

# ***Curriculum Vitae***

**PhD. Eduardo Tejera Puente  
2017**

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## PERSONAL INFORMATION

**Name:** Eduardo Tejera Puente

**Nationality:** Portugal

**Birth Date:** January 11<sup>th</sup>, 1979

## ACADEMIC DEGREES

**Degree:** *Post-Doctoral Research*

**Year:** 2011-2014

**Institution:** *Pharmacy Faculty. Oporto University, Portugal/ Institute for Molecular and Cell Biology (IBMC)*

**Research Project:** *Application of combined bioinformatics and experimental approaches to elucidate a clinical preeclampsia management strategy.*

**Supervisor:** *Prof. PhD. Maria Irene Rebelo, Prof.PhD.MD. João Bernardes*

**Degree:** *Ph.D*

**Year:** 2010

**Degree granting institution:** *Oporto University, Portugal.*

**Faculty:** *Pharmacy Faculty*

**Program Title:** *Biochemistry Degree*

**Thesis Title:** *Heart rate variability analysis during normal and hypertensive pregnancy*

**Supervisor:** *Prof. PhD. Maria Irene Rebelo, Prof.PhD. José Manuel Nieto-Villar*

**Degree:** *Diploma*

**Year:** 2004

**Degree granting institution:** *Havana University, Cuba.*

**Faculty:** *Chemistry Faculty*

**Program Title:** *Chemistry Degree*

**Thesis Title:** *2D fractal dimension calculation. Theoretical and Practical Aspects*

**Supervisor:** *Prof. PhD. José Manuel Nieto-Villar*

**Degree:** *Technician*

**Year:** 1997

**Degree granting institution:** *Polytechnic Institute "Mártires de Girón", Havana, Cuba.*

**Program Title:** *Industrial Pharmacy Technician*

**Thesis Title:** *Antibiotics isolation and purification.*

**Supervisor:** *MSc. Marta Helena*

## AWARDS AND MENTIONS

- **2013.** Award of *Havana University Editorial and Havana University* in the Category of Natural and Exact Sciences for the book: Complexity and self-organization of natural patterns. (Complejidad y auto-organización de patrones naturales). Authors: Nieto-Villar JM, Izquierdo-Kulich E, Betancourt-Mar J and **Tejera E.**
- **2012.** Award of the *Cuban Academy of Science* by the results in the scientific research of: Complexity and self-organization of natural patterns. (Complejidad y auto-organización de patrones naturales). The researchers are: Nieto-Villar JM, Izquierdo-Kulich E, Betancourt-Mar J and **Tejera E.**
- **2012.** *1st Award. IUP25K* for “TerMonitor - Termografia para Aplicações Médicas” (Thermography for medical applications). *Porto University, Portugal.* Authors: Antonio S, Neves M, Granja C and **Tejera E.**
- **2006.** Mention for the work: Application of discrete states in the study of HRV. *University of Medical Sciences of Havana, Cuba.*
- **2004.** Degree with Honors. Chemistry Diploma. *Chemistry Faculty, Havana University. Cuba.*
- **1998.** Degree with Honor. Industrial Pharmacy Technician. *Polytechnic Institute Mártires de Girón. Cuba.*

## RESEARCH AREAS

- **Bioinformatics methods on genomic/proteomic/transcriptomic study**
- **Bioinformatics approaches for interactome and system biology analysis**
- **Structural bioinformatics**
- **Drug design and biological networks analysis**
- **Biological signal analysis**

## PROJECTS PARTICIPATION

- **2016-2018** - Descubrimiento de compuestos terapéuticamente activos contra el cáncer gástrico – un enfoque sistémico basado en bio y quimioinformática. UDLA. Quito Ecuador. Project Supervisor: Eduardo Tejera.
- **2016-2017** - Estudio bioquímico y genético de la hipertensión gestacional: una perspectiva materno y fetal”. UDLA. Quito Ecuador. Project Supervisor: Maria Eugenia Ramos.
- **2014-2016** – “Estudio de la hipertensión gestacional: pre-diagnóstico y efectos maternos a largo plazo.”. UDLA. Quito Ecuador. Project Supervisor: Eduardo Tejera.

