

*Curriculum Vitae*  
*of*  
*Leandro Miguel de Oliveira Lourenço*

Leandro Miguel de Oliveira Lourenço, was born in Puerto Cabello, Venezuela, on January 7, 1984.

Institutional address: Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal.

Phone: 00351 91 566 72 37

E-mail: leandrolourenco@ua.pt

### **1 Academic/Professional education and degrees**

Jul 16 - Present Principal Investigator (PI) of the FCT project PTDC/QEQ-SUP/5355/2014, Department of Chemistry, QOPNA, University of Aveiro, Portugal.

Jul 15 - Jun 16 Process Chemist in BIAL - Portela & C<sup>a</sup>., S.A, Pharma Industry, São Mamede do Coronado, Trofa - Porto, Portugal.

May 14 - May 15 Research BI grant on Metalloligands and coordinatively unsaturated metal centres for the design of novel metal-organic frameworks (Research fellowship reference: BI(M)\_EXPL/QEQ-QIN/0199/2013), Department of Chemistry and CICECO, University of Aveiro, Portugal.

Jan 10 - Dec 13 Ph.D in Chemistry (reference: SFRH/BD/64526/2009), Department of Chemistry, University of Aveiro, Portugal.  
Supervisor: Dr. João Paulo Costa Tomé; Co-supervisors: Prof. Maria G. P. M. S. Neves and Prof. José A. S. Cavaleiro.

Jan 09 - Dec 09 Research BI grant on glycoporphyrins (Research fellowship reference: BI/UI55/4402/2009), Department of Chemistry and QOPNA, University of Aveiro, Portugal.

Oct 07 - Sep 08 Bologna Master Degree in Chemistry, Scientific Field – Chemical and Environmental Control, Department of Chemistry, Faculty of Sciences and Technology of University of Coimbra (final mark: 16 out of 20).

Oct 02 - Jul 07 Academic Degree in Industrial Chemistry, Scientific Field – Chemical Quality Control, Department of Chemistry, Faculty of Sciences and Technology of University of Coimbra (final mark: 14 out of 20).

### **2 Teaching activities**

Sep 11 – Dec 11 Monitor of Laboratory of Organic Chemistry and Physicochemical classes at the Chemistry Department, University of Aveiro.

Fev 10 – Jul 10 Monitor of Laboratory of Bioorganic Chemistry classes at the Chemistry

Department, University of Aveiro.

Summer 2009 Orientation of secondary school students on the Summer Academy about Organic Chemistry at Chemistry Department of the University of Aveiro.

### 3 Supervising experience

#### 3.1 Arguer of academic evaluation thesis

1. Arguer of Master Thesis of Nadia Alexandra Esteves Santos, entitled “Synthesis and evaluation of new pyrazoles, glycosylpyrazoles and rutheniumpyrazoles for antioxidant and antitumoral activity”, Chemistry Department of the University of Aveiro (Room 29.1.3.2), Aveiro (Portugal), July 27, 2017.

#### 3.2 Supervisor of scientific research fellows and other academic activities

1. Supervising experience of the research fellow of Joana Maria Duarte Calmeiro (BI/UI51/7965/2017 in FCT project PTDC/QEQ-SUP/5355/2014), Department of Chemistry of the University of Aveiro, Aveiro (Portugal), October 9, **2017** to June 30, **2019**.
2. Supervising experience of the research fellow of Sara Raquel Duarte Gamelas (BI/UI51/7966/2017 in FCT project PTDC/QEQ-SUP/5355/2014), Department of Chemistry of the University of Aveiro, Aveiro (Portugal), November 1, **2017** to October 31, **2018**.
3. Supervising experience of the research fellow of Flavio Alberto da Silva Figueira (BI/UI51/5508/2017 in FCT project PTDC/QEQ-SUP/5355/2014), Department of Chemistry of the University of Aveiro, Aveiro (Portugal), February 1 to April 30, **2017**.
4. Supervising experience of the research stage of Roberto Giacomantonio (Master student of IST of University of Lisbon), Department of Chemistry of the University of Aveiro, Aveiro (Portugal), March 20 to March 31, **2017**.
5. Supervising experience of the research fellow of Deisy Mara Gomes da Cruz Rocha (BI/UI51/7572/2016 in FCT project PTDC/QEQ-SUP/5355/2014), Department of Chemistry of the University of Aveiro, Aveiro (Portugal), November 1 to December 31, **2016**.
6. Supervising of the undergraduate students in Laboratory of Bioorganic Chemistry and Laboratory of Organic Chemistry and Physicochemical classes at the Chemistry Department, University of Aveiro, **2010-2011**.

