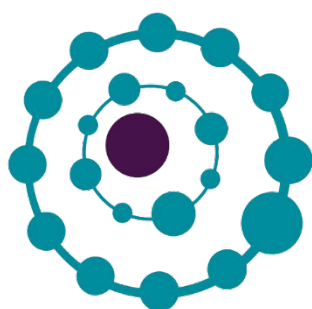




UNIVERSIDADE
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cbios

UNIVERSIDADE LUSÓFONA
RESEARCH CENTER IN BIOSCIENCES & HEALTH TECHNOLOGIES

Activities Summary

2017-2018



escola
de ciências
e tecnologias
da saúde

Apresentação

CBIOS is a central element of the institutional strategy to promote research and knowledge in biosciences and health technologies at the Universidade Lusófona. Its brief history goes back to 2001 where it was implemented from the infrastructures of the Pharmaceuticals Sciences course, then started. The R&D clusters created around the skills mainly supported by pharmaceutical technology and biopharmacy, created a favorable environment for growth, based on training and research, which attracted new and diversified competencies. After 10 years (2011), these clusters evolved into this research unit, designed in the light of the units already accredited by the FCT, formally being a Center in 2012.

Currently the CBIOS research groups include the Pharmacology and Therapeutics (PT) group, the Pharmaceutical Development and Marketing Group (DDS) and the Phytochemistry and Food Sciences (PFS) group. All groups interact very closely, contributing their visions and experimental skills to build new projects, as is the case with almost all doctoral projects in progress.

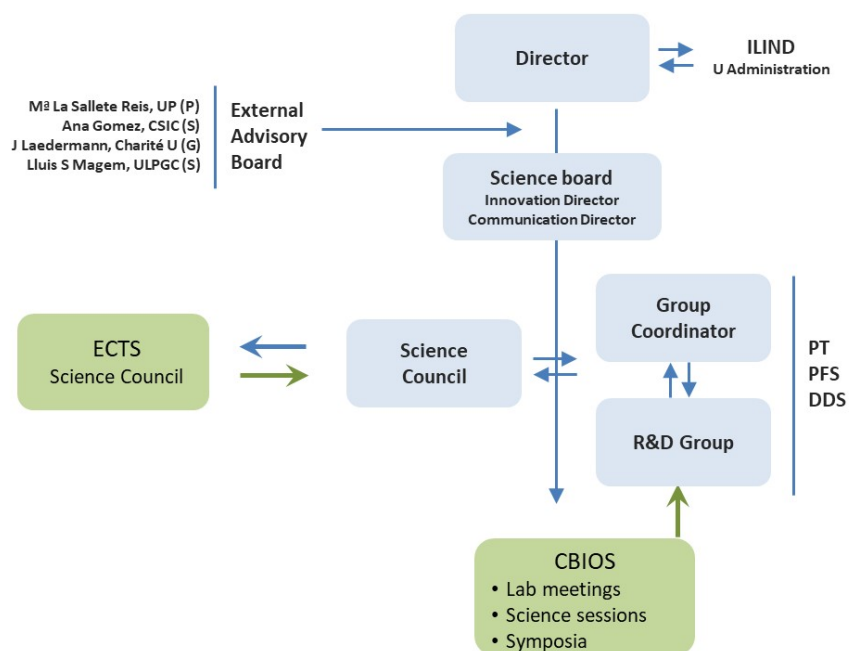
The current structure of CBIOS includes 15 integrated members and over 20 PhD collaborators employees and 17 PhD students. This high proportion between integrated members and doctoral students reveals the proactive dynamics of the CBIOS research groups.

In the coming years, we will continue to promote education and training by sponsoring different advanced training initiatives, including PhD programs in partnership with renowned institutions. This strategy will be implemented through a stimulating teaching environment and effective support initiatives for PhD students, in particular through scholarships.

The transfer of knowledge between our research center and the industry is also central to our strategic plan. Several initiatives and partnerships are already ongoing, and others will be established by 2020.

Figure 1, presented next, summarizes the most relevant structural and operational aspects of the unit.

Figure 1. CBIOS Structure and management scheme (PT – Pharmacology and Therapeutics group; PFS – Phytochemistry and Food Sciences group; DDS – Drug Delivery Systems group)



Activities

Global Indicators of Scientific Production

Summary tables of the indicators of scientific production, corresponding to the activities carried out under ECTS and CBIOS (see following sections)*

ECTS – CBIOS metrics	2011-12	2012-13	2014	2015	2016	2016-17	2017-18
Ongoing Research Projects	11	25	36	46	40	32	47
Communications							
Oral	36	34	55	65	70	79	69
Poster	79	82	101	56	98	87	94
Academic publications							
Monographs (Bachelor)	0	0	0	8	20	14	26
Master dissertations	7	45	80	52	23	25	41
PhD Thesis	0	0	3	0	3	6	4
Scientific publications							
Abstracts (national) with peer review	12	33	11	9	34	24	20
Abstracts (internacional) with peer review	20	34	33	23	39	60	35
Books and Book Chapters (national and internacional)	6	10	19	8	12	8	9
Articles in national journals with peer review	34	1	5	2	2	3	0
Articles in international journals with peer review	23	49	54	63	68	91	80
Others	1	4	4	0	7	17	9
Patents	0	0	0	0	1	1	1
Awards and Distinctions	-	-	-	-	8	14	18
Mobility							
Incoming	-	-	-	-	28	19	29
Outgoing	-	-	-	-	12	18	28

* these indicators include the contribution of researchers from CBIOS as well as from other ECTS collaborators, eventually integrated into other research units

