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Nota di contenuto	1. Introduction -- 2. Naphthylisoquinoline Alkaloids, a Fascinating Class of Axially Chiral Biaryl Natural Products -- 3. Ancistrocladus, a Genus of Woody Lianas of the Monotypic Plant Family Ancistrocladaceae Widely Occurring in India, Sri Lanka, and Southeast Asia -- 4.The Indian Liana Ancistrocladus heyneanus and Ancistrocladus hamatus from Sri Lanka: Early Studies and More Recent Discoveries -- Full Absolute

Stereostructures of Naphthylisoquinoline Alkaloids Directly from Crude Extracts: Characterization of New Metabolites from Ancistrocladus griffithii by the HPLC-MS/MS-NMR-ECD Triad -- 6. Ancistrobenomine A, the First Naphthylisoquinoline Alkaloid with a Hydroxymethylene Function at C-3, and Related 5,1'-Coupled Compounds -- 7. Ancistrocladus cochinchinensis from Central Vietnam, a Distinct Ancistrocladus Taxon? — Metabolite Pattern und Phylogenetic Relationship to Ancistrocladus aff. tectorius from China -- 8. Widespread Throughout Southeast Asia: Ancistrocladus tectorius, a Rich Source of Unique, Structurally Most Diverse Mono- and Dimeric Naphthylisoquinoline Alkaloids -- 9. Tables of the Naphthylisoquinoline Alkaloids and Related Compounds Isolated from Asian Ancistrocladus Species.

Sommario/riassunto

This book describes a unique class of secondary metabolites, the mono- and dimeric-naphthylisoquinoline alkaloids. They exclusively occur in lianas of the palaeotropical Ancistrocladaceae and Dioncophyllaceae plant families. Their unprecedented structures include stereogenic centers and rotationally hindered, and therefore stereogenic, axes. Extended recent investigations on six Ancistrocladus species from Asia, as reported in this contribution, shed light on their fascinating phytochemical productivity, with over 100 intriguing natural products. This high chemodiversity arises from a similarly unique biosynthesis from acetate-malonate units, following a novel polyketidic pathway to plant-derived isoquinoline alkaloids. Some of the compounds show most promising anti-parasitic activities. Additionally, strategies for the regio- and stereoselective total synthesis of the alkaloids, including the directed construction of the chiral axis, are also presented.

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Sommario/riassunto

The ultimate goal of functional brain imaging is to provide optimal estimates of the neural signals flowing through the long-range and local pathways mediating all behavioral performance and conscious experience. In functional MRI (Magnetic Resonance Imaging), despite its impressive spatial resolution, this goal has been somewhat undermined by the fact that the fMRI response is essentially a blood-oxygenation level dependent (BOLD) signal that only indirectly reflects the nearby neural activity. The vast majority of fMRI studies restrict themselves to describing the details of these BOLD signals and deriving non-quantitative inferences about their implications for the underlying neural activity. This Frontiers Research Topic welcomed empirical and theoretical contributions that focus on the explicit relationship of non-invasive brain imaging signals to the causative neural activity. The articles presented within this resulting eBook aim to both highlight the importance and improve the non-invasive estimation of neural signals in the human brain. To achieve this aim, the following issues are targeted: (1) The spatial limitations of source localization when using MEG/EEG. (2) The coupling of the BOLD signal to neural activity. Articles discuss how animal studies are fundamental in increasing our understanding of BOLD fMRI signals, analyze how non-neuronal cell types may contribute to the modulation of cerebral blood flow, and use modeling to improve our understanding of how local field potentials are linked to the BOLD signal. (3) The contribution of excitatory and

inhibitory neuronal activity to the BOLD signal. (4) Assessment of neural connectivity through the use of resting state data, computational modeling and functional Diffusion Tensor Imaging (fDTI) approaches.