

Curriculum Vitae – João Conde, PhD



PERSONAL DETAILS

Name: João Diogo Osório de Castro Conde

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ORCID: [0000-0001-8422-6792](https://orcid.org/0000-0001-8422-6792) ; Scopus ID: [56992468300](https://scopus.com/authid/detail.url?authorID=56992468300)

Hobby: Painting

João Conde is a **Group Leader** (*Cancer NanoMedicine Lab*), **Professor** and **Vice-Dean for Research** at **NOVA Medical School, Universidade Nova de Lisboa, ToxOmics**. In 2014, he received his **PhD in Biology**, specialty in NanoBiotechnology from the **Universidade Nova de Lisboa** and the **Universidad de Zaragoza**, under the **FP7 European Consortium NanoScieE⁺ – NANOTRUCK**: multifunctional 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 at 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 (1.5M€)** from the **European Research Council** to build a genetic barcode to profile breast cancer heterogeneity. Since the ERC Starting Grant, he was able to publish more than 70 publications in top journals, filled 4 patents and mentored more than 20 students and post-docs.

He is also **co-founder of the biotech company TargTex, Targeted Therapeutics for Glioblastoma Multiforme with a ~20M€ funding**. Since 2020, he is also a **collaborator at Global Burden of Disease (GBD) Consortium** from the **Institute for Health Metrics and Evaluation (IHME), University of Washington**. In 2023, he partnered with **Vector Bioscience Cambridge and AstraZeneca to develop RNA-based cancer therapies from the European Innovation Council (2.5M€)**. In 2023, was elected for the **Scientific Advisory Board of FCT: Fundação para a Ciência e a Tecnologia**. Since 2024, he has been on the **Scientific Advisory board of Vector Bioscience Cambridge**.

The main aspects related to the recognition and diffusion of his early contributions are: **more than 120 articles (average impact factor of >25 in the last 5 years) in top-tier journals** of Cancer Therapy, Oncology, Nanotechnology/Materials Science and NanoMedicine (*The Lancet, Nature Materials, Nature Reviews Materials, The Lancet Oncology, Nature Nanotechnology, JAMA Oncology, Nature Communications, The Lancet Gastroenterol Hepatol, Nature Rev Methods Primers, PNAS, Accounts of Chemical Research, The Lancet Child Adolesc Health, Progress in Materials Science, ACS Nano, Advanced Materials, JACS, Angewandte Chemie, Advanced Functional Materials, Trends in Cancer, Trends in Biotechnology, Biomaterials, etc.*), **more than 30 articles are as 1st author and more than 60 articles as corresponding author and cited more than 13000 times (h-index 57)**. **More than 30** of them have been selected as **Cover** of journals such as Nature Nanotechnology (COVID-19 Special Issue), Nature Materials, The Lancet, The Lancet Oncology, The Lancet Neurology, ACS Nano, Adv. Functional Materials, Trends in Cancer, BioTechniques, etc. In addition, **10 international patents** on nanomaterials-based platforms for cancer therapy and diagnosis were submitted and approved. He was also awarded **several international awards**, including the **2023 and 2022 World's Top 2% Scientists list by Stanford University**, the **Nanomaterials 2020 Young Investigator Award**, the **2021 Biomaterials Science Emerging Investigator**, the **Top 2% Most cited in Nanoscience/Nanotechnology from PLOS Biology**, the **Wellcome Image Awards 2017**, the **Nano-Micro Letters Researcher Award**, and the **National Cancer Institute Image award**.

EDUCATION

- **PhD in Biology**, Specialty **Nanobiotechnology**, *Summa cum laude*, **Universidade Nova de Lisboa**, Portugal and Instituto de Nanociencia de Aragón at **Zaragoza University**, Spain, 2013.
- **MSc in Biology**, *Summa cum laude*, **Universidade Lusófona de Humanidades e Tecnologias**, Portugal, 2008.

CURRENT POSITION(s)

- March 2024 – Present: **Vice-Dean for Research** at **NOVA Medical School, Universidade Nova de Lisboa** (Portugal).
- March 2024 – Present: **Value Creation Council** at **Universidade Nova de Lisboa** (Portugal).
- March 2024 – Present: **Strategic Council for Innovation** at **Universidade Nova de Lisboa** (Portugal).
- January 2024 – Present: **Scientific Advisory Board** at **Vector Bioscience Cambridge** (UK).
- November 2023 – Present: **Coordination member** of the Drug Discovery and Advanced Therapies group **NOVA Health Strategic Platform** at **Universidade Nova de Lisboa** (Portugal).
- March 2023 – Present: **Scientific Advisory Board** (Health and Life Sciences board) at **FCT: Fundação para a Ciência e a Tecnologia** (Portugal).
- March 2020 – Present: **Member** of the **Global Burden Disease (GBD)**, at **Institute for Health Metrics and Evaluation (IHME)**, University of Washington (US).
- February 2020 – Present: **Group Leader, Principal Investigator** (Cancer NanoMedicine Lab) at **ToxOmics, NOVA Medical School, Universidade Nova de Lisboa** (Portugal).
- February 2020 – Present: **Assistant Professor with Tenure** at **NOVA Medical School, Universidade Nova de Lisboa** (Portugal).
- September 2019 – Present: Co-founder and Shareholder of **TargTex SA start-up company: Targeted therapies for the treatment of brain cancer** (Portugal).

