associado
- Diogo Sardinha Marques da Silva	X	X	1	20	Doutoramento	Não aplicável (bolseiro)
- Eduardo Anibal Pellejero	X	X	1	40	Doutoramento	Não aplicável (bolseiro)
- Fernando José Coelho Martins Vale	X	X	1	20	Doutoramento	Professor Auxiliar
- Filipe Daniel Borges Tereno	X	X	1	20	Doutoramento	Não aplicável (bolseiro)
- Isabel Maria Ferreira Martins Serra	X	X	1	40	Doutoramento	Professor Auxiliar
- Jean-Yves Mercury	X	X	1	40	Doutoramento	Outra
- José Nunes Ramalho Croca	X	X	1	50	Agregação	Professor Auxiliar
- Maria Adelaide Alves Dias Ramalho Croca	X	X	1	20	Doutoramento	Professor Auxiliar
- Maria Alfreda Cordeiro da Cruz Ribeiro Viana	X	X	1	50	Doutoramento	Professor Associado
- Maria Clara de Almeida de Barros Queiroz	X	X	1	20	Agregação	Professor Catedrático

(1) Investigadores validados; (2) Investigadores confirmados; (3) Elegibilidade do investigador.

(4) Apenas quando todos os investigadores tiverem confirmado a sua presença lhe será possível encerrar a actualização da equipa.

## OBJECTIVES & ACHIEVEMENTS

### 1. Unit Description (3000 ca.)

#### 1) SCIENTIFIC COORDINATOR (SC)

- Olga Pombo is the SC of the CFCUL since 2003. She has been re-elected for the period of 2006-2009.

#### 2) SCIENTIFIC BOARD (SB) constituted by all PhD eligible researchers (now, 21 members)

- the SB meets several times per year in a regular basis

- the SB meets in an annual basis with its 3 consultants (Profs. Andrade e Silva, Franco Selleri and Daniel Andler).

### 3) EXECUTIVE BOARD (EB)

- constituted by the eligible members responsible for the research groups and the research projects approved by the SB

- the EB executes the decisions taken in the SB in order to guarantee a both in time and accurate control of:

- 1) all the management and budgetary issues regarding each activity's implementation;
- 2) the evaluation of all the achieved (or not) goals, always trying to analyze what worked out well or what did not go as initially expected.

### 4) RESEARCH GROUPS (RG)

- the 7 RGs are responsible for the development of the CFCUL research projects (4 funded FCT projects approved, 15 internal projects and 6 international projects)

Since 2007, CFCUL has been relocated at the C4 building at the Faculty of Sciences University of Lisbon ( FCUL) currently occupying two rooms (4.3.28 and 4.3.30)

## 2. General Objectives (3000 ca.)

This refers to the current aims of the Unit as a whole. The CFCUL continues to be the only Research Unit exclusively dedicated to the Philosophy of Science in Portugal.

Our MAIN OBJECTIVES were and still are:

- to promote the development of the Philosophy of Sciences in Portugal
- to stimulate and support both specialized and interdisciplinary research
- to assure supervision of graduate and post-graduate students on Philosophy of Sciences
- to integrate research and post-graduate studies through Master and Doctoral programs, mainly "History and Philosophy of Science", FCUL "Master on Bioethics", Lisbon Fac. of Medicine)
- to develop national and international research projects
- to establish national and international partnerships
- to organize colloquia, workshops and conferences
- to promote a "Philosophy of Sciences Permanent Seminar" for senior researchers and a "Gymnasium" for post-graduate students
- to edit a Scientific Journal ("Conceito")
- to edit 3 series of books on Philosophy of Sciences "Philosophy of Science Notebooks" "Documenta" "Thesis"
- to reach the wider national and international scientific community and the specific publics we thought might be interested or benefit from our research in Lisbon as well as in the rest of the country

These objectives are to be developed in specific terms within the CFCUL 7 RESEARCH GROUPS:

- 1) Unity of Science;
- 2) Phil. of Nature Sciences;
- 3) Phil. of Life Sciences;
- 4) Phil. of Human Sciences;

- 5) Science, Ethics and Politics
- 6) Scientific Discovery, Invention and Creation;
- 7) Science and Art.

### **3. Main Achievements during the year of 2007 (3000 ca.)**

BOOKS (6 published, 21 ready for publication), we highlight:

- Croca, J.R. e Moreira, R. (2007), Diálogos sobre Física Quântica. Dos Paradoxos à Não-Linearidade, Lisboa: Esfera do Caos  
(2nd edition 2008)
- João Caraça et al (2007), Le printemps du politique, Paris: Robert Laffont
- Manuel Torres, J. (2007), The Influence of Genetics on Contemporary Thinking, SPRINGER, with A. Fagot-Largeault and S. Rahman. 2007
- O. Pombo; A. Gerner (eds) (2007), Abduction and the Process of Scientific Discovery, Lisboa: CFCUL (1st of series Documenta)
- O. Pombo, S. Rahman, J. Manuel Torres and J. Symons (eds)(2007), The Unity if Science: Essays in the Honor of Otto Neurath, Springer (in press)

ORGANIZED COLLOQUIA (2 national, 5 international), we highlight

- "Darwinism vs Creationism - Where does a Scientific Theory Begin?", FCUL, Lisbon 21.03
- Jornadas Ibéricas I and II - with "Grupo de Lógica, Lenguaje e Informacion" Univ. Sevilha, 19.03 (Sevilha) and 8.05 (Lisbon).
- I International colloquium of Science, Ethics and Politics with Collège International de Philosophie, Paris, Institut of Philosophy, Freie Universität Berlin and Institut Franco-Portuguais, Lisboa, 29, 30, 31 October
- I Colóquio Luso-Brasileiro Leibniz, org. by PUC-Rio de Janeiro, UERJ and CFCUL, Rio de Janeiro, 21-23.11 (2nd will be organized by CFCUL in 2009)

ORGANIZED WORKSHOPS (8), we highlight

- Arte e Ciência como Criação. Em torno de Gaston Bachelard, FCUL, 26. 01
- Technoscience: Epistemological and Sociological Approaches, ICS, 21.04 (with ICS)
- Visual representation in Art and Science, FCUL, 7.11

ORGANIZED CONFERENCES (23), we highlight

- Evidence-Based Medicine - R. Tore Slaattelid (Univ. Bergen, Norway), 10.05.2007
- Grundlagenstreit e o Intuicionismo Brouweriano , F. Ferreira (Dep. Matemática, FCUL), 10.10.2007
- Bayesian Epistemology, G. Wheeler (CENTRIA/FCT), FCUL, 26.02.2007

PROJECTS

- Cultura Científica. Migrações Conceptuais e Contaminações Sociais (POCTI/FIL/48133/2002) - excellent (27.550 EUR)
- A Imagem na Ciência e na Arte (PTDC/EAT/64201/2006) - very good (180.705EUR)
- Poincaré Filósofo da Ciência (PTDC/FIL/64748/2006) - excellent (30.000 EUR)
- Problemas Filosóficos da Física Quântica (PTDC/FIL/64748/2006) - excellent (47.000 Eur)

## THESIS

- 5 Master + 2 PHD completed
- 10 Master + 13 PHD in progress (+ 7 PhD in preparation)

## GRANT HOLDERS

- 3 Post-Docs
- 8 PhD

## TEACHING, we highlight

- Master in History and Philosophy of Science - FCUL
- Master in Bioethics - Fac. Medicine UL
- With the support of the Institut Franco- Portugais, we are developing a graduate training network involving CFCUL and UMR 8163/Lille III that will include a "MAITRISE CONJOINTE" (foreseen 2009- 10)

## STRONGER INSTITUTIONAL BACKGROUND

- since 2007, the CFCUL has contributed to the creation of the univ. department "Autonomous Section on History and Philosophy of Science" in the Faculty of Sciences of Lisbon University. Olga Pombo, the CFCUL coordinator, has been elected its President.

## INTERNATIONALIZATION

6 international projects, we highlight

- La Science dans ses Contextes- Pragmatisme Dialogique (head - S. Rahman)
- Lógica Universal e Unidade da Ciência (with Univ. Sevilha) - CRUP 2008-2010
- SIPS, Système d'Information en Phil. des Sciences (head - T. Martin)

## **ACTIVITIES**

### **1. Integrative/multidisciplinary activities during the year of 2007 (3000 ca.)**

Special activities that aim to carry out research across disciplines. Given the nature of the CFCUL research field, a great number of our activities are necessarily integrative and multidisciplinary. Firstly, because Philosophy of Science is in itself an interdisciplinary area; secondly, because our team has members coming from a significant variety of institutions and disciplines (Philosophy, Physics, Medicine, Biology, Mathematics, Sociology, Logics). So:

1) some of our projects (if not all) are strongly interdisciplinary.

- FCT Research Project "Scientific Culture. Conceptual Migrations and Social Contaminations" had, as one major explicit objective: "to intertwine disciplines, to cross boundaries and to allow for knowledge exchange from different research areas".
- FCT Research Project "Poincaré. Philosopher of Science" includes researchers from Physics, Mathematics, Philosophy, Logics, History of Science and Mathematical Learning.
- FCT Research Project "Image in Science and Art" includes researches from Physics, Mathematics, Logics, Medicine, Arts, Philosophy, Geology, Biology, etc

2) the same can be said about the organization of colloquia. For instance:

Darwinismo versus Criacionismo - Onde começa e onde acaba uma Teoria Científica? (FCUL, 21 March) gathered researchers from Biology, Antropology, Philosophy, Paleontology, Geology, History, Genetics.

3) besides the internal interdisciplinary nature of the CFCUL, we pursued the objective of inviting speakers from different research areas to the conference cycles we organize - "Permanent Seminar on Philosophy of Sciences", "Gymnasium" and "Dispersions". Specially the latter is explicitly intended "to liberate the critical movement of Philosophy from the precise scientific subjects". And in fact, in 2007, we received scholars coming from areas like Mathematics, Psychology, Sociology, Politics or Linguistics.

4) we should also mention that our teaching is done in the Faculty of Sciences and in the Faculty of Medicine, and that our post-graduate students are coming from a huge variety of research areas.

## **2. Outreach activities during the year of 2007 (3000 ca.)**

One of our most important outreach activities was the creation and maintenance of a public WEB-PAGE. This is an heavy structure, hard to keep actualized, but which demonstrates and disseminates our activities to thousands of people who visit it every day.

### BOOKS

Of the 6 books published (21 other are ready for publication), we highlight the case of

- Croca, J.R. e Moreira, R. (2007), Diálogos sobre Física Quântica. Dos Paradoxos à Não-Linearidade, Lisboa: Esfera do Caos, 352 pp

whose public success can be demonstrated by the printing of a second edition

### BOOK DEBATES

We organized 2 Book presentations and 3 Book debates at the FCUL and some bookshops

### INTERNATIONAL and NATIONAL COLLOQUIA

- Among the 7 organized colloquia (5 international and 2 national), we highlight the national colloquium "Darwinism versus Creationism – Where does a Scientific Theory Begin?" - organized by the CFCUL, Centro de Biologia Ambiental (CBA), Soc. Portug. de Ciências Naturais (SPCN),

Biblioteca Central da FCUL and Livraria Escolar Editora, FCUL, Lisbon, 21.03.2007. It was certainly one of our most participated events, with an estimated public of around 500 people in a single day.