Communications

Type	Number produced	REFERENCE (Authors, Title, Local...)
ORAL	69	<ol style="list-style-type: none"> 1. Aguiar A. Comunicação em farmácia; e-learning; Marketing de Serviços; Marketing Farmacêutico Ordem dos Farmacêuticos, Maio 2018, Lisboa, Portugal. 2. Almeida N, Carrara G, Fernandes AS, Parsons M, Smith GL, Saraiva N. "Human golgi anti-apoptotic protein (hgaap): a potential novel therapeutic target against cancer metastases?". Congresso da Sociedade Portuguesa de Farmacologia, Fevereiro 2018, Lisboa, Portugal. 3. Almeida N, Fernandes AS, Saraiva N. "Impact of cellular redox status modulation in cancer cell migration and invasion". Sessões CBIOS, Março 2018, Lisboa, Portugal. 4. Andrade JM, Nicolai M, Reis C, Faustino C, Afonso CAM, Fimia GM, Rijo P. Halimane diterpenes from <i>Plectranthus ornatus</i> Codd. against <i>Mycobacterium tuberculosis</i> H37Rv. 2nd UL Chemistry PhD Meeting (2ECQUL), Dezembro 2017, Lisboa, Portugal. 5. Andrade JM. Halimane diterpenes from <i>Plectranthus ornatus</i> Codd. against <i>Mycobacterium tuberculosis</i> H37Rv. CBIOS Sessions, Abril 2018, Lisboa, Portugal. 6. Andrade JM, Sitarek P, Skala E, Synowiec E, Kowalczyk T, Díaz-Lanza A, Reis R, Rijo P. Cytotoxicity of natural halimane and labdane diterpenes by mitochondrial dysfunction in human lung cancer cells. 66th Annual Meeting of GA jointly with 11th Shanghai International Conference on Traditional Chinese Medicine and Natural Medicine, August 2018, Shanghai, China. 7. Coelho T, Inês M, Conceição I, Soares M, de Carvalho M, Costa J. Survival in transthyretin familial amyloid polyneuropathy. Spanish Hereditary Amiloidosis by TTR (hATTR) National Meeting, Setembro 2017, Madrid, Espanha. 8. Coelho T, Inês M, Conceição I, Soares M, de Carvalho M, Costa J. Clinical paradigms in treatment effectiveness for hereditary transthyretin amyloidosis. International Symposium on Amyloidosis. Kumamoto, Março de 2018, Kumamoto, Japão. 9. Costa JG, Fernandes A. S. Oxidative stress and the food contaminant Ochratoxin A. Ciência 2017 – Encontro com a Ciência e Tecnologia em Portugal, Julho 2017, Lisboa, Portugal. 10. Costa J. Redox modulation by MnTnHex-2-PyP in renal cancer: from etiology to progression. Sessões científicas CBIOS, ECTS-ULHT, Janeiro 2018, Lisboa, Portugal. 11. Costa JG. A Lusofonia, a Investigação Científica e o Cancro. 29º Colóquio da Lusofonia, Março 2018, Belmonte, Portugal. 12. Duarte D. Benefícios e Riscos de Medicamentos: Desafios e Oportunidades, Journal Club, INFARMED, I.P., Janeiro 2017, Lisboa, Portugal. 13. Duarte D. Marketing Authorisation in medicines market – MA Procedures and Future Challenges in Medicine's Regulation, Mestrado em Química Farmacêutica Industrial Bases de Dados, Patentes e Regulamentação, Seminário "Regulamentação sobre medicamentos", Universidade Coimbra, Janeiro de 2017, Coimbra, Portugal. 14. Duarte D. Regulamentação de Medicamentos - Jornadas Pedagógicas da Faculdade de Farmácia da Universidade de Lisboa (FFUL) – Uma visão no Futuro, Maio 2017, Lisboa, Portugal. 15. Duarte D. Novas áreas das Ciências Farmacêuticas: Interação Alimento-Medicamento - Jornadas Pedagógicas da Faculdade de Farmácia da Universidade de Lisboa (FFUL) – Uma visão no Futuro, Maio 2017, Lisboa, Portugal. 16. Duarte D. Nonclinical Support and the Role of the Juvenile Animal Toxicity Studies in CNS Paediatric Medicines, World Preclinical Congress, Cambridge Healthtech's Translational Strategies for CNS conference Preclinical Models for Cancer Immunotherapy and Combinations, Junho 2017, Boston, EUA. 17. Duarte D. Benefit-Risk Communication Strategies: The Patient as a Partner (session of the TRACK 06A – Safety and Pharmacovigilance) - Drug Information Association (DIA) 52nd Annual Meeting, Junho 2017, Chicago, EUA. 18. Duarte D. HTA and Orphan Medicinal Products, Session Chair at the Strategic Review and Learning Meeting of the Committee of Orphan Medicinal Products (Estonian Presidency), Setembro 2017, Lisboa, Portugal. 19. Duarte D. Regulamentação Europeia de medicamentos Pediátricos e medicamentos Órfãos. Training Programme in Pharmaceutical Medicine, UC "Regulatory Affairs", Universidade Aveiro, Setembro 2017, Lisboa, Portugal. 20. Duarte D. Rare diseases: Scientific and regulatory challenges worldwide - Regulatory Affairs in Emerging Markets conference (Informa), Outubro 2017, Praga, República Checa.

