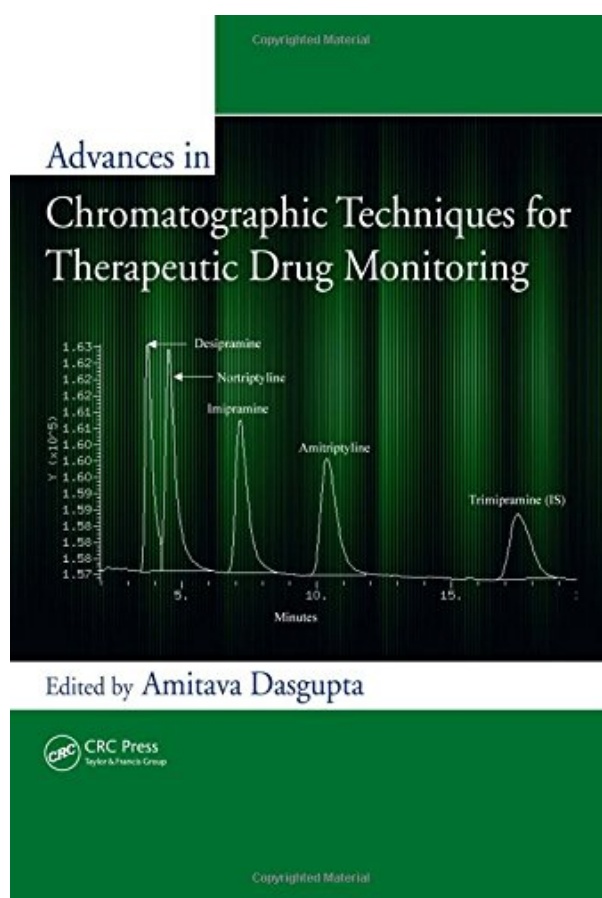


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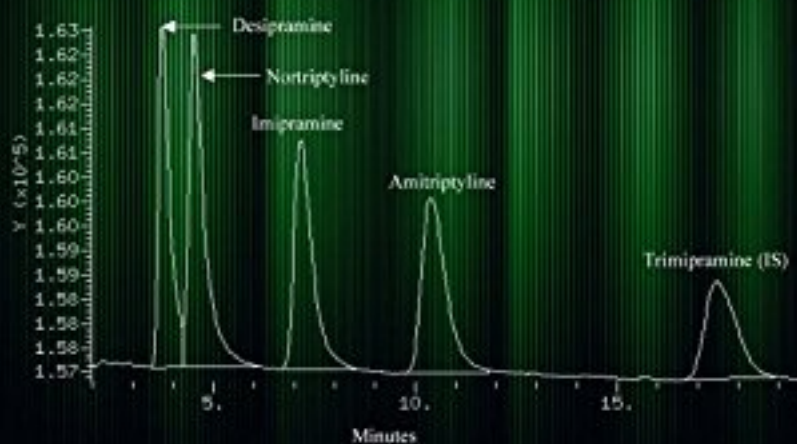


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# Advances in Chromatographic Techniques for Therapeutic Drug Monitoring



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## Review

...This excellent book reviews not only those drugs for which chromatographic techniques have long been used, but also drugs for which therapeutic monitoring is newer (e.g., antiretroviral agents, immunosuppressive drugs, antineoplastic compounds, antidepressant drugs, analgesics, cardioactive drugs, and antibiotics). ... Edited by a distinguished authority on therapeutic drug monitoring, this book should serve as both an invaluable reference for analytical toxicologists and a practical guide for laboratory physicians and scientists who are involved in the monitoring of therapeutic agents.

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?Michael Hodsdon in *Future Science*, May 2010, vol. 2, no. 5

## About the Author

Dr. Amitava Dasgupta is a Professor of Pathology and Laboratory Medicine at the University of Texas Health Sciences Center at Houston. He is also the Director of Clinical Chemistry, Toxicology, and Point of Care Services at the Memorial-Hermann Hospital Laboratories at the University of Texas Medical School at Houston. He received his PhD in chemistry from Stanford University and completed his fellowship in clinical chemistry from the University of Washington at Seattle. He is certified in both clinical chemistry and toxicology by the American Board of Clinical Chemistry. Dr. Dasgupta's major research interest is in the field of therapeutic drug monitoring and he has published 175 papers and numerous reviews and has edited four books. He is on the editorial board of *American Journal of Clinical Pathology*, *Archives of Pathology and Laboratory Medicine*, *Therapeutic Drug Monitoring*, *Clinica Chimica Acta*, and *Journal of Clinical Laboratory Analysis*.

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For drugs with a narrow therapeutic index, therapeutic drug monitoring methods are essential for patient management. Although immunoassays are commercially available for many drugs and most laboratories use these assays for routine therapeutic monitoring, they have many limitations which hinder their efficacy. Providing practical guidelines for implementing preferred gas and liquid chromatographic methods, *Advances in Chromatographic Techniques for Therapeutic Drug Monitoring* is a comprehensive reference describing the theory and application of therapeutic drug monitoring in clinical laboratories.

Edited by a distinguished authority in the field and containing contributions from a variety of experts, the book discusses preanalytical variables, the pitfalls of immunoassays, tandem mass spectrometry, issues related to pain management and herbal supplements, and therapeutic drug monitoring for a range of medications, including:

- Anticonvulsants
- Digitalis
- Cardioactive drugs
- Antidepressants
- Immunosuppressants
- Anti-cancer drugs
- Vancomycin and aminoglycosides
- Antibiotics
- Antiretroviral drugs
- Nonnarcotic analgesics
- Anti-inflammatory drugs

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## Review

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