

Overview**1. Personal data****Full Name**

Madalena Maria Magalhães Pinto

Name under which you publish

Madalena Maria Magalhães Pinto

Fiscal ID number

159495890

ID document

985907

Birth date

15-09-1948

National of

Portugal

Gender

F

Work address

Faculdade de Farmácia da Universidade do Porto / CIIMAR
Faculdade de Farmácia da UP Rua Jorge Viterbo Ferreira nº 228
4050-313 Porto
Portugal

Residential Address

Rua 5 de Outubro,32
4420-086 Gondomar
Portugal

Work Phone

+351220428692

Residential Phone

+351224830244

Email

madalena@ff.up.pt

Fax

+351226093390

Cell phone

+351966092514

URL

https://www.scopus.com/authid/detail.uri?authorId=35591287300

2. Academic degrees**Year: 1971****Degree: LICENCIATURA****Final grade: 15 valores****Degree granting institution Universidade do Porto****School/College/Campus Faculdade de Farmácia****Thesis title 0****Supervisor:****Co-supervisor:****Scientific area 0**

Number of curricular years 5

Program title Curso de Farmácia

Year: 1983

Degree: DOUTORAMENTO

Final grade: Muito bom com distinção e louvor

Degree granting institution Universidade do Porto

School/College/Campus Faculdade de Farmácia

Thesis title Contribuição para o estudo estrutural de kielcorinas obtidas por síntese

Supervisor:

Co-supervisor:

Scientific area Química Orgânica e Farmacêutica

Program title Doutoramento

Year: 1991

Degree: AGREGAÇÃO

Final grade: Aprovado por unanimidade

Degree granting institution Universidade do Porto

School/College/Campus Faculdade de Farmácia

Thesis title 0

Supervisor:

Co-supervisor:

Scientific area 0

Program title 1º Grupo - Ciências Química e Físicoquímicas

3. Previous activity and current status

Período	Cargo, categoria ou actividade	Instituição
01-1-2016 a	Group Leader of "Natural Products and Medicinal Chemistry" group	CIIMAR - Interdisciplinary Centre Of Marine And Environmental Research - University of Porto
25-1-1972 a 16-7-1972	Monitor	Faculdade de Farmácia da Universidade do Porto
17-7-1972 a 17-7-1974	Assistente Eventual	Faculdade de Farmácia da Universidade do Porto
18-7-1974 a 26-1-1983	Assistente	Faculdade de Farmácia da Universidade do Porto
27-1-1983 a 26-1-1988	Professor Auxiliar além do Quadro	Faculdade de Farmácia da Universidade do Porto
17-10-1983 a 26-1-1988	Professor Auxiliar com funções de Associado	Faculdade de Farmácia da Universidade do Porto
27-1-1988 a 22-3-1990	Professor Auxiliar com nomeação definitiva	Faculdade de Farmácia da Universidade do Porto
23-3-1990 a 02-7-1991	Professor Associado do Primeiro Grupo (Ciências Químicas e Físico-Químicas)	Faculdade de Farmácia da Universidade do Porto
03-7-1991 a 17-11-1993	Professor Associado Agregado do Primeiro Grupo (Ciências Químicas e Físico-Químicas)	Faculdade de Farmácia da Universidade do Porto
18-11-1993 a	Professor Catedrático do Primeiro Grupo (Ciências Químicas e Físico-Químicas)	Faculdade de Farmácia da Universidade do Porto

4. Area of scientific activity

Medicinal Chemistry
Organic Chemistry
Chemistry of Natural Products
Organic Synthesis

5. Present research interest

Domain of specialization

Medicinal Chemistry : drug discovery and drug design (synthesis and molecular modification of natural and natural mimics of biological active compounds; by structure-based design; evaluation of structure-activity relationship)

Organic Chemistry: synthesis (biomimetic , microwave assisted, heterogeneous catalysis) and structure elucidation. Development of analytic tools for chiral HPLC.

Chemistry of Natural Products: isolation, structural elucidation and biological activities evaluation of secondary metabolites from plant and marine origin.