		<ol style="list-style-type: none"> 21. Duarte, D. Rare Diseases in the Era of Precision Medicine - Drug Information Association (DIA), 14th Japan Annual Meeting, Novembro 2017, Tóquio, Japão. 22. Duarte D. Rare diseases: Models, mechanisms and therapy development - Session Chair at the Rare Diseases Symposium "From research, a world of possibilities", INSA, Dezembro 2017, Lisboa, Portugal. 23. Edra B, Magalhães B, Silva M, Silva C, Costa MC. Formação e Conhecimento dos Enfermeiros sobre Resíduos Hospitalares e seus Riscos num Hospital Central – Semana de Investigação em Enfermagem, Julho de 2018, Porto, Portugal. 24. Edra B, Magalhães B, Maia C, Costa MC. Perceção dos riscos associados aos Resíduos Hospitalares pelos profissionais de saúde de um hospital central - XIII Congresso da Associação Portuguesa de Epidemiologia, Setembro, 2018, Lisboa, Portugal – Submissão aceite. 25. Fernandes A. "Comunicar Ciência à sociedade". Sessão científica CBIOS, Maio 2018, Lisboa, Portugal. 26. Fernandes AS, Rosado C. Comunicação oral no Workshop da Plataforma Ensino-Profissão da Ordem dos Farmacêuticos, Março de 2018, Lisboa, Portugal. 27. Filipe P, Macedo A, Santos de Almeida T, Reis S, Rosado C, Fonte P. A nanotechnological approach for topical administration of insulin for wound healing. Encontro com a Ciência e Tecnologia em Portugal, Julho 2018, Lisboa, Portugal. 28. Florindo M, Silva H, Rodrigues LM. Explorar o impacto da actividade muscular da perna na microcirculação periférica - Estudo Piloto. I Jornadas das Tecnologias da Saúde. HFAR – Polo Lisboa, Novembro 2017, Lisboa, Portugal. 29. Fonte P. Influence of freeze-drying in the stability and bioactivity of therapeutic proteins encapsulated into polymer nanoparticles, Lyotalk Europe 2018 Europe's Largest Conference in Freeze Drying/Lyophilization, 2018, Amsterdam, Holanda. 30. Garcia C, Rijo P. "Extraction and isolation of the cytotoxic 6,7-dehydroroleanone"; 2nd Training School COST CM1407, Setembro 2017, Lisboa, Portugal. 31. Garcia C, Monteiro CM, Saraiva L, Bessa C, Borozan A, Ntungwe E, Reis C, Afonso CAM, Rijo P. Improving the antitumor potential of 6,7-dehydroroleanone through Mitsunobu Reactions; UL Chemistry PhD Meeting (2ECQUL), Reitoria da Universidade de Lisboa, Dezembro 2017, Lisboa, Portugal. 32. Garcia C, Bessa C, Ntungwe E, Barasoain I, Estévez F, Roberto A, Pesic M, Saraiva L, Reis C, Rijo P. 6,7-Dehydroroleanone: Insights On Cell Death Targets. XLVIII Reunião Anual da Sociedade Portuguesa de Farmacologia (SPF), XXXVI Reunião de Farmacologia Clínica e XVII Reunião de Toxicologia. Faculdade de Medicina da Universidade de Lisboa, Fevereiro de 2018, Lisboa, Portugal. 33. Inês M, Coelho T, Conceição I, Soares M, de Carvalho M, Costa J. Real-world comparative treatment effectiveness in early-onset transthyretin familial amyloid polyneuropathy patients. 15ª Conferência Nacional de Economia da Saúde. Outubro 2017, Coimbra, Portugal. 34. Inês M, Coelho T, Conceição I, D'Uva TB, de Carvalho M, Costa J. Health-related quality of life in patients with transthyretin familial amyloid polyneuropathy in Portugal. 15ª Conferência Nacional de Economia da Saúde. Outubro 2017, Coimbra, Portugal. 35. Júlio A, Santos de Almeida T, Fonte P. Ionic liquids and polymeric nanoparticles hybrid systems as new tools for delivery of poorly soluble drugs, Sociedade Portuguesa de Farmacologia Meeting 2018, Fevereiro 2018, Lisboa, Portugal. 36. Júlio A, Caparica R, Fernandes AS, Saraiva N, Araújo MEM, Rosado C, Fonte P, Mota JP, Santos de Almeida T. Application of Ionic Liquids in Delivery Systems, Sessões CBIOS, Maio 2018, Lisboa, Portugal. 37. Louro JT, Rebelo-de-Andrade H. Targeting a multitasking dealer. Exploring the NS1-p85β interaction region as a potential influenza antiviral target. iMED international Conference 9.0, Outubro 2017, Lisboa, Portugal. 38. Marçalo J, Garcia C, Custódio L, Nicolai M, Reis C, Rodrigues MJ, Romagnoli A, Petruccioli E, Goletti D, Rodrigues LM, Faustino C, Fimia GM, Rijo P. Anti-inflammatory and anti-tubercular properties screening of natural products from Plectranthus species. 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Setembro 2017, Basel, Suíça. 39. Marçalo J, Garcia C, Nicolai M, Reis C, Faustino C, Rodrigues LM, Rijo P. Screening the dermatological potential of Plectranthus species components – antioxidant and inhibitory capacities over elastase, collagenase and tyrosinase. 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Setembro 2017, Basel, Suíça. 40. Perdigão J, Silva C, Diniz J, Pereira C, Machado D, Ramos J, Silva F, Brum C, Reis AJ, Macedo M, Scaini JL, Silva AB, Esteves L, Macedo R, Clemente S, Coelho E, Viegas S, Rabna P, Rodrigues A, Taveira N, Jordão L, Couto I, Pain A, McNerney R, Clark TG, von
