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for NMR-based Metabolomics

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Workflows, Strategies and Challenges  
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~~Prostate cancer updates: Advances in~~

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~~precision medicine and PARP inhibitors~~  
Proteogenomics in cancer research ~~New~~  
~~potential emerging as NMR established in~~  
~~clinical setting (for research use only)~~

~~Biomarkers of Cancer~~ What is  
Metabolomics (Video 6 of 8)

Metabolomics: You Are What You Eat

Overview of Metabolomics Methods,

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Charles Evans ~~Multivariate analysis and  
visualization tools for metabolomic data~~

The NMR Laboratory at NTNU in

Trondheim, Norway (For research use

only) Webinar: Metabolomic Profiling of

Anionic Metabolites in Head and Neck

Cancer Cells #Metabolomics and #cancer

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Metabolomics in Cancer Prevention Using



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~~Metabolites to Help with Cancer Detection~~

NMR Metabolomics: Kathleen A. Stringer

Lecture 7: NMR \u0026amp; Metabolite

~~Imaging Metabolomics: molecules of life,~~

~~an introduction Longevity, Senescence,~~

~~Autophagy, mTOR Inhibition + More w/~~

~~Jeff Grimm~~ Metabolomics: Completing

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Research 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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NMR Metabolomics in Cancer Research |  
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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

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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

NMR Metabolomics in Cancer Research

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Description. The application of nuclear magnetic resonance (NMR) metabolomics in cancer research requires an... About the Author. Dr Miroslava Cuperlovic-Culf is a Research Officer at the National Research Council of Canada...

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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

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Research 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

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disadvantages. Woodhead

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Metabolomics is a systematic study of all

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

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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].



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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

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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

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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

NMR-based metabolomics in breast

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cancer research ... Woodhead

NMR Metabolomics in Cancer Research

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Cancer Research

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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

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metabolic phenotype and the o

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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

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Research from over 650 men with prostate cancer or BPH were analyzed by  $^1\text{H}$  NMR to identify metabolic alterations specific to prostate cancer.

$^1\text{H}$ -NMR based urinary metabolomics reveal unique prostate ...

A multivariate statistical analysis of the

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urine NMR data well discriminated between the patient and control groups and revealed nine metabolites, including alanine, citrate, creatine, creatinine, glycerol, hippurate, phenylalanine, taurine, and 3-hydroxybutyrate, that contributed to the difference.



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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 ...

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High Throughput Identification and  
Quantification of ...

Thought Leaders Dr. Tone Frost

Bathen Head Professor MR Cancer Group

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

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