Current research interests

- Isolation of bioactive compounds from plants, fungi and marine organisms;
- Synthesis and molecular modification of compounds with pharmacological activity; computational studies, synthesis and investigation of multiactive ligands with cell growth inhibitory effects, P-gp and caspases modulation; virtual screening of multiactive ligands as anticoagulant agents; and multiactive ligands as inhibitors of enzymes of the arachidonic acid cascade;
- Molecular Recognition-Artificial Receptors with application on HPLC with new chiral stationary phases, including computational studies by molecular docking in order to understand the chromatographic behavior at a molecular level, and the structural features associated with the chiral recognition mechanism.

Other professional interests/activities

- Team Leader of Group of Natural Products and Medicinal Chemistry (CIIMAR)(2014-)
- Coordinator CEQUIMED-UP (2007-2014)
- Director of Masters in Pharmac. Chem. FFUP (2013-2019), PhD Course in Pharmac. Sciences (2009/2010)
- Head of Lab. Organic and Pharmac. Chem. (1985-2019)
- Chairperson of 1st Nat. Meeting on Med. Chem. Porto, Portugal, 13 – 15 November, 2008
- Member of:
 - Local Organization and Inter. Scient. Committee of EFMC-ISMIC 2014
 - Committee of the Therapeutic Chemistry Group of the Portuguese Society of Chemistry (2011-2013)
- Guest Editor of Special Issues:
 - MOLECULES "Enantioselective Synthesis, Enantiomeric Separations and Chiral Recognition" 2018-2019
 - Phytochemistry Reviews: Marine Natural Products (6th European Conference on Marine Natural Products) 2010, Vol9(4)
 - Current Medicinal Chemistry: "Xanthone: An Interesting Framework in Medicinal Chemistry", 2005, vol. 12, nº 21

6. Experience as scientific adviser

MASTERS IN PHARMACEUTICAL CHEMISTRY (Faculty of Pharmacy of University of Porto)

Supervisor

- Maria Inês Alves de Sousa Cruz- Mestrado Química Farmacêutica, Faculdade de Farmácia da Universidade do Porto, Thesis:" Xanthone and Flavone Derivatives as Potential Dual Agents for Alzheimer's Disease", 22 September 2015.

Co-supervisor

- Ana João de Sousa Alves- Mestrado Química Farmacêutica, Faculdade de Farmácia da Universidade do Porto, Thesis: "Isolation, structure elucidation and biological activities of the secondary metabolites from the culture of marine-derive fungus Acremonium persicinum KUFA 1007" , 2018, on going

- Papichaya Boonpothong- Mestrado Química Farmacêutica, Faculdade de Farmácia da Universidade do Porto, 11 September 2017, Thesis: "Studies toward the total synthesis of neofiscalin A, a potent antibacterial agent"

- Ana Rita Silva Moreira - Mestrado Química Farmacêutica, Faculdade de Farmácia da Universidade do Porto, Thesis: "Development of proliposomes as a vehicle to deliver new molecules with antitumor activity ", 21 october 2015.

- Ana Rita da Conceição Neves- Mestrado Química Farmacêutica, Faculdade de Farmácia da Universidade do Porto, Thesis: "Potential Orally-Active Heparin-Like Compounds: Synthesis and Anticoagulant Activity", 21 october 2015.

- Cristiana Filipa Magalhães Gregório - Mestrado Química Farmacêutica, Faculdade de Farmácia da Universidade do Porto, Thesis:, Dissertação: " Antifungal Activity and/or Inhibition of Mechanisms of Resistance of a Small Library of Natural and Synthetic Compounds", 22 october 2015.

MASTERS IN QUALITY CONTROL(Faculty of Pharmacy of University of Porto)

Supervisor

- Daniela Neiva (2011/2013) Seminar: Small molecules as chromatographic tools for resolution of chiral compounds by HPLC: recent developments (on going)
Thesis: "Development and evaluation of new chromatographic tools for HPLC based on chiral xanthonic derivatives "

- Ana Catarina Dias Gonçalves Sobral Camões
Thesis: "Design and synthesis of xanthone derivatives with potential estrogenic/antiestrogenic activity", January 2008.