- **2013** - Participation in a project entitled: “*Performance and cost-effectiveness of a first trimester combined screening program for preeclampsia in a Portuguese obstetric population*”. N/REF 228/13 (143-DEFI/182-CES). Centro Hospitalar do Porto, Portugal. Project Supervisor: MD. Claudia Sofia Morais Teixeira.
- **2012-2014** - Participation in a project entitled: “*Multifactorial study for biomarkers identification of pregnancy related pathologies*”. N/REF 295/12 (207-DEFI/238-CES). Centro Hospitalar do Porto, Portugal. Project Supervisor: Prof. PhD. Maria Irene Rebelo.
- **2011-2014** - Grant of “Fundação para a Ciência e Tecnologia” (Ref. SFRH/BPD/72391/2010) for Post-doctoral research with the project: “*Application of combined bioinformatics and experimental approaches to elucidate a clinical preeclampsia management strategy*” performed in the Institute for Molecular and Cell Biology (IBMC) and in the Pharmacy Faculty, Oporto University, Portugal. Supervised by Prof. PhD. Maria Irene Rebelo and Prof. PhD. MD. João Bernardes.
- **2006-2010** - Grant of “Fundação para a Ciência e Tecnologia” (Ref. SFRH/BD/25167/2005) for Doctoral Degree since December 2006 to November 2010 with the project: “*Heart rate variability analysis during normal and hypertensive pregnancy*” performed in the Pharmacy Faculty, Oporto University, Portugal and supervised by Prof. PhD. Maria Irene Rebelo and Prof. PhD. José Manuel Nieto-Villar.
- **2006-2008** - Participation in the Project: “*Cardiovascular risk factors in women with a history of preeclampsia*”. IBMC. Project Supervisor: Prof. PhD. Maria Irene Rebelo. Grant of “Fundação para a Ciência e Tecnologia” (Ref. POCI/SAU-ESP/60514/2004).
- **2004-2006** - Participation in the Project: “*Nonlinear dynamic study in biological signals*”. Centre of Cybernetic Applied to Medicine, Havana, Cuba. Project Supervisor: Prof. PhD. José Luis Hernández Cáceres.
- **2004-2006** - Participation in the Project: Structural Bioinformatics and Biological signal analysis research. Centre of Cybernetic Applied to Medicine, Havana, Cuba. Prof. PhD. José Luis Hernández Cáceres.
- **2003-2005** - Participation in the Project: Fractal structure and pattern formation. Chemistry Faculty, Havana University, Cuba. Project Supervisor: Prof. PhD. José Manuel Nieto Villar.
- **1998-1999** - Participation in the Project: Synthesis and Characterization of Nanomaterials. Group of Synthesis and Characterization of New Material. National Scientific Research Centre, Havana, Cuba. Project Supervisor: PhD. Jorge Rojas Casañas.
- **1998-1999** – Working as Lab Technician. Group of Synthesis and Characterization of New Material. National Scientific Research Centre, Havana, Cuba.