PREVIOUS POSITION(s)

- October 2017 – January 2020: **Junior Researcher** at **Instituto de Medicina Molecular, Faculdade de Medicina de Lisboa** (Portugal).
- April 2016 – April 2017: **Marie Curie Early-Stage Career Fellow** at School of Engineering and Materials Science at **Queen Mary University London** (UK).
- February 2014 – April 2016: **Marie Curie Early-Stage Career Fellow** at the **Massachusetts Institute of Technology (MIT), Harvard–MIT Division for Health Sciences and Technology, Institute for Medical Engineering and Science** (US).
- January 2010 – December 2013: **Science and Technology Foundation PhD Fellow** (FCT, SFRH/BD/ 62957/2009), **Universidade Nova de Lisboa** (Portugal) and **Zaragoza University** (Spain).
- January 2009 – January 2010: Research fellowship (PTDC/BIO/66514/2006), Research Centre for Human Molecular Genetics, **FCT/UNL, Universidade Nova de Lisboa** (Portugal).
- September 2007 – December 2008: Under-graduate fellowship, Molecular Genetics Department at **NOVA Medical School, Universidade Nova de Lisboa** (Portugal).

BACKGROUND

- Cancer Nanomedicine, Nanotechnology and Materials Science.
- Precision Medicine and Oncogenetics.
- Oncology and Biomedicine.

- Multifunctional nanomaterials for Cancer therapy and diagnostics.
- Genetic therapies based on DNA/RNA, siRNA/miRNA.
- Gene therapy, drug delivery, tumor targeting.
- Smart clinical platforms based on new materials and technologies for local therapy in cancer.
- Gene therapy/Antisense DNA/RNA Interference/microRNA, gene editing CRISPR/Cas9.
- *In vivo* cancer mice models (breast, colon, gastric, glioblastoma, prostate, pancreatic, ovarian and lung cancer) – tumour induction and administration (systemic and local) of anti-cancer therapies.

TEACHING

- 2022 – Present: Invited classes from **PhD Course in Health Sciences**, Curricular Unit New Cellular and Molecular Therapies, **NOVA Medical School, Universidade NOVA de Lisboa**.
- 2021 – Present: Invited classes from **Master Course in Biomedical Research**, Curricular Unit Translational & Precision Medicine, **NOVA Medical School, Universidade NOVA de Lisboa**.
- 2020 – Present: **Genetics** from **Master Course in Medicine** (Unidade Curricular de Genética do Mestrado Integrado em Medicina), **NOVA Medical School, Universidade NOVA de Lisboa**.
- 2010 – 2013: Invited Lab classes of **Molecular Diagnostics and Bionanotechnology** from **Master Course in Molecular Genetics and Biomedicine, FCT/UNL, Universidade NOVA de Lisboa**.

