		1 Nove / Decision - 2 de 1 A	Institute of Molecular Sciences
		Nome/Designação do LA Acrónimo do LA	IMS
		3. Referência FCT	LA/P/00056/2020
	LA	4. Coordenador do LA 5. Data da atribuição do estatuto de LA	José Nuno Canongia Lopes; jnlopes@tecnico.ulisboa.pt NA
		Data da atribuição do estatuto de LA Webpage	NA NA
		7. Classificação FCT	4,25
	Unidade de I&D Principal	8. Financiamento Complementar FCT Total 1. Nome/Designação da Unidade de I&D	1200 k€ Centro de Química Estrutural
		Acrónimo	CQE
A - Caracterização do LA		3. Personalidade jurídica	IST-ID
		4. Coordenador	José Nuno Canongia Lopes; jnlopes@tecnico.ulisboa.pt
		5. Contactos gerais	https://cqe.tecnico.ulisboa.pt/
		6. Webpage	https://cge.tecnico.ulisboa.pt/
		7. Classificação FCT 8. Financiamento Base FCT Total	Excelente 3258 k€
		9. Financiamento Programático FCT Total	940 k€
	Unidade de Gestão Principal	1. Nome/Designação	IST-ID, Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento
	omade de destao rincipal	2. Personalidade jurídica	IST-ID, Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento, instituição privada sem fins lucrativos
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B - Constituição da equipa de investigação do LA	N.º de investigadores integrados com PhD N.º de ETIs integrados		270 NA
	N.º de técnicos		4
	N.º de doutorandos		100
	N.º de outros colaboradores com PhD N.º de outros colaboradores sem PhD		50 120
<u> </u>	N.× de outros colaboradores sem PhD		120
C - Missão do LA	1. Mission Statement/Objetivos principais		The Institute of Molecular Sciences, IMS, is composed of three R&D units, CQE, CQC and CIQUP, that excel in the scientific
			area of chemical sciences. Unlike R&D models that are mainly focused on a single facet or application of the chemical
			sciences, the three R&D units of IMS are involved in a plethora of sub-areas ranging from single-molecule processes and catalysis to functional materials and soft matter, from specialty chemicals to heavy-duty commodities, from
			environmental concerns to health-related matters, from fundamental to applied research, from issues related to the
			awareness of the Chemical Sciences to their communication. The impact of this research and its socioeconomic value is
			well evidenced by the multiple patents applications over the last 5 years and creation of +10 spin-off companies. The multi-disciplinarity and inter-disciplinarity character of IMS enables the development of both blue-sky and applied
			research lines aimed to provide solutions of specific societal challenges that can be confronted using chemistry and
			molecular-based tools. Research is organized around five Thematic Lines (TLs): MATsoft (Materials, soft matter and
			nanoscience); MEDlife (Medicinal, biological and biophysical chemistry for health); H2Oenv (Technologies for water, environment and energy); SYNcat (Synthesis, catalysis and chemical processes); and CHEMfocus (Fundamentals and
	<u> </u>		environment and energy); STNCat (Synthesis, Catalysis and Chemical processes); and CHEMIOCUS (Fundamentals and
	1. Área Científica 1		Materials, soft matter and nanosciences
D - Áreas Científicas	Área Científica 2 Área Científica 3		Medicinal, biological and biophysical chemistry for Health Technologies for water and environment
	Area Científica 3 Área Científica 4	<u> </u>	Synthesis, catalysis and chemical processes
	5. Área científica 5		Fundamentals and Awareness
	L		
	1. Linha Temática 1	1. Designação da LT	MATsoft – Materials, soft matter and nanosciences
		2. Coordenador da LT	ministra materially soft material and manostrates
		3. Contactos do Coordenador	
			The TL Materials, Soft Matter and Nanosciences (MATsoft) gathers complementary and multidisciplinary
			expertise from dynamic research groups in the three research units of IMS, that work in different areas of materials
			chemistry, nanosciences, materials science and engineering, strongly underpinned in powerful research
F - Linhas Temáticas			infrastructures and instrumental platforms. MATsoft researchers address a wide range of themes, not only from a fundamental curiosity-driven approach, deeply rooted in molecular sciences, but also targeting applications,
			transfer of knowledge, intellectual property and response to direct societal challenges. These valences will be
			strongly valorised thanks to the IMS ecosystem and scientific synergies among the different research groups,
			allowing to reach highly competitive critical mass and top international indicators. One important added value of
			this cross fertilization through IMS is a unique interdisciplinary vision supported by advanced research in physical chemistry, computational chemistry, materials science and myconanotechnology embedded with Artificial