## 4 Domain of specialization and other skills/activities

### 4.1 Domain of specializations

The domain of specialization is in Organic Chemistry, mainly in the synthesis of porphyrin, phthalocyanine and their dyads to interact supramolecularly with carbon nanostructures, such as graphene nanosheets (GN), carbon nanotubes (CNTs) and fullerenes (C<sub>60</sub>). Noncovalent functionalization of pyridyl porphyrins with ruthenium phthalocyanines to perform supramolecular arrays for electronic transference. Photophysical studies of hybrid systems and evaluation of their potential for electronic nanomaterials, particularly on the production of photovoltaic cells, electronic nanodevices, nanoheaters, nanosensors, among others.

Synthesis and characterization of new amphiphilic phthalocyanines, based on methoxypyridinium derivatives to be evaluate as potential “photoantibiotics”/photoactive molecules against antibiotic resistant microorganisms by photodynamic inactivation (PDI). Develop of novel photosensitizing agents, based on phthalocyanine-cyclodextrin (Pc-CD) conjugates. In this case, the particular concern was to design and synthesize new asymmetric Pc-CD formulations covalently conjugated, which may show water solubility and marked selectivity towards human bladder cancer cells. Also, the synthesis and full characterization of interesting new photosensitizer derivatives for human blood disinfection.

### 4.2 Other skills/activities

1. Course of “Molecular photobiophysics: Actual topics and future problems - A short introduction” by Prof. Dr. Beate Röder (Humboldt-Universität zu Berlin -Institut für Physik), Chemistry Department, University of Aveiro, **2012**.
2. Purification proficiency in HPLC; preparative TLC; flash chromatography (normal and reversed phase); gel filtration, affinity and ion-exchange chromatography.
3. Ability to use spectroscopic techniques such as NMR, absorption and emission spectroscopy, mass spectrometry, transmission electron microscopy (TEM), Time Correlated Single Photon Counting (TCSPC), among others.
4. *Photophysics: actual topics and future problems a short introduction. The effect of photosensitization and the role of molecular singlet oxygen. Modular carriers systems for Photodynamic Therapy (PDT)*. Fundamentals of photobiophysics, Prof. Beate Röder (Institut für Physik, AG Photobiophysik da Humboldt-Universität zu Berlin), Chemistry Department, University of Aveiro, October 13 to 15, **2010**.
5. *T day* – Office of Safety and Health at Work, Session of awareness for Safety and Health at Work, Faculty of Medicine of the University of Coimbra, 7 hours, April 22, **2008**.

6. Traineeship, *Determination and quantification of trihalomethanes and dichloroethane in water by gas chromatography*, ControlVet, Laboratory of Chemical Analysis, June 1 to October 31, **2007**.
7. *Free Course of the Calibration and Quantification*, J. L. G. Costa Pereira, Department of Chemistry, Faculty of Sciences and Technology of the University of Coimbra, 10 hours, November 12 to 23, **2005**.
8. *Free Course of the Basic Notions of Statistic*, J. L. G. Costa Pereira, Department of Chemistry, Faculty of Sciences and Technology of the University of Coimbra, 10 hours, October 29 to November 9, **2005**.
9. Participation in several events such as laboratory experiment demonstrations for the high and elementary school students.

## 5 Main scientific area of research

Chemistry

### 5.1 Present research interests

**Materials Chemistry and Supramolecular Chemistry:** Design of multifunctional hybrid materials, such as organic molecules to couple supramolecularly with nanostructures, such as graphene, CNTs or C<sub>60</sub> for application in nanosciences. Supramolecular derivatization of organic compounds to perform organized nanomaterials *via* coordination chemistry and study their physical, chemical, thermal and mechanical properties.

