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METHODS IN
*polyphenol
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Methods In Polyphenol Analysis

Semih Otles



Methods In Polyphenol Analysis:

Methods in Polyphenol Analysis Celestino Santos-Buelga, Gary Williamson, 2003 Polyphenols make a vital contribution to the colour tanning taste and astringency of so many of society's favourites from the unique taste of the British cup of tea to a glass of red wine. Found widely in many foods of plant origin, polyphenols are also becoming increasingly recognised as antioxidants in the body with action on long term health and reduction in the risk of chronic disease. Due to the importance of polyphenols, it is vital to conduct accurate and sensitive analysis. Providing detailed state of the art research presented in a practical and effective way, *Methods in Polyphenol Analysis* looks at the latest techniques in this developing field and includes among others: New modern techniques such as LC-MS, LC-NMR and LC coulometric detection; Chemical and enzymatic synthesis of polyphenol conjugates; and Characterization of oligomeric and polymeric tannins and complex polyphenols. This timely publication is written by highly experienced practitioners in this field and will be invaluable to all academics and industrialists involved in phytochemistry, biochemistry and food science.

Methods of Analysis for Functional Foods and Nutraceuticals W. Jeffrey Hurst, 2008-03-17 In the quest for accurate and efficient analysis of the diverse area encompassed by functional foods and nutraceuticals, analysts encounter unique challenges. Uncertainty over which compound is responsible for a particular health benefit forces analysts to look for marker compounds, sometimes at extremely low levels and sometimes as part of a matrix.

Methods of Analysis of Food Components and Additives Semih Otles, 2005-04-26 With diet and health news making headlines on a regular basis, the ability to separate, identify and analyze the nutrients, additives and toxicological compounds found in food and food components is more important than ever. This requires proper training in the application of the best methods as well as knowledgeable efforts to improve existing methods to meet certain analytical needs. *Methods of Analysis for Food Components and Additives* is a concise guide to both new and established methods for the analysis of food components and additives. The book presents detailed explanations of modern methods of analysis by 32 leading scientists, many of whom personally developed or refined the techniques. They summarize key findings on novel methods of analysis of food components, additives and contaminants, including the identification, speciation and determination of components in raw materials and food products. Each chapter is structured to provide a description of the component or additive that can be analyzed, a simple method explanation of how it works, examples of applications and references for more specific information. This comprehensive volume features all major classes of food components and contaminants along with components of current interest to the nutraceutical and functional foods industries. It is an essential reference for food scientists and chemists as well as food manufacturers and researchers interested in the many methods of food analysis.

Methods of Analysis of Food Components and Additives, Second Edition Semih Otles, 2011-11-16 With diet, health and food safety news making headlines on a regular basis, the ability to separate, identify and analyze the nutrients, additives and toxicological compounds found in food and food components is more important than ever. This requires proper training in the

application of best methods as well as efforts to improve existing methods to meet analytical needs Advances in instrumentation and applied instrumental analysis methods have allowed scientists concerned with food and beverage quality labeling compliance and safety to meet these ever increasing analytical demands This updated edition of Methods of Analysis of Food Components and Additives covers recent advances as well as established methods in a concise guide presenting detailed explanations of techniques for analysis of food components and additives Written by leading scientists many of whom personally developed or refined the techniques this reference focuses primarily on methods of food analysis and novel analysis instruments It provides readers with a survey of modern analytical instruments and methods for the analysis of food components additives and contaminants Each chapter summarizes key findings on novel analysis methods including the identification speciation and determination of components in raw materials and food products The text describes the component or additive that can be analyzed explains how it works and then offers examples of applications This reference covers selection of techniques statistical assessments analysis of drinking water and rapid microbiological techniques It also describes the application of chemical physical microbiological sensorial and instrumental novel analysis to food components and additives including proteins peptides lipids vitamins carotenoids chlorophylls and food allergens as well as genetically modified components pesticide residues pollutants chemical preservatives and radioactive components in foods The Second Edition contains three valuable new chapters on analytical quality assurance the analysis of carbohydrates and natural toxins in foods along with updates in the remaining chapters numerous examples and many new figures

