

Seminar:

# Hidden Drivers of Success - Deep Dive into the Importance of Shaking Parameters and Oxygen Supply in Cell Line, Media, and Process Development

## 28.10.2025 Labotal Scientific Equipment, Abu Gosh

**08:30 - 09:00** Gathering, coffee and a morning snack.

**09:00 - 09:10** **Introduction:** Labotal, Kuhner

**09:10 - 09:40** **Scaling up culture growth is not easy - The Sivix journey** - Dr. Shlomzion Shen (Seevix).

**09:40 - 10:00** **What are your current challenges (brainstorming)** - Tibor Anderlei, (Adolf Kühner AG)

**10:00 - 10:45** **The importance of Oxygen Transfer Rate in growth results: New TOM (Transfer rate Online Measuring) technologies for shake flask and microtiter plates** -Tibor Anderlei, and David Flitsch, (Adolf Kühner AG)

**10:45 - 11:15** **Coffee break**

**11:15 - 11:45** **The class not-thought at universities about the immense significance some parameters have on your growth results in shaken flasks: Stopper, Shaking-diameter, Frequency, Media, etc...** - Tibor Anderlei

**11:45 - 12:15** **Cultivation in microplates: Hydrodynamics, Mixing, Oxygen transfer, Evaporation, Closures** - David Flitsch

**12:15 - 12:45** **Challenges in Translating Academic Research to Industry** - Dr. Tsafi Danieli (Hebrew University)

**12:45 - 13:30** **Lunch**

**13:30 - 14:00** **Fermentation in shaken bioreactors and further critical parameters influencing maximal growth: Out of phase, Baffles, Foam, Mechanical stress...** - Tibor Anderlei

**14:00 - 14:20** **Fed-batch in shake flasks and microtiter plates: Considerations and key to success.** -Tibor Anderlei

**14:20 - 14:40** **Scale-up fast-track in cell culture: Orbitally shaken bioreactors** - David Flitsch

**14.40 - 15:00** **Discussion and Feedback and some coffee and sweets.**

### Who should attend?

Researchers working with shake flasks or microtiter plates in small-scale cultivations. Whether you're developing cell lines, optimizing media, establishing a seed train, or working on process development.

This seminar is relevant for anyone working with microbial, mammalian, fungal, or plant-based systems who wants to better understand the physical environment of their cultures and avoid potential pitfalls.

### What do I get from it?

You'll deepen or refresh your understanding of shaken cultivations and gain insights into the physical principles that govern gas exchange and mixing in your cultivation vessels. The seminar will also highlight common pitfalls in small-scale work and demonstrate how Kuhner Shaker's solutions can help you create more reliable, scalable conditions for early-stage bioprocessing.

**Registration fee of 150 nis will apply**

Registration fees will only be refunded in the event of cancellation of the event.

sales@labotal.co.il ● 02-5799222

[For details and registration please click here.](#)

[add to your calendar](#)