MENTORING EXPERIENCE

- Emily Rohrmoser, **MSc student**, Nova Medical School (May 2024-to present).
- Diogo Dias, **BSc student**, Nova Medical School (Jan 2024-to present).
- Leonardo di Filippo, **PhD student**, School Pharmaceutical Sciences/UNESP (Jan 2023-to present).
- Alazne Moreno, **PhD student**, University of Barcelona (Sept 2023-to Jan 2024).
- Cristina Volpini, **Erasmus student**, University of Pavia (Jan 2023-to Sept 2023).
- Alessia Privitera, **Erasmus student**, University of Pavia (Jan 2023-to Sept 2023).
- Marta Santos, **MSc student**, Nova Medical School and FCT-NOVA (Sept 2022- Sept 2023).
- Mariana Pereira, **MSc student**, Nova Medical School and Universidade do Algarve (Sept 2022- Sept 2023).
- Pedro Ribeiro, **PhD student**, Nova Medical School (Sept 2022-to present).
- Catarina Martins, **PhD student**, Nova Medical School and CIC biomaGUNE (Sept 2022-to present).
- João Pais, **PhD student**, Universidade de Coimbra and Nova Medical School (Sept 2022-to present).
- Ana Cunha, **BSc student**, Nova Medical School (Mar 2022-Jul 2022).
- Carolina Melo, **MSc student**, Faculdade Medicina, Universidade de Coimbra (Mar 2022-Jul 2022).
- Pedro Rosado, **BSc student**, Nova Medical School (Mar 2022-Apr 2022).
- Beatriz Salvado, **BSc student**, Nova Medical School (Feb 2022-Mar 2022).
- Ana Rita Mariano, **BSc student**, Nova Medical School (Feb 2022-Mar 2022).
- Jhenifer Oliveira, **PhD student**, Nova Medical School (Oct 2021-to present).
- Diana Castro Peixoto, **PhD student**, Universidade de Coimbra & Nova Medical School (Sept 2021-to present).
- Joana Amorim, **MSc student**, Nova Medical School (Sept 2021-Oct 2022).
- Diana Sousa, **PhD student**, Nova Medical School (Sept 2020-to present).
- Charlotte Baker, **PhD student**, Instituto de Medicina Molecular (Oct 2017-Oct 2019).
- Daniel Fulop, **MSc student**, Harvard University, Sophomore Internship (Jun 2015-Feb 2016).
- Cristina Violi, **MSc student**, Socrates-Erasmus Programme Italy, (Feb 2013-Aug 2013).
- André Salvada, **BSc student**, Universidade Nova de Lisboa, (Jan 2013-Mar 2013).
- Pedro Dionisio, **BSc student**, Universidade Nova de Lisboa, (Mar 2011-Sept 2011).

JOURNAL REVIEWER

• Nature Reviews Cancer; Nature Materials; Nature Biotechnology; Nature Communications; Nature Protocols; Nature Reviews Bioengineering; PNAS; Accounts Chemical Research; Chemical Reviews; Advanced Drug Delivery Reviews; Progress Polymer Science; Advanced Materials; ACS Nano; Advanced Functional Materials; Nature Asia Materials; Chemical Science; Theranostics; Small; Journal Controlled Release; Nanoscale; Analytical Chemistry; Advanced Healthcare Materials; Scientific Reports; Nanomedicine; Nanotoxicology; Nanomedicine: NBM; Acta Biomaterialia; Journal Materials Chemistry B; PLoS ONE; ACS Applied Materials & Interfaces; Bioconjugate Chemistry; Journal Biomedical Nanotechnology; Sensors & Actuators: B Chemical; Advanced Science; Nanoscale Research Letters; Colloids and Surfaces B: Biointerfaces; Journal of Nanobiotechnology; among others.

Web of Science Review Metrics: <https://www.webofscience.com/wos/author/record/1246512>

RESEARCH EVALUATOR

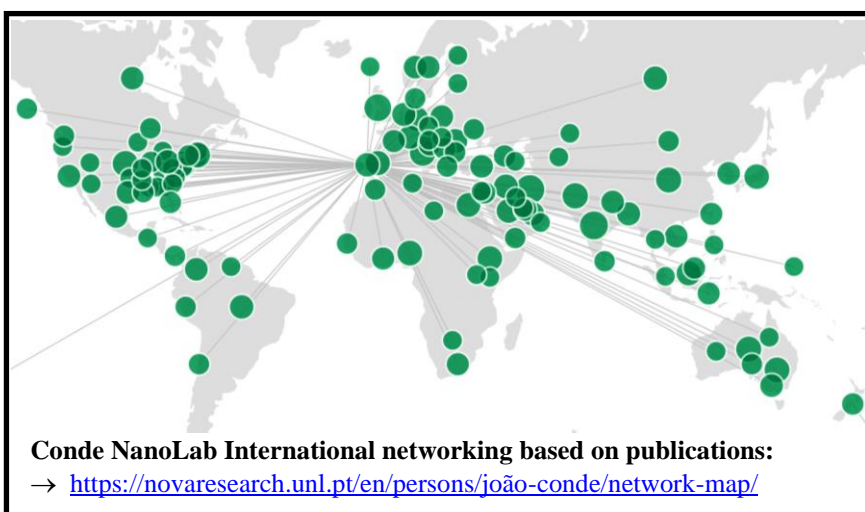
- European Research Executive Agency, Brussels.
- European Commission and Innovative Health Initiative (IHI), Brussels.
- The Swiss National Science Foundation, Switzerland.
- Instituto de Medicina Molecular, Faculdade de Medicina de Lisboa, Portugal.
- Kingdom of Saudi Arabia Ministry of National Guard – Health Affairs, Saudi Arabia.

MEMBER

- March 2020 – Present: Senior Collaborator of the **Global Burden Disease (GBD)**, **Institute for Health Metrics and Evaluation (IHME)**, University of Washington (US).