## INVOLVEMENT IN ACADEMICS ACTIVITIES AND MENTORING

- **2015-2016.** Degree Thesis. Identificación de biomarcadores sanguíneos en el procesamiento de micro-arreglos y análisis de redes de co-expresión. Author: Freddy Nieto. Supervisor: Eduardo Tejera.
- **2014-2017.** Biochemistry Professor. Universidad de las Américas. UDLA. Ecuador.
- **2013-2014.** Co-Supervisor in Student Project Discipline: *Bioinformatics methods for target identifications in microarray data*. Author: Rute Gonçalves (3rd year student). Faculty of Pharmacy, Porto University. Supervisors: Prof. PhD. Irene Rebelo and PhD. **Eduardo Tejera**
- **2013-2014.** Co-Supervisor in Student Project Discipline: *Study of the protein sequence complexity and the effect in the interactome*. Author: Fátima Martins. (3rd year student). Faculty of Pharmacy, Porto University. Supervisors: Prof. PhD. Irene Rebelo and PhD. **Eduardo Tejera**
- **2013-2014.** Co-Supervisor for Master degree thesis in Biomedical Technology: *Maternal ECG study during early pregnancy*. Author: Carla Oliveira. Instituto Politécnico de Bragança. Supervisors: Prof. PhD. Teixeira JP, Prof. PhD. Irene Rebelo and PhD. **Eduardo Tejera**
- **2013.** Conference invitation: *How we obtain biological information. Some basic knowledge of bioinformatics resources*, for 2<sup>nd</sup> year students of Pharmacy in the Pharmacy Faculty. Porto University, Portugal. Invited by Prof. PhD. Irene Rebelo.
- **2012-2013.** Co-Supervisor in Curricular Unit I. Thesis. *Thyroid function response in women with history of preeclampsia*. Relationship with adhesion molecules. Author: Kátia Mota. Supervisors: Prof. PhD. Irene Rebelo and PhD. **Eduardo Tejera**
- **2012.** Conference invitation: *Bioinformatics in biochemical research*. For 1<sup>st</sup> year students of Pharmacy in the Pharmacy Faculty. Porto University, Portugal. Invited by Prof. PhD. Irene Rebelo.
- **2012-2013.** Co-Supervisor in Curricular Unit II. Monography. *HPLC analytic method validation for peptides separation in blood*. Author: Juliana Lima Gomes Rodrigues. Supervisors: Prof. PhD. Irene Rebelo and PhD. **Eduardo Tejera**
- **2010-.** Co-Supervisor. PhD Thesis. *Image processing, analysis and differentiation in different cancer tissues*. Author José Alejandro Llanos. Mexican Institute of Complex Systems. Tamaulipas. México. Supervisors: Prof. PhD. José Manuel Nieto-Villar and PhD. **Eduardo Tejera**
- **2008-2009** - Co-Supervisor for Master Degree thesis: *In-Silico study of structure-activity relationship of piperazine with 5-HT1A and 5-HT2A receptors*. Author: António Machado. Pharmacy Faculty, Oporto University, Portugal. Supervisors: Prof. PhD. Irene Rebelo and PhD. **Eduardo Tejera**
- **2005-2006** - Professor of Structural Bioinformatics in the course: *Introduction to Bioinformatics in Medical Science*. Centre of Cybernetic Applied to Medicine, Havana, Cuba. Course supervisor: Prof. PhD. José Luis Hernández Cáceres.
- **2006** - Supervisor for Informatics Technician Degree Thesis: *Software development for QSAR and QSPR applied for pharmacological activity predictions*. Author: Yanet Cedeño. Centre of Cybernetic Applied to Medicine, Havana, Cuba.
- **2006** - Supervisor for Informatics Technician Degree Thesis: *Client-Server Platform development for the application of bioinformatics tools*. Author: Diana Novoa Dorta. Centre of Cybernetic Applied to Medicine, Havana, Cuba.

- **2005** - Co-Supervisor for Chemistry Degree Thesis: *Fractal study in pattern formation*. Author: Nayrin Brizuela. Chemistry Faculty, Havana University, Cuba. Supervisors: Prof. PhD. José Manuel Nieto-Villar and Lic. **Eduardo Tejera**
- **2003-2004** - Assistant Student for thermodynamic lab classes. Chemistry-Physical Department. Chemistry Faculty, Havana University. Cuba. Department Chief: Prof. PhD. José Manuel Nieto-Villar.