### WORKSHOPS

Of the 8 Workshops we organized, we highlight 2:

- "Giordano Bruno died in the fire in February 1600", 14.02.2007, FCUL - this was the 1st session of a conference series entitled "Great

Physicists" which we intend to develop in the future.

- Technoscience: Epistemological and Sociological Approaches - 21.05 at the Instituto de Ciências Sociais da Universidade de Lisboa(ICS)

### ORGANIZED CONFERENCES

The CFCUL organized also a total of 23 other conferences, either with international or national speakers. These conferences were organized in 3 different cycles: the "Permanent Seminar on Philosophy of Sciences", the "Gymnasium" and "Dispersions". If in the first case, the conferences were aimed mainly at a specialized yet

interdisciplinary public, in the two other cases, we succeeded to reach, not only researchers from different areas, but also a wide number of people. In the case of the "Gymnasium", we definitely succeeded in giving the word to post-graduate students or researchers who were giving their first steps in philosophy of science.

#### CONFERENCES GIVEN BY THE TEAM

Of the 124 conferences given by the team, we highlight 35 given in secondary schools, other universities, other research centers, in Portugal or abroad and 16 as submitted papers to international colloquia

#### MEDIA

- Relógios de Sol, interview with Ana Paula Silva to the RTP program "4 x Ciência", 6.02.2007
- Indisciplinas, interview with Nuno Nabais to the homonymous RTP2 program, 1.07.2007
- Língua é Poder, with Olga Pombo TV Program "Câmara Clara", 15.07.2007
- Pensar por Pensar, weekly talk by António Bracinha Vieira and Nuno Nabais at the Radio Program (RCP), Janela Aberta, wednesdays from December 2007 onwards

#### THEATER AND SCIENCE

In collaboration with the Teatro Nacional D. Maria II and the Teatro da Politécnica, we presented three plays focusing on important scientific subjects:

- 1- Darwin no Jardim
- 2- O que sabemos (Conferência de Richard Feynman)
- 3- After Darwin

#### GENERAL INDICATORS

	2007
Nº of Researchers (FTE)*	21
Masters Completed in the Period	5
PhDs Completed in the Period	2

\* Full Time equivalent researcher refer exclusively to PhDs. 1PhD with equal of more than 20% dedicated to research in the Unit is equal to 1.0 FTE.

#### RESEARCH GROUPS

Group:	Principal Investigator
<input type="checkbox"/> <u>Science, Ethics and Politics</u> RG-PHIL-LVT-Lisboa-678-1051	Nuno Gabriel de Castro Nabais dos Santos
<input type="checkbox"/> <u>Unity of Science</u> RG-PHIL-LVT-Lisboa-678-799	Olga Maria Pombo Martins
<input type="checkbox"/> <u>Philosophy of Nature Sciences</u> RG-PHIL-LVT-Lisboa-678-800	José Nunes Ramalho Croca
<input type="checkbox"/> <u>Philosophy of Life Sciences</u> RG-PHIL-LVT-Lisboa-678-1049	António José Feliciano Barbosa
<input type="checkbox"/> <u>Discovery, Invention and Creation</u> RG-PHIL-LVT-Lisboa-678-1052	Isabel Maria Ferreira Martins Serra
<input type="checkbox"/> <u>Philosophy of Human Sciences</u> RG-PHIL-LVT-Lisboa-678-1050	Eduardo Anibal Pellejero
<input type="checkbox"/> <u>Science and Art</u> RG-PHIL-LVT-Lisboa-678-1053	Catarina Pombo Martins de Castro Nabais

## Science, Ethics and Politics

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### 1. Group Name/Designation

Science, Ethics and Politics

(RG-PHIL-LVT-Lisboa-678-1051)

### 2. Principal Investigator

Nuno Gabriel de Castro Nabais dos Santos

### 3. Location of Group (Host Institution)

Fundação da Faculdade de Ciências

### 4. Keywords

Biopolitics | Bioethics | Science Policy | Science and Gender

### 5. Funding, source, dates (1000 ca.)

- 1 000 EUR - book purchase, management, funded by CFCUL

- 36.880 EUR - FCT post-doc grant - PHD. Diogo Sardinha (CFCUL), University of Paris 1 – Panthéon-Sorbonne, supervisor: Jean-François Kervégan (2006-07, 2007-08)

## PI AND RESEARCHERS

### 1. Researchers in the Group (PhD Only)

Team Member (Ph.D.)

- António José Feliciano Barbosa  
(Professor Auxiliar)
- Diogo Sardinha Marques da Silva  
(Não aplicável (bolseiro))
- Eduardo Anibal Pellejero  
(Não aplicável (bolseiro))
- Maria Adelaide Alves Dias Ramalho Croca  
(Professor Auxiliar)
- Maria Alfreda Cordeiro da Cruz Ribeiro Viana  
(Professor Associado)
- Maria Teresa Marcelino Levy Martins  
(Professor Auxiliar)
- Nuno Gabriel de Castro Nabais dos Santos  
(Professor Auxiliar)

### 2. Other Researchers in the Group (PhD.) (2)

Other Team Member(s) (Ph.D.)

- MARIA ANGELA MINEIRO DIONÍSIO

Category

\*\* Please select \*\*

### 3. Other Researchers in the Group (non PhD.) (2)

Team Member (non Ph.D.)

- Dominique Jean-François Mortiaux
- Gonçalo Abilio Becerra da Costa
- João António Lopes Alves
- João Lopes Barbosa
- Marco Alexandre Silva de Pina e Silva
- Maria Tereza Romano Ventura de Campos Morais
- Marina López López
- Raul Boino de Azevedo Lapa
- Stella Lorenz

Category

Não aplicável (bolseiro)

Outra

Outra

Outra

Não aplicável (bolseiro)

Professor Associado

Professor Auxiliar

Outra

Não aplicável (bolseiro)

## **OBJECTIVES & ACHIEVEMENTS**

### **1. Objectives (2000 ca.)**

THE objectives are focoused in thinking out the ethical and political groundings of scientific rationality face to the political and ethical implications of science.

#### 1) RESEARCH:

- Ethic and political foundations of scientific rationality
- The plurality of reason's interest. Practical reason, aesthetic reason and theoretical reason
- Scientific domains and power dispositives
- The republicanism of science. Reason and Democracy
- The search for the ethical and political neutrality of scientific knowledge
- Ethical and political implications of science
- World secularization as the consequence of the enlargement of scientific rationality
- The idea of a deontology of scientific knowledge and the return to the Kantian model in ethics
- Ethics of responsibility in face of the rationality of incertitude

#### 2) TEACHING

- to go on with the teaching on Science, Ethics and Politics in the Master on "History and Philosophy of Sciences" of the Lisbon University
- to go on with the teaching in the Master on Bioethics at the Faculty of Medicine of Lisbon University (in collaboration with the RG on Philosophy of Life Sciences)

Beside, the RG also aimed

- to go on with the scienetific supervision of pos-graduated students
- to establish international scientific collaboration
- to disseminate the outcomes of our research by organizing colloquia, by giving talks and conferences and by organizing presentations and debates around books published by the RG members

### **2. Main Achievements (2000 ca.)**

#### PUBLICATIONS:

6 Books (one published in France, and 5 other ready for publication)

3 Articles

#### ORGANIZATION OF CONFERENCES:

1 International colloquium, 1 international workshop, 5 other conferences (see "Productivity"), of which we highlight the international colloquium

Vivre en Europe (in collaboration with the Collège Intenational de Philosophie) and the 1st international workshop on Science and Technology (in collaboration with the ICS)

#### PHD AND MASTER THESIS:

- 1 PhD thesis in progress (Teresa Ventura)
- 2 PhD thesis in preparation (Raul Boíno and Marina Lopez)
- 2 Master thesis in progress (Alzira Viegas and Mónica Alves)



TEACHING: 1 graduate and 5 post-graduate courses:

1. Graduate Course at the FLUL ("Power - from Ontology to Politics") Nuno Nabais
2. O pensamento político de J.J. Rousseau - by João Lopes Alves - Master and Phd program in Political Science, Univ. Católica Portuguesa
3. A Teoria das Relações Internacionais de John Rawls - by João Lopes Alves - Mestrado e Doutoramento da Faculdade de Ciências Sociais e Humanas da Universidade Nova de Lisboa.
4. Ciência, Ética e Política - by Nuno Nabais - Mestrado de História e Filosofia da Ciência da Faculdade de Ciências, UL
5. Sobre o conceito de disciplina: Hannah Arendt e Michel Foucault - by Olga Pombo - Mestrado em Vitimização da criança e do adolescente, FML, Univ. Lisboa (4h)

OTHER COURSES: 6

- 1- Seminário Permanente de Filosofia e Direito da Sociedade Portuguesa de Filosofia (2006-07) (Lopes Alves - Coordinator).
- 2- Ciência e Ética - by João Barbosa - Escola Superior de Educação de Lisboa - Instituto Politécnico de Lisboa
- 3- Epistemologia das Ciências - by João Barbosa - Instituto Politécnico de Lisboa.
- 4- Educação para o Ambiente - by João Barbosa - Instituto Politécnico de Lisboa.
- 5- Meio Envoltivo (I e II) - by João Barbosa - Instituto Superior de Educação e Ciências.
6. Educação Ambiental, Associação de Profissionais de Educação de Infância - by João Barbosa - Alcochete

TALKS AND CONFERENCES:

- 10 talks (by invitation) at international conferences
- 12 talk (by invitation) at national conferences

## PRODUCTIVITY

2. Other publications (3000 ca.)
5. Organization of conferences (2000 ca.)
7. Internationalization (2000 ca.)

### 2. Other publications (3000 ca.)

(Include only Books, chapters or full papers published in conference proceedings up to max of 10. Give title and full citation in original language)

## BOOKS

1. Caraça, J.; Wieviorka, M. et al (2007), Le printemps du politique, Éditions Robert Laffont, Paris
2. Levy, Teresa, Homossexualidade e Genetização dos discursos (in press).
3. Pellejero, E., Jacques Rancière, El odio a la democracia, tradução, introdução e notas, Morelia, Jitajánfora (in press).
4. Queiroz, Clara, Se eu não puder dançar esta não é a minha revolução. Aspectos da vida de Emma Goldman. Lisboa: Assírio & Alvim (in press)
5. Boíno Lapa, B, Abordagem Antropológica Contemporânea à Diversidade do Diálogo Inter-Cultural (por)Entre Arte & Design (in press)
6. Pellejero, E. ; Nabais, N. ; Cascais, A. ; Leme, J. Orgs., Lei, Segurança, Disciplina, 30 anos de Vigiar e Punir , Lisboa, CFCUL (in press).

## ARTICLES

1. Lorenz, S. (2007), Das Ende der Welt wird abgerissen, *iz3w*, Freiburg, n° 1, pp. 10-11
2. Lorenz, S. (2007), ...und gäbe es mehr Welt, wir führen hin (em colaboração com Nikolai Brandes), *iz3w*, Freiburg, n° 2, pp.16-21.
3. Alves, L. (2007), Da Guerra e Paz como questão filosófica (Rousseau, Kant Hegel), first published at *Revista Eletrônica de Estudos Hegelianos- Revista Semestral da Sociedade Hegel Brasileira*, Ano 3º nº05- ISSN- 1980- 8372- / Latindex nº15804, Recife, pp.1-26, 2007. To be republished at *Revista PHILOSOPHICA*, Centro de Filosofia da Universidade de Lisboa, Faculdade de Letras da Universidade de Lisboa, Lisboa (in press).