INTERNATIONAL NETWORKING/COLLABORATORS

• Main collaborators: **Massachusetts Institute of Technology (US)**, **Yale University (US)**, **Harvard Medical School (US)**, **Harvard University (US)**, **Broad Institute of MIT and Harvard (US)**, **Brigham and Women's Hospital (US)**, **Dana-Farber Cancer Institute (US)**, **Duke University (US)**, **University of Pennsylvania (US)**, **Tel Aviv University (Israel)**, **University of British Columbia (Canada)**, **Johns Hopkins University (US)**, **Case Western Reserve University (US)**, **University of Cambridge (UK)**, **University of Oxford (UK)**, **University College London (UK)**, **University of Turin (IT)**, **University Hospital Düsseldorf (Germany)**, **Dublin Institute of Technology (Ireland)**, **Shanghai JiaoTong University (China)**, **University of Glasgow (UK)**, **Fundação Champalimaud (Portugal)**, **iMed.UL (Portugal)**, **Universidade Coimbra (Portugal)**.



RESEARCH PROJECTS AS PI

- European Research Council - ERC Starting Grant: ERC-StG-2019-848325 – *GelGeneCircuit*: Profiling therapy and heterogeneity in cancer using bioresponsive nanohydrogels for the delivery of logic multicolor genetic circuits (2019-2024). *Funding 1.5M€*
- FCT Grant PTDC/BTM-MAT/4738/2020 – Biomimetic cell membrane-coated vitamin E-based micelles for multimodal pancreatic cancer nanotheranostics (2020-2023). *Funding 250K€*
- FCT Stimulus of Scientific Employment CEECIND/01688/2017 – Hydrogel scaffolds for delivery of gene therapies (2018-2019). *Funding 230K€*

RESEARCH PROJECTS with INDUSTRY

- RNA-based cancer therapies. By *Vector Bioscience Cambridge* and *Astrazeneca* - European Innovation Council – EIC Transition Grant (2023-2026). *Funding 2.5M€*
- Clinical validation of NANO-PL: a hydrogel-based formulation of a small molecule for a highly targeted therapy against Glioblastoma Multiforme (GBM). By *TargTex SA* - European Innovation Council – EIC Accelerator. *Funding 14M€*

RESEARCH PROJECTS AS TEAM MEMBER

- PAIR-Lung: Patient-derived lung cancer organoids for recreating tumor spread through AIR spaces phenomenon. FCT Grant, 2022.07775.PTDC (2022-2024).
- Combined immUNotherapeutiC approach for targeting bone marrow microenvironment in Multiple Myeloma. FCT Grant, PTDC/MED-ONC/1215/2021 (2021-2024).
- Albumedix Ltd. - Recombinant albumin conjugates for cancer therapy (2018).
- SuprHApolymers - Engineering self-assembly of hyaluronan-based glycopolymers with peptides (2016).
- NOF Corporation - Characterization of PEG-based hydrogels (2014-2015).
- NANOTRUCK- Multifunctional gold nanoparticles for gene therapy. EU, ERANET-NanoSciera⁺ (2012-2014).
- Silence is golden (siAu) - Silencing the silencers via multifunctional gold nanoconjugates towards cancer therapy. FFCT/FCT/UNL, PTDC/BBB-NAN/1812/2012.
- Nanosystems for delivery of caged compounds. FFCT/FCT/UNL, PTDC/QUI-QUI/ 112597/2009.
- Sensitive and selective detection of DNA/RNA based on functionalized gold nanoparticles - application to pathogen detection, mutation detection and RNA quantification. FFCT/FCT/UNL, PTDC/BIO/66514/2006.

START-UP COMPANIES

- 2019 – Present: Co-founder of *TargTex SA*, Portuguese start-up: Targeted therapies for the treatment of brain cancer. *Portugal Ventures Funding 2M€ + Private Funding, Basi 2M€ + EIC Accelerator 14M€*.

PRIZES AND AWARDS

- 2023 - **World's Top 2% Scientists list**, Stanford University.
- 2022 - **World's Top 2% Scientists list**, Stanford University.
- 2021 - **Nanomaterials 2020 Young Investigator Award**.
- 2021 - **Top 2% Most Cited Researchers in Nanoscience and Nanotechnologies**, PLOS Biology.
- 2021 - **2021 Biomaterials Science Emerging Investigators**, Royal Society of Chemistry.
- 2019 - **ERC Starting Grant**: ERC-StG-2019-848325, European Research Council, EU.

- 2018 - **Junior Investigator**: FCT Stimulus of Scientific Employment, (CEECIND/01688/2017) National Science Foundation, PT.
- 2017 - **Wellcome Image Awards 2017**: Wellcome Trust, UK.
- 2016 - **Nano-Micro Letters Researcher Award**, Nature Research Society.
- 2016 - **National Cancer Institute Image award**: Cancer close up, US.
- 2013 - **Marie Curie International Outgoing Fellowship** for Career Development, Marie Skłodowska-Curie actions (FP7-PEOPLE-2013-IOF).
- 2009 - **PhD Fellowship** - National Science Foundation - PhD Grant (FCT, SFRH/BD/62957/2009), PT.