		4. Descrição da LT	Intelligence techniques.
	2. Linha Temática 2	1. Designação da LT	MEDlife – Medicinal, biological and biophysical chemistry for Health
		2. Coordenador da LT	
		3. Contactos do Coordenador	
1		Contactos do Coordenador Descrição da LT	MEDlife researchers tackle a wide variety of topics in HEALTH, firmly grounded upon a range of
1			multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical
•			multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biochemistry, biophysics, chemical toxicology, and
1			multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biochemistry, biophysics, chemical toxicology, and pharmacology. Acting in all stages of drug discovery from therapeutic concepts to clinical translation, MEDlife
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1			multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biochemistry, biophysics, chemical toxicology, and pharmacology. Acting in all stages of drug discovery from therapeutic concepts to clinical translation, MEDlife researchers identify and validate therapeutic targets, explore biological pathways, validate early disease biomarkers, study ADME-Tox properties, improve the activity and/or bioavailability of active pharmaceutical ingredients, optimize lead compounds, design and synthesize drug candidates, and support clinical trials. MEDlife
,		4. Descrição da LT	multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biolopelistry, biolophysics, chemical toxicology, and pharmacology. Acting in all stages of drug discovery from therapeutic concepts to clinical translation, MEDlife researchers identify and validate therapeutic targets, explore biological pathways, validate early disease biomarkers, study ADME-Tox properties, improve the activity and/or bioavaliability of active pharmaceutical ingredients, optimize lead compounds, design and synthesize drug candidates, and support clinical trials. MEDlife researchers advance knowledge and share breakthroughs in high-impact scientific publications in all fields mentioned above. However, in an area known for the long and expensive path from therapeutic concepts to approved medicines, MEDlife members also value intellectual property (IP) protection as a means to translate practical solutions to health problems
	3. Linha Temática 3	4. Descrição da LT 1. Designação da LT	multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biochemistry, biophysics, chemical toxicology, and pharmacology. Acting in all stages of drug discovery from therapeutic concepts to clinical translation, MEDlife researchers identify and validate therapeutic targets, explore biological pathways, validate early disease biomarkers, study ADME-Tox properties, improve the activity and/or bioavailability of active pharmaceutical ingredients, optimize lead compounds, design and synthesize drug candidates, and support clinical trials. MEDlife researchers advance knowledge and share breakthroughs in high-impact scientific publications in all fields mentioned above. However, in an area known for the long and expensive path from therapeutic concepts to approved medicines, MEDlife members also value intellectual property (IP) protection as a means to translate
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	3. Linha Temática 3	4. Descrição da LT 1. Designação da LT 2. Coordenador da LT	multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biolopelistry, biolophysics, chemical toxicology, and pharmacology. Acting in all stages of drug discovery from therapeutic concepts to clinical translation, MEDIffe researchers identify and validate therapeutic targets, explore biological pathways, validate early disease biomarkers, study ADME-Tox properties, improve the activity and/or bioavailability of active pharmaceutical ingredients, optimize lead compounds, design and synthesize drug candidates, and support clinical trials. MEDIfie researchers advance knowledge and share breathroughs in high-impact scientific publications in all fields mentioned above. However, in an area known for the long and expensive plath from therapeutic concepts to approved medicines, MEDIfie members also value intellectual property (IP) protection as a means to translate practical solutions to health problems 12 Denv - Technologies for water and environment 14 Denv brings an integrated multidisciplinary approach to tackle the technological challenges of the waterenvironment-energy nexus. Researchers with a strong background on chemistry, materials science, and engineering will create synegistic efforts to develop innovative solutions and deliver cutting edge technologies
