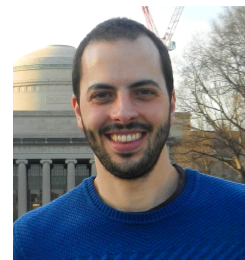


João Conde  
Researcher, Invited Assistant Professor  
NOVA Medical School|Faculdade de Ciências Médicas (NMS|FCM)  
Centre for Toxicogenomics and Human Health (ToxOmics)  
**Postal address:**  
Campo Mártires da Pátria, 130  
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**Postal address:**  
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## Personal information

João Conde is an Assistant Professor and Group Leader at NOVA Medical School of Universidade Nova de Lisboa, ToxOmics, CEDOC. He received his PhD in Biology, specialty in NanoBiotechnology from the NOVA University and Universidad de Zaragoza in 2014, under the FP7 European Consortium NanoScieE+ – NANOTRUCK for the development of multifunctional gold nanoparticles for gene silencing. After, he was a Marie Curie Fellow at the Massachusetts Institute of Technology, Harvard-MIT Division for Health Sciences and Technology and in School of Engineering and Materials Science, Queen Mary University of London. From 2017 to 2019 he was a Junior Investigator at Instituto de Medicina Molecular. In 2019, he won an ERC Starting Grant to build a genetic biobarcode to profile breast cancer heterogeneity. He is also co-founder of the biotech company TargTex, Targeted Therapeutics for Glioblastoma Multiforme.

The main aspects related to the recognition and diffusion of his early contributions are: nearly 80 articles in journals of Cancer therapy, Materials Science and Biomedicine (Nat. Materials, Nat. Nanotechnology, Nat. Communications, PNAS, Accounts of Chemical Research, Progress in Materials Science, ACS Nano, Advanced Materials, JACS, Angewandte Chemie, Advanced Functional Materials, Trends in Cancer, Trends in Biotech., Biomaterials, etc.), more than 30 articles are as 1st author and more than 25 articles as corresponding author and cited more than 4600 times (h-index 36). Several of them have been selected as cover page of journals such as Nature Nanotechnology (Covid-19 Special issue), Adv. Functional Materials, JACS, Angewandte Chemie, ACS Sensors, Biomaterials Science, ACS Applied Bio Mat, Adv. Healthcare Materials, Analytical & Bioanalytical Chemistry and BioTechniques. Moreover, 6 international patents were submitted and approved, all with relevant developments in nanomaterials-based platforms for cancer therapy and diagnosis. He was also awarded with several international awards, including the Wellcome Image Awards 2017, the Nano-Micro Letters Researcher Award, and the National Cancer Institute Image award.

Conde Lab is focused on the application of multifunctional nano-and-biomaterials for cancer therapy and diagnosis, especially for tumour imaging and targeting, gene therapy/editing and drug delivery.

## Qualifications

Biology, Doctorate, Universidade NOVA de Lisboa  
2010 → 2014  
Award Date: 4 Dec 2013  
PhD Fellow, Faculdade de Ciências e Tecnologia (FCT)  
2010 → 2014  
Research Fellow, Faculdade de Ciências e Tecnologia (FCT)  
2009 → 2010  
Under-graduate Fellow, Centre for Toxicogenomics and Human Health (ToxOmics)  
2007 → 2008

## Employment

**Invited Assistant Professor**  
NOVA Medical School|Faculdade de Ciências Médicas (NMS|FCM)  
Universidade NOVA de Lisboa  
Lisboa, Portugal  
1 Feb 2020 → present

**Principal Investigator**

Researcher  
Centre for Toxicogenomics and Human Health (ToxOmics)  
Universidade NOVA de Lisboa  
Portugal  
1 Feb 2020 → present

#### **Junior Researcher**

Instituto de Medicina Molecular João Lobo Antunes - iMM  
Portugal  
1 Jan 2017 → 1 Jan 2020

#### **Postdoctoral Associate**

Queen Mary University of London  
London, United Kingdom  
1 Jan 2016 → 1 Jan 2017

#### **Postdoctoral Associate - Marie Curie Fellow**

Massachusetts Institute of Technology (MIT)  
Cambridge, United States  
1 Jan 2014 → 1 Jan 2017

## **Research outputs**

**Erratum: Revisiting gene delivery to the brain: Silencing and editing (Biomaterials Science (2021) DOI: 10.1039/D0BM01278C)**

Conniot, J., Talebian, S., Simões, S., Ferreira, L. & Conde, J., 21 Feb 2021, In : Biomaterials Science. 9, 4, p. 1464-1465 2 p.