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		<p>61. Sousa B. "Nutrição no doente oncológico" – Sessão Clínica "Encontro à Quarta", dirigida aos profissionais de saúde do Centro de Saúde Dr. Rui Adriano de Freitas, Fevereiro de 2018, Funchal, Portugal.</p> <p>62. Sousa B. "Educação alimentar em meio escolar – forma de prevenção?", III Colóquio "Educar para a Saúde e Bem-estar na Escola", Março de 2018, Funchal, Portugal.</p> <p>63. Sousa B. "Educação Alimentar em Meio Escolar", Fórum "Corpo a Mexer faz a Saúde Florescer", Abril de 2018, Santana, Portugal.</p> <p>64. Sousa B. "Modas e mitos alimentares – onde está a ética?", 15º Congresso Nacional de Bioética, Maio de 2018, Lisboa, Portugal.</p> <p>65. Sousa B. "Dieta Mediterrânica" na Sessão Clínica "Encontro à Quarta", Centro de Saúde Dr. Rui Adriano de Freitas, Maio de 2018, Funchal, Portugal.</p> <p>66. Sousa B. "Condições para a limitação de produtos prejudiciais à saúde nos espaços destinados à exploração de bares, cafetarias e bufetes pelas Instituições do Ministério da Saúde", Sessão Clínica do SESARAM, Maio de 2018, Funchal, Portugal.</p> <p>67. Sousa F, Cruz A, Fonte P, Pinto IM, Neves- Petersen MT, Sarmiento B. Stability and bioactivity study of bevacizumab-loaded PLGA nanoparticles towards its controlled release. 43rd International Conference on Micro and NanoEngineering, INL, Setembro 2017, Braga, Portugal.</p> <p>68. Sousa F, Cruz A, Fonte P, Pinto IM, Neves-Petersen MT, Sarmiento B. Study of biophysical interactions and bevacizumab bioactivity encapsulated into nanoparticles towards its controlled release, i3s Annual Meeting 2017, Novembro 2017, Póvoa do Varzim, Portugal.</p> <p>69. Tokunaga VK, Mirele CG, Oliveira CA, Escudeiro CC, Bloch LD, Sarruf FD, Sauce R, Parise-Filho R, Rosado C, Velasco MVR, Baby AR. Propriedades fotoprotectoras e fotoestabilizadoras da cafeína. Apresentação Oral, 27º Congresso Brasileiro de Cosmetologia, Maio de 2018, São Paulo, Brasil.</p>
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Poster	94	<p>1. Água RB, Branquinho R, Duarte MP, Maurício E, Fernando AL, Martins R, Fortunato E. Efficient coverage of ZnO nanoparticles on cotton fibres for antibacterial finishing using a rapid and low cost in situ synthesis. Materials Research Society Advancing Materials Improving the quality of life Fall Meeting & Exhibition, Hynes Convention Center e Sheraton Boston Hotel, 26 de Novembro a 1 de Dezembro, Boston, Massachusetts, EUA. 2017</p> <p>2. Almeida M, A. Júlio, B. Mendes. Influência do Industrial Colour-Coding na Adesão à Terapêutica, Congresso Nacional dos Farmacêuticos'17: Medicamentos para todos, 13-14 Outubro, Lisboa. 2017</p> <p>3. Andrade JM, Marisa Nicolai, Catarina Reis, Célia Faustino, Carlos A. M. Afonso, Gian Maria Fimia and Patrícia Rijo. Halimane diterpenes from <i>Plectranthus ornatus</i> Codd. against <i>Mycobacterium tuberculosis</i> H37Rv. 2nd UL Chemistry PhD Meeting (2ECQUL), Lisbon, 4th – 5th December 2017.</p> <p>4. Costa J, Saraiva N, Guerreiro PS, Castro M, Batinic-Haberle I, Oliveira NG, Fernandes AS. Viability and migration of human renal cancer cells upon treatment with a superoxide dismutase mimic. [P-03-01-01]. 53rd Congress of the European Societies of Toxicology (EUROTOX), Bratislava, Slovakia. 2017</p> <p>5. Duarte, D., Use of juvenile animal studies to support oncology medicine development in children - Drug Information Association (DIA) Annual Meeting, Tokyo, November 2017.</p> <p>6. Florindo M, Silva H, Rodrigues LM. Explorar o impacto da actividade muscular da perna na microcirculação periférica - Estudo Piloto. I Jornadas das Tecnologias da Saúde. HFAR – Polo Lisboa. 18 Novembro, Lisboa, Portugal. 2017</p> <p>7. Fonte P, António J. Almeida, Salette Reis, Bruno Sarmiento, Effect of freezing and annealing steps in the bioactivity of protein-loaded PLGA nanoparticles upon freeze-drying, 21st International Symposium on Microencapsulation, Faro, Portugal, 2017.</p> <p>8. Garcia C, Catarina Oliveira Silva, Carlos M. Monteiro, Marisa Nicolai, Diogo Ladeiras, Ana Viana, Joana Marçalo, Isabel Barasoain, Tijana Stankovic, José Quintana, Inmaculada Hernández, Ignacio González, Francisco Estévez, Carlos A.M. Afonso, Catarina Reis, Ana Díaz Lanza, Milica Pesic, Patrícia Rijo; "Unveiling the mechanism of action of the abietane diterpene 6,7-dehydroroleanone"; EFMC-YMCS 2017, 4th EFMC Young Medicinal Chemist Symposium, Vienna, Austria - August 31 - September 1, 2017.</p> <p>9. Garcia C, Carlos M. Monteiro, Lucília Saraiva, Cláudia Bessa, Anastasia Boroza, Epole Ntungwe, Catarina Reis, Carlos A.M. Afonso, Patrícia Rijo; Improving the antitumor potential of 6,7-dehydroroleanone through Mitsunobu Reactions; UL Chemistry PhD Meeting (2ECQUL), Reitoria da Universidade de Lisboa, Lisboa, 4-5 December 2017.</p> <p>10. Garcia C, Carlos M. Monteiro, Lucília Saraiva, Cláudia Bessa, Anastasia Boroza, Epole</p>
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Marçalo J, Catarina Garcia, Marisa Nicolai, Catarina Reis, Célia Faustino, Luís Monteiro Rodrigues, Patrícia Rijo. Screening the dermatological potential of <i>Plectranthus</i> species components – antioxidant and inhibitory capacities over elastase, collagenase and tyrosinase. 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Basel, Switzerland, September 3rd – 7th 2017.</p> <p>14. Maurício E, Maria Paula Duarte, Henrique Niza, Ana Lucía Morocho-Jácome, Vanessa Martin, Marcella Loebler, Ana Sofia Cruz, Margarida Gonçalves, Luís Monteiro Rodrigues, Catarina Rosado. In vivo assessment of the wound healing and antioxidant capacity of propolis formulations in humans. Gordon Conference- Barrier Function of Mammalian Skin, Waterville Valley, NH, USA, 13-18 Agosto, 2017.</p> <p>15. Mónica I, Teresa Coelho, Isabel Conceição, Filipa Duarte-Ramos, Mamede de Carvalho, João Costa. 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* These indicators include the contribution of researchers from CBIOS as well as from other ECTS collaborators, eventually integrated into other research units.