## PUBLICATIONS

### INTERNATIONAL JOURNALS

1. **Eduardo Tejera**, Maykel Cruz-Monteagudo, Germán Burgos, María-Eugenia Sánchez, Aminaél Sánchez-Rodríguez, Yunierkis Pérez-Castillo, Fernanda Borges, Maria Natália Dias Soeiro Cordeiro, César Paz-y-Miño and Irene Rebelo. Consensus strategy in genes prioritization and combined bioinformatics analysis for preeclampsia pathogenesis. *BMC Med Genomics*. 2017 Aug 8;10(1):50
2. Aminaél Sánchez-Rodríguez, Yunierkis Pérez-Castillo, Stephan Schürer, Orazio Nicolotti, Giuseppe Felice Mangiatordi, Fernanda Borges, M. Natalia D. S. Cordeiro, **Eduardo Tejera**, José L. Medina-Franco, Maykel Cruz-Monteagudo. From Flamingo Dance to (Desirable) Drug Discovery: Nature-Inspired Approach. *Drug Discovery Today*. 2017.
3. Cruz-Monteagudo M, Schürer S, **Tejera E**, Pérez-Castillo Y, Medina-Franco JL, Sánchez-Rodríguez A, Borges F. Systemic QSAR and phenotypic virtual screening: chasing butterflies in drug discovery. *Drug Discov Today*. 2017 Mar 6.
4. López-Cortés A, Cabrera-Andrade A, Oña-Cisneros F, Rosales F, Ortiz M, **Tejera E**, Paz-Y-Miño C. Breast Cancer Risk Associated with Genotype Polymorphisms of the Aurora Kinase a Gene (AURKA): a Case-Control Study in a High Altitude Ecuadorian Mestizo Population. *Pathol Oncol Res*. 2017 Jun 24
5. Perez-Castillo Y, Helguera AM, Cordeiro MN, **Tejera E**, Paz-Y-Miño C, Sánchez-Rodríguez A, Borges F, Cruz-Monteagudo M. Fusing Docking Scoring Functions Improves the Virtual Screening Performance for Discovering Parkinson's Disease Dual Target Ligands. *Curr Neuropharmacol*. 2017 Jan 9.
6. Cruz-Monteagudo M, Borges F, Cordeiro MN, Helguera AM, Tejera E, Paz-Y-Miño C, Sánchez-Rodríguez A, Perera-Sardiña Y, Perez-Castillo Y. Chemoinformatics Profiling of the Chromone Nucleus as a MAO-B/A2AAR Dual Binding Scaffold. *Curr Neuropharmacol*. 2017 Jan 16.
7. Helguera AM, Perez-Castillo Y, D S Cordeiro MN, **Tejera E**, Paz-Y-Miño C, Sánchez-Rodríguez A, Tejeira M, Ancede-Gallardo E, Cagide F, Borges F, Cruz-Monteagudo M. Ligand-Based Virtual Screening Using Tailored Ensembles: A Prioritization Tool for Dual A2A Adenosine Receptor Antagonists / Monoamine Oxidase B Inhibitors. *Curr Pharm Des*. 2016;22(21):3082-96.
8. Paz-Y-Miño C, Burgos G, López-Cortés A, Herrera C, Gaviria A, **Tejera E**, Cabrera-Andrade A. A study of the molecular variants associated with lactase persistence in different Ecuadorian ethnic groups. *Am J Hum Biol*. 2016 Nov; 28(6):774-781.
9. Cruz-Monteagudo M, Medina-Franco JL, Perera-Sardiña Y, Borges F, **Tejera E**, Paz-Y-Miño C, Pérez-Castillo Y, Sánchez-Rodríguez A, Contreras-Posada Z, Cordeiro MN. Probing the Hypothesis of SAR Continuity Restoration by the

Removal of Activity Cliffs Generators in QSAR. *Curr Pharm Des.* 2016;22(33):5043-5056.