**Medicinal Chemistry:** Design of amphiphilic photosensitizer (porphyrins and phthalocyanines) derivatives for PDI against microorganisms and for PDT against cancer tumor cells as therapeutic strategies. Also, conception and characterization of novel dyes for human blood disinfection.

## 6 Research stages

1. One week scientific stage for functionalization of porphyrins and phthalocyanines with cucurbit-7-uril to develop amphiphilic compounds with Prof. Uwe Pischel (Dpto. Ing. Quimica, Quim. Fis. y Quim. Organ., Facultad De Ciencias Experimentales, Campus El Carmen, Universidad de Huelva - Dr. Cantero Cuadrado, 6. 21071 Huelva, Spain; Phone: +34 959 21 89982; E-Mail: [uwe.pischel@diq.uhu.es](mailto:uwe.pischel@diq.uhu.es)), **2013**.
2. Four months of PhD scientific stage on supramolecular hybrids of pyridyl or pyridinium phthalocyanine/Graphene, pyridyl or pyridinium porphyrin/SWNT, and pyridyl or pyridinium phthalocyanine/SWNT with Prof. Dirk M. Guldi (Department of Chemistry and Pharmacy and

Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-University Erlangen-Nuremberg, 91058 Erlangen, Germany; Phone: +49 9131 85-27340, TeleFax: +49 9131 85-28307, E-Mail: [guldi@chemie.uni-erlangen.de](mailto:guldi@chemie.uni-erlangen.de)), **2012**.

3. One month of a PhD work on derivatization of pyridyl-porphyrins and pyridyl-phthalocyanines with ruthenium phthalocyanines to develop new heterochromophoric systems with Prof. Tomas Torres (Department of Organic Chemistry, Autonoma University of Madrid, 28049-Madrid, Spain; Phone: +34 91 397 4151, Fax: +34 91 3973 966, E-Mail: [tomas.torres@uam.es](mailto:tomas.torres@uam.es)), **2011**.
4. Two months of a PhD scientific stage on supramolecular hybrids of phthalocyanine-cyclodextrin dyads/C<sub>60</sub>, phthalocyanine-cyclodextrin dyads/SWNT, pyridyl porphyrin/SWNT, and pyridyl-phthalocyanine/SWNT with Prof. Dirk M. Guldi (Department of Chemistry and Pharmacy and Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-University Erlangen-Nuremberg, 91058 Erlangen, Germany; Phone: +49 9131 85-27340, TeleFax: +49 9131 85-28307, E-Mail: [guldi@chemie.uni-erlangen.de](mailto:guldi@chemie.uni-erlangen.de)), **2010**.

## 7 Participation in research projects

I was involved in research projects with national and international scientists.

### 7.1 Ongoing research support

*As principal investigator:*

1. Imidazole pyrene porphyrin- and phthalocyanine-carbon nanostructure materials assembled through supramolecular interactions for energy- and electronic-transference in photovoltaic solar cells integrated in smart devices; project on Chemistry; reference project: PTDC/QUI-QOR/31770/2017 (Total Funding: € 239.955,28 / 3 years), QOPNA, University of Aveiro, 2018. PI: Leandro M. O. Lourenço.
2. Supramolecular functionalization of carbon nanostructures with porphyrin and phthalocyanine derivatives for sustainable photoinduced energy- and electronic-transfer materials; project on Chemistry, reference project: PTDC/QEQ-SUP/5355/2014 (Total Funding: € 171.408,00 / 3 years), Overall Rating: 9, CICECO and QOPNA, University of Aveiro, 2016. PI: Leandro M. O. Lourenço.

*As participant:*

1. Participation as BI research member in the project Coordinatively Unsaturated Metal Centres for the Design of Novel Metal-Organic Frameworks; project on Chemistry, reference project:

- EXPL/QEQ-QIN/0199/2013 (€ 31.589,00 / 1 year), Technological Laboratory Complex and CICECO, University of Aveiro, 2014.
2. Participation in the project Supramolecular fluorescence switching based on host-guest complexes of phthalocyanine dyads and cucurbituril macrocycles; project on Chemistry, European Bilateral Project, CRUP, Acções Integradas Luso – Espanholas / 2012, reference: E-110/12 (€ 5.000 + € 6.000 / 2 years).
  3. Participation as BI research member in the project Nanocages and “bio”polymers for the recognition and solubilization of carbon nanotubes; project on Chemistry and Biochemistry, reference project: PTDC/QUI/65228/2006 (€ 122.352,00 / 1 year), Department of Chemistry and QOPNA, University of Aveiro, 2009.