**Revisiting gene delivery to the brain: Silencing and editing**

Conniot, J., Talebian, S., Simões, S., Ferreira, L. & Conde, J., 21 Feb 2021, In : Biomaterials Science. 9, 4, p. 1065-1087 23 p.

**Ultrahigh Penetration and Retention of Graphene Quantum Dot Mesoporous Silica Nanohybrids for Image Guided Tumor Regression**

Prasad, R., Jain, N. K., Yadav, A. S., Jadhav, M., Radharani, N. N. V., Gorain, M., Kundu, G. C., Conde, J. & Srivastava, R., 8 Jan 2021, In : ACS Applied Bio Materials.

**Osteogenic differentiation of human mesenchymal stem cells by the single action of luminescent polyurea oxide bi dendrimers**

Conde, J., Bonifácio, V. D. B. & Pires, R. F., 21 Dec 2020, In : ACS Applied Bio Materials. 3, 12, p. 9101-9108

**Liposomal nanotheranostics for multimode targeted in vivo bioimaging and near-infrared light mediated cancer therapy**

Prasad, R., Jain, N. K., Yadav, A. S., Chauhan, D. S., Devrukhkar, J., Kumawat, M. K., Shinde, S., Gorain, M., Thakor, A. S., Kundu, G. C., Conde, J. & Srivastava, R., 1 Dec 2020, In : Communications Biology. 3, 1, 284.

**Localized nanotheranostics: recent developments in cancer nanomedicine**

Prasad, R., Jain, N. K., Conde, J. & Srivastava, R., Dec 2020, In : Materials Today Advances. 8, 100087.

**"Swallowing the doctor": an interview with João Conde about the future of nanomedicine**

Conde, J., 13 Oct 2020, In : Communications Biology.

**Biomimetic cancer cell membrane-coated nanosystems as next-generation cancer therapies**

Pereira-Silva, M., Santos, A. C., Conde, J., Hoskins, C., Concheiro, A., Alvarez-Lorenzo, C. & Veiga, F., 29 Sep 2020, In : Expert Opinion on Drug Delivery.

### **Why Go NANO on COVID-19 Pandemic?**

Talebian, S. & Conde, J., 2 Sep 2020, In : Matter. 3, 3, p. 598-601 4 p.

### **Nanotechnology-based disinfectants and sensors for SARS-CoV-2**

Talebian, S., Wallace, G. G., Schroeder, A., Stellacci, F. & Conde, J., 1 Aug 2020, In : Nature Nanotechnology. 15, 8, p. 618-621 4 p.

### **Above and Beyond Cancer Therapy: Translating Biomaterials into the Clinic**

Conde, J., 16 May 2020, In : Trends in Cancer. 6, 9, p. 730-732

### **Nanoparticle-AntagoMIR based targeting of MIR-31 to induce osterix and osteocalcin expression in mesenchymal stem cells**

McCully, M., Conde, J., Baptista, P. V., Mullin, M., Dalby, M. J. & Berry, C. C., 1 Feb 2018, In : PLoS ONE. 13, 2, e0192562.

### **Editorial: Cancer Nanotheranostics: What Have We Learned So Far?**

Conde, J., Tian, F., de la Fuente, J. M. & Baptista, P. M. R. V., 6 Jan 2016, In : Frontiers in Chemistry. 3, 71.

### **Significance of the balance between intracellular glutathione and polyethylene glycol for successful release of small interfering RNA from gold nanoparticles**

McCully, M., Hernandez, Y., Conde, J., Baptista, P. M. R. V., de la Fuente, J. M., Hursthouse, A., Stirling, D. & Berry, C. C., Oct 2015, In : Nano Research. 8, 10, p. 3281-3292 12 p.

### **15 years on siRNA delivery: Beyond the State-of-the-Art on inorganic nanoparticles for RNAi therapeutics**

Conde, J., Ambrosone, A., Hernandez, Y., Tian, F., McCully, M., Berry, C. C., Baptista, P. M. R. V., Tortiglione, C. & de la Fuente, J. M., Aug 2015, In : Nano today. 10, 4, p. 421-450 30 p.