PhD Thesis Publications

Type of publication	Author and Title	Course	Supervisor
Phd Thesis (4)	Raquel Maria Rodrigues dos Santos "Calidad del aire interior en la habitación del bebé: Estudio de las concentraciones de compuestos orgánicos volátiles"	Ciências da Saúde (U. Alcalá)	Ana Sofia Fernandes/ Liliana Mendes
	Rogério Paulo da Silva Nunes "Modelo de prevenção e vigilância En salud ambiental en Portugal Enfermedades oncológicas"	Ciências da Saúde (U. Alcalá)	Cipriano Justo/ Margarida Estudante
	Filipe Jorge da Silva Pereira "Lamiaceae extracts and compounds for topical application through nano delivery systems"	Ciências da Saúde (U. Alcalá)	Patrícia Rijo/ Catarina Reis
	João Guilherme Feliciano Costa "Redox modulation by sod mimics in renal Cancer: from etiology to progression"	Ciências da Saúde (U. Alcalá)	Ana Sofia Fernandes/ Nun Oliveira

Scientific publications

Type	Number produced	REFERENCE (Authors, Title, Publication...)
ABSTRACTS, with revision; national	20	<ol style="list-style-type: none"> Garcia C, Monteiro CM, Saraiva L, Bessa C, Borozan A, Ntungwe E, Reis C, Afonso CAM, Rijo P; Improving the antitumor potential of 6,7-dehydroroleanone through Mitsunobu Reactions; 2ECQUL Book of abstracts 2017. Inês M, Coelho T, Conceição I, Bago D'Uva T, de Carvalho M, Costa J. Health-related quality of life in patients with transthyretin familial amyloid polyneuropathy in Portugal. Livro de resumos 15º CNES, 2017, pg 71 Inês M, Coelho T, Conceição I, Duarte-Ramos F, de Carvalho M, Costa J. Prevalence of transthyretin familial amyloid polyneuropathy in Portugal during year 2016. Livro de resumos 15º CNES, 2017, pg 71-72. Inês M, Coelho T, Conceição I, Ferreira L, de Carvalho M, Costa J. Transthyretin familial amyloid polyneuropathy impact on health-related quality of life. Livro de resumos 15º CNES, 2017, pg 56. Inês M, Coelho T, Conceição I, Soares M, de Carvalho M, Costa J. Real-world comparative treatment effectiveness in early-onset transthyretin familial amyloid polyneuropathy patients. Livro de resumos 15º CNES, 2017, pg 57-58. Mota AH, Rijo P, Molpeceres J, Ascensão L and Reis CP; Lipidic-Based Nanocarriers As Potential Skin Delivery Systems; 21st International Symposium on Microencapsulation Book of abstracts 2017. pp 27-29. Ntungwe N E, Marçalo J, Garcia C, Reis C, Teodósio C, Oliveira C, Oliveira C, Roberto A, Rijo P; Cytotoxic Lead molecule search: Cytotoxicity and general toxicity of Seven <i>Plectranthus</i> species; 2ECQUL Abstracts Book 2017. Saramago P, Inês M, Saraiva F. Cost-effectiveness Analysis of Crizotinib for Untreated Anaplastic Lymphoma Kinase-Positive Advanced Non-Small-Cell Lung Cancer in Portugal. Livro de resumos 15º CNES, 2017, pg 69. Sousa B. Food Education Program and Obesity in children. Livro de resumos da 5ª Bienal de Cardiologia da Madeira 2017. Faria R, Sousa B. Adherence to the Mediterranean Food Pattern in children from the 3rd grade of primary schools of Sintra. Acta Portuguesa de Nutrição 2018; pp13. Faria R, Sousa B. Anthropometric and nutritional status evaluation of children from the 3rd grade of primary schools of Sintra. Acta Portuguesa de Nutrição 2018;13. Garcia C, Bessa C, Ntungwe E, Barasoain I, Estévez F, Roberto A, Pesic M, Saraiva L, Reis C, Rijo P. 6,7-Dehydroroleanone: Insights On Cell Death Targets. Livro de abstracts da XLVIII Reunião Anual da Sociedade Portuguesa de Farmacologia (SPF), 2018. Morgado S, Duarte I, Sousa B. A vulnerabilidade do excesso de peso nas crianças. Livro de resumos do 15º Congresso Nacional de Bioética 2018. Ntungwe N E, Garcia C, Marçalo J, Teodósio C, Oliveira C, Oliveira C, Roberto A, Rijo P. Isolation and cytotoxicity study of 7α-Acetoxy-6β-hydroxyrooleanone from <i>Plectranthus hadiensis</i>. Chemistry at ULisboa (3ECQUL). Book of abstracts. 2018. Ntungwe N E, Garcia C, Marçalo J, Teodósio C, Oliveira C, Oliveira C, Roberto A, Rijo P. Isolation and antitumor activity of 7α-Acetoxy-6β-hydroxyrooleanone from <i>Plectranthus hadiensis</i>. 10th iMed.ULisboa Postgraduate Students Meeting and 3rd i3DU Meeting Book of abstracts. 2018. Paseto, T. R. P. Filipe, C. Rosado, P. Rijo, L. M. Rodrigues, P. M. Maia Campos, Rodrigues, P. M. Maia Campos, P. Fonte, Optimization of nanostructured lipid carriers by solvent evaporation double emulsion technique for topical drug delivery. Abst Book. XLVIII Reunião Anual da Sociedade Portuguesa de Farmacologia (SPF), XXXVI 2018. Rijo P, Bessa C, Soares J, Raimundo L, Loureiro JB, Gomes C, Reis F, Santos D, Chaudhuri SR, Kazanietz MG, Gonçalves J, Simões MF, Saraiva L. New selective activator of PKCδ with promising application in colon cancer therapy. Chemistry at ULisboa (3ECQUL), 3rd Meeting of the CQUL (3ECQUL) Abstract Book. 2018. Sousa B, Duarte I. Modas e mitos alimentares – onde está a ética?. Livro de resumos do 15º Congresso Nacional de Bioética 2018. Sousa, B. Evolução antropométrica e da composição corporal em indivíduos em perda de peso, Rev Port Endocrinol Diabetes Metab 2018; 13(1):70. Venda B, Oliveira B, Vasconcelos E, Duarte I, Sousa B. Alergias e intolerâncias alimentares: questões éticas numa unidade de restauração. Livro de resumos do 15º Congresso Nacional de Bioética 2018.

