
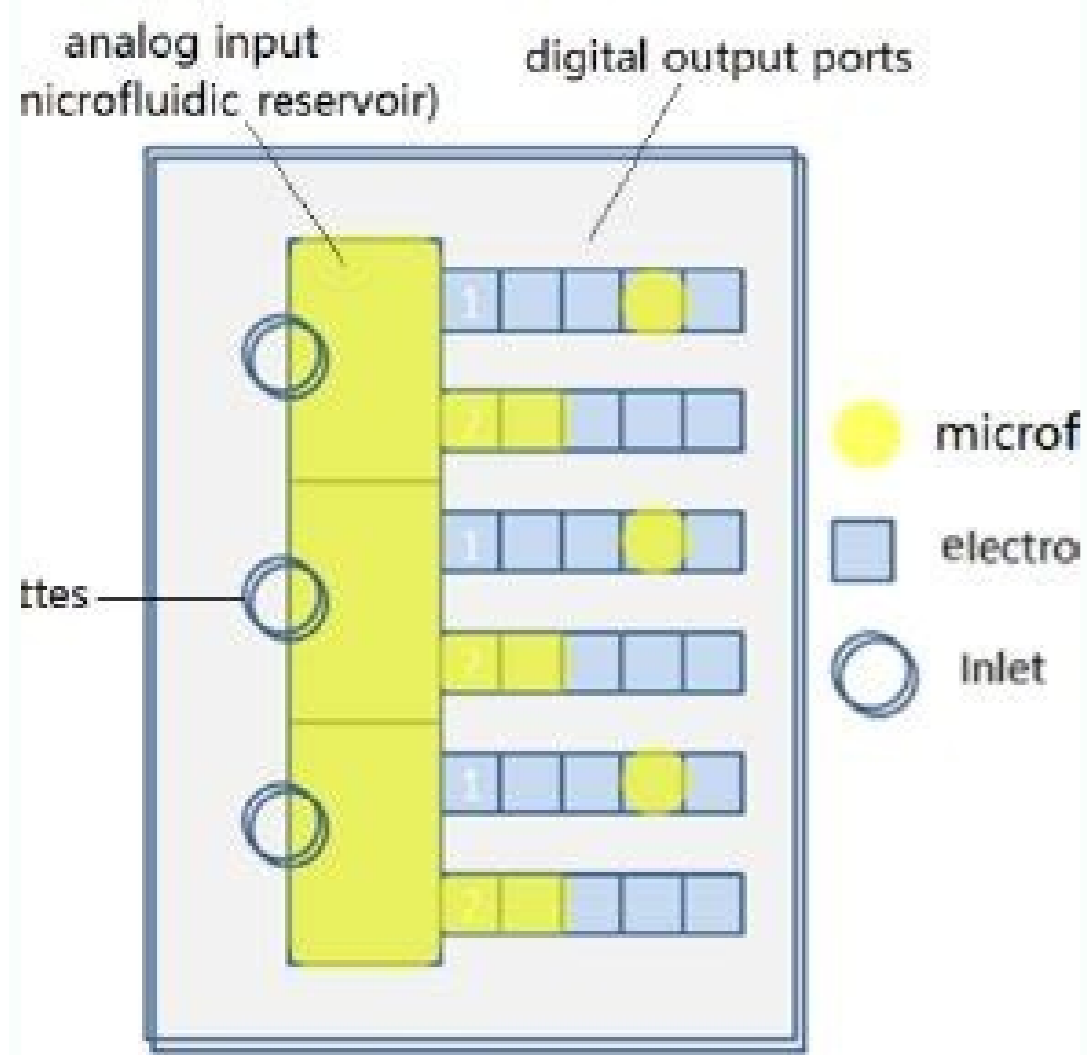


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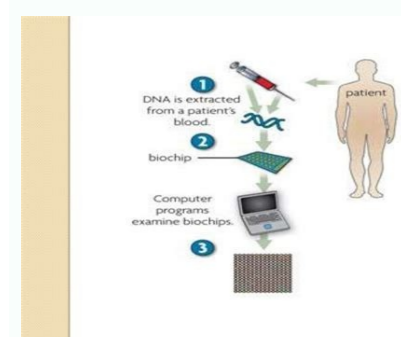
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Biochip applications.