### **POxylated Polyurea Dendrimers: Smart Core-Shell Vectors with IC50 Lowering Capacity**

Restani, R. B., Conde, J., Pires, R. F., Martins, P., Fernandes, M. A. N. D. C. R., Baptista, P. M. R. V., Bonifacio, V. D. B. & Ricardo, A. I. N. M. A. D. O., Aug 2015, In : Macromolecular Bioscience. 15, 8, p. 1045-1051 7 p.

### **Gold nanoparticle-siRNA mediated oncogene knockdown at RNA and protein level, with associated gene effects**

Child, H. W., Hernandez, Y., Conde, J., Mullin, M., Baptista, P., Maria de la Fuente, J. & Berry, C. C., 2015, In : Nanomedicine. 10, 16, p. 2513-2525 13 p.

### **RNAi-based glyconanoparticles trigger apoptotic pathways for in vitro and in vivo enhanced cancer-cell killing**

Conde, J., Tian, F., Hernandez, Y., Bao, C., Baptista, P. M. R. V., Cui, D., Stoeger, T. & de la Fuente, J. M., 2015, In : Nanoscale. 7, 19, p. 9083-9091 9 p.

### **Gold-nanobeacons for gene therapy: Evaluation of genotoxicity, cell toxicity and proteome profiling analysis**

Conde, J., Larginho, M., Cordeiro, A., Raposo, L. R., Costa, P. M., Santos, S., Diniz, M. S., Fernandes, A. R. & Baptista, P. V., 1 Aug 2014, In : Nanotoxicology. 8, 5, p. 521-532 12 p.

### **Antibody-drug gold nanoantennas with Raman spectroscopic fingerprints for in vivo tumour theranostics**

Conde, J., Bao, C., Cui, D., Baptista, P. V. & Tian, F., 10 Jun 2014, In : Journal of Controlled Release. 183, 1, p. 87-93 7 p.

### **A promising road with challenges: where are gold nanoparticles in translational research?**

Bao, C., Conde, J., Polo, E., del Pino, P., Moros, M., Baptista, P., Grazu, V., Cui, D. & de la Fuente, J. M., 2014, In : Nanomedicine. 9, 15, p. 2353-2370 18 p.

### **Polyurea dendrimer for efficient cytosolic siRNA delivery**

Restani, R. B., Conde, J., Baptista, P. V., Cidade, M. T., Bragança, A. M., Morgado, J., Correia, I. J., Aguiar-Ricardo, A. & Bonifácio, V. D. B., 2014, In : RSC Advances. 4, 97, p. 54872-54878 7 p.

**Revisiting 30 years of biofunctionalization and surface chemistry of inorganic nanoparticles for nanomedicine**

Conde, J., Dias, J. T., Grazu, V., Moros, M., Baptista, P. & de la Fuente, J. M., 2014, In : *Frontiers in Chemistry*. 2, 27 p., 48.

**Designing gold nanoparticles for in vivo gene silencing as a new therapeutic tool**

Conde, J., Ambrosone, A., Hernandez, Y., Marchesano, V., Tian, F., Ricardo Ibarra, M., Baptista, P. V., Tortiglione, C. & de la Fuente, J. M., 1 Dec 2013, In : *Human Gene Therapy*. 24, 12, p. A24-A24 1 p.

**In vivo tumor targeting via nanoparticle-mediated therapeutic siRNA coupled to inflammatory response in lung cancer mouse models**

Conde, J., Tian, F., Hernández, Y., Bao, C., Cui, D., Janssen, K. P., Ibarra, M. R., Baptista, P. V., Stoeger, T. & de la Fuente, J. M., 1 Oct 2013, In : *Biomaterials*. 34, 31, p. 7744-7753 10 p.

**Gold-nanobeacons for simultaneous gene specific silencing and intracellular tracking of the silencing events**

Conde, J., Rosa, J., de la Fuente, J. M. & Baptista, P. V., 1 Mar 2013, In : *Biomaterials*. 34, 10, p. 2516-2523 8 p.

**Nanomaterials for reversion of multidrug resistance in cancer: a new hope for an old idea?**

Conde, J., de la Fuente, J. M. & Baptista, P. V., 2013, In : *Frontiers in Pharmacology*. 4, 134.