- Carla Sofia Garcia Fernandes
Thesis: " Xanthone derivatives: Synthesis and application as "Pirkle-type stationary phases", November 2006

- Marta Ramos Pinto Coreia da Silva
Thesis: "Sulfated flavonoids: synthesis, structural elucidation and biological activities"- April 2006

Co-supervisor

- Joana Botelho Teixeira (2011/2013) Seminar "P-gp in cancer drug resistance: from biology to therapeutic implications" (on going)

- Ana Mafalda Gouveia de Paiva
Thesis: "Xanthone Derivatives: Synthesis and Incorporation in Nanosystems" - 06 October 2011

MASTERS IN ONCOLOGY (Instituto de Ciências Biomédicas de Abel Salazar- ICBAS)

(CO) - co-supervisor

Viviana Vilar da Silva

Thesis "Antitumor activity of xanthone derivatives: effects on the immune microenvironment", 10 december 2014.

PhD THESIS

Supervisor

- Carla Sofia Garcia Fernandes - 17 July 2012

Thesis " Synthesis of Chiral Derivatives of Xanthenes: Application as HPLC Stationary Phases and Potential Bioactive Agents in Pharmaceutical and Medicinal Chemistry" (O), Faculty of Pharmacy, University of Porto

- Elisangela Joaquina Valente da Costa – 12 December 2011

Thesis: "Synthesis of xanthone/benzophenone derivatives by strategy based in molecular targets: potential applications for treatment of hormone-dependent breast tumors"

- Marta Ramos Pinto Correia da Silva Carvalho Guerra - 16 November 2011

Thesis: "Synthesis and Biological Activities of Polysulfated Small Molecules: New Cardiovascular Agents"

- Raquel Alexandra Pinto Castanheiro – 25 June 2009

Thesis: "Prenylated Xanthone Derivatives: Optimization of synthetic methodologies, structural elucidation and evaluation of bioactivities"

- Maria Emília da Silva Pereira de Sousa - 18 December 2003

Thesis: "Derivatives of xanthen-9-one: synthesis, structural elucidation and biological activities"

- Fernanda Maria Fernandes Roleira - 25 July 1996.

Thesis: "Design and synthesis of complexes antiviral compounds- molecular clefts by artificial molecular recognition"

- Eduarda das Graças Rodrigues Fernandes - 07 February 1996.

Thesis: "Synthesis, structural elucidation and biologic activities of xanthenes and xanthonolignoids"

- Margarida Maria da Silva Monteiro Bastos - 08 May 1996.

Thesis: "Isolation and molecular modification of secondary metabolites of Compositae and Lauraceae"

- Maria José Teixeira Guedes González- 28 March 1995.

Thesis: "Study and synthesis of derivatives of natural compounds from plant origin with potential biological activity"

- Maria Fernanda Martins Borges - 27 January 1995.

Thesis: "Synthesis of derivatives of natural products from plants with potential biological activity"

- Carlos Manuel Magalhães Afonso – 04 February 1994.

Thesis: "Isolation, structural elucidation and synthesis of pheromones"

Co-supervisor

- Joana Patrícia Martins Moreira, PhD in Pharmaceutical Sciences, Pharmaceutical and Medicinal Chemistry, FFUP (funded by FCT: SFRH/BD/135852/2018)

Thesis: "Hit to lead optimization of new proapoptotic agents targeting caspases and p53"- on going

- Fernando André Pereira Marques Durães, PhD in Pharmaceutical Sciences, Pharmaceutical and Medicinal Chemistry, FFUP; Thesis: Innovative efflux pump inhibitors to circumvent antimicrobial resistance (2016-on going)

- Solida Long (from Chemistry Department of the Royal University of Phnom Penh, Cambodia)- Faculty of Pharmacy, University of Porto

Thesis: "Hit-to-lead Optimization of Modulators of P-gp: Design, Synthesis, and Biological Studies" (2016-on going)