## 8 Participation at scientific meetings

1. 10<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich (Germany), July 1-6, **2018**.
2. 12<sup>th</sup> National Organic Chemistry Meeting & 5<sup>th</sup> National Medicinal Chemistry Meeting, Coimbra (Portugal), January 17-19, **2018**.
3. XXV edition of SPQ National Meeting, Lisbon (Portugal), July 16-19, **2017**.
4. Journeys of the Chemistry Department, Aveiro (Portugal), February 22, **2017**.
5. 10<sup>th</sup> Portuguese National Meeting of Organic Chemistry and the 1<sup>st</sup> Portuguese-Brazilian Organic Chemistry Symposium, Lisbon (Portugal), September 4-6, **2013**.
6. XXIII National Meeting of the Portuguese Society, Aveiro (Portugal), June 12-14, **2013**.
7. 3<sup>rd</sup> Portuguese Meeting on Medicinal Chemistry, Aveiro (Portugal), November 28-30, **2012**.
8. 7<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-7), Jeju (Korea), July 1-6, **2012**.
9. 3<sup>rd</sup> Molecular Electronic Assemblies Workshop, Adelsdorf-Erlangen, May 17-20, **2012**.
10. International symposium, “The Chemistry of Synthetic Carbon Allotropes”, Erlangen (Germany), November 25-26, **2010**.
11. International Conference on Porphyrins and Phthalocyanines (ICPP-6), Albuquerque (USA), July 4-9, **2010**.

## 9 Publications

### 9.1 Thesis

1. Ph.D Thesis *Phthalocyanines: Interaction with carbon structures and as PDT agents*, University of Aveiro, Aveiro (Portugal), **2014**.

2. Research Laboratory Thesis – PhD Middle Term Evaluation, *Nanocages and “bio”polymers for the recognition and solubilization of carbon nanotubes*, University of Aveiro, Aveiro (Portugal), **2011**.
3. Bologna Master Degree in Chemistry – *Test methods for preparation of biological samples for study on MALDI-TOF-MS*, University of Coimbra, Coimbra (Portugal), **2008**.
4. Academic Degree in Industrial Chemistry – *Determination and quantification of trihalomethanes and dichloroethane in water by gas chromatography*, University of Coimbra, Coimbra (Portugal), **2007**.

## 9.2 Papers in international scientific periodicals

1. Leandro M. O. Lourenço, Deisy M. G. C. Rocha, Catarina I. V. Ramos, N. Venkatramaiah, Maria. C. Gomes, Adelaide Almeida, Maria A. F. Faustino, Filipe A. Almeida Paz, Maria G. P. M. S. Neves, Ângela Cunha, João P. C. Tomé, Photoinactivation of planktonic and biofilms form of *Escherichia coli* through the action of cationic zinc(II)phthalocyanines, **2018**, *submitted*.
2. Flávio Figueira, Leandro M. O. Lourenço, Maria G. P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, Synthesis and characterization of novel 5-monocarbohyrate 10,20-bis-aryl-porphyrins, **2018**, *under final preparation*.
3. Lúcia Marciel, Luís Teles, Beatriz Moreira, Mário Pacheco, Leandro M. O. Lourenço, M. Graça P. M. S. Neves, João P. C. Tomé, Amparo F. Faustino, Adelaide Almeida, An effective and potentially safe blood disinfection protocol using tetrapyrrolic photosensitizers, *Future Med. Chem.*, **2017**, 9 (4), 365–379.
4. Leandro M. O. Lourenço, Andreina Sousa, Maria C. Gomes, Maria A. F. Faustino, Adelaide Almeida, Artur M. S. Silva, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Ângela Cunha, João P. C. Tomé, Inverted methoxypyridinium phthalocyanines for PDI of pathogenic bacteria, *J. Photochem. Photobiol.*, **2015**, 14, 1853–1863.
5. Leonie Wibmer, Leandro M. O. Lourenço, Alexandra Roth, Georgios Katsukis, Maria G. P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, Tomás Torres, Dirk M. Guldi, Decorating graphene nanosheets with electron accepting pyridyl phthalocyanines, *Nanoscale*, **2015**, 7, 5674–5682.
6. Leandro M. O. Lourenço, Anita Hausmann, Christina Schubert, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Tomás Torres, Dirk M. Guldi, João P. C. Tomé, Noncovalent functionalization of thiopyridyl porphyrins with ruthenium phthalocyanines, *ChemPlusChem*, **2015**, 80, 832–838.

