

This article was downloaded by:

On: 25 January 2011

Access details: *Access Details: Free Access*

Publisher *Taylor & Francis*

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



## Journal of Liquid Chromatography & Related Technologies

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713597273>

**A review of: “HPLC of Proteins, Peptides and Polynucleotides, Edited by M.T.W. Hearn, Analytical Techniques in Clinical Chemistry and Laboratory Medicine Series, Vol. 2, VCH Publishers, New York, 1991.”**

**To cite this Article** (1992) 'A review of: “HPLC of Proteins, Peptides and Polynucleotides, Edited by M.T.W. Hearn, Analytical Techniques in Clinical Chemistry and Laboratory Medicine Series, Vol. 2, VCH Publishers, New York, 1991.”', *Journal of Liquid Chromatography & Related Technologies*, 15: 14, 2629 – 2631

**To link to this Article:** DOI: 10.1080/10826079208017207

**URL:** <http://dx.doi.org/10.1080/10826079208017207>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.informaworld.com/terms-and-conditions-of-access.pdf>

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

## THE BOOK CORNER

**HPLC OF PROTEINS, PEPTIDES AND POLYNUCLEOTIDES**, Edited by M.T.W. Hearn, Analytical Techniques in Clinical Chemistry and Laboratory Medicine Series, Vol. 2, VCH Publishers, New York, 1991.

An advance in any technique is normally a combination of effort by many people. The same is true in the HPLC of biomolecules and I fully agree with the following observation by Dr. Hearn. "The fusion of skills from biochemists, chromatographers, analytical chemists, and biologists over the past 20 years now means that to a large extent the separation and analysis of bio-macromolecules are not simply based on empirical recipes and intuition of the experimental scientist but increasingly on a rational, strategic framework incorporating structural and functional knowledge on the molecular properties, attributes, and vagaries of the particular biosubstances. Consequently, modern biochromatographic methods have taken on a dimension much larger than other separation methods because of their versatility as ultramicroanalytical procedures through to large process scale preparative procedures."

This book addresses these issues in a number of ways through a detailed examination of contemporary topics and applications of high-performance liquid chromatography and related techniques in the analysis and purification of biomolecules, such as peptides, proteins, and polynucleotides. The general concepts, applications, and physicochemical consequences of these high-resolution separation procedures are presented with the aim to provide students, teachers, and researchers in all facets of the life sciences, and biomedicine and biotechnology in particular, with a concise, yet comprehensive assessment of the essential issues and their solutions.

Although the 22 chapters of the book are written by different scientists, the editor has eliminated any duplication and repetition of material. In chapter 22, references 6 and 7 were switched. The book is well written and definitely is a good reference to have.

Table of Contents:

1. **Current Status and Future Challenges of High-Performance Liquid Chromatographic Techniques for Biopolymer Analysis and Purification**, M.T.W. Hearn, (1).
2. **Sample Presentation and Column Hygiene**, C.T. Wehr, (37).

3. **Development of Advanced Silica-Based Packing Materials**, K.K. Unger, K.D. Lork, and H.-J. Wirth, (59).
4. **High-Performance Agarose-Based Chromatographic Media and Their Application in Biopolymer Separation**, S. Hjerten, (119).
5. **The Development of High-Performance Multimode and Mixed-Mode Poly-ethyleneimine-Based Chromatographic Media**, M.P. Henry, (149).
6. **Comparative Performance of Silica-Based Adsorbents for Ion-Exchange and Hydrophobic-Interaction Chromatography**, K.M. Gooding and M.N. Schmuck, (177).
7. **High-Performance Ion-Exchange Chromatography of Proteins**, M.I. Aguilar, A.N. Hodder, and M.T.W. Hearn, (199).
8. **Reversed-Phase and Hydrophobic-Interaction Chromatography of Proteins**, M.I. Aguilar and M.T.W. Hearn, (247).
9. **Optimization and Prediction of Peptide Retention Behavior in Reversed-Phase Chromatography**, C.T. Mant and R.S. Hodges, (277).
10. **Multidimensional, Microscale HPLC Technique in Protein Sequencing**, N. Takahashi, T. Isobe, and F.W. Putnam, (307).
11. **Optimization of Protein Separations on Multimodal Chromatographic Supports**, D.R. Nau, (331).
12. **Protein-Protein Interactions Studied by Chromatography**, B. Sebille, C. Vidal-Madjar, and A. Jaulmes, (397).
13. **Preparative Dye-Ligand Chromatography**, Y.D. Clonis, (453).
14. **Application of High-Performance Affinity Chromatographic Techniques**, D. Josic, A. Becker, and W. Reutter, (469).
15. **Stationary and Mobile Phase Effects in High-Performance Liquid Chromatography of Protein Hormones**, B.S. Welinder, H.H. Sorensen, K.R. Hejnaes, S. Linde, and B. Hansen, (495).
16. **HPLC Purification of Detergent - Solubilized Membrane Proteins**, S.C. Goheen, (555).
17. **Purification of Viral Proteins**, G.W. Welling and S. Welling-Wester, (573).
18. **HPLC Purification of Monoclonal Antibodies**, B. Pavlu, (599).

19. **Application of High-Performance Liquid Chromatography to the Determination of Physiological Amino Acids**, G.A. Qureshi, (625).
20. **HPLC of Oligonucleotides**, L.W. McLaughlin, (665).
21. **HPLC of Plasmids, DNA Restriction Fragments, and RNA Transcripts**, D. Riesner, (689).
22. **Separation of Proteins and Peptides by High-Performance Capillary Electrophoresis: A versatile Analytical and Micropreparative Method**, S. Hjerten, (737).