PATENTS

1. Theranostic Nanoprobes for Overcoming Cancer Multidrug Resistance and Methods. U.S. Application No. 62/118101. MIT Case No. 17685K, MIT Docket No. 17685.117921.
2. RNA Triple Helix Structures, Compositions, and Methods. U.S. Application No. 62/216969. MIT Case No. 18323 PCT, MIT Docket No. 17648-0205.
3. Hydrogel particles, compositions, and methods. U.S. Application No. 62/339434.
4. Micro-RNA delivery compositions, devices, and methods. U.S. Application No. 62/353622.
5. Functionalized nanoparticles and compositions for cancer treatment and methods. U.S. Application No. 62/334538.
6. Hydrogel particle of cystamine cross-linked dextran aldehyde containing imine conjugated doxorubicin and RGD peptide for chemotherapy. U.S. Application No. PCT/US2017/033542.
7. TRPV2 Antagonists. WO EP CN JP AU BR CA EA SG Application No. PCT/PT2018/050035.
8. TRPV2 Antagonists. U.S. Application No. US11273152B2.
9. Metal-organic framework nanoparticles and hydrogels and uses thereof (*submitted*).
10. Surfactant-based cellulose hydrogel methods and uses thereof (*submitted*).
11. Self-immolative micelle, methods and uses thereof (*submitted*).
12. Intranasal delivery for brain cancer and uses thereof (*submitted*).

EDITOR

- **Editorial Board**, ACS Chemical & Biomedical Imaging (2024 - to present).
- **Editorial Board**, Exploration, Wiley (2023 - to present).
- **Editorial Board**, Frontiers in Chemistry (2022 - to present).
- **Editorial Board**, VIEW, Wiley (2021 - to present).
- **Review Editor**, Frontiers Genetics - Toxicogenomics (2021 - to present).
- **Book editor**, “Handbook of Nanomaterials for Cancer Theranostics” by Elsevier (2017 - to present).
- **Volume Editor**, in the Advanced Nanomaterials Series, Elsevier (2016 - to present).
- **Editorial Board**, Nano Biomedicine and Engineering Journal (2016 - to present).
- **Associate Editor**, Frontiers in Bioengineering and Biotechnology (2015 - to present).
- **Associate Editor**, Frontiers in Molecular Biosciences (2015 - to present).
- **Associate Editor**, Frontiers in Materials (2015 - to present).
- **Guest Associate Editor**, Frontiers in Chemistry (2014 - to present).

PUBLICATIONS

- More than **120 articles** in high impact journals in fields of Nanomedicine, Oncology and Cancer Therapies and Biomedicine (*The Lancet* **IF202.7**, *Nature Materials* **IF43.8**, *Nature Reviews Materials* **IF76.7**, *The Lancet Oncology* **IF54.4**, *Nature Nanotechnology* **IF39.2**, *Chemical Society*

Reviews **IF46.2**, *JAMA Oncology* **IF31.8**, *The Lancet Gastroenterology & Hepatology* **IF45.0**, *Nature Communications* **IF14.9**, *The Lancet Child & Adolescent Health* **IF37.7**, *Military Medical Research* **IF34.9**, *PNAS* **IF11.2**, *Accounts of Chemical Research* **IF22.4**, *Progress in Materials Science* **IF39.6**, *Advanced Materials* **IF30.8**, *Materials Today* **IF26.4**, *Nano Today* **IF16.9**, *ACS Nano* **IF15.9**, *JACS* **IF15.4**, *Angewandte Chemie* **IF15.3**, *Advanced Functional Materials* **IF18.8**, *Advanced Science* **IF17.5**, *Advanced Drug Delivery Reviews* **IF13.3**, *ACS Central Science* **IF14.5**, *Trends in Cancer* **IF14.2**, *Trends in Biotechnology* **IF19.5**, *Matter* **IF15.6**, *Biomaterials* **IF12.5**, *The Lancet Child & Adolescent Health* **IF11.3**, *Journal of Controlled Release* **IF7.9**, *Biosensors & Bioelectronics* **IF10.6**, *Nature Asia Materials* **IF10.5**).

• More than **30** articles as **1st author**, and more than **60** articles as **corresponding author**, all **cited more than 13.000 times (h-index Google Scholar 57)**. Several of them have been selected as **cover page of journals** such as **The Lancet**, **Nature Nanotechnology** (Covid-19 Special Issue), **The Lancet Oncology**, **Nature Materials**, **Trends in Cancer**, **The Lancet Neurology**, **ACS Nano**, **The Lancet Child & Adolescent Health**, **ACS Central Science**, **Adv. Functional Materials**, **JACS**, **Angewandte Chemie**, **ACS Sensors**, **WIREs Nanomedicine & Nanobiotechnology**, **Biomaterials Science**, **ACS Applied Bio Mat**, **Adv. Healthcare Materials**, **Analytical and Bioanalytical Chemistry** and **BioTechniques**.

