

DIFFUSION TENSOR IMAGING

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[Diffusion Tensor Imaging of the Brain - PubMed Central \(PMC\)](#)

Diffusion tensor imaging (DTI) is a promising method for characterizing microstructural changes or differences with neuropathology and treatment. The diffusion tensor may be used to characterize the magnitude, anisotropy and orientation of the diffusion tensor. This paper reviews the biological

[A hitchhiker's guide to diffusion tensor imaging](#)

Diffusion Tensor Imaging (DTI) studies are increasingly popular among clinicians and researchers as they provide unique insights into brain network connectivity. However, in order to optimize the use of DTI, several technical and methodological aspects must be factored in. These include decisions on

[Diffusion Tensor Imaging: Practice Essentials, Tensor and ...](#)

Diffusion-weighted imaging (DWI) is a well-established magnetic resonance imaging (MRI) method for diagnosing cerebral ischemia. DWI is a routine protocol in most institutions that perform neuroimaging; normal states and abnormal conditions are easily interpreted through the use of DWI in conjunction with the use of apparent

[Diffusion MRI - Wikipedia](#)

Diffusion-weighted magnetic resonance imaging (DWI or DW-MRI) is the use of specific MRI sequences as well as software that generates images from the resulting data, that uses the diffusion of water molecules to generate contrast in MR images.

[Diffusion Tensor Imaging \(DTI\) - Fiber Tracking - Imagilys](#)

Diffusion Tensor Imaging (DTI) is an MRI-based neuroimaging technique which makes it possible to estimate the location, orientation, and anisotropy of the brain's white matter tracts. This image, visualized in our neuroimaging software suite, BrainMagix[®], displays an overview of the brain's main white matter bundles.

[Diffusion Tensor Imaging: Concepts and Applications](#)

With diffusion tensor imaging (DTI), diffusion anisotropy effects in diffusion MRI data could be fully extracted, characterized, and exploited, providing even more exquisite details of tissue microstructure. Many studies have been published dealing with the optimization of the MRI sequences necessary to gain access to the diffusion tensor; the processing and display of DTI data; and, of

[Diffusion Tensor Imaging | SpringerLink](#)

Diffusion tensor MRI (DT-MRI) is the only non-invasive method for characterising the microstructural organization

of tissue in vivo. Generating parametric maps that help to visualise different aspects of the tissue microstructure (mean diffusivity, tissue anisotropy and dominant fibre orientation)

[Diffusion tensor imaging | definition of diffusion tensor](#)

...

diffusion tensor imaging Abbreviation: DTI An imaging technique in magnetic resonance imaging to identify the unique directional movement of molecules, esp. water molecules, along muscle and neural tracts. One of its uses is to identify the linkages and structures of white matter tracts in the brain. See also: Imaging Diffusion tensor imaging

[Diffusion tensor - Questions and Answers in MRI](#)

The diffusion tensor was briefly discussed in a previous Q&A where the concept of diffusion anisotropy was introduced. Biological tissues are highly anisotropic, meaning that their diffusion rates are not the same in every direction.

[Diffusion Tensor Imaging - Neurography Institute](#)

The Neurography Institute is the world's leading expert source for Diffusion Tensor Imaging. Brain Injury when a routine brain MRI shows no abnormality

[Diffusion MRI - an overview | ScienceDirect Topics](#)

There are various kinds of diffusion MRI methods, the most commonly used called diffusion tensor imaging. Diffusion MRI can provide information about which areas of the brain are connected, but it is not able to determine the direction of this connectivity (which endpoint is the source and which endpoint is the target).

[Diffusion Tensor Imaging \(DTI\) Department of Medical ...](#)

Diffusion Tensor Imaging or DTI can be used in order to probe, in vivo, the intrinsic, three-dimensional diffusion properties of water within tissues.

[Diffusion Tensor Imaging](#)

Short video about Diffusion Tensor Imaging and its application in the MRI system.

[Diffusion Imaging: Introduction, tutorials and background ...](#)

In the scanner the diffusion tensor is measured by imaging the diffusion in individual gradient directions, like in the image below. If you are interested a more in depth mathematical explanation of this principle is provided in our post here .