Biochips and Microfluidic-based Microarrays Introduction Use of technologies from other microfluidic industries Digital Digital Lab-on-a-chip Fluorescence signal amplification from the fluorescence signal from the lab-on-to-chip glass use microfluidic labeled labed lab- On-a-brain lab-on-a-chip multiplex immunoassay microns' microfluidic technology Rhonix technology Microfluidic cards Fiches / Array microfluidic using PCR Digital PCR PCR digital PCR on a microfluidic DNA analysis with Microfluidic PCR RT-QPR on A microfluidic chip with integrated chip with reat microfluidic chips integrated with Pet Molecular Diagnostic applications of microfluidic Biochips / microfluidic biochips for CEE circulating cancer cell detection (cellular enrichment and extraction) technology-chip-chip to capture CTCs CTCs Nanosere for CTCs insulation Aerringbone-chip for CTCs laboratory detection ----- chip for insulation NTO and detection of CTCs microfluidic devices to analyze the blood of pediatric and neonatal microfluidic peparray patients for integrated Microfluids Peptides in situ synthesis for biomolecular interactions electrophoretic separation of nucleic acids on a microfluidic chip microfluidic chip for the analysis of 3D microfluidic technologies 4. Biochips & Microarrays for Epigenetics Introduction Epigenica Technologies Epigenica Phenotype Digital Phenotype Analysis Global Methylation Assay Of Lighting For Analysis Of Methylation Technology Methylation Sites For Immunogenetic Tests For DNA DNA Study 7 . Biochips for biomarkers, molecular diagnostics and custom medicine Introduction Microarrays with integrated P53 integrated P53 Ample Companion Diagnostic for the Infinity System In-check cancer yravlaS yravlaS COP pihc-a-no-bal. pihC niotorP egaiT isongaID COP rep SPHCOIB BiChip POC Microarray for the detection of circulating microarrays Biomarkers Application of microarrays for Discovery of Biomarkers Gene expressions Microarray Data as a source of protein biomarkers Peptide array technology for the detection of protein microarrays of biomarkers for the detection of biomarkers Qpdx biomarkers Biochips for biomarkers microarrays for the study of BiChip biomarkers and detection based on SNPS microarray Affymetrix Variation detection array BIOCHIP Combination of Beaharray and ZipCode Technologies NANICHIP for SNPS detection SNP GENOTYPING by Massarray SNP-IT PRIMER PRIMER-Extension Technology Copy Number Variations in the Human Genome Agilent Microarrays Affymetrix microarrays Infinium's CNV and SNP Lines HD Human660W-QUAD BEADCHIP ROCHE NimbleGen's CGH and CNV PRODUCT LINE TAQMAN COPY NUMBER ASSANTI INNOVATIONS INNOVATIONS CNV and MICROARRAYS Microarrays bioinformatics tools for analyzing applications of CNV data of BIOCHIP technology in personalized medicine Commercial development of BICHIP technologies For diagnostics 9. References For more information on this report Visit aãIntroduction Biochip / Microarray Definitions Conditions Used for BIOCHIPS Historical Aspects of BiChip / Microarray Technology Microarray Technology to Other Technologies Applications of BIOCHIPS / MICROARRAYS Benefits of BIOCHIPS / MICROARRAYS Biochips and microarrays based on nanotechnology Photodetectors for the detection of chemiluminescence on microfluidic chip Nanotechnology on a chip Nanchip Electronic Microarray Silver Nanorod Array for the detection of microbe and chemical chips Verigene System Use of nanotechnology in microfluidics Construction of nanofluidic channels Nanoanalyzer Chip Chip Nanoscale Flow Display Displacement aiccafretni-onaN aiccafretni-onaN demrettaponan icfrepus us acidilufonan enozeimi diulfonaN ehcimicorttele ezrof a ehicisf ezrof noc ehcidilufonan eccog id rof syarraorcim/spihcoib niotorP silec romut elgnis ni syawhtap gnulangs gniliroP rof pihc cimoeorP sisongaid rof pihcoibonan niotorP tik noitacifitnedi emoetorP yarrã niotorP elbammargorP dica cielcun pihc niotorP rosnesoib syarraorcim editpeP fo snoitacilppa syarraorcim/pihcoib niotorP fo snoitacilppa evitaitini salta niotorP namuh ni seigolonhcet yarraorcim fo esU pihc niotorP lariV scitsongaid desab-scimoetorP rof seived cidiluforcim syarraorcim/spihc niotorP ni stnempoleved weN pihc emoetorP NITCENIRT yarra elucelom elgnis syarraorcim niotorP esahp esvreR sisylana nrettap cimoeorP scitsongaid ralucelom snoitcaretni ydobitna-negitna rof spihc niotorP pihCniotorP syarraorcim editpeP syarraorcim no gniliroP niotorP dexelpitluM syarraorcim niotorP dna gnigami SM-IDLAM sisylana niotorP rof pihCbaL pihC CLPH gnisu yhpargotamorhc tmemecalpsid D2 noitacifitnedi niotorP rof pihC-CLPH syarraorcim niotorP ytisned-hgiH pihcoib niotorP desab-rematpA gniliroP yarraorcim bAM yb srekramoib fo yrevocsiD recnac fo sisongaid rof syarraorcim ydobitna syarraorcim ydobitna fo snoitacilppa syarraorcim ydobitna/ scimoetorP ytiniffA syarraorcim niotorP seigolonhcet pihcoib niotorP noitcudortni spihcoib niotorP. snoitacilppa dna seigolonhcet no desab stekram yarraorcim/pihcoib fo sisylana na si troper sihT. 6 silec recnac gnitalucric fo noitceted rof rosnesoib/pihconaN AND fo elucelom elgnis a tcteted