ABSTRACTS, with revision; international	35	<ol style="list-style-type: none"> 1. Costa JG, Nuno Saraiva, Patrícia S. Guerreiro, Matilde Castro, Ines Batinic-Haberle, Nuno G. Oliveira, Ana S. Fernandes. (). Viability and migration of human renal cancer cells upon treatment with a superoxide dismutase mimic. <i>Toxicology Letters</i> 2017. 280, Supp 1, Page S112. 2. Florindo M, Silva H, Rodrigues LM. Studying in vivo the influence of isometric contraction in human vascular physiology. <i>Biomed Biopharm Res</i>, 2017; (14) 2:307. DOI: 10.19277/bbr.14.2.169 2017 3. Inês M, Coelho T, Conceição I, Saramago P, de Carvalho M, Costa J. Life expectancy and costs of transthyretin familial amyloid polyneuropathy. <i>Value in Health</i>, Volume 20 , Issue 9 , A553. DOI: https://doi.org/10.1016/j.jval.2017.08.875 4. Inês M, Coelho T, Conceição I, Borges M, de Carvalho M, Costa J. Costs associated with transthyretin familial amyloid polyneuropathy progression. <i>Value in Health</i>, Volume 20 , Issue 9 , A553 - A554. DOI: https://doi.org/10.1016/j.jval.2017.08.880 5. Macedo C., Nunes C., Lima A., Ferreira R., Sousa I., Raymundo A. Rheological Evaluation of Bread Dough Grown From Fermented Whey. <i>Iberio2017 Book of abstracts</i>, 2017. 107. 6. Marçalo J, Catarina Garcia, Luísa Custódio, Marisa Nicolai, Catarina Reis, Maria João Rodrigues, Alessandra Romagnoli, Elisa Petruccioli, Delia Goletti, Luís Monteiro Rodrigues, Célia Faustino, Gian Maria Fimia, Patrícia Rijo. (2017). Anti-inflammatory and anti-tubercular properties screening of natural products from <i>Plectranthus</i> species. <i>Planta Medica International Open (Thieme) PMIO</i> 2017; 4(S-01): S1-S202. DOI 10.1055/s-0037-1608136 7. Marçalo J, Catarina Garcia, Marisa Nicolai, Catarina Reis, Célia Faustino, Luís Monteiro Rodrigues, Patrícia Rijo. Screening the dermatological potential of <i>Plectranthus</i> species components – antioxidant and inhibitory capacities over elastase, collagenase and tyrosinase. (2017). <i>Planta Medica International Open (Thieme) PMIO</i> 2017; 4(S-01): S1-S202. DOI 10.1055/s-0037-1608568 8. Raymundo A., Graça C., Fradinho P., Nunes M.C., Batista A.P., Sousa I.. Microalgae biomass as a tool for food design. <i>AlgaeEurope2017 Abstract Book</i>,. 2017 9. Rocha C, Silva H, Ferreira H, Rodrigues LM. Microcirculatory response to in vivo massage in the lower limb. <i>Bordeaux VIVA Winter School - XXXIII LIAC Meeting</i>. <i>Biomed Biopharm Res</i>, 2017; (14) 2:287-309. DOI: 10.19277/bbr.14.2.169. 10. Silva ER, Olga Ferreira, Patrícia Rijo, João C. Bordado and Maria J. Calhorda. Antifouling Eco-Filters for Water Bio-Econtamination. <i>Proceedings</i> 2018, 2(5), 181; doi:10.3390/ecws-2-04950 11. Silva H, Gadeau AP, Rodrigues LM. About the laser Doppler flowmetry signal oscillatory properties of a murine models of diabetes. <i>Biomed Biopharm Res</i> 2017, (14) 2:307. DOI: 10.19277/bbr.14.2.169 12. Silva H, Gadeau AP, Rodrigues LM. Exploring the murine microvascular response to hyperoxia with the wavelet transform. <i>Biomed Biopharm Res</i> 2017; (14) 2:308. DOI: 10.19277/bbr.14.2.169 13. Almeida N, Guia Carrara, Ana Fernandes, Maddy Parsons, Geoffrey Smith, Nuno Saraiva, OP-6 - The human Golgi anti-apoptotic protein induces cell invasion by an H2O2-dependent mechanism, <i>Free Radical Biology and Medicine</i>, Volume 120, Supplement 1, 2018, Page S31. 14. Calixto L, Mirco A, Falcao F. Identification of high-alert medication for paediatric patients in a central hospital. March 2018. <i>European Journal of Hospital Pharmacy Abstract Book</i>, 2018. 25(Suppl 1):A218.1-A218. DOI:10.1136/ejhpharm-2018-eahpconf.469 15. Inês M, Coelho T, Conceição I, Soares M, de Carvalho M, Costa J. Clinical paradigms in treatment effectiveness for hereditary transthyretin amyloidosis. <i>XVIth ISA Abstract Book</i>, 2018, pg 66. 16. Costa J Saraiva, Patrícia Rijo, Nuno Almeida, Catarina Reis, Ana Sofia Fernandes. Anti-tumor properties of the redox-active compound Parvifloron D in breast cancer cells. <i>Free Radical Biology and Medicine</i> 2018. 120, S117-S118. 17. Costa J. Redox modulation by MnTnHex-2-PyP in renal cancer: from etiology to progression, in <i>Proceedings - CBIOS Scientific Sessions – 2018. Biomed. Biopharm. Res.</i> 2018. (15)1:115-120. DOI: 10.19277/bbr.15.1.180 18. Florindo M, Silva H, Rodrigues LM. Assessing skin microcirculation reactivity during dorsiflexion in the standing position. <i>V SPCC Congress Abstracts Book</i>, PO23, p. 28. 2018. DOI: 10.19277/bbr.15.1.181
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Mauricio E, Rosado C, Bom S, Vasconcelos L: Efficiency of Nisin as Preservative in Cosmetics and Topical Products. <i>Cosmetics</i> 2017;4(4):41.</p> <p>15. Morocho-Jácome AL , Bresaola MD , Carvalho JCM, Nicolai M, Rosado C , Baby AR. Carbohydrates in <i>Ankistrodesmus braunii</i> biomass cultivated in tubular photobioreactors. <i>Biomed Biopharm Res</i>, 2017 (14) 2: 242-248.</p> <p>16. Morocho-Jácome, A.L., Dapievi Bresaola, M.D., Carvalho, J.C.M., Nicolai, M., Rosado, C., & Baby, A.R.. Carbohydrates in <i>Ankistrodesmus braunii</i> biomass cultivated in tubular photobioreactors. <i>Biomed Biopharm Res</i>, 2017 (14) 2, 242-248.</p> <p>17. Mota AH, Patrícia Rijo, Jesús Molpeceres, Catarina Pinto Reis “Broad overview of engineering of functional nanosystems for skin delivery”, <i>Int J Pharm</i>. 2017; 532(2):710-728.</p> <p>18. 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* These indicators include the contribution of researchers from CBIOS as well as from other ECTS collaborators, eventually integrated into other research units.