10. Perez-Castillo Y, Helguera AM, Cordeiro MN, **Tejera E**, Paz-Y-Miño C, Sánchez-Rodríguez A, Borges F, Cruz-Monteagudo M. Fusing Docking Scoring Functions Improves the Virtual Screening Performance for Discovering Parkinson's Disease Dual Target Ligands. *Curr Neuropharmacol.* 2017, 9.
11. Cruz-Monteagudo M, Borges F, Paz-y-Miño C, Natália DSC, Rebelo I, Perez-Castillo Y, Helguera AM, **Tejera E**. Efficient and biologically relevant consensus strategy for Parkinson's disease gene prioritization. *BMC Med Genomics.* 2016 Mar 9;9:12.
12. Martins F, Gonçalves R, Oliveira J, Cruz-Monteagudo M, Nieto-Villar J.M, Paz-y-Miño C, Rebelo I, **Tejera E**. Unravelling the relationship between protein sequence and low-complexity regions entropies: interactome implications. *J Theor Biol.* 2015 Oct 7; 382:320-7.
13. Castillo-González D, Mergny JL, De Rache A, Pérez-Machado G, Cabrera-Pérez MA, Nicolotti O, Introcaso A, Mangiatordi GF, Guédin A, Bourdoncle A, Garrigues T, Pallardó F, Cordeiro MN, Paz-Y-Miño C, **Tejera E**, Borges F, Cruz-Monteagudo M. Harmonization of QSAR Best Practices and Molecular Docking Provides an Efficient Virtual Screening Tool for Discovering New G-Quadruplex Ligands. *J Chem Inf Model.* 2015 Oct 26;55(10):2094-110.
14. Llanos Pérez JA, Betancourt-Mara A, De Miguel MP, Izquierdo-Kulich E, Royuela-García M, **Tejera E**, Nieto-Villar JM. (2015). Phase transition in tumor growth: II prostate cancer cell lines. *Physica A.* 426, 88–92.
15. Teixeira C, **Tejera E**, Martins H, Pereira AT, Costa-Pereira A, Rebelo I. (2014). First trimester aneuploidy screening program for preeclampsia prediction in a Portuguese obstetric population. *Obstetrics and Gynecology International.* 2014, 435037.
16. **Tejera E**, Nieto-Villar J, Rebelo I. (2014). Protein sequence complexity revisited. Relationship with fractal 3D structure, topological and kinetic parameters. *Physica A.* 15 (410), 287-301.
17. **Tejera E**, Bernardes J, Rebelo I. (2013). Co-expression network analysis and genetic algorithms for gene prioritization in preeclampsia. *BMC Medical Genomics.* 6:51.
18. Izquierdo-Kulich E, Rebelo I, **Tejera E**, Nieto-Villar JM. (2013). Phase transition in tumor growth: I avascular development. *Physica A.* 392(24), 6616–6623.
19. Cruz-Monteagudo M, Cordeiro MN, **Tejera E**, Dominguez ER, Borges F. (2012). Desirability-based multi-objective QSAR in drug discovery. *Mini Rev Med Chem.* Sep 1;12(10):920-35.
20. **Tejera E**, Bernardes J, Rebelo I. (2012). Preeclampsia: a bioinformatics approach through protein-protein interaction networks analysis. *BMC Syst Biol,* 6, 97.
21. **Tejera E**, Areias MJ, Rodrigues AI, Nieto-Villar JM, Rebelo I. (2012). Blood pressure and heart rate variability complexity analysis in pregnant women with hypertension. *Hypertension in Pregnancy.* 31 (1):91-10.
22. **Tejera E**, Areias MJ, Rodrigues AI, Ramõa A, Nieto-Villar JM, Rebelo I. (2012). Relationship between heart rate variability indexes and common biochemical markers in normal and hypertensive third trimester pregnancy. *Hypertension in Pregnancy.* 31(1):59-69.