Polyphenols in Plants
Ronald Ross Watson, 2018-08-14 Polyphenols in Plants Isolation Purification and Extract Preparation 2nd edition provides a detailed insight into polyphenols that occur naturally in plants and how they can be affected during growth and development then effectively removed and optimized for various applications in food production Historically plants have been the major sources for drugs and health promotion While there are a small number of nutrients contained the growing focus is on the very diverse complex ring structures polyphenols that are not nutritious In order to study or use them in patient treatment the polyphenols need to be isolated identified and purified for application and study This book brings together experts in the field who share their ongoing examination of isolation and purification of polyphenols as well as determination of their structures and composition Polyphenols in Plants covers a range of new topics including polyphenols in vegetable waste and agricultural byproducts extraction methods and characterization of polyphenols and isolation techniques in the development of new compounds and their use in cancer therapy This book will be useful to plant scientists and dietary supplement producers as well as scientists in the food industry and alternative medicine who are interested in the specific health benefits of various dietary extracts and other polyphenol resources Fully revised and updated to present the latest developments in the field Advances understanding of isolation characterization and identification of critical polyphenols vital to industrial development as therapies Defines conditions of growth affecting polyphenol levels Describes techniques critical to identifying

and defining polyphenols **Handbook of Analysis of Active Compounds in Functional Foods** Leo M.L. Nollet, Fidel Toldra, 2012-01-18 Functional foods offer specific benefits that enhance life and promote longevity and the active compounds responsible for these favorable effects can be analyzed through a range of techniques Handbook of Analysis of Active Compounds in Functional Foods presents a full overview of the analytical tools available for the analysis of active ingredients in these products Nearly 100 experts from all over the world explore an array of methodologies for investigating and evaluating various substances including Amino acids peptides and proteins along with glutamine taurine glutathione carnitine and creatine Water and fat soluble vitamins and probiotics Terpenes including hydrocarbon carotenoids and oxycarotenoids xanthophylls Phenolic compounds such as flavonoids flavan 3 ols proanthocyanidins stilbenes resveratrol anthocyanins isoflavones tannins ellagic acid and chlorogenic acids Fibers and polysaccharides including chitosan insoluble dietary fiber fructans inulin pectin and cyclodextrins Phytoestrogens and hormones with chapters on anise oil and melatonin Tetrapyrroles minerals and trace elements Lipid compounds with discussions of omega 3 and 6 fatty acids conjugated linoleic acids lecithin sterols stanols lipoic acid and alliin Sweeteners salt replacers and taste modifying compounds Each chapter describes the specific compound and its benefits surveys the range of analytic techniques available and provides ample references to facilitate further study The book follows a convenient format with well organized chapters allowing readers to quickly hone in on specific topics of interest This comprehensive reference provides a complete survey of the most cutting edge analytical techniques available for researchers industry professionals and regulators **Analysis of Antioxidant-Rich Phytochemicals** Zhimin Xu, Luke R. Howard, 2012-05-01 To quantify antioxidants in natural sources the application of chromatography techniques with different detectors followed by skillful sample preparation is necessary Analysis of Antioxidant Rich Phytochemicals is the first book that specifically covers and summarizes the details of sample preparation procedures and methods developed to identify and quantify various types of natural antioxidants in foods Focusing on the principle of quantification methods for natural antioxidants the book reviews and summarizes current methods used in the determination of antioxidant rich phytochemicals in different sources Chapter by chapter the distinguished team of authors describes the various methods used for analysis of the different antioxidant rich phytochemicals phenolic acids carotenoids anthocyanins ellagitannins flavonols and flavones catechins and procyanidins flavanones stilbenes phytosterols and tocopherols and tocotrienols Going beyond extensive reviews of the scientific literature the expert contributors call on their accumulated experience in sample extraction and analysis to outline procedures identify potential problems in dealing with different samples and offer trouble shooting tips for the analysis Analysis of Antioxidant Rich Phytochemicals covers the important food applications and health promoting functions of the major antioxidant phytochemicals presents general analysis principles and procedures and systematically reviews and summarizes the various analytical methods necessary for each type of natural antioxidant in different food sources **Fast Liquid Chromatography-mass Spectrometry Methods**