## 5. Organization of conferences

### INTERNATIONAL COLLOQUIA

1. 29, 30 e 31 de Outubro de 2007 - III Colóquio Internacional de Filosofia e Ciências do Homem - Vivre en Europe, em colaboração com o Collège International de Philosophie de Paris e o Instituto Franco Português de Lisboa, a realizar no Instituto Franco-Português, Lisboa

### INTERNATIONAL WORKSHOPS

1. Technoscience: Epistemological and Sociological Approaches, (21/05/2007) joint-organization of the CFCUL and the ICS (Social Sciences Institute), held at the ICS, Univ. of Lisbon,

### OTHER CONFERENCES

1. Expertise e Risco Científico, by Helena Jerónimo (ISEG, Lisbon), 31.01.2007, 18h, FCUL
2. Michel Foucault: o Discurso das Ciências e a Genealogia do Poder, by José Caselas (FLUL, Lisbon), 29.06.2007, 18 h, FCUL.
3. Pensar a Violência, by Ester Heuser (UFRGS, Brazil), 4.07.2007, 18h, FCUL.
4. El tiempo reversible. Perdón y promesa en Hannah Arendt, por Marina López (Fac. Filosofía, Univ. Michoacana de San Nicolás de Hidalgo, México), 22/11/2007
5. La confluencia de las facultades humanas (en Hannah Arendt), por Marina López (Fac. Filosofía, Univ. Michoacana de San Nicolás de Hidalgo, México), FCUL

## 7. Internationalization (2000 ca.)

### INTERNATIONAL PROJECTS

1. SIPS, Système d'Information en Philosophie des Sciences (head - Thierry Martin, 3 UMR de Philosophie des Sciences, IHPST / CNRS, França)

### PARTNERSHIPS WITH INTERNATIONAL INSTITUTIONS:

1. Collège International de Philosophie, França
2. Instituto Franco-Português
3. Universidade Humboldt, Alemanha
4. Univ. Federal Rio Grande do Sul, Brasil
5. Universidad Michoacana of San Nicolás de Hidalgo, Mexico

## POS DOCTORAL STUDIES ABROAD

1. PhD Diogo Sardinha (CFCUL Member) - Post-doc studies at the Univ. Paris X

## FOREIGN VISITING PHD STUDENTS AT THE CFCUL

1. Marina López (Univ. Michoacana of San Nicolás de Hidalgo, Mexico)
2. Roseli Hickmann (UFRGS, Brazil): visiting PhD student at the CFCUL May-Aug 2007 (supervisor: Olga Pombo).
3. Ester Heuser (UFRGS, Brazil): visiting PhD student at the CFCUL Mar-Jul 2007 (supervisor: Nuno Nabais).

INVITED TALKS ABROAD: 10

## Unity of Science

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### GROUP DESCRIPTION

#### 1. Group Name/Designation

Unity of Science

(RG-PHIL-LVT-Lisboa-678-799)

#### 2. Principal Investigator

Olga Maria Pombo Martins

#### 3. Location of Group (Host Institution)

Fundação da Faculdade de Ciências

#### 4. Keywords

Philosophy of Science | General Epistemology | Scientific Culture | Interdisciplinarity

#### 5. Funding, source, dates (1000 ca.)

FUNDING BY THE CFCUL

- 1 000 EUR - book edition, management

- 1 000 EUR - books funded by FCT/Project "Scientific Culture. Conceptual migrations and Social Contaminations"

FUNDING BY THE CRUP - Rectorat Council of the Portuguese Universities.

- 2.000 EUR - Universal Logic and the Unity of Science , joint research project submitted by the CFCUL and the Grupo de Lógica, Lenguaje e

Información, University of Sevilla, to the "Acciones Integradas",

### PI AND RESEARCHERS

### 1. Researchers in the group (PhD Only)

- Team Member (Ph.D.)
- José Nunes Ramalho Croca (Professor Auxiliar)
  - Maria Teresa Marcelino Levy Martins (Professor Auxiliar)
  - Olga Maria Pombo Martins (Professor Auxiliar)

### 2. Other Researchers in the Group (PhD.) (2)

- Other Team Member(s) (Ph.D.)
- Jose Luis Toivola Câmara Leme
  - Marcelo Dascal
  - Nuno Gabriel de Castro Nabais dos Santos
  - RAQUEL MARIA DA CRUZ GONÇALVES MAIA
  - Shahid Rahman

Category
Professor Auxiliar
Professor Catedrático
Professor Auxiliar
Professor Catedrático
Professor Catedrático

### 3. Other Researchers in the Group (non PhD.) (2)

- Team Member (non Ph.D.)
- Jorge Simões Carreira Maia
  - Luís Armando de Sousa Bastos
  - Manuel de Jesus Rodrigues
  - Patrícia Pombo Martins Tomé de Medeiros
  - Ricardo Gaspar André Lopes
  - Sofia Isabel Candeias Raposo

Category
Outra
Outra
Outra
Não aplicável (bolseiro)
Outra
Outra

**OBJECTIVES & ACHIEVEMENTS**

### 1. Objectives (2000 ca.)

#### MAIN OBJECTIVES

- to discover the categories involved in the Idea of Unity of Science and to point out its more important theorizations.
- to identify some of the exemplary programs on the relation between Philosophy and Unity of Science (Bacon, Leibniz, Diderot, Neurath) and to systematically discuss the diversity of ways of conceiving the realization of the Idea of Unity of Science which were proposed in each case.
- to draw up a balance of the materializations which Unity of Science has given rise to, of the institutional structures in which it has been displayed, of the mechanisms which have been put forward aiming at its promotion (1.Scientific Community, 2.School, 3. Museum, 4. Encyclopaedia, and 5. Library)
- to study these 5 configurations, to analyse their multiple articulations, to understand their connection with the communication and the construction of scientific knowledge
- to give a special attention to the simultaneous constitution of scientific community and invention of school in Ancient Greece by the study of one of the paradigmatic Plato's dialogues - "Protagoras"
- to question the interdisciplinary nature of Science in the XX Century, to understand its more eloquent manifestations, to study relevant cases of the actual scientific interdisciplinary activity, both in terms of practices, heuristic procedures and institutional structures. Besides, we intended
- to fulfill the large, ambitious aims of the FCT Project (POCTI/FIL/48133/2002) " Scientific Culture. Conceptual Migrations and Social Contaminations"
- to provide teaching on General Epistemology and Philosophy of Science in the Master on "History and Philosophy of Sciences" of the Lisbon University
- to give scientific supervision and support to post-graduate students in the area of Philosophy of Science and General Epistemology
- to establish international scientific collaboration (international projects and international publications)

- to disseminate the outcomes of our research by organizing colloquia, by giving talks and conferences and by organizing presentations and debates around books published by the RG members

## **2. Main Achievements (2000 ca.)**

This RG achieved the following outcomes:

**PUBLICATIONS:** 5 Books (one of which is a translation), 2 articles

- A most relevant international publication was put in press: Olga Pombo, Shahid Rahman, John Symon and Manuel Torres (eds.), *Unity of Science. Essays in honour of Otto Neurath*, to be published by Springer/Kluwer in 2008 (see "Future Research").

- The proceedings of the First Lisbon Colloquium for the Philosophy of Science - *Unity of Science. Non-Traditional Approaches*, (2006) was put in press

**ORGANIZATION OF CONFERENCES:**

3 international colloquia and 4 national conferences (see "Productivity") of which we would like to highlight:

-Jornadas Ibéricas I - Encuentros Ibericos sobre Logica y Filosofia de las CienciasI (19.03.2007) realized at the University of Seville, Spain.

Organization: CFCUL with the collaboration of the University of Sevilha.

-Jornadas Ibericas II- Logica y Filosofia de las Ciencias (8.05.2007), realized at the FCUL, Portugal. Organization: CFCUL with the collaboration

of the University of Sevilha.

- I Colóquio Luso-Brasileiro Leibniz, organised by PUC-Rio de Janeiro (Programa de Pós-Graduação em Filosofia), UERJ (Programa de Pós-Graduação em Filosofia e Centro de Estudos de Filosofia Moderna) e CFCUL (Centro de Filosofia da Ciência da Universidade de Lisboa), Rio de Janeiro, Brasil, 21 a 23 de Novembro 2007

**PHD AND MASTER THESIS:**

- 1 PhD thesis in Preparation (João Barbosa)

- 2 Master thesis in preparation (Sofia Raposo and Ricardo Lopes)

**TEACHING:** graduate and post-graduate courses, in Portugal and abroad

1) Master Course in History and Philosophy of Science (FCUL)

Philosophy of Scientific Knowledge - by Olga Pombo - 2007-2008 (1st semester)

2) Master in Education at the FCUL

Experiências de Transversalidade - by Olga Pombo - 2007-2008 (1º semestre)

3) graduate courses at FCUL

- História das Ciências, by R. Gonçalves, 2007 (30 h each)

- A Ciência na História Contemporanea - by Raquel Gonçalves Maia - 2007 (30 h each)

**TALKS AND CONFERENCES**

- 5 talks (by invitation) at international conferences

- 16 talks (by invitation) at national conferences

**ORGANIZATION of 3 DEBATES on the problems of Philosophy Teaching**

**PARTICIPATION IN 2 POST-GRADUATE JURIES**

## **PRODUCTIVITY**

2. Other publications (3000 ca.)
3. Master and Ph.D. thesis completed (3000 ca.)
5. Organization of conferences (2000 ca.)
7. Internationalization (2000 ca.)

### **2. Other publications (3000 ca.)**

#### BOOKS

1. O. Pombo, S. Rahman, Juan Manuel Torres and John Symons (eds), *The Unity of Science: Essays in the Honor of Otto Neurath*, Springer (in press).
2. O. Pombo, S. Rahman, Juan Manuel Torres and John Symons (eds), *The Unity of Science: Non Traditional approaches*, Lisboa: CFCUL (in press)
3. Olga Pombo, *Os Círculos do Saber*, Lisboa: CFCUL (in press)
4. Schorn, R. "Crítica E Coerência em Karl Popper", Lisboa: CFCUL (in press)
5. Gonçalves-Maia, R., (translation of M.S. Bell, *Lavoisier no Ano Um. O Nascimento de uma Nova Ciência numa Época de Revolução*), Gradiva, Lisboa (in press)

#### ARTICLES

1. Wakúlenko, S., *Projecção da Filosofia Escolástica Portuguesa na Polónia Seiscentista*, in *Revista Filosófica de Coimbra* (34 pp.) (in press).
2. Pombo, O. (2007), *A Escola como Memória do Futuro*, in *Revista Convergência Lusíada*, Brasil, número Especial. Centenário de Agostinho da Silva (1906-2006), pp. 281-291.

### **5. Organization of conferences (2000 ca.)**

#### INTERNATIONAL CONFERENCES

-Jornadas Ibéricas I - Encontros Ibericos sobre Logica y Filosofia de las CienciasI (19.03.2007) realized at the University of Seville, Spain.

Organization: CFCUL with the collaboration of the University of Sevilha.

-Jornadas Ibericas II- Logica y Filosofia de las Ciencias (8.05.2007), realized at the FCUL, Portugal. Organization: CFCUL with the collaboration of the University of Sevilha.