7. Leandro M. O. Lourenço, Filipe A. Almeida Paz, José A. Fernandes, Crystal structures of the water and acetone monosolvates of bis[400-(pyridin-4-yl)-2,200:600,20000-terpyridine]manganese(II) bis(hexafluoridophosphate), *Acta Cryst.*, **2015**, E71, 330–335.
8. Leandro M. O. Lourenço, Bernardo A. Iglesias, Patrícia M. R. Pereira, Henrique Girão, Rosa Fernandes, Maria G. P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, Synthesis, characterization and biomolecule-binding properties of novel tetra-platinum(II)-(thiopyridyl)porphyrins, *Dalton Trans.*, **2015**, 44, 530–538.
9. Leandro M. O. Lourenço, Patrícia M. R. Pereira, Elisabete Maciel, Mónica Válega, Fernando M. J. Domingues, Maria R. M. Domingues, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Rosa Fernandes, João P. C. Tomé, Amphiphilic phthalocyanine-cyclodextrin conjugates for cancer photodynamic therapy, *Chem. Commun.*, **2014**, 50, 8363–8366.
10. Leandro M. O. Lourenço, João Resende, Bernardo A. Iglesias, Kelly Castro, Shirley Nakagaki, Mário J. Lima, António F. Cunha, Maria G. P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, Synthesis, characterization and electrochemical properties of *meso*-thiocarboxylate-substituted porphyrin derivatives, *J. Porphyrins Phthalocyanines*, **2014**, 18, 967–974.
11. Leandro M. O. Lourenço, Maria G. P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, Synthetic approaches to glycopthalocyanines, *Tetrahedron*, **2014**, 70, 2681–2698.
12. Leandro M. O. Lourenço, José A. Fernandes, Maria G. P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, Filipe A. Almeida Paz, 5,10,15,20-Tetrakis(*N*-methylpyridinium-4-yl)porphyrin tetraiodide tetrahydrate, *Acta Cryst.*, **2011**, E67, o3157–o3158.
13. Leandro M. O. Lourenço, João P. C. Tomé, Maria R. M. Domingues, Pedro Domingues, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Synthesis and differentiation of  $\alpha$ - and  $\beta$ -glycoporphyrins isomers by electrospray tandem mass spectrometry, *Rapid Commun. Mass Spectrom.*, **2009**, 23, 3478–3483.

## 9.5 Communications

### Oral Communications:

1. A. Almeida, L. Marciel, L. Teles, B. Moreira, M. Pacheco, L. Lourenço, G. Neves, J. Tomé, A. Faustino, “An effective and potentially safe blood disinfection protocol using tetrapyrrolic photosensitizers” (IL404, pg. 94), 17<sup>th</sup> Congress of the European Society for Photobiology, Palazzo dei Congressi, Pisa (Italy), September 4-8, **2017**.
2. Leandro M. O. Lourenço, Deisy M. G. C. Rocha, Catarina I. V. Ramos, N. Venkatramaiah, Maria. C. Gomes, Adelaide Almeida, Maria A. F. Faustino, Filipe A. Almeida Paz, Maria G. P. M. S. Neves, Ângela Cunha, João P. C. Tomé, “Combined ammonium and pyridinium

zinc(II)phthalocyanines and their photodynamic effect on cell suspensions and biofilms of *Escherichia coli*” (OC3 - Health-Analytical Tools, pg. 103), XXV edition of SPQ National Meeting, Lisbon (Portugal), July 16-19, **2017**.