Other meters of scientific character (Clarivate Web of Science)

Figure 2. Publications CBIOS per research field between 2013-2017

Field: Research Areas	Record Count	% of 156	Bar Chart
PHARMACOLOGY PHARMACY	90	57.692 %	<div></div>
BIOCHEMISTRY MOLECULAR BIOLOGY	73	46.795 %	<div></div>
TOXICOLOGY	43	27.564 %	<div></div>
CHEMISTRY	37	23.718 %	<div></div>
DERMATOLOGY	37	23.718 %	<div></div>
CELL BIOLOGY	36	23.077 %	<div></div>
SCIENCE TECHNOLOGY OTHER TOPICS	31	19.872 %	<div></div>
ONCOLOGY	28	17.949 %	<div></div>
MATERIALS SCIENCE	22	14.103 %	<div></div>
PHYSIOLOGY	20	12.821 %	<div></div>
INFECTIOUS DISEASES	17	10.897 %	<div></div>
REPRODUCTIVE BIOLOGY	17	10.897 %	<div></div>
MICROBIOLOGY	16	10.256 %	<div></div>
AGRICULTURE	15	9.615 %	<div></div>
ENGINEERING	15	9.615 %	<div></div>

Figure 3. Number of papers of CBIOS integrated members (left) and citations (right) in the period 2013-2018