- War War May Zin (from Yangon University, Myanmar, Burma)- from 2014, Instituto de Ciências Biomédicas Abel Salazar (ICBAS), PhD in Biomedical Sciences

Thesis: "Bioactive Secondary Metabolites from Marine-Derived fungi" – on going

- Chadaporn Prompanya- from 1st January 2013, Instituto de Ciências Biomédicas Abel Salazar (ICBAS), PhD in Biomedical Sciences

Thesis: "Study of bioactive metabolites from marine sponges and marine sponges-associated fungi" – on going

- Kamonporn Masawang, Kasetsart University, Bangkok, Thailand- from November 2011 (on going)

Thesis: "Elucidation of Antiproliferative and Cellular Mechanisms of Action of Small Molecules with Growth Inhibitory Effect on Human Cancer Cell Lines "- on going

- Marta Alexandra Oliveira Perro Neves- 11 January 2012

Thesis: "Prenylflavonoids and Chalcones: Synthesis and Evaluation of the Antitumor Activity"

- Andreia Filipa dos Santos Palmeira – 13 December 2011

Thesis: "Design, synthesis and evaluation of xanthone derivatives for dual activity: antitumor and P-glycoprotein inhibition"

- Kantima Choosang – 30 November 2010

Thesis: "Evaluation of natural and synthetic compounds on human tumor cell lines: effects on cell growth, cell cycle and apoptosis", Faculty of Sciences, University of Kasetsart University, Bangkok, Thailand

- Carmen Maribel Bento Teixeira – 03 July 2008

Thesis: "Polimeric Nanoparticles as delivery systems for xanthone derivatives"

- César Augusto da Silva Portela – 15 de February 2007

Thesis: "Rational design and synthesis of new xanthonic ligands as new antimalarial agentes"

- Maria Madalena Marques Pedro - 02 October 2006

Thesis: "Evaluation of the antitumor activity of compounds from natural and synthetic origin: celular mechanisms affected by action of prenylflavones, stililchromones and abietanic diterpenes"

Ao abrigo de Projectos Bilateriais entre GRICES/FCT/CAPES, entre Portugal e Brasil foi responsável pela orientação dos Estudantes de Doutoramento, oriundos do Departamento de Química, Universidade Federal de São Carlos, São Carlos, Brasil:

- Rodrigo Ossamu Saga Kitamura – desde Setembro de 2009 a fim de Abril de 2010

- Marcelo Eça Rocha – entre Setembro 2008 fim de Abril de 2009
- Cristiane de Melo Cazal - entre Setembro 2008 e fim de Fevereiro de 2009

SUPERVISION OF POS-DOCS

- Diana Isabel S. Pereira Resende - Projeto NOVERMAR - Novel marine products with biotechnological applications - WP 7 (Maio 2016 - 2109)
- Marta Ramos Pinto Correia da Silva Carvalho Guerra
Theme: Development of polysulfated small-molecules: towards new oral antithrombotic agents (FCT- SFRH/BPD) (2012-2014)
- Raquel Maria Torres Lima
Theme: Small molecules as apoptosis inducers in cancer cells: investigation of the mechanism of action,(FCT-SFRH/BPD/68787/2010) (2011-2014, co-supervision).
- Kampanart Huanbutta, Faculty of Pharmaceutical Sciences, Burapha University, Thailand
Theme: Development and characterization of biodegradable polymeric nanoparticle formulations, containing promising antitumor compounds such as prenylated flavones and xanthenes and aminated thioxanthenes (December 2011- October 2012)
- Clara Cecília Santana de Sousa
Theme Synthesis of bioactive hydroxy-, methoxy- and prenylxanthenes and structure-energy-bioactivity correlation studies (2009-2012, co-supervision).
- Ana Paula de Almeida
Theme: "Isolation of bioactive secondary metabolites from plant origin, inhibitory activity of growth in human tumor cell lines and inclusion in nanoparticles" (2007-2008).
- Bruce Forbes Milne
Theme: "Computational studies of biologically active xanthone derivatives: development of QSAR and mechanistic models of antitumor activities" (2004-2007).
- Virgínia Verônica
Theme: "Design and development of new chiral stationary phases of xanthonic derivatives" (2004 - 2005)
- Maria Elizabeth Tiritan
Theme: "Racemic drugs: enantiomeric resolution by artificial molecular recognition" (1997 -2000)
- Susana Paula Graça da Costa
Theme: "Synthesis of xanthone derivatives with potential inhibitory MAO activity" (June - December1997)