3. A. Almeida, L. Marciel, L. Teles, B. Moreira, M. Pacheco, L. Lourenço, G. Neves, J. Tomé, A. Faustino, “An effective and potentially safe blood disinfection protocol using tetrapyrrolic photosensitizers” (O55A), 2<sup>nd</sup> International Caparica Conference in Antibiotic Resistance (IC2AR), Caparica (Portugal), June 11-15, **2017**.
4. João P. C. Tomé, Patrícia M. R. Pereira, Leandro M. O. Lourenço, N. Venkatramaiah, Rosa Fernandes, “Amphiphilic Phthalocyanines for Photomedicine” (S24 Phthalocyanine Materials for PDT, pg. 41), Ninth International Conference on Porphyrins and Phthalocyanines (ICPP-9), Nanjing (China), July 3-8, **2016**.
5. Patrícia M. R. Pereira, Sandrina Silva, Leandro M. O. Lourenço, Mafalda A. F. Bispo, Célia M. F. Gomes, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Carlos A. F. Ribeiro, João P. C. Tomé, Rosa Fernandes, “Carbohydrate-driven porphyrinoids to induce cell demise by photodynamic therapy” (OP41, pg. 469), Portuguese Congress of Microbiology and Biotechnology, Aveiro (Portugal), December 6-8, **2013**.
6. T. Torres, O. Trukhina, I. Sánchez-Molina, M. Ince, D. Guzman, E. Fazio, L. Tejerina, G. Zango, M. Medel, M. Sanchez, J. A. Suanzes, E. Anaya, A. Gouloumis, E. Caballero, L. Lourenço, D. M. Guldi, “Photoactive Phthalocyanine- and Subphthalocyanine-Containing Carbon Nanostructures” (Plenary 2, pg. 9), The third symposium on *Carbon Nanoforms*, Madrid Institute for Advanced Studies in Nanoscience (IMDEA-Nanoscience), Madrid (Spain), September 26-27, **2013**.
7. Lourenço, L. M. O., Pereira, P. M. R., Maciela, E., Domingues, M. R. M., Fernandes, R., Neves, M. G. P. M. S., Cavaleiro, J. A. S., Tomé, J. P. C., “Synthesis, photophysical and photodynamic activities of amphiphilic phthalocyanine-cyclodextrin conjugates” (FC10, pg. 87), 10<sup>th</sup> Portuguese National Meeting of Organic Chemistry and the 1<sup>st</sup> Portuguese-Brazilian Organic Chemistry Symposium, Lisbon (Portugal), September 4-6, **2013**.

#### **Poster Communications:**

1. Leandro M. O. Lourenço, João P. C. Tomé, Tomás Torres, Dirk M. Guldi, “Supramolecular Self-Assembly of Thiopyridyl-Phthalocyanines with Ruthenium Phthalocyanines”, 10<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-10) (S02-P-008, pg. 640), Munich (Germany), July 1-6, 2018.