In Food And Environmental Analysis Oscar Nunez,Hector Gallart-ayala,Claudia P B Martins,Paolo Lucci,2015-02-03 There is a growing need for high throughput separations in food and environmental research that are able to cope with the analysis of a large number of compounds in very complex matrices Whereas the most common approach for solving many analytical problems has often been high performance liquid chromatography HPLC the recent use of fast or ultra fast chromatographic methods for environmental and food analysis has increased the overall sample throughput and laboratory efficiency without loss and even with an improvement in the resolution obtained by conventional HPLC systems This book brings together researchers at the top of their field from across the world to discuss and analyze recent advances in fast liquid chromatography mass spectrometry LC MS methods in food and environmental analysis First the most novel approaches to achieve fast and ultra fast methods as well as the use of alternative and complementary stationary phases are described Then recent advances in fast LC MS methods are addressed focusing on novel treatment procedures coupled with LC MS new ionization sources high resolution mass spectrometry and the problematic confirmation and quantification aspects in mass spectrometry Finally relevant LC MS applications in food and environmental analysis such as the analysis of pesticides mycotoxins food packaging contaminants perfluorinated compounds and polyphenolic compounds are described The scope of the book is intentionally broad and is aimed at worldwide analytical laboratories working in food and environmental applications as well as researchers in universities worldwide

Handbook of Analysis and Extraction Methods of Anthocyanins Leo M.L. Nollet,Semih Otles,2025-04-11 Handbook of Analysis and Extraction Methods of Anthocyanins provides a comprehensive guide to learning about the properties of anthocyanins which have gained increasing importance in recent years and have attracted widespread attention from industry academia and government as well as the precise applicable and modern methods of their analysis developed to date The first part of the book introduces the structure biochemical properties health effects and high antioxidant capacity of anthocyanins based on scientific developments in recent years The second part of the book is aimed at the technological use of anthocyanins in industry focusing on the effects of food processing methods on anthocyanins encapsulation the possibilities of using them as colorants in industry and their importance as a functional ingredient as well as a healthy ingredient The third part of the book presents in detail the extraction and purification methods of anthocyanins in different food products as well as sensitive quantitative applicable and newly developed NMR HPLC UHPLC GC MS UHPLC MS and LC MS methods Key Features Minimal Prerequisites No prior functional food experience is needed making the content accessible to a wide audience New and Real World Data Learn with real scientific information on anthocyanins including all biological properties of anthocyanins antioxidant activities and new datasets on health protection functional food development encapsulation and uses of anthocyanins as food colorant Expanded Theoretical and Practical Data on Methods of Analysis of Anthocyanins Includes deeper coverage of theory based approaches of modern methods of analysis of anthocyanins their connection with GC MS LC MS etc based approaches and a presentation

of newly developed and formal aspects of these methods of anthocyanins Ideal for those interested in or looking to deepen their knowledge of functional foods and nutraceuticals this edition provides a clear introduction to the antioxidant structure and health protective properties of anthocyanins and current modern analysis methods **Modern Methods of Plant**

Analysis / Moderne Methoden der Pflanzenanalyse, 2012-12-06 Polyphenols: Properties, Recovery, and Applications

Charis M. Galanakis, 2018-01-11 Polyphenols Properties Recovery and Applications covers polyphenol properties health effects and new trends in recovery procedures and applications Beginning with coverage of the metabolism and health effects of polyphenols the book then addresses recovery analysis processing issues and industrial applications The book not only connects the properties and health effects of polyphenols with recovery processing and encapsulation issues but also explores industrial applications that are affected by these aspects including both current applications and those under development Covers the properties and health effects of polyphenols along with trends in recovery procedures and applications Addresses recovery analysis and processing issues Concludes with coverage of the industrial applications of polyphenols **Recent Advances in Medicinal Chemistry** Atta-ur-Rahman, Muhammad Iqbal Choudhary, George

