Objectives

- Learn how to optimize the experimental conditions according to the interaction to be analyzed
- Learn how to make biochip spotting
- Master the use of OpenPlex
- Learn how to analyze a kinetic data

Program

Day 1
- Introduction to kinetics of interaction: What is a «good» kinetic?
- Which biochip to choose according to the molecules to immobilize?
- How to optimize spotting (concentrations, buffers, reference, ...)?
- The important experimental parameters to be tested for SPRi (pH, stroke buffer, temperature, ...)
- Advice to be applied during the realization of the experiment (duration of kinetics, flow rate, regeneration, ...)
- Case studies

Day 2
- Choose the right surface chemistry as a function of immobilized ligands
- Optimize experimental immobilization conditions (spotting buffer, pH, ligand concentration, duration of needle rinses / dryings, etc.)
- Master the different steps to program a spotting matrix*
- Perform spottings

Day 3
- Optimize the SPRi experimental conditions according to the interaction to be analyzed
- Master the use of OpenPlex
- Two models of interactions will be studied:
  - Study of a first interaction (protein / protein)
  - Study of a second interaction (DNA / DNA)
- Analysis of the data, and description of the different analysis software.

*The choice of the spotter used must be defined when registering

For further information, contact:
Tel: +33 (0)1 69 74 72 00, Fax: + 33 (0)1 69 31 32 20, training.hfr@horiba.com
**SPRi - XelPleX**

- **Reference:** SPRi2
- **Duration:** 4 days
- **Dates:** May 11-14, 2020  
  October 19-22, 2020
- **From 9 am to 5 pm**

**Objectives**

- Learn how to optimize the experimental conditions according to the interaction to be analyzed
- Learn how to make a biochip spotting
- Master the use of XelPleX
- Learn how to analyze a kinetic data

**Program**

**Day 1**
- Introduction to kinetics of interaction: What is a «good» kinetic?
- Which biochip to choose according to the molecules to immobilize?
- How to optimize spotting (concentrations, buffers, reference, ...)?
- The important experimental parameters to be tested in SPRi (pH, running buffer, temperature, ...)
- Advice to be applied during the realization of the experiment (duration of kinetics, flow rate, regeneration, ...)  
- Case studies

**Day 2**
- Choose the right surface chemistry as a function of immobilized ligands
- Optimize experimental immobilization conditions (spotting buffer, pH, ligand concentration, duration of needle rinses / dryings, etc.)  
- *Master the use of the spotter (master the different steps to program a spotting matrix)  
- Performing spottings

**Day 3**
- Optimize the experimental conditions according to the interaction to be analyzed
- Master the use of XelPleX
- Two models of interactions will be studied:  
  - Study of a first interaction (protein / protein)  
  - Study of a second interaction (DNA / DNA)

**Day 4**
- Reminder on interaction kinetics
- Use of EzFit software. Analysis of different interactions (Ac / Ac, DNA / DNA, Protein / small molecule, ...)  
- Carrying out analysis in «classical» mode (injection of several concentrations of the analyte) and in «single-injection» mode (injection of a single concentration of the analyte)

*The choice of the spotter used must be defined when registering*

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SPRi - Customer Training on their Applications

- Reference: SPRi3
- Duration: 4 days
- Dates: March 9-12, 2020
  September 8-11, 2020

Who should attend
- XelPleX or OpenPleX users
- People wishing to acquire an XelPleX or an OpenPleX
- For this training the attendees should be from the same team
- From 9 am to 5 pm

Objectives
- Learn how to optimize experimental conditions in function of interactions to analyze
- Learn how to spot the biochip with the spotter defined by the user
- Master the use of the SPRi system, defined beforehand by the user
- Learn how to analyze data

Program

Day 1
- Which biochip to choose according to the molecules to immobilize?
- How to optimize spotting (concentrations, buffers, reference, ...)?
- The important experimental parameters to be tested for SPRi (pH, running buffer, temperature, ...)
- Advice to be applied during the experiment (duration of kinetics, flow rate, regeneration, ...)
- Establishment of an experimental protocol

Day 2
- Choose suitable surface chemistry for immobilized ligands
- Perform spotting based on the previously defined protocol
- Advice about the maintenance of the instrument

Day 3
- Carry out the SPRi experiment as described in the protocol
- Master the use of the chosen SPRi device (XelPleX or OpenPleX)

Day 4
- Reminder on interaction kinetics
- Software use
- Data analysis

For further information, contact:
Tel: +33 (0)1 69 74 72 00, Fax: +33 (0)1 69 31 32 20, training.hfr@horiba.com
On-site Training

- Reference: TRAINSITE
- Duration: Mutually agreed
- Dates: By appointment

### Objectives

- Basic training on techniques (ICP-OES, GDOES, PP-TOFMS, SPRi, Ellipsometry, Raman, Fluorescence ...)
- Presentation and use of the specific software
- Use of accessories

### Program

#### Schedule of On-site Training (Example)

- Daily use of the instrument (start up, checking, routine analysis)
- Software review
- Maintenance
- Operating conditions optimization

Agenda is discussed and prepared by mutual agreement
Objectives

Training or analytical assistance on any kind of instrument commercialized by HORIBA Scientific with the possibility to use the 4 hour package in modules (30 minutes minimum each).