**Modification of plasmid DNA topology by histone-mimetic gold nanoparticles**

Conde, J., Baptista, P. V., Hernández, Y., Sanz, V. & De La Fuente, J. M., 1 Nov 2012, In : *Nanomedicine*. 7, 11, p. 1657-1666 10 p.

**Design of multifunctional gold nanoparticles for in vitro and in vivo gene silencing**

Conde, J., Ambrosone, A., Sanz, V., Hernandez, Y., Marchesano, V., Tian, F., Child, H., Berry, C. C., Ibarra, M. R., Baptista, P. V., Tortiglione, C. & De La Fuente, J. M., 25 Sep 2012, In : *ACS Nano*. 6, 9, p. 8316-8324 9 p.

**RNA quantification using noble metal nanoprobe: Simultaneous identification of several different mrna targets using color multiplexing and application to cancer diagnostics**

Conde, J., Doria, G., De La Fuente, J. M. & Baptista, P. V., 15 Aug 2012, *Nanoparticles in Biology and Medicine: Methods and Protocols*. Soloviev, M. (ed.). Totowa, NJ: Humana Press, p. 71-87 17 p. (Methods in Molecular Biology; vol. 906).

**Effect of PEG biofunctional spacers and TAT peptide on dsRNA loading on gold nanoparticles**

Sanz, V., Conde, J., Hernández, Y., Baptista, P. V., Ibarra, M. R. & De La Fuente, J. M., 6 Jun 2012, In : *Journal Of Nanoparticle Research*. 14, 6, 917.

**Gold-nanobeacons for real-time monitoring of RNA synthesis**

Rosa, J., Conde, J., de la Fuente, J. M., Lima, J. C. & Baptista, P. V., 1 Jun 2012, In : *Biosensors and Bioelectronics*. 36, 1, p. 161-167 7 p.

**Multifunctional gold nanoparticles for gene silencing**

Sanz, V., Conde, J., Ambrosone, A., Hernandez, Y., Marchesano, V., Estrada, G. G., Ibarra, M. R., Baptista, P. V., Tian, F., Tortiglione, C. & de la Fuente, J. M., 25 Mar 2012, In : *Abstracts Of Papers Of The American Chemical Society*. 243

**Noble metal nanoparticles for biosensing applications**

Doria, G., Conde, J., Veigas, B., Giestas, L., Almeida, C., Assunção, M., Rosa, J. & Baptista, P. V., 1 Feb 2012, In : *Sensors*. 12, 2, p. 1657-1687 31 p.

**Genotoxic effects of occupational exposure to lead and influence of polymorphisms in genes involved in lead toxicokinetics and in DNA repair**

García-Lestón, J., Roma-Torres, J., Vilares, M., Pinto, R., Prista, J., Teixeira, J. P., Mayan, O., Conde, J., Pingarilho, M., Gaspar, J. F. D. R., Pásaro, E., Méndez, J. & Laffon, B., 1 Jan 2012, In : *Environment International*. 43, 1, p. 29-36

### **Nanophotonics for molecular diagnostics and therapy applications**

Conde, J., Rosa, J., Lima, J. C. & Baptista, P. V., 2012, In : International Journal Of Photoenergy. 2012, 619530.

### **Noble metal nanoparticles applications in cancer**

Conde, J., Doria, G. & Baptista, P. V., 2012, In : Journal of drug delivery. 2012, p. 751075

### **Alloy metal nanoparticles for multicolor cancer diagnostics**

Baptista, P. V., Doria, G. & Conde, J., 2011, *Colloidal Quantum Dots/Nanocrystals for Biomedical Applications VI*. SPIE- International Society for Optical Engineering, 79090K. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE; vol. 7909).

### **In vitro transcription and translation inhibition via DNA functionalized gold nanoparticles**

Conde, J., De La Fuente, J. M. & Baptista, P. V., 17 Dec 2010, In : Nanotechnology. 21, 50, 505101.

### **Use of cyclodextrins as scavengers of inhibitory photo-products in light controlled in vitro synthesis of RNA**

Vidal Pinheiro, A., Conde, J., Parola, A. J., Lima, J. C. & Baptista, P. V., 25 Jun 2010, In : Journal of Photochemistry and Photobiology A: Chemistry. 213, 2-3, p. 147-151 5 p.