- I Colóquio Luso-Brasileiro Leibniz, organised by PUC-Rio de Janeiro (Programa de Pós-Graduação em Filosofia), UERJ (Programa de Pós- Graduação em Filosofia e Centro de Estudos de Filosofia Moderna) e CFCUL (Centro de Filosofia da Ciência da Universidade de Lisboa), Rio de Janeiro, Brasil, 21 a 23 de Novembro 2007

#### PERMANENT SEMINAR

- O Papel dos experimentos de Pensamento em Ciência e em Filosofia, by Hermínio Martins (Prof. Emérito do ICS e Emeritus Fellow, St. Anthony's College, Oxford University), realized at the FCUL, (3. 10. 2007)

- Analogía y semejanza en la representación e identificación de los conceptos teóricos, by Francisco J. Salguero (Universidad de Sevilha, Espanha), realized at the FCUL, (14.11.2007)

#### OTHER CONFERENCES

- Debates Contemporâneos na Investigação Epistemológica, by Ricardo Lopes (CFCUL), realized at the FCUL, (6.06.2007)

- O Problema da Fundamentação do Conhecimento em Popper, by Rémi Schorn (Pontifícia Universidade Católica do Rio Grande do Sul (PUC-RS, Brasil), realised at the FCUL (20.06.2007).

## **7. Internationalization (2000 ca.)**

### INTERNATIONAL PROJECTS

- "La Contextualization des Catégories de la Pensée Scientifique" - head: Shahid Rahman (Univ. Lille III, France)
- "Universal Logic and the Unity of Science", joint research project submitted by the CFCUL and the Grupo de Lógica, Lenguaje e Información, University of Sevilla, to the "Acciones Integradas", sponsored by the Portuguese "CRUP" - Rectorat Council of the Portuguese Universities.
- "Système d'Information en Philosophie des Sciences (SIPS)" - head - Thierry Martin (IHPST / CNRS, France).

### PARTNERSHIPS WITH INTERNATIONAL INSTITUTIONS:

1) University of Lille III, France:

- co-edition of the Springer-Kluwer book "Unity of Science - Essays in Honour of Otto Neurath" (in press).
- co-edition of the CFCUL book "The Unity of Science: Non Traditional approaches" (in press)

2) University of Texas/El Paso (Departamento de Filosofia), El Paso, USA:

- co-edition of the Springer-Kluwer book "Unity of Science - Essays in Honour of Otto Neurath" (in press).
- co-edition of the CFCUL book "The Unity of Science: Non Traditional approaches" (in press)

3) National University of del Sur, Argentina

- co-edition of the Springer-Kluwer book "Unity of Science - Essays in Honour of Otto Neurath" (in press).
- co-edition of the CFCUL book "The Unity of Science: Non Traditional approaches" (in press)

4) Universidad de Sevilla (Grupo de Lógica, Lenguaje e Información), Seville, Spain:

- "Encontros Ibericos sobre Logica y Filosofia de las Ciencias" I and II, 2007 (please, see "Organization of Conferences").

### VISITING FELLOWS AT THE CFCUL (sabbatic)

- Francisco Salguero (Universidad de Sevilla - Grupo de Lógica, Lenguaje e Información, Spain)

### FOREIGN VISITING PHD STUDENTS AT THE CFCUL

- Remi Schorn (PUC-RS-Brasil)
- Silvia Meirelles (UFGRGS - PA- Brasil)

### INVITED TALKS ABROAD: 5

## **Philosophy of Nature Sciences**

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### **GROUP DESCRIPTION**

#### **1. Group Name/Designation**

Philosophy of Nature Sciences (RG-PHIL-LVT-Lisboa-678-800)

## 2. Principal Investigator

José Nunes Ramalho Croca

## 3. Location of Group (Host Institution)

Fundação da Faculdade de Ciências

## 4. Keywords

Principle of eurhythmy | Philosophy of Physics | Non-linearity | Quantum Physics mathema

5. Funding, source, dates (1000 ca.)

- 47.500 eur - Fundamentos Filosóficos da Física Quântica (head - José Croca) (PTDC/FIL/64748/2006)

- Publication of 3 books (FCT/FACC: 3000 EUR; CFCUL: 1500 EUR - est.)

- Annual Internacional Meeting on Quantum Physics Foundations (to be funded by the FCT project "Problemas Filosóficos da Física Quântica") -

(Est. Budget: 3000 €/year) The CFCUL will continue to give financial support to the activities of this RG, mainly in what concerns book acquisition, informatics material and common management, and organization of some activities).

## COURSES

- Wavelet Analysis - (Est. Buget 1000 €)

- Foundations of Quantum Mechanics - (Est. budget: 250 €)

- Coming and stay of Prof. G. Magalhães from S. Paulo (GRICES PROGRAM: 2.000 EUR; CFCUL: 500 EUR - estimated)

- Coming and stay of Prof. M. Dascal from Tel-Aviv (CFCUL: 2.000 EUR - est.)

- Coming and stay of Prof. Ferrero from Oviedo (CFCUL: 1.500 EUR- est.)

- Coming and stay of Prof. Maxwell from London (CFCUL: 1.500 EUR- est.)

- Mission of Prof. Croca to a congress in Turin, 2008 (FCT/FACC or CFCUL: 750 EUR- est.)

## PI AND RESEARCHERS

### 1. Researchers in the Group (PhD. Only) (1)

Team Member (Ph.D.)

- José Nunes Ramalho Croca  
(Professor Auxiliar)
- Mário Alexandre Pousão da Costa Gatta  
(Professor Auxiliar)
- Nuno Gabriel de Castro Nabais dos Santos  
(Professor Auxiliar)
- Olga Maria Pombo Martins  
(Professor Auxiliar)
- Rui António Nobre Moreira  
(Professor Auxiliar)

### 2. Other Researchers in the Group (PhD.) (2)

Other Team Member(s) (Ph.D.)

- Amaro José Rica da Silva
- Gildo Magalhães dos Santos Filho
- Marcelo Dascal

Category

Professor Auxiliar	<input type="checkbox"/>
Professor Associado	<input type="checkbox"/>
Professor Catedrático	<input type="checkbox"/>

### 3. Other Researchers in the Group (non PhD.) (2)

Team Member (non Ph.D.)

- Bruno Helder Pacheco Couto
- João Eduardo Farias de Araújo
- Joao Luis de Lemos e Silva Cordovil
- Nalliely Hernández Cornejo

Category

Outra	<input type="checkbox"/>
Não aplicável (bolseiro)	<input type="checkbox"/>
Não aplicável (bolseiro)	<input type="checkbox"/>
Não aplicável (bolseiro)	<input type="checkbox"/>



## **OBJECTIVES & ACHIEVEMENTS**

### **1. Objectives (2000 ca.)**

This RG was directed to the study of the philosophical foundations of the quantum physics, and to the conceptual analysis of the different philosophical positions involved in the interpretations of quantum physics.

In this context, this RG had the aim of, not only to submit the philosophical foundations that support the quantum physics - according to Copenhagen's interpretation - to a new critic analysis, but are also, and mainly, develop a philosophical foundation and a formalization of the non linear quantum physics that is now emerging.

In order to achieve this aims we examined the connection of the mathematics with the reality and analyze the epistemic implications of non linear quantum physics.

This program of investigation also aimed:

- To contribute for the development of the philosophy of science in Portugal.
- To create investigation and structural conditions that can captivated students from the masters degrees in history and the philosophy of sciences
- To foment and to stimulate the investigation in the area of the philosophy of science
- To establish an forum of debate between investigators of natural sciences and philosophy.

### **2. Main Achievements (2000 ca.)**

In the year of 2007 it was published the book "Diálogos sobre a Física Quântica. Dos paradoxos à não-linearidade" by José Croca e Rui Moreira, Esfera do Caos. In this book, in a classic dialogue way among 6 different characters representing 6 different standpoints, the fundamentals of Quantum Physics are discussed. The authors try to show the major developments that are achieved in the Louis de Broglie research program.

The way opened by de Broglie for the nonlinear complex interaction process between the theta wave, also named the guiding wave, and the singularity was extended from the quantum physics to all physics. The main goal of this research is the unity of all physics in the light of the Principle of Eurhythmy [see "The principle of eurhythmy a key to the unity of physics" Kluwer, in print]. It was already shown that one of the most unifying principles of physics. The philosophical and epistemological implications are being developed.

This RG also achieved the following outcomes:

PUBLICATIONS: 4 Books, 2 Chapters, 3 articles in peer review journals

ORGANIZATION OF CONFERENCES: 3 conferences

PHD AND MASTER THESIS:

1 Master completed (Bruno Couto)

4 PhD thesis in progress (João Cordovil, Gil Costa, Nalliely Hernandez, Gabriela Meireles)

1 PhD thesis in preparation (João Araújo)

TALKS AND CONFERENCES (given in events not organized by CFCUL)

- 2 talks (by invitation) at international conferences

- 7 talks (by invitation) at national conferences

ORGANIZATION of 1 BOOK DEBATE and 1 BOOK PRESENTATION

PARTICIPATION IN 1 POST-GRADUATE JURY

## **PRODUCTIVITY**

1. Publications in peer review Journals (3000 ca.)

2. Other publications (3000 ca.)

- 3. Master and Ph.D. thesis completed (3000 ca.)
- 5. Organization of conferences (2000 ca.)
- 7. Internationalization (2000 ca.)

### **1. Publications in peer review Journals (3000 ca.)**

- 1 - Croca, JR and Selleri, Franco, Experimental Proposal for Determination of One-Way Velocity of Light with One Single Clock, in Foundations of Physics, Kluwer (in print).
- 2 - Croca, JR and Magalhães, Guido, The principle of eurhythmy a key to the unity of physics, Foundations of Physics, Kluwer (in print).
- 3- Mário Gata (2007), On the bound energies of the hydrogen atom with a more general uncertainty relation, in Annales de la Fondation Louis de Broglie, Maio de 2007

### **2. Other publications (3000 ca.)**

#### BOOKS:

- 1 - Croca, J. R. e Moreira, R. (2007), Diálogos sobre Física Quântica. Dos Paradoxos à Não-Linearidade, Lisboa: Esfera do Caos, 352 pp.
- 2 - Rui Moreira, O Princípio que moldou toda a Física do Século XX. O Princípio de Complementaridade de Niels Bohr, Lisboa: CFCUL / Publidisa (no prelo)
- 3. Electrodinâmica Estocástica: Em Busca da Física por Detrás da Teoria Quântica, de Luís de La Pena (1998), Curso dado na XXXIª Escola Latino-Americana de Física, Julho-Agosto de 1998, México, (translation by Mário Gata), 4º Caderno de Filosofia das Ciências, Lisboa: CFCUL / Publidisa, 2007
- 4. Lavoisier no Ano Um. O Nascimento de uma Nova Ciência numa Época de Revolução de M.S. Bell, (translation by Gonçalves-Maia), Lisboa: Gradiva, Lisboa (in press).

#### BOOKS CHAPTERS:

- 1 - Moreira, R. (2007), The XXth Century Physics and the Unity of Science, in Olga Pombo et al (eds.), Unity of Science. Non-Traditional Approaches Springer / Kluwer (in press).
- 2- Croca, J. R. (2007), The principle of eurhythmy a key to the unity of physics, in Olga Pombo et al (eds.), Unity of Science. Non-Traditional Approaches Springer / Kluwer (in press).

