

Network Bio-PAT



The [Bio-PAT network](#), which started its work on the 01.07.2019, is a cooperation network in the field of bioanalytics and bioprocess control for improved bioprocess characterization in the following application areas: Industrial biotechnology, pharma / medical biotechnology, food technology / nutrition, environmental technology and bioenergy.

The network connects applicants (bioproduct developers) and suppliers of process analytical technologies (PAT) for bioprocesses. The following different areas are integrated and thus competencies are bundled: sensor technology, measurement technology and bioprocess monitoring; reactor design; (micro) electronics; IT & software as well as digitization and automation.

The network should significantly contribute to overcome the hurdles of cooperation during the development of new analytical methods for bioprocesses and products, to strengthen the visibility of the field towards other disciplines of biotechnology and medicine - especially in relation to large companies but also in the public perception, to intensify transfer services (know-how transfer) between individual areas and thus generally strengthen the innovative power and market position of the members.

Ideas should be developed more quickly in interdisciplinary cooperation projects and finally lead to new products and systems for the application. For this, it is essential to create a methodological and content-related bridge between the different disciplines in order to create a mutual understanding of the requirements and procedures.

Aims at a glance:

- **Networking and cooperation** between SME, research institutions, universities and industry in the field of process analytical technologies (PAT) in bioprocesses.
- **Interdisciplinarity:** Bundling of competencies from the fields of sensor technology & bioprocess monitoring, reactor design, (micro) electronics and IT & software.
- **Developing new PAT** for improved characterization of bioprocesses through cooperations between bioproduct-oriented partners / users with developers / providers of PAT.
- Increasing the visibility of the members and strengthening the **market position and innovation power**.
- Increasing the members' portfolio in PAT and acquiring **new sales markets**.
- Supporting **science and research** by various activities of the Bio-PAT network (e.g. mutual research projects, events).

Activities to achieve the aims:

- **Networking** of manufacturers and applicants of PAT in bioprocesses.
- Preparation, initiation and implementation of **mutual research projects** in the field of PAT in bioprocesses.
- Support with network-relevant **presentations** at **trade fairs, conferences, congresses**
- **Marketing** activities: promotion of events, news and job offers of members in social media and Bio-PAT newsletter.
- Support in organizing and promoting **events** of members (workshops, seminars, etc.) and representation at Bio-PAT events.
- Support with **scientific publications** for disseminating research results.
- Support with the preparation and provision of **materials for teaching courses** concerning PAT in bioprocesses and integration of the members into teaching.

Members:

The network consists of the following **21 members**-16 SME and 5 universities / institutions:



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