### **RNA quantification using gold nanoprobe - application to cancer diagnostics**

Conde, J., de la Fuente, J. M. & Baptista, P. V., 24 Feb 2010, In : Journal of Nanobiotechnology. 8, 5.

### **Association of common variants in mismatch repair genes and breast cancer susceptibility: a multigene study**

Conde, J., Silva, S. N., Azevedo, A. P., Teixeira, V., Esperança Pina, J., Rueff, J. & Gaspar, J. F., Sep 2009, In : BMC Cancer. 9, NA, p. 344 8 p.

## **Activities**

### **JorTec 2021 - Jornadas Tecnológicas (JorTec) da Faculdade de Ciências e Tecnologia**

João Conde (Speaker)

22 Feb 2021

### **13º Encontro Nacional de Química Orgânica/6º Encontro Nacional de Química Terapêutica (13ENQO/6ENQT)**

João Conde (Speaker)

2020

### **Champalimaud Seminar Series**

João Conde (Speaker)

2017

### **Nanomedicine Seminars**

João Conde (Speaker)

2017

### **Nanotechnology Seminars**

João Conde (Speaker)

2017

### **10th World Biomaterials Congress**

João Conde (Speaker)

2016

**11th Annual Broad Retreat - Broad Institute of MIT and Harvard**

João Conde (Speaker)

2015

**4th International Conference on Multifunctional, Hybrid and Nanomaterials**

João Conde (Speaker)

2015

**Society for Biomaterials**

João Conde (Speaker)

2015

**8th International Conference of Coelenterate Biology**

João Conde (Speaker)

2013

**Collaborative Congress of the European Society for Gene and Cell Therapy and the Spanish Society for Gene and Cell Therapy**

João Conde (Speaker)

2013

**Elsevier 3rd International Conference on Multifunctional, Hybrid and Nanomaterials (Hybrid Materials 2013)**

João Conde (Speaker)

2013

**E-MRS 2013 SPRING MEETING, Bionanomaterials for imaging, sensing and actuating**

João Conde (Speaker)

2013

**European Conference of Human Genetics 2013, June 2013, Paris, France.**

João Conde (Speaker)

2013

**International Conference on Materials for Advanced Technologies 2013.**

João Conde (Speaker)

2013

**American Chemical Society Spring 2012 National Meeting**

João Conde (Speaker)

2012

**Materials Research Society Fall Meeting**

João Conde (Speaker)

2012

**Miami 2012 Winter Symposium: Nanotechnology in Biomedicine**

João Conde (Speaker)

2012

**NanoMed2012, International Conference on Nanotechnology in Medicine**

João Conde (Speaker)

2012

**SPIE West 2012**

João Conde (Speaker)

2012

**SPIE West 2011, Colloidal Quantum Dots/Nanocrystals for Biomedical Applications VI**

João Conde (Speaker)

2011

**TNT2010 – Trends in Nanotechnology**

João Conde (Speaker)

2010

**EURONANOFORUM 2009. Nanotechnology for Sustainable Economy. European and International Forum on Nanotechnology**

João Conde (Speaker)

2009

**XXXIV Genetic Journeys - Human Cancer Genetics and Genotoxicity, Portuguese Society of Human Genetics, 2009, Lisbon, Portugal.**

João Conde (Speaker)

2009

## **Prizes**

**Biomaterials Science Emerging Investigator**

Conde, João (Recipient), 2020

**Biomimetic cell membrane-coated vitamin E-based micelles for multimodal pancreatic cancer nanotheranostics - PTDC/BTM-MAT/4738/2020**

Conde, João (Recipient), 2020

**ERC Starting Grant: European Research Council - ERC-StG-2019-848325**

Conde, João (Recipient), 2019

**Junior Investigator: FCT Stimulus of Scientific Employment, Portugal.**

Conde, João (Recipient), 2018

**Marie Curie International Outgoing Fellowship for Career Development, Marie Skłodowska- Curie actions**

Conde, João (Recipient), 2013

**Nano-Micro Letters Researcher Award, Nature Research Society**

Conde, João (Recipient), 2016

**National Cancer Institute Image award: Cancer close up, USA.**

Conde, João (Recipient), 2016

**PhD Fellowship - National Science Foundation Portugal**

Conde, João (Recipient), 2009

**Wellcome Image Awards 2017: Wellcome Trust, UK.**

Conde, João (Recipient), 2017