### **5. Organization of conferences (2000 ca.)**

- 1 - Giordano Bruno morreu na fogueira em Fevereiro de 1600 , realised at FCUL, (14/02/2007)
- 2 - Por que é que o Objecto Quântico não é um Objecto de Conhecimento em Kant?, by João Luís Cordovil at FCUL, (21/2/2007)
- 3 - El principio de complementariedad en la perspectiva del pragmatismo de Richard Rort, by Nalliely Hernández at FCUL, (24/5/2007)

### **7. Internationalization (2000 ca.)**

#### INTERNATIONAL CONSULTANTS TO THE PROJECT - FOUNDATIONS OF QUANTUM MECHANICS

- Coming and stay of Prof. G. Magalhães, S. Paulo
- Coming and stay of Prof. M. Dasgal, Tel-Aviv
- Coming and stay of Prof. Ferrero, Oviedo
- Coming and stay of Prof. Maxwell, London

INVITED TALKS ABROAD: 2

## Philosophy of life sciences

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### GROUP DESCRIPTION

#### 1. Group Name/Designation

Philosophy of Life Sciences  
(RG-PHIL-LVT-Lisboa-678-1049)

#### 2. Principal Investigator

António José Feliciano Barbosa

#### 3. Location of Group (Host Institution)

Fundação da Faculdade de Ciências

#### 4. Keywords

Philosophy of Medicine | Philosophy of Health | Philosophy of Biology | Evolution Theories

#### 5. Funding, source, dates (1000 ca.)

- Funding by the CFCUL

---- 1000 EUR - for book edition; for management

- FACC/FCT

----- support to book edition (Abreu, H., "A Teoria de Oparin sobre a Origem da Vida", 2007): 750 EUR

- Private funding for purchasing books by João Sampaio MD (Navy Hospital, Lisbon): 300 EUR

### PI AND RESEARCHERS

#### 1. Researchers in the Group (PhD. Only) (1)

Team Member (Ph.D.)

- António José Feliciano Barbosa  
(Professor Auxiliar)
- António Manuel Bracinha Vieira  
(Professor Catedrático)
- Fernando José Coelho Martins Vale  
(Professor Auxiliar)
- Isabel Maria Ferreira Martins Serra  
(Professor Auxiliar)
- Nuno Gabriel de Castro Nabais dos Santos  
(Professor Auxiliar)

#### 2. Other Researchers in the Group (PhD.) (2)

Other Team Member(s) (Ph.D.)

- André Levy Martins Coelho
- Francisco José do Nascimento Carrapiço
- Juan Manuel Torres

Category

Não aplicável (bolseiro)

Professor Auxiliar

Professor Catedrático

#### 3. Other Researchers in the Group (non PhD.) (2)

Team Member (non Ph.D.)

- António José de Barros Veloso
- Dinora Maria Sequeira Xavier
- João Manuel Costa Casqueiro de Sampaio
- Marco Alexandre Silva de Pina e Silva
- Maria Helena Duarte Abreu

Category

Outra

Outra

Outra

Não aplicável (bolseiro)

Outra

## **OBJECTIVES & ACHIEVEMENTS**

### **1. Objectives (2000 ca.)**

Our objectives for 2007 were to further develop the 3 research lines of the group, "Epistemology of Medicine", "Bioethics" and "Evolutionism and Evolution Theories".

"Epistemology of Medicine" and "Bioethics":

- to give continuity to the ongoing research in these areas
- to deepen the relations between the CFCUL and the Bioethics Centre of the Lisbon Fac. of Medicine
- to participate at the Master on Bioethics at the Lisbon Faculty of Medicine
- to give scientific support to the 2 ongoing PhD thesis
- to organize one workshop on "Relational Ethics"
- to pursue of each investigators own research.

"Evolutionism and Evolution Theories":

- to focus this research line's work mainly on the study of Evolutionary Theories
- to organize a broad national Colloquium on this issue.
- to start working on the production of a 4 volume collection on Evolutionism, called "Evolucionismo - Fundamentos e Desafios" ("Evolutionism - Groundings and Challenges"), to be released all through 2007, 2008 and 2009, the year of the 150th anniversary of Darwin's "On the Origin of Species" and the 200th anniversary of his birth.
- to publish the first volume of CFCUL newest book collection, called Thesis, on Oparin and the Origin of Life, by H.Abreu a researcher from this group.

### **2. Main Achievements (2000 ca.)**

PUBLICATIONS:

3 books, 2 articles in international journals and 2 book chapters.

We would like to highlight the publication of 2 articles in international journals and 3 books (one international Kluwer publication, a book at the CFCUL collection Thesis and the 1st vol. of CFCUL collection on Evolution Theories (see "Productivity")). The latter is a very important collection of 4 volumes in which original studies are published with classical texts which we translated to portuguese during 2007, namely

- Darwin; Wallace (1858) On the Tendency of Species to form Varieties
- Darwin; Wallace (1858) On the Perpetuation of Varieties and Species by Natural Means of Selection
- Dobzhansky (1973) Nothing in Biology Makes Sense Except in the Light of Evolution

ORGANIZATION OF CONFERENCES

2 National colloquia, 2 other conferences (see "Productivity") of which we would like to highlight the national colloquia:

1. Darwinismo vs Criacionismo - Onde começa e onde acaba uma Teoria Científica? (with an audience of around 500 people);
2. Bioética: Conceitos Fundamentais, in collaboration with several faculties, university departments and research centers

PhD THESIS

- 1 Master concluded (Ana Caeiro)
- 3 PhD in progress (Marina Vale, Cristina Fabião, Teresa Andrade)
- 1 Master in progress (Dinora Xavier)

TEACHING

- Free Course on Relational Ethics (Antonio Barbosa – Coordinator since 2003) – Medicine Graduation

- Master on Bioethics, Lisbon Faculty of Medicine
- coordination: Antonio Barbosa (since 2006)
- lecturing by António Barbosa
- Martins Vale
- Nuno Nabais - 24h/year
- Olga Pombo - 4h
- Master on Palliative Care (Antonio Barbosa)
- Module “Comunicação e Aspectos Psicológicos” –2007, 5 h, Lisbon Fac.Medicine (FML)
- Module “Processo de Luto: Apoio Familiar e Profissional” 2007, 12h, FML
- Module “Educação e Formação em Cuidados Paliativos” 2007, 4h, FML
- Master on Psicogerontology (Antonio Barbosa)
- Master on Pain Sciences (Antonio Barbosa - current coordinator).
- Master on Sexology (Antonio Barbosa)

#### RESEARCH PROJECTS COORDINATION (Antonio Barbosa) :

- “Morbilidade no Doente Oncológico”, Psychiatry Service/Hospital Santa Maria
- “Estudo de Qualidade em Psiquiatria de Ligação”, Serviço de Psiquiatria/Hospital Santa Maria
- “Confidencialidade de Dados”, Centro de Bioética/FML

#### TALKS & CONFERENCES

- 1 talk (by invitation) international conferences
- 5 talks (by invitation) national conferences

#### PRODUCTIVITY

1. Publications in peer review Journals (3000 ca.)
2. Other publications (3000 ca.)
3. Master and Ph.D. thesis completed (3000 ca.)
5. Organization of conferences (2000 ca.)

##### 1. Publications in peer review Journals (3000 ca.)

1. Juan Manuel Torres (2007), Terapia génica: ¿realidad o sólo un sueño de pipa?, in LUDUS VITALIS, A JOURNAL OF LIFE SCIENCES, ISSN 1133-5165, p.: 181-192.
2. António Barbosa com Levy P., Bicho M., Pombo, S., Ismail F., Neves, C. J. (2007), Alcoholism candidate gene polymorphisms and Alexithymia in alcoholic outpatients in EUROPEAN JOURNAL OF HUMAN GENETICS. 15:233.
3. António Barbosa com Telles-Correia D., Mega I., Barroso E. & Monteiro E. (2007), Adesão nos doentes transplantados in ACTA MED PORT; 20: 73-85.

##### 2. Other publications (3000 ca.)

#### BOOKS

1. Abreu, H. (2007), A Teoria de Oparin sobre a Origem da Vida. Uma abordagem no quadro da História e Filosofia das Ciências, Lisboa: CFCUL / Publidisa, 328 pp. (coleção Thesis)
2. Torres, J. (2007), The Influence of Genetics on Contemporary Thinking, SPRINGER, co-edited with Anne Fagot-Largeault and S. Rahman. 2007. ISBN 978-1-4020-5663-5.

3. Abreu, H., Carrapiço, F., Levy, A., Pina, M. (eds), *Evolucionismo - História e Argumentos*, Lisboa: Esfera do Caos, Coleção Fundamentos e Desafios do Evolucionismo (in press)

#### BOOK CHAPTERS

1. Juan Manuel Torres (2007), *Genetics and Society: a different view*, in *THE INFLUENCE OF GENETICS ON CONTEMPORARY THINKING*, SPRINGER, ISBN 978-1-4020-5663-5, Torres, J. M. Fagot-Largeault and S. Rahman (eds.).
2. Juan Manuel Torres (2007), *Terapia cognitiva y la práctica filosófica de Lou Marinoff*, in *AVANCES EN INVESTIGACIÓN EN CIENCIAS DEL COMPORTAMIENTO EN ARGENTINA*, Universidad del Aconcagua Editorial, ISBN 978-987-23232-5-7p.: 1123-1131.

#### 5. Organization of conferences (2000 ca.)

##### NATIONAL COLLOQUIA

1. *Darwinismo vs Criacionismo - Onde começa e onde acaba uma Teoria Científica?* - organization: Centro de Filosofia das Ciências (CFCUL), Centro de Biologia Ambiental (CBA), Sociedade Portuguesa de Ciências Naturais (SPCN), Biblioteca Central da FCUL and Livraria Escolar Editora, Faculdade de Ciências da Universidade de Lisboa, Lisbon, 21.03.2007.
2. *Bioética: Conceitos Fundamentais (Liberdade, Dignidade, Responsabilidade, Racionalidade, Felicidade)* - in collaboration with the Centro de Bioética da Faculdade de Medicina de Lisboa, Faculdade de Medicina de Lisboa, Lisbon, 12.04.2007

##### PERMANENT SEMINAR OF PHILOSOPHY OF SCIENCES

1. *Evidence-Based Medicine: A Reading of the Original Textbook*, by Rasmus Tore Slaattelid (Univ. Bergen, Norway), 10.05.2007, FCUL, Lisbon.
2. *Marx morto, Darwin posto - Considerações sobre o Paradigma Darwiniano*, by Onésimo Teotónio de Almeida (Brown University, USA) (7.11.2007)

#### 7. Internationalization (2000 ca.)

- Prof. Rasmus Tore Slaattelid, Centre for the Studies of the Sciences and the Humanities (SVT, Bergen, Norway) gave a conference on Evidence-based Medicine at the CFCUL in 2007, and is planning to forego a sabbatic period in 2008-09 in Lisbon, where he'll give support to three "Epistemology of Medicine" research line inside the Group.
- Prof. Juan Manuel Torres (Centro de Lógica y Filosofía de la Ciencia, Universidad Nacional del Sur, Bahía Blanca, Argentina) continued to give scientific support to the "Evolutionary Theories" research line, namely through the advising work for the edition of an important 4 volume collection on Evolutionism whose 1st volume is already in press.
- participation at the international project - SIPS, *Système d'Information en Philosophie des Sciences* 3 UMR de Philosophie des Sciences, IHPST / CNRS, França (head - Thierry Martin).