23. **Tejera E**, Nieto-Villar JM, Rebelo I. (2010). Unexpected heart rate variability complexity in the aging process of arrhythmic subjects. *Communications in Nonlinear Science and Numerical Simulation*. 15, 7, 1858-1863.
24. **Tejera E**, Rodrigues AI, Areias MJ, Rebelo I, Nieto-Villar JM. (2010). Network centrality and multiscale transition asymmetry in the heart rate variability analysis of normal and preeclamptic pregnancies. *Communications in Nonlinear Science and Numerical Simulation*. DOI. 10.1016/j.cnsns.2010.07.009.
25. **Tejera E**, Areias MJ, Rodrigues AI, Ramõa A, Nieto-Villar JM, Rebelo I. (2010). Artificial neural network for normal, hypertensive and preeclamptic pregnancy classification using maternal heart rate variability indexes. *J. Maternal-Fetal & Neonatal Medicine*. (Accepted for publication)
26. Portelinha A, Belo L, Cerdeira AS, Braga J, **Tejera E**, Pinto F, Pinto A, Areias MJ, Patrício B, Rebelo I. (2010). Lipid levels including oxidized LDL in women with history of Preeclampsia. *Hypertension in Pregnancy*. 29(1):93-100.
27. **Tejera E**, Machado A, Rebelo I, Nieto-Villar JM. (2009). Fractal protein structure revisited: Topological, kinetic and thermodynamic relationships. *Physica A*. 388, 4600-4608.
28. Machado A, **Tejera E**, Rebelo I. (2009). Application of Desirability-Based Multi(bi)-objective Optimization in the design of selective arylpiperazine derivatives for the 5-HT<sub>1A</sub> serotonin receptor. *European Journal Medicinal Chemistry*. doi:10.1016/j.ejmech.2009.09.008
29. Portelinha A, Cerdeira AS, Belo L, Braga J, **Tejera E**, Pinto A, Pinto F, Areias MJ, Patrício B, Rebelo I. (2009). Haemostatic factors in women with history of preeclampsia. *Thromb Res*. 124(1):52-6.
30. Machado A, **Tejera E**, Rebelo I. (2009). Influence of arylpiperazines aromatic structure over differential affinity for 5-ht<sub>1a</sub> and 5-ht<sub>2a</sub> receptors. *Electron J Biomed*. 2, 9-10.
31. Portelinha A, Cerdeira AS, Belo L, **Tejera E**, Pinto F, Pinto A, Rebelo I. (2009). Altered alanine aminotransferase and gamma-glutamyl transpeptidase in women with history of preeclampsia: association with waist-to-hip ratio and body mass index. *Eur J Gastroenterol Hepatol*. 21(2):196-200.
32. Portelinha A, Belo L, **Tejera E**, Rebelo I. (2008). Adhesion molecules (VCAM-1 and ICAM-1) and C-reactive protein in women with history of preeclampsia. *Acta Obstet Gynecol Scand*. 87(9):969-71.
33. **Tejera E**, Plain A, Portelinha A, Cáceres JLH, Rebelo I, Nieto-Villar JM. (2007). Heart rate variability complexity in the aging process. *J Comp Math Meth Med*. 18(4), 287-96.
34. Cáceres JLH, Monzón MP, Dominguez LG, Sautié M, Hernández L, **Tejera E**. (2006). Pre vaccination measles outbreaks in england and wales: Nonlinear association analysis suggests a leading role for preston. *Elec. J. Biomed*. 2, 34-45.
35. Cáceres JLH, **Tejera E**, Crespo KV, Sautié M, Ortiz CM, Domínguez LG. (2005). Encainide reduces heart rate variability fractal dimension among arrhythmic patients who suffered acute myocardial infarct. *Electron J Biomed*. 1.
36. **Tejera E**, Brizuela N, Rieumont J, Nieto-Villar JM. (2004). Fractal Analysis in epigenetic differentiation of leukemic cells. *HarFA e-journal - Harmonic and Fractal Image Analysis*. pp. 74 – 75.

