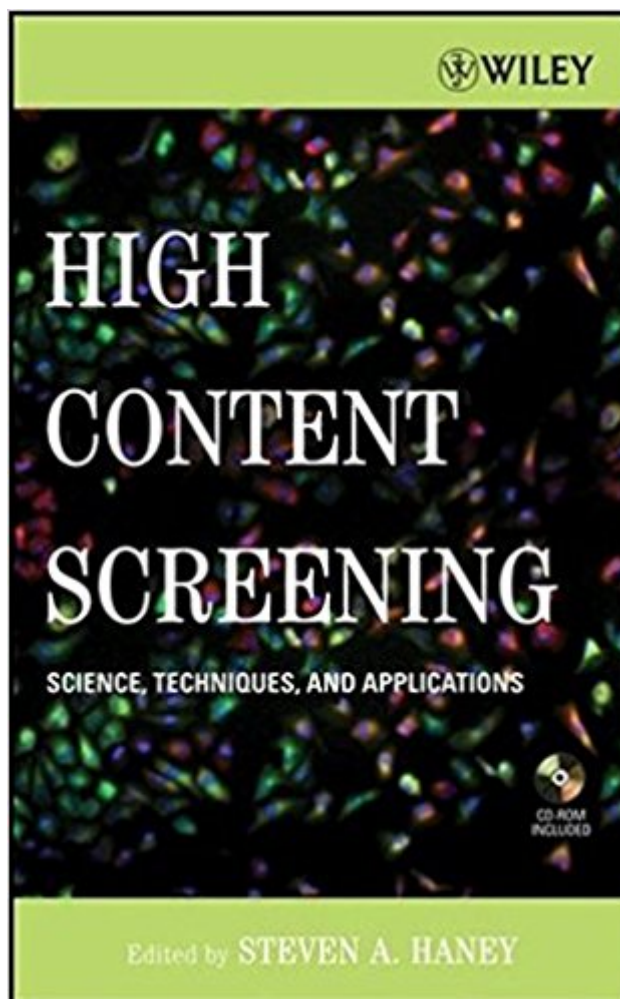The book was found

High Content Screening: Science, Techniques And Applications

Synopsis

The authoritative reference on High Content Screening (HCS) in biological and pharmaceutical research, this guide covers: the basics of HCS: examples of HCS used in biological applications and early drug discovery, emphasizing oncology and neuroscience; the use of HCS across the drug development pipeline; and data management, data analysis, and systems biology, with guidelines for using large datasets. With an accompanying CD-ROM, this is the premier reference on HCS for researchers, lab managers, and graduate students.

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Customer Reviews

The authoritative reference on HCS in biological and pharmaceutical research High Content Screening (HCS) has been a leading methodology in toxicology studies for years. Recent advances have broadened the range of applications to encompass new areas. High Content Screening: Science, Techniques, and Applications provides comprehensive coverage of HCS in four sections: The basics of HCS, from the definition to detailed discussions of component technologies Examples of HCS used in biological applications and early drug discovery, with an emphasis on applications in oncology and neuroscience   The use of HCS across the drug development pipeline Data management, data analysis, and systems biology, with guidelines for using the large datasets generated by HCS in systems-level studies   With chapters contributed by leading authorities from academia and industry, this guide covers: A wide range of topics, including assay development, cell culture, image processing, robotics, database architecture and management, model systems for

analysis, and more   Focused discussions on imaging in 3D, imaging of tissues for pharmacodynamic studies, and screening of both small molecule and RNAi libraries by HCS   The roles of bench researchers and IT personnel in implementing and maintaining HCS platforms   The challenges and advantages of using HCS today, and a look at future directions   With eighty-seven detailed figures readers can refer to in full color on the accompanying CD-ROM, this is the premier, hands-on reference on HCS for researchers in academia, biotechnology, and pharmaceutical companies. It's also an excellent resource for lab managers and graduate students in biochemistry, cell biology, toxicology, and related fields.

Steven A. Haney, PhD, is a Principal Scientist in the Department of Biological Technologies at Wyeth Research, where he has developed programs for oncology drug development, built a HCS program for use in target validation and drug discovery, and prepared gene family-based target validation strategies. Dr. Haney has authored many peer-reviewed articles and has spoken at numerous conferences on HCS.

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