## Discovery, Invention and Creation

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### GROUP DESCRIPTION

#### 1. Group Name/Designation

Discovery, Invention and Creation  
(RG-PHIL-LVT-Lisboa-678-1052)

#### 2. Principal Investigator

Isabel Maria Ferreira Martins Serra

#### 3. Location of Group (Host Institution)

Fundação da Faculdade de Ciências

#### 4. Keywords

Scientific Discovery | Peirce and Abduction | Poincaré and Intuition | Mathematical Reasoning

#### 5. Funding, source, dates (1000 ca.)

- 700 EUR - member trip to "Applying Place - International Conference on Peirce's Thought and Its Applications", Finland, 2007, sponsored by

FCT/BD

- 1 000 EUR - book purchase funded by CFCUL

- 30.000 EUR - FCT funded projects - Poincaré Filósofo da Ciência (head - António Franco Oliveira) (PTDC/FIL/64748/2006)

### PI AND RESEARCHERS

#### 1. Researchers in the Group (PhD. Only) (1)

Team Member (Ph.D.)

- Isabel Maria Ferreira Martins Serra  
(Professor Auxiliar)
- Nuno Miguel Bicho Campos Proença  
(Não aplicável (bolseiro))
- Olga Maria Pombo Martins  
(Professor Auxiliar)

#### 2. Other Researchers in the Group (PhD.) (2)

Other Team Member(s) (Ph.D.)

- Augusto Jose Franco de Oliveira
- Francisco Miguel Alves campos de Sousa Dionisio
- Henrique Manuel Alonso da Costa Guimarães
- Jose Felix Gomes da Costa
- TAHIRI Hassan

Category

Professor Associado	
Professor Associado	
Professor Auxiliar	
Professor Associado	
Não aplicável (bolseiro)	

#### 3. Other Researchers in the Group (non PhD.) (2)

Team Member (non Ph.D.)

- Alexander Matthias Gerner
- Ana Paula Rocha Coelho de Figueiredo Silva
- Celina Isabel Reduto
- Cláudia Sofia Afonso Alves Martinho
- João Manuel Costa Casqueiro de Sampaio
- Manuel Beirão dos Reis
- MARÍA DE PAZ AMÉRIGO
- Maria do Rosário Domingos Laureano
- VASCO SARAGOÇA NUNES CORREIA

Category

Não aplicável (bolseiro)	
Outra	
Outra	
Outra	
Outra	
Outra	
Outra	
Assistente	
Outra	

## **OBJECTIVES & ACHIEVEMENTS**

### **1. Objectives (2000 ca.)**

This research Group pursues two main directions:

1. Abduction and Scientific Discovery: After the realization of the very successful international meeting (2006, in Lisbon) on Peirce, "Abduction and the Process of Scientific Discovery", the aim was to publish its proceedings, to give support to the 2 ongoing thesis (1 PHD and 1 master) and to reinforce the significant and resourceful international partnerships on these subjects in order to organize a second international meeting "Abduction and the Process of Scientific Discovery", Lisbon, 2009

2. Poincaré and Intuition: this CFCUL based international group (with members from Univ. Complutense, Spain and Univ. Lille III, France) achieved an important goal: the approval of the 2007 FCT Project called "Poincaré, Philosopher of Science" - PTDC/FIL/64748/2006 (Head: Franco Oliveira). This group intended to study the mathematical and philosophical work of Poincaré, mostly his theories on Dynamic Systems, Relativity, Mathematical Reasoning, Logics and Intuition and to give support to 3 ongoing thesis (2 master and 1 PhD).

### **2. Main Achievements (2000 ca.)**

APPROVED PROJECTS:

- FCT Project "Poincaré, Philosopher of Science" - PTDC/FIL/64748/2006 (Head: Franco Oliveira) - rating "Excellent" (period: 2007 - 2010)

PUBLICATIONS: 4 books, 1 book chapter, 3 articles (2 of which are online) of which we highlight the proceedings of the Colloquium on Abduction and the Process of Scientific Discovery (16 international and 5 national contributors) and the concluded work on 3 books (2 on Cavallès and 1 on Wittgenstein Philosophy of Mathematics)

CRITICAL TRANSLATIONS IN ORDER TO FUTURE PUBLICATION: 5

Poincaré - Intuição e Lógica em Matemática, in La valeur de la Science, by Henrique Guimarães

Poincaré - A Invenção Matemática, in Bulletin de l'Institut Général de Psychologie, 3 (1908), by Henrique Guimarães

Poincaré - A Lógica do Infinito, by Augusto J. Franco Oliveira

Poincaré - As definições Matemáticas e o Ensino, in Science et Méthode, by Claudia Martinho

Poincaré - A Matemática e a Lógica, Science et Méthode, by Celina Reduto

ORGANIZATION OF CONFERENCES:

- 2 international workshops and 8 other Conferences (we highlight the conferences given by Prof. Shahid Rahman in the context of the Poincaré Project)

PHD AND MASTER THESIS:

- 2 PHD thesis under way : Alexander Gerner (Philosophical Research of Attention) and Maria de Paz (Space and Time in Einstein and Poincaré)

- 3 Master thesis completed (Ana Paula Silva, Sílvia Leandro and Maria de Fátima Pona)

- 2 Master thesis in progress: Celina Reduto (The Nature of Mathematical Reasoning), Claudia Martinho (Poincaré. Intuition and the Mathematics Learning)



## TALKS AND CONFERENCES

- 2 talks at international conferences
- 17 talks at national conferences

## PRODUCTIVITY

- 2. Other publications (3000 ca.)
- 3. Master and Ph.D. thesis completed (3000 ca.)
- 5. Organization of conferences (2000 ca.)
- 7. Internationalization (2000 ca.)

### 2. Other publications (3000 ca.)

## BOOKS

- 1. Pombo, O.; Gerner, A. (eds) (2007), *Abduction and the Process of Scientific Discovery*, Lisboa: CFCUL / Publidisa, 386 pp. (coleção Documenta)
- 2. Proença, N. Wittgenstein, prova e matemática: uma introdução, Lisboa: CFCUL / Publidisa, col. Thesis (in press).
- 3. Correia, V. Intuição e Conceito em Cavaillès, Lisboa: CFCUL /Publidisa, col. Thesis (in press)
- 4. Nuno Proença (trad. introd e notas), *Sobre a Lógica e a Teoria da Ciência de Jean Cavaillès*, Lisboa: CFCUL, 5º Caderno de filosofia das Ciências (in press)

## CHAPTERS:

- 1. Nuno Proença, *Apresentação de Sur la Logique et la Théorie de la Science de Jean Cavaillès*, 5º Caderno de Filosofia das Ciências. Cavaillès, Lisboa: CFCUL / Publidisa (in press).

## ARTICLES

- 1. Maria do Rosário Laureano com Mendes Diana A., Ferreira Manuel A., M. (2007) *Efficient synchronization with chaotic quadratic maps*, in *Proceedings 'APLIMAT2007'*.

## ONLINE ARTICLES

- 1 Juan Redmond - *A Lógica da ficção. Uma abordagem dialógica*
- 2. Francisco J. Salguero - *Conceptualización y Elaboración del Contexto*

### 3. Master and Ph.D. thesis completed (3000 ca.)

- Ana Paula Silva, *Transformations of the Concept of Abduction in Peirce. The Kepler Example* (Master in History and Philosophy of Sciences, supervisor Olga Pombo, October 2007)
- Sílvia Leandro, *A Evolução Histórica das Cónicas* (Master in Mathematics, Faculdade de Ciências da da Universidade de Lisboa, supervisor Isabel Serra, April 2007).
- Maria de Fátima Pona, *Séries Numéricas: História e Aplicações ao Ensino da Matemática* (Master in Mathematics, Faculdade de Ciências da da Universidade de Lisboa, supervisor Isabel Serra, April 2007).

### 5. Organization of conferences (2000 ca.)

## INTERNATIONAL WORKSHOPS

- 1. *O que é o Diálogo? Introdução à Lógica Dialógica*, with Juan Redmond (UMR 8163 Savoirs, Textes, Langage, "La Science et ses Contextes", Univ. Lille III, France) 27.04.2007, FCUL.
- 2. Poincaré. Philosopher of Science

----Poincaré - Ciência e Filosofia - by Isabel Serra

-----Poincaré contre les logiciens: comprendre et expliquer dans les mathématiques.", by Shahid Rahman

-----Poincaré e o Lobo, by Franco Oliveira

#### OTHER CONFERENCES:

1. Grundlagenstreit e o intuicionismo Brouweriano, by Fernando Ferreira (Dep. of Mathematics, FCUL) (10.10. 2007)
2. Bayesian Epistemology, by Gregory Wheeler (CENTRIA/FCT, Lisbon), FCUL, 26.02.2007.
3. Transformações do Conceito de Abdução em Peirce, by Ana Paula Silva (CFCUL, Lisbon), FCUL, 16.05.2007.
4. A Matemática nas Civilizações Pré-Clássicas, by Teresa Matos (IST, Lisbon), 31.05.2007.
5. Convencionalismo e Relatividade em Poincaré, by María de Paz (Univ. Complutense Madrid, Spain), FCUL, 19.09.2007
6. Some reflections on the role of Symbolism in Mathematical Knowledge for Leibniz and Kant", by Pedro Vinuela (Pontificia U. Catolica de Chile), FCUL, 28/11/2007
7. Lógica da Ficção, by Juan Redmond (UMR 8163 Savoirs, Textes, Langage, "La Science et ses Contextes", Universidade de Lille III), 1/04/2007.
8. Poincaré e o Ensino da Matemática, by Henrique Guimarães, FCUL, 3 de Janeiro de 2007.

#### 7. Internationalization (2000 ca.)

##### INTERNATIONAL PROJECTS

1. Prof. Shahid Rahman (Univ. Lille III) is member of the FCT Project Poincaré. Philosopher of Science
2. Prof. Heinzmann (Archives Poincaré, Univ. Nancy) is consultant of the FCT Project Poincaré. Philosopher of Science
3. Hassan Tahiri (Univ. Lille III) is Post-Doc at the FCT Project Poincaré. Philosopher of Science
4. The RG also participates in the international project : UMR 8163 Savoirs, Textes, Langage, "La Science et ses Contextes - Pragmatisme Dialogique", (head - Shahid Rahman) Univ. Lille III, France

##### INTERNATIONAL CO-SUPERVISING

- 1 Master thesis in progress (Celina Reduto, supervised by Olga Pombo and Shahid Rahman, Lille III).
- 1 PhD thesis in progress (Maria de Paz, supervised by Isabel Serra and Ana Rioja, Madrid)

##### INTERNATIONAL PARTNERSHIPS

1. Université de Lille III
2. Archives Poincaré, Université de Nancy
3. Universidad Complutense de Madrid - Departamento de Lógica Y Filosofía de la Ciencia, Madrid, Spain
4. Institut Franco-Portugais / Ambassade de France
5. Fundação Luso-Americana para o Desenvolvimento

TALKS ABROAD: 2

## **Philosophy of Human Sciences**

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### **GROUP DESCRIPTION**

#### **1. Group Name/Designation**

Philosophy of Human Sciences

(RG-PHIL-LVT-Lisboa-678-1050)

## 2. Principal Investigator

Eduardo Anibal Pellejero

## 3. Location of Group (Host Institution)

Fundação da Faculdade de Ciências

## 4. Keywords

Epistemology of Economics | Philosophy of Linguistics an | Philosophical Problems of H | Philosophy of Psicoanalysis

## 5. Funding, source, dates (1000 ca.)

- 36.880 EUR - FCT post-doc grant - PHD. Eduardo Pellejero (Universidade de Lisboa / CFCUL). Philosophy of Human Sciences, 2006-08

- 36.880 EUR - FCT post-doc grant - PHD. Nuno Proença (College International de Philosophie / CFCUL). Philosophy of Human Sciences, 2008-

10

- 1.000 EUR - book edition, management, funded by CFCUL

## PI AND RESEARCHERS

### 1. Researchers in the Group (PhD. Only) (1)

Team Member (Ph.D.)

