

Short Curriculum Vitae

Inês A. Isidro

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Inês Isidro is responsible for the area of Computational Biotechnology in the Animal Cell Technology Unit at iBET.

She holds a MSc in Biological Engineering from Instituto Superior Técnico, Lisbon, and obtained her PhD in Bioengineering Systems with the MIT-Portugal Program. During her PhD, she developed and applied hybrid metabolic models to improve the production process for an antibody fragment in *Pichia pastoris*. She was also a co-founder of the biotech startup MediaOmics, where she supported the development of a platform to customize culture media formulations.

She joined iBET in 2016, first as postdoc under the supervision of Professor Manuel Carrondo and Professor Paula Alves and soon became the main responsible for the Computational Biotechnology area, working with different groups within the Animal Cell Technology Unit and with international partners.

Current Research:

Her current work combines selected tools developed within the fields of systems biology, mathematical modelling, machine learning, omics and process analytical technologies, and applies them to current challenges in animal cell technology. These challenges span from bioprocess monitoring and upstream process development to characterization of advanced cancer cell models and stem cells differentiation processes. Overall, her work focuses on a high-level view of metabolism, how it can be used to probe cellular state and how different tools can connect the complex intracellular system to the ready accessible (and manipulable) extracellular medium.

Ongoing projects include the development of insect cell-based platforms for production of viral vectors for gene therapy and the deployment of metabolomic approaches in the establishment of a precision medicine platform for ovarian cancer.

CV Highlights: (i) over 10 published papers, 2 book chapters, receiving a total of over 33 citations (h-index 4); (ii) supervision of 4 PhD students (2 concluded), 4 Master students (3 concluded) and 3 post-doc fellows; (iii) Over 4 oral communications as invited speaker and 10 poster communications.

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