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The application of nuclear magnetic resonance (NMR) metabolomics in cancer research requires an understanding of the many possibilities that NMR metabolomics can offer, as well as of the specific characteristics of the cancer metabolic phenotype and the open questions in cancer research. NMR metabolomics in cancer research presents a detailed account of the NMR spectroscopy methods applied to metabolomics mixture analysis along with a discussion of their advantages and disadvantages.

NMR Metabolomics in Cancer Research / ScienceDirect

With these successful applications of NMR-based metabolomics to the medical field, we hypothesized that LC could also be diagnosed using the different metabolite profiles in CSF measured by in vitro NMR spectroscopy. In the present study, we used a rat LC model using F-98 glioma cells expressing GFP to enhance the detectability of cancer cells in cytology and histopathology.

An NMR Metabolomics Approach for the ... - Cancer Research

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Summary : The application of nuclear magnetic resonance (NMR) metabolomics in cancer research requires an understanding of the many possibilities that NMR metabolomics can offer, as well as of the specific characteristics of the cancer metabolic phenotype and the open questions in cancer research. NMR metabolomics in cancer research presents a detailed account of the NMR spectroscopy methods applied to metabolomics mixture analysis along with a discussion of their advantages and disadvantages.

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Metabolomics is a systematic study of all the metabolites in a cellular tissue or bio-fluid. It is suspected that more than 30,000

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metabolites are present in the human cell and some of them can be...

NMR Metabolomics as Novel Screening Tool for New-borns ...

Cancer metabolic studies are generally conducted using either NMR spectroscopy or LC-MS using three major approaches: first, untargeted LC-MS methods to profile metabolites in order to discover those that are dysregulated using sophisticated software packages to reveal differences in the chromatographic profiles [4-7].

Translational metabolomics in cancer research

Nuclear magnetic resonance (NMR) spectroscopy is commonly applied in metabolomics studies of cancer. This chapter provides protocols for NMR-based metabolomics of cell cultures, biofluids (serum and urine), and intact tissue, with concurrent advice for optimal biobanking and sample preparation procedures.

NMR-Based Prostate Cancer Metabolomics

NMR-based metabolomics is a relevant tool in cancer research; Breast cancer is associated with specific metabolic aberrations; NMR-based metabolomics can provide important information at all stages of the cancer timeline; Standardization, validation, multi-center studies, and data-sharing are important issues that can enhance clinical translation

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NMR-based metabolomics in breast cancer research ...

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NMR Metabolomics in Cancer Research - Geneeskundeboek

Nuclear magnetic resonance (NMR) spectroscopy metabolomic analysis has recently been used to investigate the molecular basis of prostate cancer. Urine samples from over 650 men with prostate cancer or BPH were analyzed by ^1H NMR to identify metabolic alterations specific to prostate cancer.

^1H -NMR based urinary metabolomics reveal unique prostate ...

A multivariate statistical analysis of the urine NMR data well discriminated between the patient and control groups and revealed nine metabolites, including alanine, citrate,

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creatinine, creatinine, glycerol, hippurate, phenylalanine, taurine, and 3-hydroxybutyrate, that contributed to the difference.

Screening for Early Gastric Cancer Using a Noninvasive ...

In summary, NMR based metabolomics is a versatile tool in cancer research. Numerous studies show promising results across the cancer timeline; However, clinical implementation is still low. That ...

High Throughput Identification and Quantification of ...

Thought Leaders
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Breast cancer is the leading cause of cancer-related death among the female population

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