1. Portelinha A, Belo L, Cerdeira AS, Braga J, **Tejera E**, Pinto F, Pinto AR, Patricio B, Rebelo I. (2008). Abnormal haemostatic potential in women with history of preeclampsia. *Acta Obstet Ginecol Port.* Suppl 1.
2. Suárez-Domínguez, Izquierdo-Kulich EJ, **Tejera E**, Llanos-Pérez E, Ledesma-Fosados JA, Betancourt-Mar LI, Nieto Villar JM. (2007). Morfogénesis de patrones formados por electrodeposición. *Revista Cubana de Física.* 23: 118-126
3. Suárez-Domínguez EJ, Brizuela N, **Tejera E**, Quintana R, Betancourt JA, Nieto-Villar JM. (2006). La dimensión fractal en la formación de patrones. *R. Cubana de Química.* 18(1): 311.
4. Sautié M, Caceres JLH, Companioni A, Martinez C, **Tejera E**, Valdes K. (2005). El Código Genético desde la Óptica de la Bioinformática. *Rev. Cubana de Informática Médica.* 2.

## COMMUNICATIONS

### ORAL COMMUNICATIONS

1. **Tejera E**, Maykel Cruz-Monteagudo, César Paz-y-Miño. Priorización De Genes Y Rutas Metabólicas Usando Estrategias De Consenso: Aplicación En La Patogénesis De La Preclamsia. V Congreso Ecuatoriano de Geética Humana. 20-22 Julio 2016.
2. **Tejera E**, Rebelo I, Paz-y-Miño C. II Congreso Internacional de nuevos blancos moleculares en el tratamiento del cáncer. Guayaquil, Octubre 2014.
3. **Tejera E**, Rebelo I, Paz-y-Miño C. La bioinformática en la priorización de genes a partir del análisis de microarrays: aplicaciones y desafíos. IV Congreso Internacional de Genética Humana. Guayaquil, Octubre 2014.
4. **Tejera E**, Rebelo I, Paz-y-Miño C. IV Curso de laboratorio aplicado a las ciencias químicas y biológicas. Quito, Septiembre 2014.
5. Oliveira J, Martins F, Gonçalves R, Rebelo I, **Tejera E**. (2014). Protein structure and sequence complexity relationship: effect on protein interactome. Hub and non-Hub Proteins in protein-protein interaction networks. *7th IJUP – 7th Meeting of Young Researchers of U.Porto*, 14th February 2013, Reitoria UP.
6. Suárez-Domínguez EJ, Izquierdo-Kulich E, **Tejera E**, Llanos-Pérez JA, Ledesma-Fosados LI, Betancourt-Mar JA, Quintana R, Nieto-Villar JM. (2007). Morfogénesis de patrones formados por electrodeposición. *XXXIII Congreso de Químicos Teóricos de Expresión Latina*. La Habana, Cuba.
7. **Tejera E**, Nieto JM, Caceres JLH. (2006). Aplicación de un modelo de estados discretos al estudio de la variabilidad de la frecuencia cardiaca. *XVI Forum. Instituto de Ciencias Básicas y Preclínicas*. Universidad de Ciencias Médicas, La Habana, Cuba.
8. **Tejera E**, Maritnes M, Caceres JL, Nieto-Villar JM. (2005). Simulación del crecimiento microbiano en diferentes medios. Estudio fractal. *Jornada Científica. CECAM*. La Habana, Cuba.
9. **Tejera E**, Nieto-Villar JM, Caceres JLH. (2005). Acerca de la presencia de estados discretos en la variabilidad de la frecuencia cardíaca. *Jornada Científica. CECAM*. La Habana, Cuba.
10. **Tejera E**, Brizuelas N, Quintana R, Nieto-Villar JM. (2005). Los Fractales en Química y Biología. Explorando la Complejidad. *Ier Congreso Nacional*

*Universitario de Química*. Universidad del Noreste. Sociedad Química de México. Tampico, México.