ERASMUS STUDENTS

From National and Kapodistrian University of Athens
Ethniko kai Kapodistriako Panepistimio Athinon
30, Panepistimiou Street
GR-106 79 Athens

- Ioulia Marini
Supervisor: Madalena M. M. Pinto
Project II: Chemical study of metabolites from the soil fungus Neosartorya KUFC 6344
Spring semester – 2011-12
- Argyris Bakaloymis

Supervisor: Madalena M. M. Pinto
Project II: Chemical and biological study from the crude extract of Neosartorya spinosa: a fungi isolated from the marine sponge Rhiabdermia sp.
Spring semester – 2010-11 (16/02/2010 – 15/07/2010)

From Charles University in Prague, Faculty of Pharmacy, Check Republic

- Jana Heczková
Supervisor: Madalena M. M. Pinto
Project II: Synthesis of Carboxyxanthone Derivatives as Building Blocks for Enantiomeric Pure Compounds
1st Semester – 2009-10

- Barbora Suchánková
Project II: Xanthone derivatives with potential dual mode of action for Alzheimer's Disease
1st Semester – 2009-10

STUDENTS OF THE CURRICULAR UNIT "PROJETO I" of "Mestrado Integrado em Ciências Farmacêuticas da FFUP:
10

7. Participation in R&D projects**Participação em projectos de investigação (coordenador/membro de equipas)**

Participation in R&D activities

SCIENTIFIC COORDINATOR:

- Team leader of Group of Natural Products and Medicinal Chemistry (CIIMAR - UID/Multi/04423/2013 (FCT) (2016 -)
- Project: PTDC/MAR-BIO/ 4694/2014 Title: "Navigating through marinederived fungi: bioprospection and synthesis of bioactive secondary metabolites and analogues aschemotherapeutic agents" (PI) (2016 - 2019)
- BLUE and GREEN Boosting scientific excellence and innovation capacity in biorefineries based on marine resources, Horizon2020 Programme, Grant Agreement No. 692419, member and PI of "Medicinal Chemistry: drug discovery and drug design" (2016 -2019)
- NOVELMAR "Novel marine products with biotechnological applications, member and PI of the WP7 "Molecular modification and total synthesis", NORTE010145FEDER000035, Integrated in the project CIIMAR INNOVMAR – NORTE 2020 (2016 -2019)
- of Centro de Química Medicinal da Universidade do Porto (Research Center of Medicinal Chemistry of the

University of Porto), (FCT, R&D N° 4040/07) (2007-2015)

- of Centro de Estudos de Química Orgânica, Fitoquímica e Farmacologia da Universidade do Porto (Research Center of Organic Chemistry, Phytochemistry and Pharmacology of the University of Porto), (FCT, R&D N° 226/03) and team leader of Medicinal Chemistry Research (2003-2008)

- of the Multidisciplinary Project "Chiral xanthenes: Synthesis, biological evaluation and molecular docking as inhibitors of P-glycoprotein (Pgp), phospholipase A2 (PLA2) and cicloxygenases (COX-1 and COX-2)", University of Porto (2012-2013, PP_IJUP2011 no 19)

- of the Project "Molecular and nanotechnology-based approaches to improve the antitumor activity of small molecules", PTDC/SAU-FCF/100930/2008 of Fundação para a Ciência e a Tecnologia of Portugal, 2010-2014.

- of the Project "Small Molecules as Antitumor and Anti-infective Agents", Bilateral Cooperation between Research Center of Medicinal Chemistry of the University of Porto /Faculty of Pharmacy of the University of Porto and Department of Chemistry of University of São Carlos, Brazil, GRICES/CAPES, 2 years, 2008.

