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Principle, procedure and applications

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--- Nahrung, 42(2), 1998 Renowned experts present the first state-of-the-art description of circular dichroism spectroscopy (CD). Chapters present in-depth discussions of the history of the field, the theory of CD for application to globular proteins, membrane proteins, peptides, nucleic

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Abstract Here we review studies that provided important information about conformational properties of DNA

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using circular dichroic (CD) spectroscopy. The conformational properties include the B-family of structures, A-form, Z-form, guanine quadruplexes, cytosine quadruplexes, triplexes and other less characterized structures.

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Circular dichroism and

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Here we review studies that provided important information about

conformational properties of DNA using circular dichroic (CD)

spectroscopy. The conformational properties include the B-family of

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structures, A-form, Z-form, guanine quadruplexes, cytosine quadruplexes, triplexes and other less characterized structures.

Circular dichroism and conformational polymorphism of DNA

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Circular Dichroism (CD) spectroscopy is a powerful method for investigating conformational changes in proteins and therefore has numerous applications in structural and molecular biology.

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Frelek and co workers proposed an empirical helicity rule relating the configuration of the bridgehead carbon atom to the sign of the 220 nm band in the electronic circular dichroism (CD) spectrum of lactams.

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Circular dichroism is dichroism involving circularly polarized light, i.e., the differential absorption of left- and right-handed light. Left-hand circular

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and right-hand circular polarized light represent two possible spin angular momentum states for a photon, and so circular dichroism is also referred to as dichroism for spin angular momentum. This phenomenon was discovered by Jean-Baptiste Biot, Augustin Fresnel, and Aimé Cotton in

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the first half of the 19th century.
Circular dichroism ...

Circular dichroism - Wikipedia

Circular Dichroism (CD), which is the difference in the absorption of left-handed circularly polarized light and right-handed circularly polarized light

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that arise due to structural asymmetry, is the technique used for analyzing secondary and tertiary structures and folding properties of proteins in solutions, which could be changed due to its environmental changes such as temperature or pH.

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Circular Dichroism - an overview | ScienceDirect Topics

The electronic circular dichroism (ECD) spectra of flexible molecules include the contributions of all conformers populated at the working temperature. ECD spectra of chiral substrates depend on their

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stereochemistry in terms of both
absolute configuration, as reflected in
the sign of the spectrum, and molec

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The circular dichroism (CD) spectra of
the four usual deoxymononucleosides,
all sixteen deoxydinucleotides, and a

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number of trinucleotides have been measured. The dimer spectra are quite different from the sum of the spectra of their constituent monomers.

Oligonucleotide interactions. III.

Circular dichroism ...

This tutorial review is addressed to

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readers with a background in basic organic chemistry and spectroscopy, but without a specific knowledge of electronic circular dichroism. It describes the fundamental principles, instrumentation, data analysis, and different approaches for interpretation of ECD. The discussion

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focuses on the application of ECD,
also in combination with other
methods, in ...

Application of electronic circular
dichroism in ...

We report an extensive study of the
molecular and electronic structure of

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(-) S nicotine, to deduce the phenomenon that controls its conformational equilibrium and to solve its solution state conformer population. Density functional theory, ab initio, and molecular mechanics calculations were used together with vibrational circular dichroism (VCD)

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There is a lot of good advice above, and also direct, simple studies on the CD and ORD studies on bends and loop-like structures go back a long way (e.g. “Circular dichroism of beta turns in ...

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spectroscopy for ...

Photoelectron circular dichroism (PECD) is a novel type of spectroscopy, which presents surprising sensitivity to conformational effects in chiral systems. While classical photoelectron spectroscopy mainly responds to

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Conformational effects in terms of energy level shifts, PECD provides a rich and d ...

Conformational effects in photoelectron circular dichroism
Abstract The effect of Zn^{2+} binding on the circular dichroism (CD) spectra of

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Brain-specific S-100a and S-100b calcium-binding proteins has been examined. In the presence of Zn^{2+} , S-100a undergoes a conformational change and the decrease in ellipticity at 222 nm, as a result of Zn^{2+} addition, was nearly 1400 deg.cm².dmol⁻¹, whereas with

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S-100b there was no significant
conformational change.

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