The global nature of food supply presents new challenges as each plate of food may contain ingredients from many countries, which may have been processed through different facilities, and handled by, wholesalers, retailers, and multiple transportation companies before finally reaching the consumers. The complexity of food supply chain requires rapid, reliable and robust analytical tools to ensure food safety and quality. For the past decade, there have been major advances in analytical technologies. However, food laboratories over the world face challenges in optimization, practical implementation, and validation of analytical methods for the monitoring of food safety and quality. The aims of the symposium are to fill the gap in between by providing an overview on current methods and validation process, laboratory accreditation, and trainings on analytical methods through international partnership. Invited speakers are drawn from regulatory agencies, public interest groups, international organizations, and academic and research institutions in Asia, Europe and North America.