ot seived cidilufonaN spihcoibonan fo snoitacilppa citsongaID syarraonan niotorP gnillbnessa-ileS ygolonhcet ediug evaw ranalp ecnecseroulf no desab spihcoib niotorP pihc niotorP elcitraponaN syarraonan ytisned-hgih ni selucelomoib fo noitazilibommi rof MFA syarraorcim/spihcoib niotorP desab-ygolonhcetonaN syarra revelitnaC syarra rosnesoibonan dica cielcun editpeP srosnesonan htiw spihcoib srosnesonaN metsyS orPonaN syarraonan rof yhpargoitlonaN neP piD syarraonaN AND fo yduts rof slennahc cidilufonaN pihc cidiluforcim a CAB susrev ogilO ecenerferp yarra roloc elgnis susrev laud secruos rehto ro rodnv yarra morf stnagaer esu noitacifilpma-erP scifceps noitcaeR yarra noxE yarra gniliT desu syarra fo sepyT sdnert stnerruC stekram yarraorcim fo noitubirtsid lachipargoeG srekramoib niotorP ni ygolonhcet yarraorcim fo erahs tekraM

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The markets are also analyzed based on geographical areas. Short profiles of the companies involved in Biochip / Microarray technologies are provided. Separate chapters are dedicated to applications in the discovery and development of drugs and in personalized medicine the report provides the current quota of each segment, market size in 2018 and value foreseen for the years 2023 and 2028. Development in protein microarrays is Rather less, partially because it is more mature than the other submers and already showed considerable development in the past. The gene expression has the largest share and is a consolidated market. Part of the of the microarray in other areas will develop with maximum development in the splice variants of RNA followed by epigenetics. Separate chapters are dedicated to protein biochips/microarrays, microfluidics and nano-arrays based on nanobiotechnology. Executive Executive Executive 1. Currently selected 94 companies are included along with a listing of 121 collaborations between companies. The impact of next generation sequencing on segments of microarray markets is identified. Areas of application such as point-of-care, genetic screening, cancer, and diagnosis of infections are included. December 03, 2019 03:16 PM Eastern Standard Time DUBLIN--(BUSINESS WIRE)--The "Biochips - Technologies, Markets & Companies" report from Jain PharmaBiotech has been added to ResearchAndMarkets.com's offering. Companies Profiles of companies Collaborations 11. Technologies include array comparative genomic hybridization (CGH), copy number variation (CNV), DNA methylation, ChIP-Chip, RNA splice variants, and microRNA. The text is supplemented by 21 tables, 11 figures and 140 references to literature. Various applications of biochips and microarrays are described throughout the report. Biochip and Microarray Technologies Introduction Nucleic acid amplification and microarrays PCR on a chip Fast PCR biochip Multiplex microarray-enhanced PCR for DNA analysis Universal DNA microarray combining PCR and ligase detection reaction NASBA combined with microarray Rolling circle amplification on microarrays LiquiChip-RCAT Multiplexed Molecular Profiling Genomewide association scans Whole genome microarrays GeneChip Human Genome Arrays Arrayit's H25K Transposon insertion site profiling chip Standardizing the microarrays Optical Mapping Imaging technologies used for detection in biochips/microarray Fluorescence and chemiluminescence MALDI-MS imaging and tissue microarrays Surface plasmon resonance technology for microarrays Microarray imaging systems Vidia Microarray Imaging Systems GeneFix 4100A Microarray Scanner Tecan LS Reloaded Microarrays based on detection by physico-chemical methods Electrical biochips Photoelectrochemical synthesis of DNA microarrays Microchip capillary electrophoresis Strand displacement on a biochip Biosensor technologies for biochips DNA-based biosensors Arrayed Imaging Reflectometry Digital electronic biosensor chips Phototransistor biochip biosensor Applications of biosensor biochips Biosensors in food safety Cholesterol biosensor Glucose biosensors Biochips and microarrays for cytogenetics Chromosomal microarrays Comparative genomic hybridization Array-based CGH NimbleGen CGH arrays Single-cell array CGH Regulatory requirements for array CGH Combination of FISH and gene chips Combination of CGH and SNP microarray platforms Fish-on-chip SignatureChip Tissue microarrays Pathology tissue-ChIP Carbohydrate microarrays RNA profiling RNA splice variants RIP-Chip miRNAs Microarrays for miRNAs Microarrays vs qPCR for measuring miRNAs Quantitative analysis of miRNAs in tissue microarrays by ISH Exon microarrays Microarrays & DNA sequencing Microarray-based emerging DNA sequencing technologies Exome sequencing for study of human variation High-throughput array-based resequencing Sequencing by hybridization SOLiD-System based ChIP-Sequencing Next generation sequencing vs microarrays for expression profiling Microarrays for synthetic biology Arrayit microarray platform for synthetic biology Microarray-based gene synthesis Magnetophoretic array-based cell sorting for further studies 3. 3.

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