- of the Multidisciplinary Project "Chiral Xanthenes: Synthesis, Structure Elucidation, Enantiomeric Purity and Antioxidant and Anti-inflammatory Activities", University of Porto (2009-2010).

- of the Project in Medicinal Chemistry of Fundação para a Ciência e a Tecnologia of Portugal (R&D 226/94) – "Search for natural and synthetic bioactive compounds: isolation and synthesis, structural characterization, evaluation of biological activity and elucidation of mechanism of action" (2003-2008).

- of the Multidisciplinary Project "Chiral Xanthenes Derivatives: Synthesis, Structural Elucidation and Biological Activities", University of Porto, Portugal, in collaboration with undergraduate students and Institute of Biomedical Sciences (2007-2008).

- of the Project: "Small Molecules as Antitumor and Anti-infective Agents", Bilateral Cooperation between Research Center of Medicinal Chemistry of the University of Porto /Faculty of Pharmacy of the University of Porto and Department of Chemistry of University of São Carlos, Brazil, GRICES/CAPES (2008-2010).

- of the Project: "Chiral xanthonic derivatives: enantiomeric resolution, biological activities and application as new chiral selectors for HPLC", Bilateral Cooperation between Research Center of Organic Chemistry, Phytochemistry and Pharmacology of the University of Porto Faculty of Pharmacy of the University of Porto and Department of Chemistry of University of São Carlos, Brazil, GRICES/CAPES (2002-2006).

- of Centro de Estudos de Química Orgânica, Fitoquímica e Farmacologia da Universidade do Porto (JNICT) – 1987-1993 Project 1 A: Chemistry of Natural Products 1 A 1: "Pheromones and derivatives: isolation, identification and synthesis" 1 A 2: "Isolation and structural determination of Secondary Metabolites" 1 B: Medicinal Chemistry "Isolation, identification and synthesis of compounds with potential pharmacological activities (xanthenes, xanthonolignoids, flavonoids, coumarins)".

- of the research project: "Synthesis of natural 1,4-benzodioxane derivatives by classic and/or biomimetic methods"- CI 76/85- University of Porto, Portugal (1984/85).

- of the "Subprograma X. Química Fina Farmaceutica; RIIDMED. Red Iberoamericana de Investigación, Diseño y Desarrollo de Medicamentos (CYTED. Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo)".

AS RESEARCHER:

- In the Project Chiral derivatives of xanthenes and flavonoids: synthesis and biological activity evaluation (CHIRALBIOACTIVE-PI-3RL-IINFACTS-2019), Projetos Integrativos 2019, CESPU, 2019

- Colaborator of Instituto de Investigação e Formação Avançada em Ciências e Tecnologias da Saúde (IINFACTS) CESPU (2018 -)

- Instituto de investigação e formação avançada em ciências e tecnologias da saúde, Project "Chiral Bioactive Substances in the Environment", ChiralDrugs_CESPU (2017-)

- In the project "Overcoming environmental problems associated with antifouling agents: synthesis of Nature inspired nontoxic biocides and immobilization in polymeric coatings - PTDC/AAGTEC/ 0739/2014 -

-In the project "PTDC/DTPFTO/ 1981/2014" Title: "Targeting p53 family proteins: on the route to new anticancer agents" (2015-)

-In the project "Síntese enantiosseletiva de derivados xantônicos quirais e avaliação da atividade antiinflamatória"(COXANTCESPU2016), Instituto de Inestigação e Formação Avançada em Ciências e Tecnologias da Saúde (IIFACTS), (2016).

- In the Multidisciplinary Project "Combining chemistry of marine fungi with medicinal chemistry and oncobiology towards the discovery of novel lead molecules with potential antitumour activity", University of Porto (2010-2011).

- In the Multidisciplinary project "Virtual screening and in vitro evaluation of antitumour xanthenes for anti-EBV activity in a Burkitt lymphoma cell line", University of Porto (2009-2010).