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	3. Linha Temática 3	4. Descrição da LT 1. Designação da LT 2. Coordenador da LT	multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biochemistry, biophysics, chemical toxicology, and pharmacology. Acting in all stages of drug discovery from therapeutic concepts to clinical translation, MEDlife researchers identify and validate therapeutic targets, explore biological pathways, validate early disease biomarkers, study ADME-Tox properties, improve the activity and/or bioavaliability of active pharmaceutical ingredients, optimize lead compounds, design and synthesize drug candidates, and support clinical trials. MEDlife researchers advance knowledge and share breakthroughs in high-impact scientific publications in all fields mentioned above. However, in an area known for the long and expensive path from therapeutic concepts to approved medicines, MEDlife members also value intellectual property (IP) protection as a means to translate practical solutions to health problems 142 Denv – Technologies for water and environment 142 Denv – Technologies for water and environment 142 Denv sings an integrated multidisciplinary approach to tackle the technological challenges of the waterenvironment-energy nexus. Researchers with a strong background on chemistry, materials science, and engineering will create synergistic efforts to develop innovative solutions and deliver cutting edge technologies to address the European Green Deal Challenge, and to make Europea the Create synergistic efforts to develop innovative solutions and deliver cutting edge technologies in particular this Tail mais at 1 journing out forefort research, through strong national and international
	3. Linha Temática 3 3. Linha Temática 4	Descrição da LT Designação da LT Coordenador da LT Contactos do Coordenador Descrição da LT Descrição da LT Designação da LT Designação da LT	multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biochemistry, biophysics, chemical toxicology, and pharmacology. Acting in all stages of drug discovery from therapeutic concepts to clinical translation, MEDlife researchers identify and validate therapeutic tragets, explore biological pathways, validate early disease biomarkers, study ADME-Tox properties, improve the activity and/or bioavaliability of active pharmaceutical ingredients, optimize lead compounds, design and synthesize drug candidates, and support clinical trials. MEDlife researchers advance knowledge and share breakthoughs in high-impact scientific publications in all fields mentioned above. However, in an area known for the long and expensive path from therapeutic concepts to approved medicines, MEDlife members also value intellectual property (IP) protection as a means to translate practical solutions to health problems 1420env – Technologies for water and environment 1420env brings an integrated multidisciplinary approach to tackle the technological challenges of the waterenvironment-energy nexus. Researchers with a strong background on chemistry, materials science, and engineering will create synergistic efforts to develop innovative solutions and deliver cutting edge technologies to address the European Green Deal Challenge, and to make Europe the first climate neutral continent by 2050. In particular this Tt aims at I) carrying out forefront research, through strong national and international
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		Descrição da LT Designação da LT Coordenador da LT Contactos do Coordenador Descrição da LT Descrição da LT Designação da LT Designação da LT	multidisciplinary skills that encompass physical and computational approaches, synthetic and analytical chemistry, structural analysis, biological chemistry, biotephistry, and biotephistry, and biomarkers, study ADME-Tox properties, improve the activity and/or bioavaliability of active pharmaceutical ingredients, optimize lead compounds, design and synthesize drug candidates, and support clinical trials. MEDlife researchers advance knowledge and share breakthroughs in high-impact scientific publications in all fields mentioned above. However, in an area known for the long and expensive path from therapeutic concepts to approved medicines, MEDlife members also value intellectual property (IP) protection as a means to translate practical solutions to health problems 12 Denv - Technologies for water and environment 12 Denv - Technologies for water and environment 14 Zoenv brings an integrated multidisciplinary approach to tackle the technological challenges of the waterenvironment-energy nexus. Researchers with a strong background on chemistry, materials science, and engineering will create synergistic efforts to develop innovative solutions and deliver cutting edge technologies to address the turopean Green Del Challenge, and to make Europea the first climate neutral continent by 2050. In particular this TL aims at i) carrying out forefront research, through strong national and international cooperation, ii) conducting advanced training on those subjects, and iii) play a major role in technology transfer as part of its achievements. H2 Denv research is structured according to three strategic axes:
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