

4 Questions to....

...Nihal Engin Vrana
from SPARTHA Medical



Looking back at three and a half years of research in the context of PANBioRA:

What has been most surprising for you related to your involvement in the project?

PANBioRA has been a very enriching experience from the point of view of my understanding of different aspects of biomedical engineering. The project gave me insights in the fields of diagnostic test development, sensor architectures, medical device functional design, mechatronics, in silico models and risk assessment. Being exposed to a completely new field for 3 years created a kind of “intellectual diffusion” which makes me feel that I’m technically more capable now than I was at the start of the project.

What has been most challenging for you during the past years of PANBioRA?

As the coordinator, what I mentioned above was also the biggest challenge; when you are not 100% certain on the difficulty of a given technical task, it is harder to push as the scientific coordinator. Also, due to the level of novelty, we discovered along the way some things that we underestimated in the beginning from the difficulty point of view (luckily there were parts we overestimated also; so they balanced out :))

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From your point of view: What will be the biggest impact of PANBioRA?

I think that what we propose as a plug and play/ modular risk assessment system will be something that will be implemented in our sector widely. Demonstration of its feasibility and the benefits of such technological integration will open up more activity in this field in my opinion, which will overall contribute to the facilitation of new biomaterial and medical device development.

How would you describe PANBioRA in one sentence?

A device that will do your Biomaterials PhD for you.



The PANBioRA prototype

Learn more about SPARTHA Medical and their involvement in PANBioRA!



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[SPARTHA Medical](#) is a French Biotech/MedTech company hailing from the big brother of PANBioRA ([Immodgel](#)). It develops antimicrobial/antiviral/anti-inflammatory biomaterial-based formulations and coatings and as a new biomaterial developer will benefit immensely from the developments in [PANBioRA](#).

Role in PANBioRA:

Scientific coordinator, experimental workload in cytotoxicity/genotoxicity module development and testing, experimental contribution in testing bed systems (coatings and hydrogels) and in silico model and risk rating system development.



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