11. **Tejera E**, Nieto J. (2004). Determinación de la dimensión fractal en 2D: aspectos teórico-prácticos. *Forum Científico Estudiantil*. Facultad de Química, Universidad de La Habana, Cuba.
12. **Tejera E**, Rodrigues A. (2003). Aplicación del formalismo mecánico-cuántico en sistemas biológicos. *Forum Científico Estudiantil*. Facultad de Física, Universidad de La Habana, Cuba.

## PUBLISHED COMMUNICATIONS

1. **Tejera E**, Bernardes J, Rebelo I. (2011). Bioinformatics analysis of protein–protein interaction network in preeclampsia. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*, Volume 1, Issues 3–4, July–October, Page 275.
2. **Tejera E**, Areias MJ, Pinto AR, Pinto F, Nieto-Villar JM, Rebelo I. (2009). Heart rate variability complexity in normal pregnant women. *Pregnancy adaptability. Oxford ISSHP Congress*.
3. Portelinha A, Belo L, **Tejera E**, Rebelo I. (2007). Myeloperoxidase and Nitric Oxide plasma levels in women with history of preeclampsia. *Proceeding. 8th World Congress of Perinatal Medicine*. Florence. Italy, September 9-13, 695-698.
4. Rojas J, Gómez A, Autie M, Alfonso LM, Apaceiro I, **Tejera E**. (1998). Expansión Superficial de partículas nanométricas de sulfuros de cobre en la porosidad de un polielectrolito orgánico. Alteraciones de los mecanismos de intercambio iónico. *Composite'98: Primer Taller Nacional de Materiales Compuestos*. La Habana, Cuba.

## POSTER COMMUNICATIONS

1. Martins F, Gonçalves R, Oliveira J, Rebelo I, **Tejera E**. (2014). Hub and non-Hub Proteins in protein-protein interaction networks. *7th IJUP – 7th Meeting of Young Researchers of U.Porto*, 14th February 2013, Reitoria UP.
2. Gonçalves R, Ramos I, Martins G, Serodio S, **Tejera E**, Bernardes J, Rebelo I. (2013). Microarrays cross-platform analysis and genetic algorithm optimization for gene prioritization in preeclampsia. *6th IJUP – 6th Meeting of Young Researchers of U.Porto*, 14th February 2013, Reitoria UP.
3. Rodrigues J, Ramos I, Gonçalves R, Martins G, **Tejera E**, Bernardes J, Rebelo I. (2013). Co-expression network analysis in preeclampsia vs normal pregnancy: looking for target genes. *6th IJUP – 6th Meeting of Young Researchers of U.Porto*, 14th February 2013, Reitoria UP.
4. Mota K, Neves M, **Tejera E**, Rebelo I. (2013). Thyroidal response in women with history of preeclampsia: relationship with adhesion molecules. *6th IJUP – 6th Meeting of Young Researchers of U.Porto*, 14th February 2013, Reitoria UP.
5. Neves M, **Tejera E**, Rebelo I. (2012). Bioinformatics approaches on breast cancer microarrays determinations: genes involved in lymph node invasion. *I3S Scientific Retreat*, Porto. Portugal.
6. Santos RM, **Tejera E**, Neves M, Rebelo I. (2012). The effect of Mediterranean diet in obese patients with hypertension, diabetes and dyslipidaemia. *I3S Scientific Retreat*, Porto. Portugal.

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## COURSES

- **2002-2003** - *Post-Graduated Course. "Chromatographic Methods", Chemistry Faculty, Havana University, Cuba.*
- **2001-2002** - *Post-Graduated Course: "Introduction to computational modelling of proteins", Physic Faculty, Havana University, Cuba.*
- **1998** - *Post-Graduated Course: "Training for microbiological analysis of water", National Scientific Research Centre, Havana, Cuba.*

## LANGUAGE SKILLS

- *Spanish (native),*
- *Portuguese*
- *English.*

## PROGRAMMING SKILLS

- *Phyton*
- *R-Software*
- *Matlab, Octave.*
- *MySQL, PhP, Apache, JavaScript, HTML.*

- *Pascal and Fortran*