PUBLICATIONS (* corresponding author)

(120+ publications, Citations: 13743, h-index Google Scholar: 57, h-index Scopus: 50)

1. “Nano-navigated macrophages: Piercing liver inflammation, fibrosis, and cancer”. A. Moreno-Lanceta, E.R. Edelman, **João Conde***, P Melgar-Lesmes*. *Matter (Cell Press)* (2024)
2. “Forecasting the effects of smoking prevalence scenarios on years of life lost and life expectancy from 2022 to 2050: a systematic analysis for the Global Burden of Disease”. **João Conde & GBD Consortium**. *The Lancet Public Health* (2024). Featured on COVER
3. “Triterpenoid saponin-based supramolecular host-guest injectable hydrogels inhibit the growth of melanoma via ROS-mediated apoptosis” R. Mathiyalagan, M. Murugesan, Z.M. Ramadhania, J. Nahar, P. Manivasagan, E-S. Jang, D.C. Yang, **João Conde*** and T. Thambi*. *Materials Science and Engineering: R: Reports* (2024).
4. “The power of nanobot technology in cancer treatment” B.B. Mendes and **João Conde***. *Matter (Cell Press)* (2024). Featured on COVER
5. “Electric Field-Responsive Gold Nanoantennas for the Induction of a Locoregional Tumor pH Change Using Electrolytic Ablation Therapy” Joe A, Manivasagan P, Park JK, Han HW, Seo SH, Thambi T, Giang Phan VH, Kang SA, **João Conde**, Jang ES. *ACS Nano* (2024). Featured on COVER
6. “Biomimetic Ghost Nanomedicine-Based Optotheranostics for Cancer”. R. Prasad*, V.G.S.S. Jyothi, N. Kommineni, R.T Bulusu, B.B. Mendes and **João Conde***. *Nano Letters* (2024). Featured on COVER
7. “Burden of disease scenarios for 204 countries and territories, 2022–2050: a forecasting analysis for the Global Burden of Disease Study 2021” **João Conde & GBD Consortium**. *The Lancet* (2024).
8. “Engineered nanomaterials for glioblastoma nanovaccination” F. Haamedat, Barbara Mendes, João Coniot, L.D. Di Filippo, M. Chorilli, A. Petri-Fink, A. Schroeder, **João Conde***, F. Sousa*. *Nature Reviews Materials* (2024).

9. “Global burden and strength of evidence for 88 risk factors in 204 countries and 811 subnational locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021” **João Conde & GBD Consortium**. *The Lancet* (2024).
10. “Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990–2021” **João Conde & GBD Consortium**. *The Lancet* (2024).
11. “Global incidence, prevalence, years lived with disability (YLDs), disability-adjusted life-years (DALYs), and healthy life expectancy (HALE) for 371 diseases and injuries in 204 countries and territories and 811 subnational locations, 1990–2021” **João Conde & GBD Consortium**. *The Lancet* (2024).
12. “Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100: a comprehensive demographic analysis for the Global Burden of Disease Study 2021” **João Conde & GBD Consortium**. *The Lancet* (2024).
13. “A large-scale machine learning analysis of inorganic nanoparticles in preclinical cancer research”. Bárbara B. Mendes, Z. Zhang, João Coniot, Diana P. Sousa, João M.J.M. Ravasco, L. Onweller, A. Lorenc, T. Rodrigues*, D. Reker* and **João Conde***. *Nature Nanotechnology* (2024).
14. “Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021” **João Conde & GBD Consortium**. *The Lancet Neurology* (2024). Featured on COVER
15. “Preclinical assessment of an antibiotic-free cationic surfactant-based hydrogel for sexually and perinatal transmitted infections”. R.D.A. Calado, Bárbara B. Mendes, João Coniot, João M.J.M. Ravasco, D. Sobral, C. Ferreira, R. Ferreira, J.C. Rodrigues, D. Santos, S. Duarte, L. Vieira, A.S. Inácio, H. Carrêlo, W.L.C. Vaz, J.P. Gomes, A. Nunes*, **João Conde*** and O.V. Vieira*. *Matter (Cell Press)* (2024).
16. “Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950–2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021” **João Conde & GBD Consortium**. *The Lancet* (2024).
17. “Biomimetic bright optotheranostics for metastasis monitoring and multimodal image-guided breast cancer therapeutics”. R. Prasad*, B. Peng, Bárbara B. Mendes, H.I. Kilian, M. Gorain, H. Zhang, G.C. Kundu, J. Xia, J.F. Lovell and **João Conde***. *Journal of Controlled Release* (2024).
18. “Hydrogel microneedles: a theranostic toolbox for personalized nanomedicine”. Catarina F. Martins, C. García-Astrain, **João Conde** and L. Liz-Marzán*. *Drug Delivery and Translational Research* - Special Issue in honor of Prof. Patrick Couvreur (2024).
19. “A Fluorinated BODIPY-Based Zirconium Metal-Organic Framework for in vivo Enhanced Photodynamic Therapy”. X. Chen, Bárbara B. Mendes, Y. Zhuang, João Coniot, S.M. Argandona, F. Melle, Diana P. Sousa, D. Perl, A. Chivu, H. K. Patra, W. Shepard, **João Conde*** and D. Fairen-Jimenez*. *Journal American Chemical Society* (2024).
20. “Cathepsin B processing is required for the in vivo efficacy of albumin-drug conjugates”. B. Bernardim, **João Conde**, T. Hakala, J.B. Becher, M. Canzano, A.V. Vasco, T.P.J. Knowles, J. Cameron and G.J.L. Bernardes*. *Bioconjugate Chemistry* - ACS Editors' Choice (2024).
21. “Global Burden of Cardiovascular Diseases and Risks, 1990-2022”. **João Conde & GBD Consortium**. *Journal of the American College of Cardiology* (2023).
22. “Bioinspired and biomimetic cancer cell-membrane derived nanovesicles for preclinical tumor-targeted nanotheranostics”. Rajendra Prasad*, Bárbara B. Mendes, M. Gorain, G.C. Kundu, N. Gupta, B. Peng, E.H.A. Win, Q. He and **João Conde***. *Cell Reports Physical Science* (2023).

