BC Society of Laboratory Science
presents

FISH: A Practical Approach

Updated in 2000 – first introduced in 1996

Course Highlights:

*Probe Classification and Preparation
*Visualization, Documentation and Interpretation
*The FISH Procedure
*Advanced Techniques and Applications

Course Instructor:

Clara Jensen, Bsc, RT (CG)
2000 update by Brenda Lomax

FISH is used extensively in medical research and clinical cytogenetics to detect whole chromosomes, genes, or parts of genes. Techniques have been developed to utilize FISH on a variety of specimen types: frozen or paraffin-embedded tissue sections, cytospin slides, cell smears, sections for electron microscopy, and cytogenetic preparations. FISH has added a new dimension to cytogenetics by allowing: 1) localization of a specific DNA sequence to a specific cell type, 2) the performance of retrospective studies, and 3) access to information on non-dividing cells.

Course Objectives: *each module will provide you with:*

Module One:

- a working knowledge of commonly used probe types and their applications
- a basic understanding of the concepts and techniques of molecular biology involved in producing a FISH probe.

Module Two:

- an in depth understanding of the theory behind each step in a basic FISH procedure
- familiarity with the practical aspects of a basic FISH procedure including modifications for specific specimen types.
- an ability to use these to troubleshoot specific problems.

Module Three:

- an understanding of the basic principles of fluorescence microscopy and photography.
- an ability to choose appropriate microscope components for FISH.
- knowledge of how to intrepret FISH results and perform statistical analysis.
- an ability to write FISH results in ISCN format.

Module Four:

- familiarity with advanced FISH techniques used in the clinical cytogenetics lab.
- familiarity with the procedures, potential and limitations of FISH based research techniques.

FISH: A Practical Approach
REGISTRATION FORM

This course consists of 4 modules/15 hours of study. Each module includes questions to be submitted to the instructor for review. A strong background in cytogenetics and/or molecular biology is recommended. This course is eligible for credits under the Continuing Professional Studies (CPS) program and competency assurance credits under the CSMLS Professional Enhancement Program and has been assigned 1.0 credits by the CSMLS (CSLT#4040-7).

COURSE FEES:
Members (any Canadian MedLab Tech provincial society) **$180**

Non-members **$260**

Mail registration and payment to:
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$25.00 charged for NSF cheques.

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