Perry, 2015-12-01 Recent Advances in Medicinal Chemistry is a book series focused on leading edge research on developments in rational drug design synthetic chemistry bioorganic chemistry high throughput screening combinatorial chemistry drug targets and natural product research and structure activity relationship studies The series presents highly cited contributions first published in the impact factor journal Mini Reviews in Medicinal Chemistry Contributors to this volume have updated their work with new experimental data and references following their initial research Each volume highlights a number of important topics in current research in medicinal chemistry Selected chapters in this volume include A brief review of polyphenols as phytotherapeutic agents Flavonoids in foods and biological samples Cannabinoid use in treating Parkinson s Disease symptoms And much more **Sensors and Microsystems** Corrado Di Natale, Arnaldo

D'Amico, Pietro Siciliano, P. Siciliano, 2000 This book offers a unique view on the research activities industrial and academic carried out in Italy in the fields of chemical and physical sensors biosensors and microsystems It contains about 80 papers on all fields of sensors and microsystems The 5th Italian Conference on Sensors and Microsystems was held in Lecce Italy This location opened the conference to mediterranean countries particularly the Middle East The proceedings have been selected for coverage in Materials Science Citation Index Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences **Recent Advances in Polyphenol Research, Volume 3**

Véronique Cheynier, Pascale Sarni-Manchado, Stéphane Quideau, 2012-05-21 Plant polyphenols are secondary metabolites that constitute one of the most common and widespread groups of natural products They express a large and diverse panel of biological activities including beneficial effects on both plants and humans Many polyphenols from their structurally simplest representatives to their oligo polymeric versions also referred to as vegetable tannins are notably known as phytoestrogens

plant pigments potent antioxidants and protein interacting agents Sponsored by Groupe Polyphenols this publication which is the third volume in this highly regarded Recent Advances in Polyphenol Research series is edited by Veronique Cheynier Pascale Sarni Manchado and Stéphane Quideau the current President of Groupe Polyphenols Like their predecessors they have once again put together an impressive collection of cutting edge chapters written by expert scientists internationally respected in their respective field of polyphenol sciences This Volume 3 provides the latest information and opinion on the following major research topics about polyphenols Organic chemistry and physical chemistry Biosynthesis genetics and metabolic engineering The role of polyphenols in plants and ecosystems Health and nutrition Analysis and metabolomics Chemists biochemists plant scientists pharmacognosists and pharmacologists biologists ecologists food scientists and nutritionists will all find this book an invaluable resource Libraries in all universities and research institutions where these disciplines are studied and taught should have copies on their bookshelves

Analysis in Nutrition Research George Pounis, 2018-10-19 Analysis in Nutrition Research Principles of Statistical Methodology and Interpretation of the Results describes in a comprehensive manner the methodologies of quantitative analysis of data originating specifically from nutrition studies The book summarizes various study designs in nutrition research research hypotheses the proper management of dietary data and analytical methodologies with a specific focus on how to interpret the results of any given study In addition it provides a comprehensive overview of the methodologies used in study design and the management and analysis of collected data paying particular attention to all of the available modern methodologies and techniques Users will find an overview of the recent challenges and debates in the field of nutrition research that will define major research hypotheses for research in the next ten years Nutrition scientists researchers and undergraduate and postgraduate students will benefit from this thorough publication on the topic Provides a comprehensive presentation of the various study designs applied in nutrition research Contains a parallel description of statistical methodologies used for each study design Presents data management methodologies used specifically in nutrition research Describes methodologies using both a theoretical and applied approach Illustrates modern techniques in dietary pattern analysis Summarizes current topics in the field of nutrition research that will define major research hypotheses for research in the next ten years

Innovative Food Analysis Charis M. Galanakis, 2020-11-29 Innovative Food Analysis presents a modern perspective on the development of robust effective and sensitive techniques to ensure safety quality and traceability of foods to meet industry standards Significant enhancements of analytical accuracy precision detection limits and sampling has expanded the practical range of food applications hence this reference offers modern food analysis in view of new trends in analytical techniques and applications to support both the scientific community and industry professionals This reference covers the latest topics across existing and new technologies giving emphasis on food authenticity traceability food fraud food quality food contaminants sensory and nutritional analytics and more Covers the last ten years of applications across existing and new technologies of food analytics Presents an

emphasis on techniques in food authenticity traceability and food fraud Discusses bioavailability testing and product analysis of food allergens and foodomics

