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Altri autori (Persone)	LottspeichF <1947-> (Friedrich) MeyerH. E (Helmut E.)
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Nota di contenuto	Microcharacterization of Proteins; Contents; Section I: Overview; 1.1 Microcharacterization of Proteins; 1 General Aspects; 2 From a Cell to a Protein Sequence; 3 FutureTrends; Section II: Sample Preparation; II.1 Chemical and Enzymatic Fragmentation of Proteins; 1 Strategy; 2 Denaturation, Reduction and Alkylation; 3 Enzymatic Fragmentation; 3.1 Enzymes; 3.2 Practical Considerations; 4 Chemical Fragmentation; 4.1 Cyanogen Bromide Cleavage; 4.2 Partial Acid Hydrolysis; 4.3 Hydroxylamine Cleavage of Asn-Gly Bonds; 4.4 Cleavage at Tryptophan; 4.5 Cleavage at Cysteine; 5 References II.2 Microseparation Techniques I: High Performance Liquid Chromatography1 Introduction; 2 Getting Started; 2.1 Solvents; 2.2 Pump; 2.3 Pre-Column Split; 2.4 Sample Preparation; 2.5 Injector; 2.6 Tubings; 2.7 In-Line Filter, Guard Column; 2.8 Analytical Column; 2.9 Elution; 2.10 Detection; 2.11 Fractionation; 3 Applications; 4 References; II.3 Microseparation Techniques II: Analysis of Peptides and Proteins by Capillary Electrophoresis; 1 Introduction; 2 Theory; 2.1

Capillary Isotachophoresis; 2.2 Capillary Zone Electrophoresis; 2.3 Electroosmotic Flow; 3 Instrumentation; 3.1 Injection
3.2 Detection4 Applications; 4.1 Peptide Separations; 4.2 Protein Separations; 5 References; II.4 Microseparation Techniques III: Gel Electrophoresis for Sample Preparation in Protein Chemistry; 1 Introduction; 2 Denaturing Techniques; 2.1Commonly Used SDS-Polyacrylamide Gel Electrophoresis Techniques for Protein Separation; 2.2 Blue-SDS-PAGE for Quantitative Protein Recovery from Gels; 2.3 Electroelution of Proteins After Blue-SDS-PAGE; 2.4 Electroblotting of Blue and Colourless SDS Gels; 2.5 Isoelectric Focusing in the Presence of Urea; 3 Native Techniques; 3.1 Colourless-Native-PAGE
3.2 Blue-Native-PAGE3.3 Native Isoelectric Focusing; 4 References; II.5 Microseparation Techniques IV: Electroblotting; 1 Introduction; 2 Electroblotting; 2.1 Polyacrylamide Gel Electrophoresis; 2.2 Blot Systems; 2.2.1 Tank Blotting; 2.2.2 Semidry Blotting; 2.3 Blotting Parameters; 2.3.1 The Blotting Process; 2.3.2 Transfer Buffers; 2.3.3 Addition of SDS; 2.3.4 Addition of Methanol; 2.3.5 Influence of Protein Concentration; 3 Blotting Membranes; 4 References; Section III: Amino Acid Analysis; III.1 Amino Acid Analysis; 1 Introduction; 2 Sample Preparation; 2.1 Peptides and Proteins
2.1.1 Enzymatic Hydrolysis2.1.2 Acid Hydrolysis; 2.1.3 Alkaline Hydrolysis; 2.2 Free Amino Acids; 3 Derivatization; 3.1 Post-Column Derivatization; 3.1.1 Ninhydrin; 3.1.2 Orthophthaldialdehyde; 3.1.3 Fluorescamine; 3.2 Pre-Column Derivatization; 3.2.1 Phenylisothiocyanate; 3.2.2 Orthophthaldialdehyde; 3.2.3 Fluorenylmethyl Chloroformate; 3.2.4 Dabsyl Chloride; 3.2.5 Dansyl Chloride; 3.2.6 Chiral Reagents; 4 Data Evaluation; 5 Instrumentation; 6 Discussion; 7 References; Section IV. Protein Sequence Analysis; IV. 1 The Edman Degradation; 1 The Edman Chemistry
1.1 Coupling, Cleavage and Conversion

Sommario/riassunto

Both a thorough introduction and laboratory guide!This book is based on the lectures and demonstrations presented at a successful workshop organized by the authors. Expert contributions and the support of more than a dozen companies engaged in bioanalysis and instrumentation enabled the participants to familiarize themselves with the most recent developments e.g. in protein separation and characterization (including laser desorption-ionisation mass spectrometry), fragmentation and micro sequencing.The workshop was held in the Max Planck Institute for Biochemistry at Martinsried

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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Basics of MRI- Review of physics and physic questions -- Patient Specific Protocols- Review of specific sequences and patient safety questions -- Ischemic Heart Disease- Review of pathology of coronary disease and stress testing -- Non-Ischemic Heart Disease- Review of pathologies of non-ischemic disease -- Pericardial Disease- Review of pericarditis and constrictive physiology -- Valvular disease- Valvular conditions and vegetations -- Masses- Tumors and cardiac masses -- Congenital- Congenital anatomy and corrective surgeries -- MRA- Magnetic resonance angiography and aortic pathologies -- Flow Quantification- Calculating regurgitation and flow.
Sommario/riassunto	This book serves as a board review book for cardiovascular magnetic resonance imaging (CMR). CMR is now an essential part of cardiology training and there is yet to be a dedicated review book for the topic. This book seeks to fill that gap. With 150 questions and answers, this review provides a comprehensive and easily readable educational tool for trainees and cardiologists. The book is divided into 10 chapters, each about 15 questions. The multiple-choice questions cover topics according to the board examinations blueprints, including a wide spectrum of cardiac pathologies and concepts. Answers are supported by concise summaries and explanations to aid understanding. Each question also includes links to the latest resources and literature. This

book helps readers not only prepare for CMR boards, but provides a good review of anatomy and pathology for cardiac imagers.