



## *In vitro* Plant-tech

### About

- [invitroplanttech.se/](http://invitroplanttech.se/)

### People

- **Anna Holefors,**  
Owner, CEO, *In vitro* Plant-tech AB

### Goals

- Migrate from paper-based lab notebook to electronic management of the information

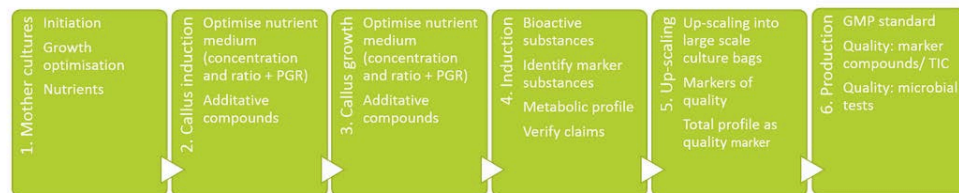
### Approach

- Invest in Labguru as an ELN for immediate deployment

### Results

- The R&D team spends less time having to organise and structure experimental information, and as a result, have freed up time to focus on more development work

### Process flow of plant raw material production *in vitro*



## We interview Anna Holefors, Owner, CEO, *In vitro* Plant-tech AB, to find out how Labguru has helped her R&D organisation increase efficiency and bring improved order and structure to its experimental projects

*In vitro* Plant-tech AB is a research derived company based in Malmo, Sweden. The company focuses on active ingredient manufacture from medicinal plants based on *in vitro* cultivation.

*In vitro* Plant-tech's R&D team has developed plant stem cell lines from plants with a traditional use within for example skin care, wound healing and health beneficial properties, and is continuously working with establishment of new cell lines. Some of our in-house cell lines are: roseroot, evening primrose, greater plantain, aloe vera, milk thistle.

The company also acts as a contract manufacturing organisation (CMO). The contract assignments start with a process development phase, where together with its client, *In vitro* Plant-tech finds plants with documented desired effects. In the development phase, its research team initiates the selected plants into its cultivation systems, optimise processes for *in vitro* culture growth, cell dedifferentiation, growth of plant stem cells, elicitation and perform characterisation of active components. Thereafter process upscaling takes place, followed by large scale production of active substances.

### Enter Labguru

In its lab which employs 4 full time and 1 part time researcher, the organisation needs to keep track of all the information around a set of cultures.

Anna was looking for an electronic lab notebook. A combination of web research through Google revealed Labguru to Anna, and a demonstration Anna received at the Norwegian University of Life Sciences confirmed that Labguru had all the functionality that Anna and her colleagues were looking for.

The most important thing is that the Labguru platform is very user-friendly, so *In vitro* Plant-tech invested in it for a year initially and Anna comments "we are really happy with the software and have therefore taken the decision to use Labguru as our standard electronic laboratory notebook."

*cont.*



Anna Holefors

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For more information on Digital Science Research Tools e-mail [researchtools@digital-science.com](mailto:researchtools@digital-science.com)

### Problem Labguru solves

Anna continues: "The difficulty with a paper-based lab notebook is that as a researcher, you naturally write it in a chronological order. Then when you go back and look at your different research projects, you have to spend time making sense of all the different projects. This is not practical in a modern R&D environment where there is a pressure on your time and that of all the team members. With the electronic version, you can get much more organised in how you explore and catalogue your experiments."

### Clear Benefits

Set up of the Labguru platform at *In vitro* Plant-tech was immediate. For Anna, the main benefit of Labguru is the time the organisation saves. "We get more structure on our work which is very important to me as CEO." Anna comments.

Anna remarks: "Because we are more organised now through Labguru, we can do more development and focus on quality improvements in our work."

In the near future, *In vitro* Plant-tech will look to link and integrate information from its experiments captured in Labguru into its quality assurance system, so that it can better monitor, maintain and raise the quality standards of its processes and products.