- In the Multidisciplinary project "Fungal Secondary Metabolites as potencial growth inhibitory agents in cancer cell lines", University of Porto (2009-2010).

- In the Multidisciplinary project "Searching for small-molecule modulators of caspase family members using yeast cell-based approaches", University of Porto (2009-2010).

- In the Project Ref. 10-GCQF-CICS-09; "Chiral Xanthenes, Antioxidant and Anti-inflammatory Activities of Enantiomers", GCQF- CICS/CESPU (2009-2010).

- In the Multidisciplinary Project "Synthesis and elucidation of the cellular and molecular mechanisms of action of inhibitors of tumor cell growth with concomitant activity as inhibitors of P-glycoprotein", University of Porto, in collaboration with undergraduate students (2010-2011)

- In the Multidisciplinary Project "Synthesis and evaluation of the activity of inhibitors of fungal ABC-transporters with implications in programmed cell death", University of Porto, in collaboration with undergraduate students, (2010-2011)

- In the Multidisciplinary Project "Functional and pharmacological studies of p53 family proteins: screening for selective small-molecule modulators", University of Porto, in collaboration with undergraduate students, (2010-2011)

- In the Multidisciplinary Project "Synthesis and elucidation of the cellular and molecular mechanisms of action of inhibitors of tumor cell growth with concomitant activity as inhibitors of P-glycoprotein", University of Porto, in collaboration with undergraduate students. (2010-2011)

- In the Multidisciplinary Project "Synthesis of Flavonoids with Antitumoral Activity", University of Porto, in collaboration with undergraduate students, 15 months, 2009
- In the Multidisciplinary Project "Two small molecules as potent inhibitors of human tumor cell lines: Synthesis, evaluation of physicochemical and biological properties and incorporation in nanosystems", University of Porto, in collaboration with undergraduate students, 15 months, 2009
- In the Multidisciplinary Project "Synthesis, Structure Elucidation and Evaluation of Xanthone Amines for Dual Activity: Antitumor and P Glycoprotein Modulation", of Porto, in collaboration with undergraduate students and Institute of Pathology and Molecular Immunology of the University of Porto (IAPTIMUP), (2007-2008)
- In "Chiral xanthenes derivatives: synthesis, enantiomeric resolution, anti-inflammatory and antioxidant evaluations", Project 10-GCQF-CICS-09, GCQF - CICS/CESPU, in collaboration with CESPU, 24 months, 2009
- In the Multidisciplinary Project "Synthesis, Structure Elucidation and Evaluation of Xanthone Amines for Dual Activity: Antitumor and P Glycoprotein Modulation", University of Porto, Portugal, in collaboration with undergraduate students and Institute of Pathology and Molecular Immunology of the University of Porto (IAPTIMUP) (2007-2008).
- In the Project "Molecular Crystallography"- PRAXIS/2.2.1/QUI/17/94 (1994-1999).
- In SAPIENS Project 2001 from Fundação para a Ciência e a Tecnologia (FCT) Title: "Characterization of the cellular mechanisms affected by the action of artelastin"; Reference: POCTI/FCB/37591/2001