- António Manuel Bracinha Vieira (Professor Catedrático)
- Catarina Pombo Martins de Castro Nabais (Não aplicável (bolseiro))
- Diogo Sardinha Marques da Silva (Não aplicável (bolseiro))
- Eduardo Anibal Pellejero (Não aplicável (bolseiro))
- Jean-Yves Mercury (Outra)
- Nuno Gabriel de Castro Nabais dos Santos (Professor Auxiliar)
- Nuno Miguel Bicho Campos Proença (Não aplicável (bolseiro))

### 2. Other Researchers in the Group (PhD.) (2)

Other Team Member(s) (Ph.D.)

- EDUARDO GONZÁLEZ DI PIERRO
- Jose Luis Toivola Câmara Leme
- Mario Teodoro Ramirez Cobián
- patricia maria leal soares martins sanpayo
- Serhii Wakúlenko
- Vítor Manuel Leite Neves

Category

** Please select **	
Professor Auxiliar	
** Please select **	
Professor Auxiliar	
Professor Associado	
Professor Auxiliar	

### 3. Other Researchers in the Group (non PhD.) (2)

Team Member (non Ph.D.)

- Ana Maria Mendes Gaspar
- Davide Scarso
- Dominique Jean-François Mortiaux
- Golgona Luminita Anghel
- Ignacio Quepons Ramirez
- João António Lopes Alves
- Nuno José Ferreira de Melim
- Sofia Isabel Candeias Raposo
- VASCO SARAGOÇA NUNES CORREIA

Category

Assistente	
Não aplicável (bolseiro)	
Não aplicável (bolseiro)	
Não aplicável (bolseiro)	
Professor Auxiliar	
Outra	
Não aplicável (bolseiro)	
Outra	
Outra	

## **OBJECTIVES & ACHIEVEMENTS**

### **1. Objectives (2000 ca.)**

Main objectives:

- to study the paradigmatic contaminations between human and natural sciences
- the analysis of the human science's models in the study of the inner processes of the scientific knowledge and their social impact
- the analysis of the scope and limits of formalism in human sciences
- to create an international research network on Philosophy of Human Sciences
- to analyse the main philosophical questions around Human Sciences
- to analyse the main philosophical questions on Economics
- to elaborate a set of concepts for a better understanding of the methods and theories of Human Sciences

### **2. Main Achievements (2000 ca.)**

EDITION

1. N. Nabais; E. Pellejero et al. (orgs.), Lei, Segurança, Disciplina, 30 anos de Vigiar e Punir, Lisboa: CFCUL (proceedings "First Internat. Colloquium Philosophy and Human Sciences", Lisbon 2005) (in press)
2. Revista Conceito, Nº 2 – "Deleuze: Literatura e Cinema", Lisboa: CFCUL (most of the papers given at "2nd Internat. Colloquium Philosophy and Human Sciences", Lisbon, 2006) (in press)

PUBLICATIONS

- 4 Book (2 in Mexico and 1 in Paris)
- 5 Chapters
- 1 article in peer review journals
- 8 other articles

ORGANIZATION OF CONFERENCES

- 1 International Conference (colaboration)
- 2 Workshops

THESIS

- 1 PHD COMPLETED - Nuno Proença, EHES, Paris, supervisor Fernando Gil

5 PHD ONGOING

- Davide Scarso "Merleau-Ponty e Lévi-Strauss. As Ciências Sociais entre Fenomenologia e Estruturalismo" supervisor N. Nabais
- Golgona Anghel "A Metafísica do Medo. Leituras da obra de Al Berto" co-supervisor N. Nabais
- Dominique Mortiaux "Terror e Nihilismo nas obras de G. Bataille e M. Heidegger" supervisor N. Nabais
- Vasco Saragoça "La Duperie de Soi et le problème de l'Irrationalité" Univ. Paris IV, Sorbonne supervisor Pascal Engel
- Nuno Melim "Foucault e a Linguagem. Entre o Discurso e a Fala", supervisor N. Nabais

1 MASTER ONGOING

- Sílvia Zelinda Fernandes, A Promoção e Salvaguarda do Património Linguístico Ibero-Americano na Circunstância do Fenómeno da Globalização Linguística e Cultural, co-supervisor O. Pombo)

TEACHING

- V. Neves. Filosofia e Metodologia da Economia, Doctoral program Faculty of Economics, Univ. Coimbra (21 h) 2006-7

E. Pellejero, Deleuze y la redefinición de la filosofía - PhD Seminar, Depart. of Humanities. Univ. Nacional del Sur, Argentina 2007 (54 h)

V. Neves. Metodologia da Economia, optional course Master in Economics, Univ. Coimbra (15 h) 2007

N. Nabais. Introduction to the problematics of Human Sciences, graduate course, Univ. Lisbon. 2007 (52h)

E. Pellejero, Eventualización, Perspectivismo, Fabulación: Una aproximación a la obra de Gilles Deleuze - graduate course Univ. Veracruzana, 2007 (16h)

Le sujet comme production de vérité: un parcours entre Kant et Freud II - External Seminar, Collège International de Philosophie, 2007-2008

(twice a month)

N. Proença, Contexte, Art, Vérité - Seminar EHESS, Paris, 6-7 June 2007

#### TALKS AND CONFERENCES

- 8 talks (by invitation) at international conferences

- 7 talks (by invitation) at national conferences

#### PRODUCTIVITY

1. Publications in peer review Journals (3000 ca.)

2. Other publications (3000 ca.)

3. Master and Ph.D. thesis completed (3000 ca.)

5. Organization of conferences (2000 ca.)

7. Internationalization (2000 ca.)

#### 1. Publications in peer review Journals (3000 ca.)

Eduardo Pellejero (2007), Qué es la literatura? Del compromiso sartreano a la fábula deleuziana, Devenires. Revista de Filosofía y Filosofía de la

Cultura, VII, nº 15, Fevereiro, pp. 155-177

#### 2. Other publications (3000 ca.)

#### BOOKS:

1. Pellejero, E. (2007), Deleuze y la Redefinición de la Filosofía, Jitanjáfora: Morelia Editorial

2. Proença, N., "Qu'est-ce que l'objectivation en psychanalyse", Paris: L'Harmattan (in press)

3. Pellejero, E. Jacques Rancière, El odio a la democracia (translation from the french, introduction and notes, Mexico, Jitanjanfora (in press).

4. N. Nabais; E. Pellejero; A. Cascais; J. L. Cámara Leme (orgs.) (2008), Lei, Segurança, Disciplina, 30 anos de Vigiar e Punir, Lisboa: CFCUL (in press).

#### CHAPTERS:

1. Nabais, N. (2007), The individual and individuality in Nietzsche, in K. Ansell Pearson (ed.), A Companion to Nietzsche,

Oxford /Malden /Victoria: Blackwell Publishing, 2006, pp. 76-94.

2. João Lopes Alves (2007), Legal Controversy facing Scientific and Philosophical Controversies, in Han-liang Chang and Marcelo Dascal (eds.), Traditions of Controversy (Serie "Controversies", vol. 5). Amsterdam / Philadelphia: John Benjamins, 209-222.

3. Nuno Proença (2007), Affect, in Chateau, Cohn, Cometti, Morizot, Pouivert, (éd.), Dictionnaire d'Esthétique, Paris, Armand Colin.
4. Neves, V., Sciences as Open Systems: the Case of Economics, in O. Pombo; S. Rahman; J. Manuel Torres; J. Symon (eds.), Unity of Science. Non-Traditional Approaches Springer / Kluwer (in press).
5. Pellejero, E., Entre dispositivos e agenciamentos: O duplo deleuziano de Foucault, in Actas do Colóquio: Lei, Segurança, Disciplina, 30 anos de Vigiar e Punir, Lisboa (in press).

#### ARTICLES:

1. Neves, V. (2007), Sciences as Open Systems. The Case of Economics, in Oficina do CES, nº 289, November.
2. Pellejero, E. (2007), ¿Qué es la literatura? Del compromiso sartreano a la fábula deleuziana, in: Devenires, nº15.
3. Pellejero, E. (2007), La realidad de la ficción (proyecto de investigación filosófica) in Filos: Revista de filosofía, Facultad de Filosofía Samuel Ramos, Mexico: Universidad Michoacana de San Nicolás de Hidalgo
4. Pombo, O. (2007), A Escola como Memória do Futuro, Revista Convergência Lusíada, 23 - Número Especial. Centenário de Agostinho da Silva (1906-2006), pp. 281-291.
5. Araújo, J. E., Um itinerário crítico para o imaginário de Mafalda Veiga: Decomposição de um cancionero através da imaginação da matéria, in Germina - Revista de Literatura e Arte (in press).
6. Pombo Nabais, C., Literatura Impossível: Bene, Melville e Beckett, in Conceito nº2, Lisboa (in press).
7. Pellejero, E., A realidade política da expressão, in Conceito, nº2, Lisboa, ER (in press).
8. Pellejero, E., Jacques, Rancière, La fable cinématographique, in Conceito, nº2, Lisboa, ER (in press).

### 3. Master and Ph.D. thesis completed (3000 ca.)

Nuno Miguel Proença, PhD in Philosophy at the École des Hautes Études en Sciences Sociales (EHESS), Paris with a dissertation untitled: Conditions et procédures d'objectivation en situation psychanalytique sept lectures de textes techniques de S.Freud, supervised by Fernando Gil (2007)

### 5. Organization of conferences (2000 ca.)

International Congress of Philosophy- Ideas con Historia - organization of the Dep. of Humanities, Universidade Nacional del Sur, in collaboration with the CFCUL, Argentina 7 a 10 de Agosto de 2007 (Partnership)

1st Workshop: «Fora» da Filosofia. As Formas de um conceito em Sartre, Blanchot, Foucault et Deleuze (06/07/2007), directed by Eduardo Pellejero and Golgona Anghel.

2nd Workshop: «Fora» da Filosofia. Da Fenomenologia à Desconstrução, (14/12/2007), FCUL, directed by Eduardo Pellejero and Golgona Anghel.

As Línguas Pré-Clássicas, by José Félix Costa (IST, Lisbon), FCUL, Lisbon, 9.02.2007

Interrogações sobre a Pós-Modernidade, by António Barros Veloso (CFCUL), FCUL, Lisbon, 9.05.2007.

### 7. Internationalization (2000 ca.)

#### INTERNATIONAL PROJECTS

- "La Contextualization des Catégories de la Pensée Scientifique" - head: Shahid Rahman (Univ. Lille III, France)

- "Système d'Information en Philosophie des Sciences (SIPS)" - head - Thierry Martin (IHPST / CNRS, France)

- "Logiques de la Ficción", Univ. Lille III, France (head - Shahid Rahman)

#### PARTNERSHIPS WITH INTERNATIONAL INSTITUTIONS:

Universidad Nacional del Sur, Argentina

-Deleuze y la redefinición de la filosofía - PhD Seminar by Eduardo Pellejero at the Depart. of Humanities. Universidad Nacional del Sur, Argentina, 2007 (54 hs).

