- **Biosafety**: Safe practices in biomedical/biological labs, breakthroughs in safety training/education, cell sorting safety, hardware safety, guidelines/regulations, microscopy/imaging safety, Shared resource laboratory safety, misc. topics in safe practices in research, clinical trials, human subjects, and animal models

- **Biomarkers and Diagnostics**: novel fluorescence markers, new probes, cell surface markers, drug delivery, theranostics, small animal optical imaging

- **Cell biology:** stem cells, virology, metabolism, basic cancer research, diagnostics, antigen-specific immune responses, biopharmaceutical applications, DNA damage and repair, hematological disorders, protein engineering, signal transduction

- **Clinical/translational research:** diseases and disorders, therapies, clinical studies, bench-to-bedside

- **COVID-19 research**: SARS-Cov2 applications, state-of-the art, clinical data, experimentation, related virology

- **Cytometric Hardware**: cytometry instruments & advances, instrumentation add-ons, imaging, cytometers, sorters & selection, microfluidic systems, laser science, photonics & biophotonics, spectroscopy, data acquisition, lab-on-a-chip systems, microelectro-mechanical systems (MEMS)

- **Cytometric Software**: analysis approaches for all types of .fcs data, imaging software, open-source topics, programmable hardware, computational approaches, modeling, in-silico experiments, cytometry simulations, informatics

- **Cytometric Reagents**: reagents for assays, experiments,& applications in cytometry

- **Cytometry Assays**: functional assays in cytometry, intracellular assays, metablomics/lipidomics/proteomics, cell proliferation and death, assay standardization

- **Cytometry Education**: educational research, diversity & inclusion, teaching & training, outreach & STEM (k-12 grade level, youth, education), fundamental cytometry topics, mentorship, publishing, intervention studies

- **Data Analysis**: high parameter, computational and automation tools, genomic cytometry data analysis, image data analysis, machine learning and AI, manual gating approaches

- **Environmental Cytometry**: microbial cytometry, marine cytometry, plant cytometry, sizing standard for microbial analyses, aquatic sciences

- **Extracellular Vesicles**: exosomes, EVs applications and science thereof

- **High Dimensional Cytometry**: dimensionality reduction, automation, experimentation, simulations, AI, learning algorithms

- **Image Cytometry**: spatial biology, pathology/tissues, image data analysis, high parameter imaging, microscopy (confocal, light sheet, multi-photon, super-resolution, fluorescence lifetime, etc), imaging flow cytometry, high speed imaging, image processing and machine learning

- **Immunology**: panel design, clinical applications, data analysis in clinical immunology, genomic cytometry, rare cell analysis in clinical cytometry, immune disorders and treatments

- **Mass Cytometry**: mass cytometry applications, imaging mass cytometry, novel analyses, other sciences involving mass cytometry

- **Optimized Multicolor Immunofluorescence Panel (OMIP):** panel design practices, teaching & training, optimization practices, experimental analyses

- **Novel cytometry applications**: novel advances in the use of cytometry

- **Quality Assurance/Standardization**: novel approaches for standardization, cytometry standardization, imaging standardization,

- **Rare cell detection:** rare event detection, small molecule discovery, high throughput screening applications and instruments

- **Shared Resource Laboratory Operation**: operations and finance, management, biosafety, education & training, career development, mentorship

- **Single cell "-omics"** : proteomics, genomics, lipidomics, metablomics, instrumentation & analysis tools for –omics, and assays, single cell sequencing technologies, analyses and experiments, integration of –omics in cytometry, interoperable data, cross over technologies, data handling

- **Spectral Cytometry**: immunophenotyping, instruments & hardware, data analysis, unmixing algorithms, other applications of spectral

- **Nanoparticle Cytometry**: small particle cytometry, sizing standards, instrument calibration, data analysis for small particles, hardware for small particle analysis, microfluidics, novel separation technologies

- **Therapeutics and Drug Discovery**: novel fluorescence markers, theranostics, drug delivery, pharmacokinetics, nanoparticles/micelles/lipids/etc for in vivo

disease tracking, high throughput screening for discovery, cancer research drug resistance, and disease therapies

- **Other**: cytometry in resource-poor regions, cytometry advances in regions of the world (Latin America, Asia, etc), as well as ***any category not identified in the list***