23. “Passive Nanoparticles for Organ-Selective Systemic Delivery: Design, Mechanism and Perspective”. L. Fu, Y. Zhang, R.A. Farokhzad, Bárbara B. Mendes, **João Conde** and J. Shi* *Chemical Society Reviews* (2023).
24. “Conjugated Nanoparticles for Solid Tumor Theranostics: Unraveling the Interplay of Known and Unknown Factors”. V.P. Chavda, P.C. Balar, L.V. Nalla, R. Bezbaruah, N.R. Gogoi, S.N.R. Gajula, B. Peng, A.S. Meena, **João Conde**, R. Prasad*. *ACS Omega* (2023)
25. “Therapeutic anti-tumour immunotherapy vaccine against melanoma via *in vivo* delivery of mRNA with hyperbranched cyclodextrin nanoparticles”. F. Trotta, M. Mahmoudian, P. Zakeri-Milani, C. Cecone, K.J. Ishii, T. Hayashi, **João Conde**, A. Matencio and Y.K. Monfared. *Cancers* (2023)
26. “Evolution of CRISPR-enabled biosensors for amplification-free nucleic acid detection”. Sepehr Talebian*, Fariba Dehghani, Paul S. Weiss and **João Conde***. *Trends in Biotechnology* (2023)
27. “Engineered Liposomes in Interventional Theranostics of Solid Tumors”. N. Kommineni, R. Chaudhari, **João Conde**, S. Tamburaci, B. Cecen, P. Chandra, R. Prasad. *ACS Biomaterials Science & Engineering* (2023). Featured on COVER
28. “A Receptor-mediated Landscape of Druggable and Targeted Nanomaterials for Gliomas”. L.D.D Filippo, S.G. Carvalho, J.L. Duarte, M.T. Luiz, J.A.P. Dutra, G.A. Paula, M. Chorilli and **João Conde***. *Materials Today Bio* (2023).
29. “Bioengineered exosome membrane camouflaged-abiotic nanocarriers: neurodegenerative diseases, tissue engineering and regenerative medicine”. D. Lopes, J. Lopes, M. Pereira-Silva, Diana Peixoto, F. Veiga, S. Yousefiasl, N. Rabiee, **João Conde**, P. Makvandi and A.C. Paiva-Santos. *Military Medical Research* (2023).
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BOOKs and BOOK CHAPTERS (* corresponding author)

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4. “Multifunctional Gold Nanocarriers for Cancer Theranostics – From bench to bedside and back again?” **João Conde***, F. Tian, P.V. Baptista., J.M. de la Fuente. *in Nano-Oncologicals: New Targeting and Delivery Approaches* (2014), *Springer Science+Business Media. Controlled Release Society*.
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CONFERENCE & SEMINAR PRESENTATIONS