Collège International de Philosophie

---Le sujet comme production de vérité: un parcours entre Kant et Freud II - by Nuno Proença - External Seminar of the Collège International de Philosophie, 2007-2008 (twice a month)

École des Hautes Études en Sciences Sociales

---Contexte, Art, Vérité - by Nuno Proença - Seminar at the École des Hautes Études en Sciences Sociales, Paris, 6 e 7 de Junho de 2007.

VISITING FELLOWS AT THE CFCUL (sabatic)

- Francisco Salguero (Universidad de Sevilla - Grupo de Lógica, Lenguaje e Información, Spain)

FOREIGN VISITING PHD STUDENTS AT THE CFCUL

- Ester Drehur Heuser (UFRGS - Brasil)

- INVITED TALKS ABROAD: 8

## Science and Art

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### GROUP DESCRIPTION

#### 1. Group Name/Designation

Science and Art (RG-PHIL-LVT-Lisboa-678-1053)

#### 2. Principal Investigator

Catarina Pombo Martins de Castro Nabais

#### 3. Location of Group (Host Institution)

Fundação da Faculdade de Ciências

#### 4. Keywords

Image in Science and Art | Scientific illustration | Diagrammatic Thinking | Science and Theater

#### 5. Funding, source, dates (1000 ca.)

- 180.705 EUR - funded FCT Project "Image in Art and Science" (PTDC/EAT/64201/2006). Head: Olga Pombo. The project has begun officially on 1.05.2007.

- 17.940 EUR - FCT post-doc grant - PHD. Catarina Pombo at CFCUL, supervisor: Prof. Bracinha Vieira (2007-09)

## PI AND RESEARCHERS

### 1. Researchers in the Group (PhD. Only) (1)

- Team Member (Ph.D.)
- António Manuel Bracinha Vieira  
(Professor Catedrático)
  - Carlos Manuel Branco Nogueira Fragateiro  
(Professor Auxiliar)
  - Catarina Pombo Martins de Castro Nabais  
(Não aplicável (bolseiro))
  - Cristina de Sousa Azevedo Tavares  
(Professor Associado)
  - Eduardo Anibal Pellejero  
(Não aplicável (bolseiro))
  - José Nunes Ramalho Croca  
(Professor Auxiliar)
  - Nuno Gabriel de Castro Nabais dos Santos  
(Professor Auxiliar)
  - Olga Maria Pombo Martins  
(Professor Auxiliar)

### 2. Other Researchers in the Group (PhD.) (2)

Other Team Member(s) (Ph.D.)

- Jose Felix Gomes da Costa
- Maria Filomena Guerreiro Vieira Molder
- veronica fabrini machado de almeida

Category

Professor Associado	
Professor Auxiliar	
Professor Associado	

### 3. Other Researchers in the Group (non PhD.) (2)

Team Member (non Ph.D.)

- Alexander Matthias Gerner
- Ana Maria Mendes Gaspar
- Ana Maria Rodrigues de Figueiredo
- Ana Paula Rocha Coelho de Figueiredo Silva
- Ana Teresa Antunes de Brosque Graça Bigio
- Davide Scarso
- Golgona Luminita Anghel
- João Eduardo Farias de Araújo
- Joao Luis de Lemos e Silva Cordovil
- Manuel Luís Valente Alves
- Maria Adelaide Marques Neves
- Nuno Miguel Santos Gomes de Carvalho
- Patrícia Pombo Martins Tomé de Medeiros

Category

Não aplicável (bolseiro)	
Assistente	
Outra	
Outra	
Assistente	
Não aplicável (bolseiro)	
Não aplicável (bolseiro)	
Não aplicável (bolseiro)	
Não aplicável (bolseiro)	
Outra	
Outra	
Outra	
Não aplicável (bolseiro)	

## OBJECTIVES & ACHIEVEMENTS

### 1. Objectives (2000 ca.)

"Science and Art" is our Unit's newest Research Group. It has been constituted in 2007, as the result of the research interests of several members and collaborators of the CFCUL who had been approaching the area. The head is the Pos- Doc Catarina Nabais who has focused her post-doc research at the CFCUL on the concept of Image in Science and Art. Prof. V. Fabrini (University of São Paulo, Brasil), during her pos-doc at the CFCL (2006) has worked out the relation between SCIENCE AND POETICS IN BACHELARD which is now an independent internal research line Around Prof. Olga Pombo's ancient study on Leibniz philosophy of language and diagrammatic thinking, a large in scope as well as ambitious FCT project has been shaped in order to work out the relationships between "IMAGE IN SCIENCE AND ART". This project (PTDC/EAT/64201/2006) which was evaluated as excellent and received a very significant funding (see "Funding", in the "Group Description" section). It includes a wide team of national (CFCUL, Faculty of Medicine, Faculty of Arts and other institutions) and international researchers and has a huge and ambitious number of specific, well determinate objectives.



The RG "Science and Art" integrates also a research line on the relationship between SCIENCE AND THEATER. A new and innovative area of research that intends, not only to theoretically analyse the concept of representation in theater and its influence on the constitution of science, but also to disseminate Science to a wider public. The impulse was given by the recent entrance in the CFCUL of Prof. Carlos Fragateiro, who has a long research experience on Science and Theater, mainly as Director of the Teatro Trindade, of the Teatro D. Maria and more recently, of the Teatro da Escola Politécnica of the University of Lisbon.

## **2. Main Achievements (2000 ca.)**

### IMAGE IN SCIENCE AND ART

Beginning in May 2007, this huge project has already organized

-- 12 SEMINARS ON THE CONCEPT OF IMAGE

-- one three days INTERNATIONAL WORKSHOP with Ingeborg Reichle, one of the international consultants of the project (see "Productivity")

the project's team has already begun the research work on several of the 11 tasks of the project, namely

--- Diagrammatic Thinking (task2)

--- Philosophical Studies on Image between Art and Science (task 4)

--- Historical studies on Image between Art and Science (task 5)

--- The Art of Scientific Image (task 6)

--- Drawing Science (task 7)

Intense post-graduate activity with 4 PhD and 1 Master thesis ongoing (please, see below)

### BACHELARD. SCIENCE AND POETICS

- One Master thesis in progress: Ana Gaspar, O Lugar da Psicanálise na Epistemologia de Gaston Bachelard, supervisors: Olga Pombo and José Luís Pio Abreu)

- 1 Workshop: Arte e Ciência como Criação. Em torno de Gaston Bachelard

- 1 Book: A. Gaspar (org), Bachelard. Epistemologia e Psicanálise, 6º caderno de Filosofias das Ciências, Lisboa: CFCUL / PUBLIDISA (in press)

### SCIENCE AND THEATER

In collaboration with the Teatro Nacional D. Maria II and the Teatro da Politécnica, this RG presented three plays:

1- Darwin no Jardim

2- O que sabemos (Conferência de Richard Feynman)

3- After Darwin

- Prof. Nabais was invited by the Art Department of the University of Évora to coordinate the graduation course on

1- Teoria do Trabalho do Actor (1º semestre, 40h, 2006-2007)

2- Teoria do Trabalho do Actor (1º semestre, 40h, 2007-2008)

### PHD AND MASTER THESIS FOR THE WHOLE RG

- 1 PhD concluded (Catarina Nabais)

- 3 PhD ongoing (Ana Figueiredo, Teresa Bígio and Cristina Branco)

- 2 Master thesis ongoing (Ana Gaspar, Nuno Carvalho)

### TALKS:

- 7 talks in international workshops

- 23 talks in national conferences

## **PRODUCTIVITY**

2. Other publications (3000 ca.)
3. Master and Ph.D. thesis completed (3000 ca.)
5. Organization of conferences (2000 ca.)
7. Internationalization (2000 ca.)

### **2. Other publications (3000 ca.)**

#### BOOKS

A. Gaspar (org), Bachelard. Epistemologia e Psicanálise, 6º caderno de Filosofias das Ciências, Lisboa: CFCUL / PUBLIDISA (in press)

### **3. Master and Ph.D. thesis completed (3000 ca.)**

#### PHD COMPLETED

Catarina Pombo Martins de Castro Nabais, L'Éthétique en tant que Philosophie de la Nature: le Concept de Vie chez Gilles Deleuze. Pour une Théorie Naturelle de l'Expressivité. Regards sur la Littérature, by the Université Paris VIII, Vincennes - Saint-Dennis, supervisor J. Ranciere)

### **5. Organization of conferences (2000 ca.)**

#### INTERNATIONAL WORKSHOPS

1. Arte e Ciência como Criação. Em torno de Gaston Bachelard, FCUL in the context of the project Bachelard: Science and Poetics(26/01/2007)
2. Towards a Philosophy of Image, by Ingeborg Reichle, FCUL, in the context of the project Image in Science and Art (5, 6 and 7 November)
  - 1st day
    - Genetic Aesthetics: Art emerging from the laboratory
    - Scientific and Artistic Mapping: Exploring the Human Genome Project from Across the Disciplines,
  - 2nd day
    - Perspectives on Imaging: Visual Practices across the Disciplines
    - Image Science: Dialogues in Art and Science,
  - 3rd day
    - Picture Theory: Visual Representation in Art and Science
    - Teresa Bígio, A utilização da Imagem nas Ciências Biológicas
    - Nina Szielasko, Graphic Design - Some Footnotes

#### NATIONAL WORKSHOP

1. Os Lugares da Epistemologia e da Poética em Gaston Bachelard (10/12/2007), FCUL, no âmbito do projecto Bachelard. Ciência e Poética

#### SEMINARS ON THE CONCEPT OF IMAGE : 12

- Deleuze e Imagem - by Catarina Pombo
- As primeiras imagens - by António Bracinha Vieira
- Ilustração científica - by Pedro Salgado (Desenhador Científico, Biólogo)
- A ciência e a produção das imagens - by José Croca
- Quatro perspectivas sobre imagem by- Cristina Branco
- As imagens da arte - by Cristina Azevedo

- Paradoxos da imagem - by João Luís Cordovil
- A imagem em Aristóteles. O caso da Poética – by Nuno Nabais
- A imagem sob efeito da droga na literatura - by Golgona Anghel
- Notas preliminares à cerca de jogos de imagens - by Alexander Gerner
- Passagens, o filme da exposição - a arte, a ciência e a moderna museologia, by Manuel Valente Alves
- Desenho Científico e Pensamento Selvagem, by Davide Scarso

#### OTHER CONFERENCES

1. Leonardo da Vinci. O Estado da Arte, by Ana Figueiredo, FCUL
2. Visão, Imagem, Linguagem e Cognição, by Francisco Salguero (Univ. Sevilha)

#### **7. Internationalization (2000 ca.)**

##### PARTNERSHIPS WITH INTERNATIONAL INSTITUTIONS:

Instituto Franco Português de Lisboa, Embaixada de França

Université de Lille III, França

Unicamp (Instituto das Artes), São Paulo, Brasil

University of Sevilla, Spain

##### STAY OF CONSULTANTS IN THE PROJECT IMAGE IN SCIENCE AND ART

-Ingeborg Reichle (Berlim)

##### VISITING FELLOWS AT THE CFCUL (sabbatic)

- Francisco Salguero (Universidad de Sevilla - Grupo de Lógica, Lenguaje e Información, Spain)