Handbook of Plant and Fungal Toxicants J. P. Felix D'Mello, 2020-03-27 First published in 1997 Natural toxicants are the subject of research throughout the world and they are used for many purposes The Handbook of Plant and Fungal Toxicants presents a wide range of compounds and considers how they relate to food safety therapeutic purposes in medicine and uses in breeding plants for enhanced resistance to insects and disease Alkaloids both from plant and fungal sources are emphasized Also covered are a variety of toxicants and phytochemicals including bracken fern poisons polyphenolics gossypol flavones isoflavones pyrimidine glycosides fruit and vegetable allergens linear furanocoumarins photosensitizing agents nitrates oxalates Pinus ponderosa toxicants The text stresses the positive aspects of plant secondary compounds and presents examples of beneficial attributes in the context of environmental protection and human health An international authorship addresses the global diversity and ecological distribution of plant and fungal toxicants This handbook is ideal for senior level college students and post graduate students studying animal science toxicology and pharmaceutical sciences

Practical Instrumental Analysis Sergio Petrozzi, 2012-09-24 This practical book in instrumental analytics conveys an overview of important methods of analysis and enables the reader to realistically learn the principally technology independent working techniques the analytical chemist uses to develop methods and conduct validation What is to be conveyed to the student is the fact that analysts in their capacity as problem solvers perform services for certain groups of customers i e the solution to the problem should in any case be processed in such a way as to be fit for purpose The book presents sixteen experiments in analytical chemistry laboratory courses They consist of the classical curriculum used at universities and universities of applied sciences with chromatographic procedures atom spectrometric methods sensors and special methods e g field flow fractionation flow injection analysis and N determination according to Kjeldahl The carefully chosen combination of theoretical description of the methods of analysis and the detailed instructions given are what characterizes this book The instructions to the experiments are so detailed that the measurements can for the most part be taken without the help of additional literature The book is complemented with tips for effective literature and database research on the topics of organization and the practical workflow of experiments in analytical laboratory on the topic of the use of laboratory logs as well as on writing technical reports and grading them Evaluation Guidelines for Laboratory Experiments A small introduction to Quality Management a brief glance at the history of analytical chemistry as well as a detailed appendix on the topic of safety in analytical laboratories and a short introduction to the new system of grading and marking chemicals using the Globally Harmonized System of Classification and Labelling of Chemicals GHS round off this book This book is therefore an indispensable workbook for students internship assistants and lecturers in the area of chemistry biotechnology food technology and environmental technology in the basic training program of analytics at universities and universities of applied sciences

Mass Spectrometry and Nutrition Research Laurent Bernard Fay, Martin

Kussmann,2010 Mass spectrometry has developed into a platform for the assessment of health sensory quality and safety aspects of food Current nutrition research focuses on unravelling the link between acute or chronic dietary and nutrient intake and the physiological effects at cellular tissue and whole body level The bioavailability and bioefficacy of food constituents and dose effect correlations are key to understanding the impact of food on defined health outcomes To generate this information appropriate analytical tools are required to identify and quantify minute amounts of individual compounds in highly complex matrices such as food or biological fluids and to monitor molecular changes in the body in a highly specific and sensitive manner Mass spectrometry has become the method of choice for such work and now has broad applications throughout all areas of nutrition research This book focuses the contribution of mass spectrometry to the advancement of nutrition research Aimed at students teachers and researchers it provides a link between nutrition and analytical biochemistry It guides nutritionists to the appropriate techniques for their work and introduces analytical biochemists to new fields of application in nutrition and health The first part of the book is dedicated to the assessment of macro and micro nutrient status with a view to making dietary recommendations for the treatment of diet related diseases The second part shows how mass spectrometry has changed nutrition research in fields like energy metabolism body composition protein turnover immune modulation and cardiovascular health Olive Processing Waste Management