8. Prizes and awards received

Year	Name of the prize or award	Promoting entity
0	Prémio de Inovação e Excelência Pedagógica (2017/18); Projeto "Ensino tutorial para aquisição dos princípios básicos associados ao desenvol. expe. e escrita da dissert. do Mestrado em Quím. Farmacêut. (FFUP)", Madalena Pinto, Honorina Cidade, Emília Sousa	Universidade do Porto (Projeto financiado)
2017	Best Poster- J. Ribeiro, C. Fernandes, M.E. Tiritan, A.M.S. Silva, M.M.M. Pinto, Preparation of a new chiral stationary phase for liquid chromatography based on a small molecule, 10º Encontro Nacional de Cromatografia, Bragança, 4-6 December, 2017	Prémio Solítica, Soluções analíticas, Lda
2017	Best Poster - - S. Long, N. Thongdee, J. B. Loureiro, M. M. Pinto, P. Puthongking, L. Saraiva, E. Sousa. Aminocarbazole alkaloid derivatives as potential modulators of p53mutants	18th International Conference on Medicinal Chemistry & Targeted Drug Delivery, Dallas, USA, 6 -8 december
2013	Tema seleccionado para Comunicação oral: Development of conjugates of polysulfated diosmin as potential orally-active anticoagulant agentes, M. Patrão, M. Correia-da-Silva, M. M. M. Pinto, E. Sousa.	Innovating Medicine Conference 5.0 - Fundação AstraZeneca Innovate Competition, Lisboa, Portugal, 1-13 outubro
2012	Tema seleccionado para apresentação em poster "Xanthone derivatives as multiactive agents for anti-inflammatory and antitumor activities", Carlos Manuel Teixeira Carneiro - Estudante Projecto I - Orientador Madalena Pinto	Innovating Medicine Conference 4.0 - Fundação AstraZeneca Innovate Competition, Lisboa, Portugal, 8 outubro
2012	Melhor tese de doutoramento (Marta Correia da Silva, orient. Madalena Pinto, co-orient. Emília Sousa): Pequenas moléculas sulfatadas: "ao serviço do coração" Sociedade Portuguesa de Química-	
2012	Most Accessed Articles For the Month of April, 2012: A. Palmeira, E. Sousa, M. H. Vasconcelos, M. M. Pinto. Three decades of P-gp inhibitors: skimming through several generations and scaffolds. Current Medicinal Chemistry, 2012, 19(13), 1946-2025.	Bentham Publishers
2011	Melhor apresentação em poster: M. Leão, I. Coutinho, A. Paiva, E. Sousa, M. Pinto, C. Pereira, L. Saraiva. Searching for small molecule inhibitors of p53-MDM2/MDMX interaction, using yeast cell-based assays	XX Porto Cancer Meeting, IPATIMUP, Porto, Portugal, 28-29

		abril
2011	Melhor apresentação em poster: M. Correia-da-Silva, E. Sousa, L. M. Cunha-Ribeiro, M. M. M. Pinto. Polysulfated flavonoids as dual acting anticoagulant/antiplatelet agents	"Sangue sob Investigação" - V Jornadas de Ciências do Instituto Superior de Ciências da Saúde - Norte, Porto, Portugal, 1-2 abril
2010	Prémio Hovione: M. Paiva, A. Gomes, S. Cravo, E. Sousa, M. Pinto. New synthetic approaches using microwave radiation	Prémio Hovione-2PYChem, Universidade de Aveiro, Portugal, 21-23 abril
2010	Melhor apresentação em poster: A. S. Cordeiro, A. Palmeira, R. T. Lima, B. Sarmento, D. Ferreira, E. Sousa, M. H. Vasconcelos, M. Pinto. Effect of bioactive xanthenes on P-glycoprotein activity and prediction of their intestinal absorption	IV Congresso Científico da APEF, Lisboa, Portugal, 6-7 outubro
2010	Prize for poster presentation	IV Congresso Científico da APEF - "O Medicamento: Uma molécula, um percurso?", Lisbon, Portugal
2003	Melhor comunicação em Química Farmacêutica e Terapêutica	Sociedade Portuguesa de Ciências Farmacêuticas
1996	Prémio UCB da Farmacologia	Sociedade Portuguesa de Farmacologia

9. Published works

Teses

"Contribuição para o estudo estrutural de Kielcorinas obtidas por síntese", Tese de Doutoramento, Faculdade de Farmácia da Universidade do Porto, 1983.
 "Contribution for the structural elucidation of natural kielcorins obtained by synthesis". Faculty of Pharmacy of the University of Porto, Portugal, 1983

Capítulos de livros

BOOKS

- "Chemistry of Love and sex" Madalena M. M. Pinto, WILEY-VCH, Verlag Helvetica Chimica Acta, Zurich, 2012
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11. Languages

Language	Reading	Writing	Conversation
English	Very good	Good	Good
French	Good	Good	Good
Spanish	Good	Basic	Good