## **Biological Stain Commission** 42<sup>nd</sup> Annual Conference **100 years of service** (1923-2023)

# Biomarkers and tissue applications: Where do we go from here?







A biomarker is a characteristic that is measured as an indicator of normal biological or pathogenic processes, or as an indicator of responses to an exposure or intervention, including therapeutic interventions. Biomarkers can be evaluated through histology, radiography, and molecular or physiologic techniques. Biomarkers that currently have clinical relevance include, but are not limited to: trichrome, reticulin, and PAS stains; immunohistochemistry for HER-2, ER, PR, Ki67, PD-L1, and PHH3; various in situ hybridization models; and, various DNA/RNA biomarkers. Other physiologic markers, tissue imaging techniques, and molecular markers are potential biomarkers that may have clinical relevance in the future.

In this 100th anniversary of the Biological Stain Commission, we discuss the past and current state of biomarkers in tissue application. The Biological Stain Commission (BSC) was established in 1923, and is recognized around the world as the standard quality control reference laboratory that certifies stains used in histology, biological, and research laboratories. Early histologists used various stains in tissue applications to study biologic and pathologic processes. Currently, other methodologies in tissue applications such as immunohistochemistry, radiographic imaging, molecular diagnostics, and fluorescence imaging are used to enhance or even replace the traditional staining process. All of these methodologies might be considered as potential biomarkers, depending on the setting they are used in.

### **Registration Fees:**

General: \$60.00 (includes 1 year membership) \* Poster presentation: \$10.00 (includes registration) Post-docs/Students (no poster): FREE

Register online at: biologicalstaincommission.org

### June 9<sup>th</sup>, 2023 Rochester, NY

Sarah Flaum Atrium

Address: Room G-9500 415 Elmwood Avenue Rochester, NY 14642

### **REGISTRATION**

January 9th, 2023—May 15<sup>th</sup>, 2023 <u>ABSTRACT SUBMISSION DEADLINES</u> Oral and Poster Presentations: May 9, 2023

FREE BREAKFAST AND LUNCH INCLUDED

POSTER PRIZES AWARDED UP TO \$1000

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