2. Joana Calmeiro, João P. C. Tomé, Leandro M. O. Lourenço, “Synthesis of pyridinium and methoxypyridinium chlorins and their comparative structural characterization and photophysical properties” (P13), 12<sup>th</sup> National Organic Chemistry Meeting & 5<sup>th</sup> National Medicinal Chemistry Meeting, Coimbra (Portugal), January 17-19, **2018**.
3. Roberto Giacomantonio, Leandro M. O. Lourenço, Armando J. L. Pombeiro, Corrado Bacchiocchi, Ana P. C. Ribeiro, João P. C. Tomé, “Catalytic performance of a new copper-phthalocyanine dye”, First meeting of the College of Chemistry (IECQUL), entitled “Chemistry in Research at ULisbon”, Lisbon (Portugal), July 20-21, **2017**.
4. Roberto Giacomantonio, Leandro M. O. Lourenço, Armando J. L. Pombeiro, Corrado Bacchiocchi, Ana P. C. Ribeiro, João P. C. Tomé, “Synthesis and characterization of a new copper-phthalocyanine dye” (MC83 - Materials Challenges, pg. 327), XXV edition of SPQ National Meeting, Lisbon (Portugal), July 16-19, **2017**.
5. Luís Teles, Leandro Lourenço, Ângela Cunha, M. Amparo F. Faustino, M. Graça P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, Adelaide Almeida, “Application of phthalocyanines in blood sterilization” (P055, pg. 5), 16<sup>th</sup> Congress of the European Society for Photobiology, Aveiro (Portugal), August 31 to September 4, **2015**.
6. Adelaide Almeida, Luís Teles, Leandro Lourenço, Ângela Cunha, M. Amparo F. Faustino, M. Graça P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, “Application of phthalocyanines in blood sterilization” (pg. 110), 3<sup>rd</sup> International Conference On Integrative Biology, Valencia (Spain), August 04-06, **2015**.
7. Leandro M. O. Lourenço, Filipe A. Almeida Paz, and José A. Fernandes, “Synthesis of new metalloligands topologically equivalent to 4,4'-bipyridine” (P65, pg. 88), Jornadas CICECO 2015, Aveiro (Portugal), April 14-15, **2015**.
8. Pereira, P. M. R., Lourenço, L. M. O., Iglesias, B. A., Girão, H., Fernandes, R., Neves, M. G. P. M. S., Cavaleiro, J. A. S., Tomé, J. P. C., “DNA binding and photocleavage properties of platinum-porphyrins” (P17, pg. 12), Updates in Oncology 2015 (29<sup>th</sup> meeting) - 4<sup>th</sup> CIMAGO congress, Coimbra (Portugal), January 29-30, **2015**.
9. Pereira, P. M. R., Lourenço, L. M. O., Iglesias, B. A., Girão, H., Fernandes, R., Neves, M. G. P. M. S., Cavaleiro, J. A. S., Tomé, J. P. C., “DNA-binding and photocleavage properties of novel platinum-porphyrins” (P 48, pg. 95), VI Annual Meeting of IBILI, Coimbra (Portugal), December 11-12, **2014**.
10. Leonie Wibmer, Leandro M. O. Lourenço, Alexandra Roth, Georgios Katsukis, Tomás Torres, Dirk M. Guldi, “Photophysical Interactions of Phthalocyanines with Graphene

