



Get started with HTRF

A training program for academic
researchers and students

François Degorce, Fabienne Charrier-
Savournin

Who never used an ELISA or a Western Blot in a biology lab? Probably only a few researchers.

But who is aware that some platforms provide an even better assay format that can do the same for a fraction of the overall cost and time?

Launched 20 years ago for high throughput screening, HTRF has demonstrated its ability to screen massively compound libraries. Nowadays however, HTRF assays are used in much wider space, e.g. from target identification to compound characterization and their implementation progresses significantly in basic research due to their ease of use in routine lab operations.

Our goal for this seminar:

This seminar intends to help researchers get started with HTRF, share the basics, show them how it can be an alternative to existing technologies such as ELISA or WB, and how their research projects can be speeded up and benefit from such a technology approach.

Who should attend?

Scientists (technicians, engineers, PhDs, Post Doc fellows, lab Heads, program Directors), i.e. ideally people who have a short term project in mind

What will they learn?

Attendees will get insights on the following:

- Time-resolved Fluorescence technologies and more specifically physical and chemical principles behind TR-FRET.
- How does it work and perform
- Case studies: field of application in biological studies, e.g. cell signaling, biomarkers, receptor biology
- How does it compare to other conventional technologies such as ELISA, WB, radioactivity, AlphaScreen/Lisa®
- For those attending the practical course: hands on cell-based phosphoprotein and cytokine assay kits. From assay preparation to measurement.

⇒ **Dates and venue:**

March 21st 2018, University Hospital Bonn, BMZ, lecture hall 1

⇒ **Format:**

One day session on site (10:00 am – 3:00 pm) follow by a one day practical course @ the wet lab (a month later, upon registration and confirmation)

⇒ **Audience:**

Part 1: introduction to HTRF (everyone who is interested)

Part 2: practical course / wet lab (max 15 people)



François Degorce, *Head of Corporate Marketing and Communications*

With a solid background in immunoassay design for in vitro diagnostics, François joined the HTRF team @ Cisbio in 1999 as a Scientific Consultant. He supervised the optimization and the validation of the first HTRF assay kits (inc. cAMP), and trained a number of pharma teams to the assay platform.

Over the year, he has then contributed to the business expansion in different marketing and communication positions – and never lost his passion for education!



Fabienne Charrier Savournin, *Head of immuno-oncology and assays consolidation Group*

After her PhD graduate in molecular and cellular biology and a 2 year post-doctoral fellowship, Fabienne joined the R&D department of Cisbio in 2006. She dedicated her efforts to the identification and the development of innovative HTRF-based assays for drug discovery research, and led the R&D expansion of Cisbio phospho-proteins assay portfolio.

Today, Fabienne focuses on understanding the needs of researchers working in various therapeutic areas such as oncology, inflammation or diabetes, or more recently immuno-oncology. She regularly ensures teaching courses at university (Montpellier, Nimes or Marseille).

March 21st
10:00-12:00

- Welcome / introductions / objectives of the training / trainee expectations
- HTRF theory, incl. fluorescence, FRET and TR-FRET detection modes
- HTRF compatible readers and equipment, data analysis
- Applications: assay formats, biological targets and analytes
- *Lunch Break & networking*

March 21st
13:00-15:00

- How HTRF compares to other methods (ELISA, WB, Radio, AlphaScreen/Lisa[®])
- From 2D cells to tissues, and other samples – how HTRF performs in increasingly complex models
- Focus on cell signaling assay, from cell membrane to nucleus: pProtein and cytokine assays

What happens after the seminar?

Attendees can apply to the practical course that will be organized 1 month later (upon acceptance b/c limited to 15 people).

Conditions to apply:

- Have a project on which a HTRF assay can be used/developed. Submit the project for acceptance.
- Be available for an additional day a month later.

Trainees will be offered the possibility to get further technical support (online and by Skype) to get the assay they selected up and running in their lab.



THANK YOU