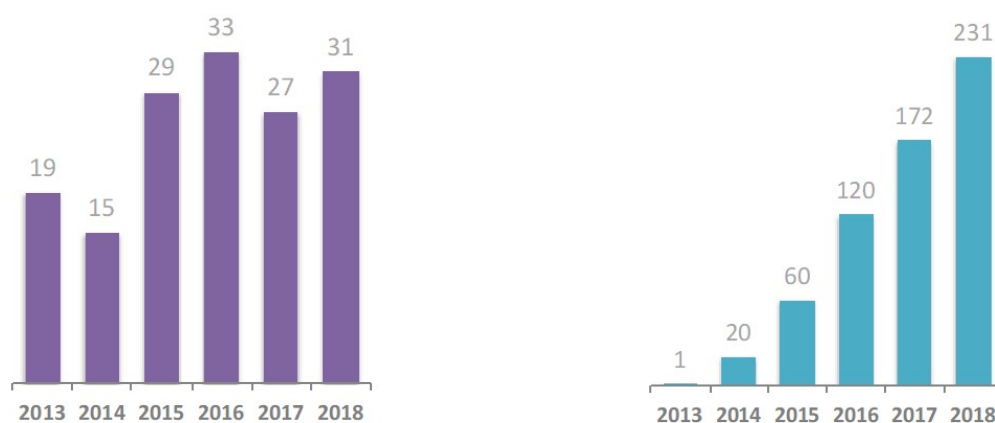
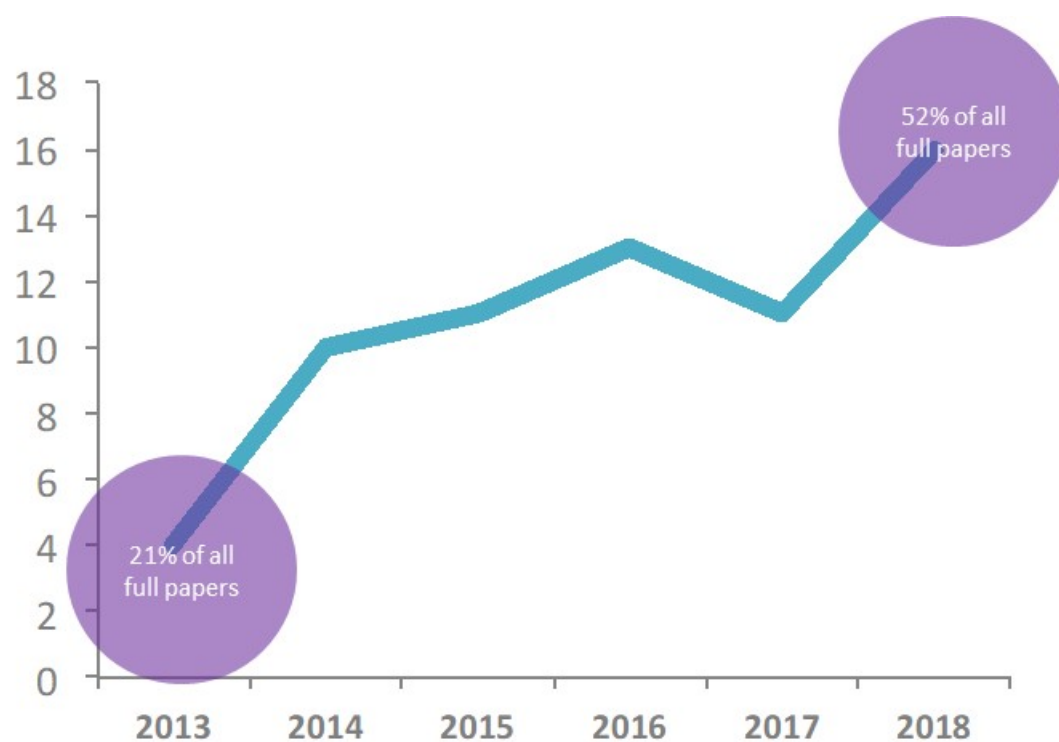


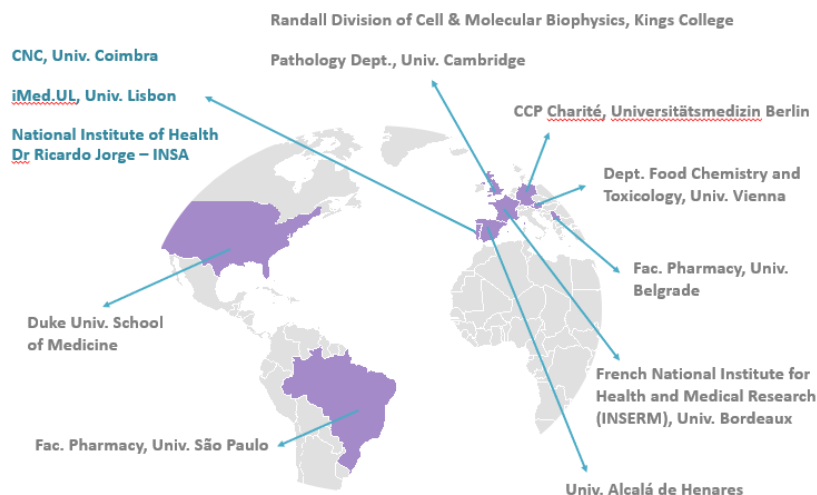
Figure 4. Current evolution of the quality of papers published by CBIOS integrated members in Q1 journals



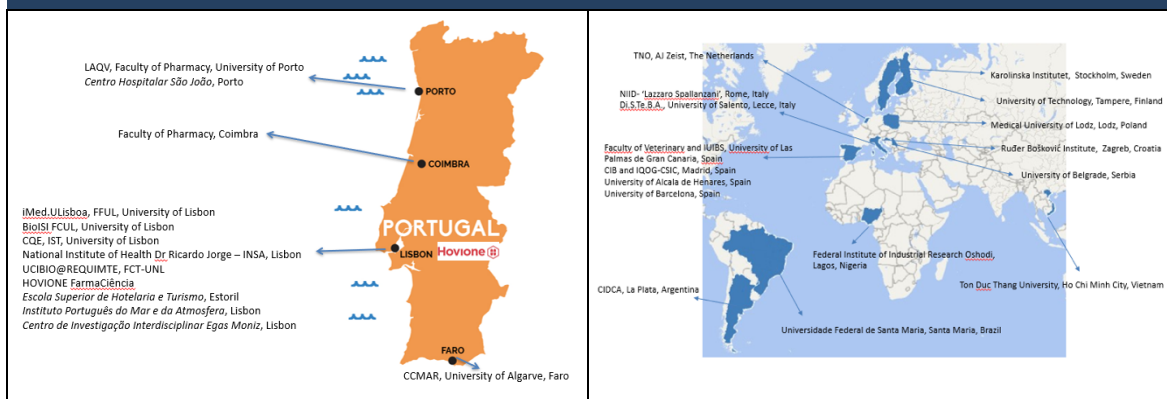
National and International Scientific Network

Figure 5. Collaborative networks of the various groups that integrate the CBIOS (PT Pharmacology and Therapeutics; PFS Phytochemistry and Food Sciences; DDS Drug Delivery Systems)

PT - Most relevant Scientific Networks



PFS – National and International Scientific Networks



DDS – National and International Scientific Networks