- Speaker at the 19th European Molecular Imaging Meeting, March 2024, Portugal (*Invited*).
- Keynote Speaker at the Liga Portuguesa contra o Cancro, September 2023, Portugal (*Invited*).
- Speaker at the Sustainable Value Creation Summit (SVCS) “How to Create Value using basic/fundamental science”, Nova SBE, May 2023, Portugal (*Invited*).
- Roundtable titled mRNA: The next revolution, Science|Business and Moderna, April 2023, Brussels, Belgium (*Invited*).
- Nanomedicine Seminar Series – “Working on the landscape of Precision Nanomedicine in Oncology” – Houston Methodist Research Institute, Houston Methodist Hospital, March 2023, Houston, USA (*Invited*).
- VIII Semana da Bioengenharia – Keynote Speaker – “It's nano or never: The importance of nanotechnologies in the healthcare future”, Instituto Superior Técnico (IST), March 2023, Portugal (*Invited*).
- ITQB PhD Program 2022 - MolBioS Doctoral Program: Nanoprocess for Life Science, March 2022, Portugal (*Invited*).
- “Application of multifunctional nano-and-biomaterials for cancer therapy and diagnosis” - Master Program in Biopharmaceutical Sciences, Oncobiology, FFUL, February 2022, Portugal (*Invited*).
- BioMedicine and BioSciences Seminar Series - University of Bergen (UiB), February 2022, Norway (*Invited*).
- “TIPS for applying to CEEC 5th edition 2022?” - Lyris, Advanced Science Education, January 2022 (*Invited*).
- Biotech in Action S2: Water Cooler Talk - Massachusetts Institute of Technology (MIT), Harvard–MIT Division for Health Sciences and Technology, July 2021, Boston, Massachusetts, USA (*Invited*).
- “The story behind my path in Cancer NanoMedicine” at the PostDoc ShowCase 2nd edition - Department of Pharmacy, University of Naples Federico II, June 2021, Italy (*Invited*).
- 9th Session IST- MedNetworking – To see or not to see: How Nanotechnology is redefining Medicine, Instituto Superior Técnico (IST), May 2021, Portugal (*Invited*).
- JorTec 2021 - Jornadas Tecnológicas (JorTec) da Faculdade de Ciências e Tecnologia, February 2021, Portugal (*Invited*).
- Keynote Speaker - 13^o Encontro Nacional de Química Orgânica/6^o Encontro Nacional de Química Terapêutica (13ENQO/6ENQT), January 2020, Portugal (*Invited*).
- Seminar, March 2017, University of Glasgow, Institute of Molecular Cell and Systems Biology, Glasgow, Scotland (*Invited*).
- Nanomedicine Seminars, February 2017, Trinity College Dublin, School of Medicine, Dublin, Ireland (*Invited*).
- 10th World Biomaterials Congress, May 2016, Montreal, Canada.
- 11th Annual Broad Retreat - Broad Institute of MIT and Harvard, December 2015, Boston, Massachusetts, USA.
- Society for Biomaterials 2015, April 2015, North Carolina, USA.
- 4th International Conference on Multifunctional, Hybrid and Nanomaterials, March 2015, Barcelona, Spain.
- 8th International Conference of Coelenterate Biology, December 2013, North Beach, Eilat, Israel.

- Collaborative Congress of the European Society for Gene and Cell Therapy and the Spanish Society for Gene and Cell Therapy, October 2013, Madrid, Spain.
- International Conference on Materials for Advanced Technologies 2013. Symposium R: Ecological and Health Impact of Nanomaterials and Nanotechnology, July 2013, Singapore.
- European Conference of Human Genetics 2013, June 2013, Paris, France.
- E-MRS 2013 SPRING MEETING, Bionanomaterials for imaging, sensing and actuating, May 2013, Strasbourg, France.
- Elsevier 3rd International Conference on Multifunctional, Hybrid and Nanomaterials (Hybrid Materials 2013), March 2013, Sorrento, Italy.
- Materials Research Society Fall Meeting, November 2012, Boston, Massachusetts, USA.
- NanoMed2012, International Conference on Nanotechnology in Medicine, November 2012, University College London, London, UK.
- American Chemical Society Spring 2012 National Meeting, March 2012, San Diego, California, USA.
- Miami 2012 Winter Symposium: Nanotechnology in Biomedicine, February 2012, Miami, USA.
- SPIE West 2012, San Francisco, USA.
- SPIE West 2011, Colloidal Quantum Dots/Nanocrystals for Biomedical Applications VI, February 2011, San Francisco, USA.
- TNT2010 – Trends in Nanotechnology, September 2010, Braga, Portugal.
- National Congress MicroBiotec'09, 2009, Vilamoura, Portugal.
- EURONANOFORUM 2009. Nanotechnology for Sustainable Economy. European and International Forum on Nanotechnology, June 2009, Prague, Czech Republic.
- XXXIV Genetic Journeys - Human Cancer Genetics and Genotoxicity, Portuguese Society of Human Genetics, 2009, Lisbon, Portugal.