Program

To be defined when making the appointment

Prerequisite

A first connection (free of charge) will be done to ensure that the connection works properly

Packaging use follow up

An e-mail will be sent to the customer after each connection to keep him informed about time remaining in his package.
Practical information

Courses range from basic to advanced levels and are taught by application experts. The theoretical sessions aim to provide a thorough background in the basic principles and techniques. The practical sessions are directed at giving you hands-on experience and instructions concerning the use of your instrument, data analysis and software. We encourage users to raise any issues specific to their application. At the end of each course a certificate of participation is awarded.

Standard, customized and on-site training courses are available in France, Germany, USA and also at your location.

Dates mentioned here are only available for HORIBA France training center.

Registration
Fill in the form and:
- Email it to: training.hfr@horiba.com
- Or Fax it to: +33 (0)1 69 31 32 20
- More information: Tel: +33 (0)1 69 74 72 00

General Information
The invoice is sent at the end of the training. A certificate of participation is also given at the end of the training.
We can help you book hotel accommodations. Following your registration, you will receive a package including training details and course venue map. We will help with invitation letters for visas, but HORIBA FRANCE is not responsible for any visa refusal.

Pricing
Refreshments, lunches during training and handbook are included. Hotel transportation, accommodation and evening meals are not included.

Location
Depending on the technique, there are three locations: Longjumeau (France, 20 km from Paris), Palaiseau (France, 26 km from Paris), Villeneuve d’Ascq (France 220 km from Paris) or at your facility for on-site training courses. Training courses can also take place in subsidiaries in Germany or in the USA.

For further information, contact:
Tel: +33 (0)1 69 74 72 00, Fax: + 33 (0)1 69 31 32 20, training.hfr@horiba.com
Practical Information

From Orly Airport By Train

- At Orly airport, take the ORLYVAL, which is a metro line that links the Orly airport to the Antony RER station.
- At Antony station, take the RER B (direction St Remy Les Chevreuse) and stops at Massy-Palaiseau station.
- At Massy-Palaiseau station, take the Bus 91-06 and stop at La Ferme de la Vauve.
- The company is 5 minutes walk from the station, (see the map opposite).
- Or at Orly take the Bus 91-10 stop at La Ferme de la Vauve. The company is 5 minutes walk from the station, (see the map opposite). We remain at your disposal for any information to access to your training place. You can also have a look at our web site at the following link:

http://www.horiba.com/scientific/contact-us/france/visitors-guide/

Around 50 € by taxi from Orly airport.

By Road from Belgium (GAND - GENT)

Once in France, follow the motorway towards Lille. After «Tourcoing / Marcq-en-Baroeul», follow on the right hand side for Villeneuve d’Ascq. Take the exit «Flers Chateau» (This is marked exit 6 and later exit 5 - but it is the same exit). (You will now be following a road parallel to the motorway) Stay in the middle lane and go past two sets of traffic lights; at the third set of lighte, move into the left hand lane to turn under the motorway.

At the traffic lights under the motorway go straight, (the road shall bend left then right). About 20 m further you shall see the company on the right hand side where you can enter the car park.

Aeroplane

From the airport Charles de Gaulle take the direction ‘Terminal 2’ which is also marked TGV (high speed train); where you can take the train to ‘Lille Europe’.

Train - SNCF

There are two train stations in Lille - Lille Europe or Lille Flandres. Once you have arrived at the station in Lille you can take a taxi for HORIBA FRANCE SAS, or you can take the underground. Please note both train stations have stations for the underground.

Follow the signs:

1. From the station «Lille Flandres», take line 1, direction «4 Cantons» and get off at the station «Pont de bois».
2. From the station «Lille Europe», take line 2, direction «St Philibert» and get off at the following station «Gare Lille Flandres» then take line 1, direction «4 Cantons» and get off at the station «Pont de Bois».

Bus

Bus n°43, direction «Hôtel de Ville de Villeneuve d'Ascq», arrêt «Baudoin IX».
Registration form

Training course: ................................................................. Date: .................................................................
Family Name: .................................................................. First Name: ..................................................
Company/Organisation: ...................................................... Address: ........................................................................................................
Telephone Number: ............................................................ Fax: ........................................................................
Email: ............................................................................ Purchase order number: .................................................
Invitation letter requested: Yes  No
If yes: Hotel accommodation: ...........................................
Passport number: ............................................................ Date of arrival: .........................................................
Date of passport validity: ...................................................
Date of birth: ................................................................. Date of departure: ......................................................
Place of issue (as mentioned on the passport): .................... Additional hotel dates (if requested in Paris):

Date & signature Stamp of the company

Information
Registration: Fill in the form and send it back by FAX or Email four weeks before beginning of the training.
Registration fees: Registration fees include the training courses and documentation. Hotel, transportation and living expenses are not included except lunches which are taken in the HORIBA Restaurant during the training.
Your contact: HORIBA FRANCE SAS, 14, Boulevard Thomas Gobert - Passage Jobin Yvon - CS 45002 - 91120 Palaiseau - France
Tel: +33 (0)1 69 74 72 00
Fax: +33 (0)1 69 31 32 20
E-Mail: training.hfr@horiba.com
Siret Number: 837 150 366 00024

HORIBA Scientific continues contributing to the preservation of the global environment through analysis and measuring technology

Certified ISO 14001 in 2009, HORIBA Scientific is engaged in the monitoring of the environmental impact of its activities during the development, manufacture, sales, installation and service of scientific instruments and optical components. Training courses include safety and environmental precautions for the use of the instruments

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