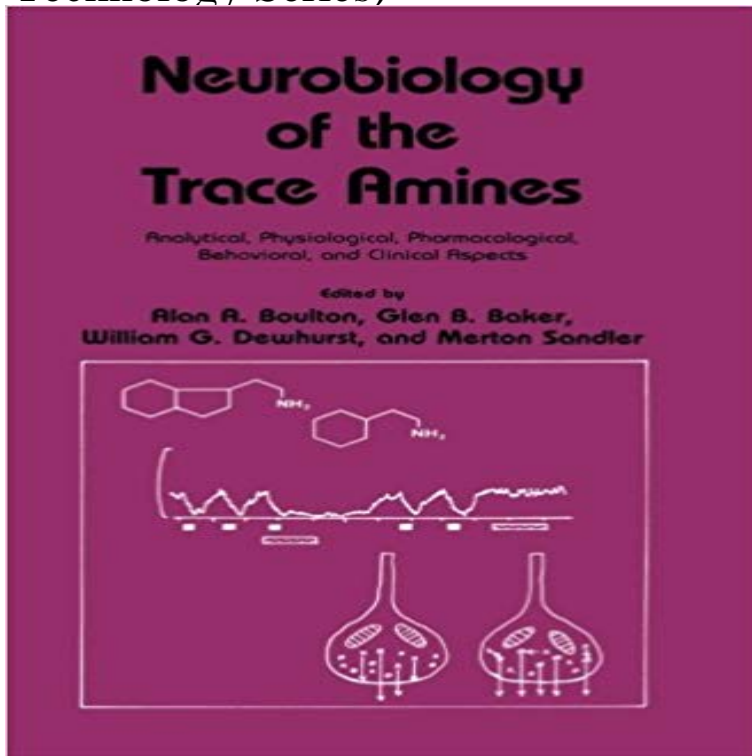


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Many of the trace amines—more correctly called biogenic amines—have been known for decades, but because of their tiny concentrations (0.01–100 ng/g) in brain, it was only after the development of sophisticated analytical techniques (such as mass spectrometry) that they could be identified and quantitated in nervous tissue. There are now more than 20 of them and most are related to the catecholamines and 5-hydroxytryptamine both structurally and metabolically. Their pharmacological and physiological properties make them prime candidates for a transmitter or neuromodulator role and many of them elicit profound behavioral syndromes after injection—one of them, phenylethylamine, has even been referred to as nature's amphetamine. In the clinical sphere several have been shown to be involved in: Parkinsonism, schizophrenia, depression, agoraphobia, aggression, hyperkinesia, migraine, hypertensive crises, hypertyrosinemia, hepatic encephalopathy, epilepsy, and cystic fibrosis. Thus the research reported here on these intriguing new substances will be of great interest to psychiatrists, neurologists, biochemists, pharmacologists, physiologists, psychologists, behaviorists and indeed to all those working in the neurosciences and related fields today.

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