



**The long journey of pharma: present, past, and future to succeed  
and innovate in the new digital era**

**October 27<sup>th</sup>, 2021**

**Virtual event**

**Moderator: *Mirko Gabriele, Thermofisher***

*We will go through an overview of how technology challenges are changing, how fast they are evolving and how the effects of such exponential pace have shaken up some sectors, force some others to follow and, in some cases, change dramatically. We will deep dive into how pharma has responded to the new pace and why this sector is still in a “follower” position, instead of driving the change and leading breakthrough innovations by exploiting their incredible resources and stunning discoveries of the last couple of decades. We will try to figure out how to accelerate such pace and become more “human-centric” by exploring some methodologies and best practices in the business*

*Two use cases in biotech-pharma where AI brings powerful value to the manufacturing process will be presented:*

- *CPV of the Future. A project developed under the PDA PV IG and funded by the PQRI where AI is managing an upstream process ensuring optimum results. This initiative is based on an experimental approach in collaboration with the UMBC and UAB and the final goal is to demonstrate the capabilities of AI as a multivariable analytical tool to implement a CPV ensuring good results in every batch. Two scientific papers are describing the Phase I of this project and the Phase II has just started to bring a regulatory perspective to the approach.*
- *The second use case describes the benefits of AI understanding the continuous variability in biopharma manufacturing processes and the impact of the raw material attributes in downstream processes. In this example, AI is applied to set up the right values of the relevant factors in the equipment based on the raw material attributes to avoid low yields. Furthermore, AI was used to identify the relationship between CPP and CQA, providing a valuable context for the process understanding.*

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10:00 – 10:10	<b><i>Opening remarks and proposed discussion topic – Mirko Gabriele, Thermofisher</i></b>
10:10 – 10:50	<b><i>Adriano La Vopa, ain’t a GAME</i></b>
10:50 – 11:00	<b><i>Q&amp;A</i></b>
11:00 – 11:30	<b><i>Meet the sponsor: PQE</i></b>
11:30 – 11:45	<b><i>Break</i></b>
11:45 – 12:25	<b><i>Toni Manzano and Joeri van Wijngaarden, Aizon</i></b>
12:25 – 12:35	<b><i>Q&amp;A</i></b>
12:35 – 13:00	<b><i>Round table open panel expert’s discussion: Mirko Gabriele, Thermofisher Angela Molaschi, Pharmatex; Claudio Puglisi, PQE; Lucia Ceresa, Charles River Microbial Solution; Gabriele Peron, Stevanato Group; Alessandro Pauletto, Charles River</i></b>



**Meet your speakers:**

**Adriano La Vopa**



Adriano is the founder of Smartangle and co-founder of ain't a GAME\*, two interlinked ventures which have placed gamification and serious play at the core to help any business along their innovation journeys. Adriano has an extensive experience in open innovation, innovation management and strategic innovation, within small, medium and large enterprises, as well as in big corporates like Philips and LG. He has driven innovation and R&D teams in developing frameworks, formats and transformational programs to foster innovation within complex environments. He is a physicist with a specialization on Earth observation, and a MBA in the nanotechnology field.

**Toni Manzano**



Toni is the co-founder and CSO of Aizon, a cloud company that provides big data and AI SaaS platform for the Biotech and Pharma industry. He is also co-chair of the Biomanufacturing IG and co-chair of the CPV of the Future initiative at the PDA, Lead of the AI in Operations team for the AI Xavier University and he teaches AI subjects at the University (UAB), member of the Science Experts in the Spanish Parliament on big data and artificial intelligence topic. He has written numerous articles in the Pharma field and holds a dozen international patents related to the encryption, transmission, storage and processing of large volumes of data for regulated environments in the cloud. Toni is Physicist, Master in Information and Knowledge Society and post graduated in quality systems for manufacturing and research pharmaceutical processes

**Joeri van Wijngaarden**



Joeri is R&D engineer and data scientist at the innovation department of Aizon, a cloud company that provides big data and AI SaaS platform for the Biotech and Pharma industry. Since 2015 he's been active as a researcher in the field of Life Sciences with a particular interest in biological intelligence and the function of sensory systems in the brain. In his research he applied machine learning & AI algorithms to multivariate neural time series data to help understand the complex dynamics that underlie spatial awareness. Joeri holds a Ph.D. in Neurobiology, a Master in Neuroscience and has presented his work at several international conferences, publishing in leading Life Science journals to progress our understanding of complex biological system



*The PDA Italy Chapter presents*



## ***HOW TO PARTICIPATE***

Participation is free, but you have to register online at the following link:

<https://registration.ccicongress.com/cmsweb/Login.asp?IDcommessa=C078/21&Lang=IT>

The link to join the meeting will be sent the day before.

For information: [pda@pda-it.org](mailto:pda@pda-it.org)