- Nanosheets" (P351, pg. 14), 4<sup>th</sup> edition of the largest European Event in Graphene, Toulouse (France), May 6-9, **2014**.
11. Patrícia M. R. Pereira, Leandro M. O. Lourenço, Mafalda A. F. Bispo, Sandrina Silva, José A. S. Cavaleiro, Carlos A. F. Ribeiro, Rosa Fernandes, João P. C. Tomé, "Glyco-Porphyrins and -Phthalocyanines for Cancer Photodynamic Therapy", 15<sup>th</sup> BMOS - Brazilian Meeting on Organic Synthesis, Campos do Jordão, São Paulo (Brazil), November 10-13, **2013**.
  12. Patrícia M. R. Pereira, Leandro M. O. Lourenço, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Carlos A. F. Ribeiro, João P. C. Tomé, Rosa Fernandes, "Cyclodextrins as phthalocyanines-delivery systems to target and kill cancer cells" (#P29, pg. 48), 4<sup>th</sup> PF2MUC Symposium, Coimbra (Portugal), October 25, **2013**.
  13. Nunes da Silva, R., Lourenço, L. M. O., Tomé, A. C., Cunha, Â., "Asymmetric phthalocyanines bearing phenylacetylene units" (PC67, pg. 166), 10<sup>o</sup> Portuguese National Meeting of Organic Chemistry and the 1<sup>st</sup> Portuguese-Brazilian Organic Chemistry Symposium, Lisbon (Portugal), September 4-6, **2013**.
  14. Lourenço, L., Figueira, F., Gomes, C., Pereira, P., Vilela, S., Pereira, C., Rodrigues, J., Firmino, D., Ferreira, J., Martins, P., Nutalapati, V., Ramos, C., Tomé, J., "Photoactive Molecules and Materials for Photomedicine, Photocatalysis, Chemosensing and Energy Applications", Research day, Aveiro (Portugal), June 19, **2013**.
  15. Leandro M. O. Lourenço, Vânia F. Pais, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Uwe Pischel, João P. C. Tomé, "Pyridinone phthalocyanines and their host-guest complexes with cucurbit-7-uril" (P 2.40, pg. 204), XXIII National Meeting of the Portuguese Society, Aveiro (Portugal), June 12-14, **2013**.
  16. Leandro M. O. Lourenço, Maria G. P. M. S. Neves, José A. S. Cavaleiro, João P. C. Tomé, "Synthesis and characterization of new thiocarboxylate porphyrin derivatives for photodynamic therapy" (P71, pg. 123), 3<sup>rd</sup> Portuguese Meeting on Medicinal Chemistry, Aveiro (Portugal), November 28-30, **2012**.
  17. Leandro M. O. Lourenço, Anita Hausmann, J. Bartelmess, M. G. P. M. S. Neves, J. A. S. Cavaleiro, J. P. C. Tomé, D. M. Guldi, T. Torres, "Supramolecular Complexes of Pyridyl and Pyridinium Phthalocyanines with SWNTs" (Poster S08-029, pg. 85), 7<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-7), Jeju (Korea), July 1-6, **2012**.
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19. Leandro M. O. Lourenço, João P. C. Tomé, Maria R. M. Domingues, Maria G. P. M. S. Neves, Tomás Torres, José A. S. Cavaleiro, "Synthesis and Characterization of Novel Phthalocyanine Cyclodextrin Conjugates" (Poster S12-088, pg. 69), Sixth International Conference on Porphyrins and Phthalocyanines (ICPP-6), New Mexico (USA), July 4-9, **2010**.
20. João P. C. Tomé, Leandro M. O. Lourenço, Maria G. P. M. S. Neves, José A. S. Cavaleiro, "Synthesis and biological evaluation of glycoporphyrins" (CARB 79, pg. 68), 238<sup>th</sup> American Chemical Society National Meeting, Washington, DC, August 16-20, **2009**.
21. Leandro M. O. Lourenço, João P. C. Tomé, Maria R. M. Domingues, Pedro Domingues, Maria G. P. M. S. Neves, José A. S. Cavaleiro, "Synthesis and differentiation of alpha- and beta-glycoporphyrin isomers by tandem mass spectrometry" (Poster CP22), 8<sup>th</sup> National Meeting on Organic Chemistry, University of Aveiro, July 1-3, **2009**.
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### **Proceedings:**

1. Pereira, Patrícia M. R.; Lourenço, Leandro M. O.; Bispo, Mafalda A. F.; Silva, Sandrina; Cavaleiro, José A. S.; Ribeiro, Carlos A. F.; Fernandes, Rosa; Tomé, João P. C.; "Glyco-Porphyrins and -Phthalocyanines for Cancer Photodynamic Therapy", p. 239 . In: In Blucher Chemistry Proceedings, São Paulo, v. 1, n. 2, Dezembro.2013. São Paulo: Blucher, **2013**. ISSN 2318-4043, DOI 10.5151/chempro-15bmos-BMOS2013\_2013913233524.

### **10 Languages**

Portuguese, English and Spanish.

### **11 Prizes and awards**

1. **2015** – Best Poster Award in Sciences: "*In vitro* and *in vivo* screening for design of new photodynamic agents", Patrícia M. R. Pereira, Sandrina Silva, Mafalda Bispo, José Ramalho, Célia Gomes, Henrique Girão, Leandro M. O. Lourenço, Bernardo A. Iglesias, Venkatramaiah Nutalapati, Catarina Ramos, Filipe A. Paz, Maria G. P. M. S. Neves, José A. S. Cavaleiro, Carlos A. F. Ribeiro, Rosa Fernandes, João P. C. Tomé. Research Day, University of Aveiro, Aveiro (Portugal), May 20, **2015**.

2. **2006/2007** – Premium to 3% of the Best Students of the University of Coimbra, Faculty of Sciences and Technology of the University of Coimbra, Coimbra (Portugal), **2007**.

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(Leandro Miguel de Oliveira Lourenço)