Michael Niaounakis,C.P. Halvadakis,2006-02-01 Olive Processing Waste Management contains a comprehensive review of literature and patent survey concerning olive processing waste Over 1 000 citations are presented Wastes considered include olive cultivation solid waste wastes arising from classical three and two phase olive mills and wastes generated during table olive processing In addition information is presented concerning the management of spent olive oil e g from cooking The book is divided into five parts Part I presents background information concerning the characterization of olive processing wastes their environmental impacts if disposed untreated and the effect of utilised olive mill technology on the quantity and quality of generated wastes Part II presents physical thermal physico chemical biological and combined or miscellaneous processes for treating olive mill wastes Part III concerns information on utilization of such wastes with or without prior treatment Part IV concentrates on table olive processing waste and presents information regarding its characterization treatment and uses Part V presents an economical and legislative overview regarding olive mill waste The book contains a bibliography glossary of terms used in the text subject patent and author indices as well as pertinent internet sites and authorities Complete coverage of all available literature and patents concerning olive processing waste including economic and legislative issues Critical review of up to date utilized processes concerning treatment and uses of such waste Determination of research needs for further utilization of such wastes

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closed this week with a big melee that gave us a match

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web may 27 2023 the new world heavyweight champion by geno mrosko may 27 2023 1 38pm edt wwe kicked off today s sat may 27 2023 night of champions premium live event from the jeddah super dome in jeddah saudi arabia with the final of the world heavyweight championship tournament as seth rollins and aj styles came together

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web the current champion is roman reigns who is in his fourth reign he won the title by defeating brock lesnar in a winner

takes all match at wrestlemania 38 night 2 on april 3 2022 subsequently becoming the undisputed wwe universal champion
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web roman reigns is the current champion in his fourth reign he won the title by defeating previous champion brock lesnar in a winner takes all match to unify the wwe championship and universal championship which reigns defended on april 3 2022 at wrestlemania 38 in the dallas fort worth metroplex city of arlington texas

the wwe title featured prominently in the chiefs cageside seats - Aug 14 2021

web feb 13 2023 wwe s been sending versions of the championship which bear the company s name to championship sports teams for years now early on it wasn t always clear what happened to wwe title belts which are customized with the winning team s logo upon delivery

sheamus vows to win the intercontinental championship in 2023 - Nov 16 2021

web jan 1 2023 all of you fine folks gave us star ratings for every pay per view match in 2022 and as my main cat sean rueter wrote about earlier today the sheamus vs gunther banger at clash at the castle back in september was the very best of the year two beefy bigs banging it out over the intercontinental championship can t go wrong there

wwe seating chart guide seatgeek - May 03 2023

web mar 29 2019 over 80 000 people were on hand that night back in 2013 to see john cena defeat the rock for the wwe championship shop wrestlemania tickets money in the bank one of the more unique pay per view events on the wwe calendar is money in the bank which features ladder matches with a briefcase suspended in the air

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web mar 9 2018 ringside according to most fans these are the best seats in the house this is where you can catch the beads of sweat on your face and get caught on camera holding homemade signs while cheering on your favorite wwe superstar sitting ringside is pricey but it s a once in a lifetime treat and you really can t beat the first row

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web wwe championship wwe wwe championship championship holder roman reigns time held 583 days wwe championships universal championship 2016 present wwe championship 1963 present world heavyweight championship 2023 present intercontinental championship 1979 present united states championship 1975

la knight says everybody s sick of roman reigns being a part time wwe - Apr 21 2022

web nov 2 2023 la knight is challenging roman reigns for the wwe universal championship at saturday s nov 4 crown jewel

premium live event in the kingdom of saudi arabia this is by far the biggest match of knight s career he s going in as the clear underdog considering that roman has been the top champion in wwe for over three

wwe seating chart where are the best wwe seats tickpick - Feb 05 2021

web jan 2 2022 the lettered sections shown above are considered ringside seating and are among the best seats in the house for wwe that being said some fans prefer to sit in the surrounding sections behind the ringside ones because it provides them more elevation to see all the action this is where the debate comes in for what the best seat is for wwe

wwe is bringing back the kickoff match for crown jewel - Jan 31 2023

web oct 31 2023 iyo sky c vs bianca belair for the wwe women s title rey mysterio c vs logan paul for the united states championship cody rhodes vs damian priest john cena vs solo sikoa sami zayn vs jd mcdonagh kickoff match not every nxt ple pre show has featured a match during the past year but several have

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web the november 6 2023 episode of wwe raw will take place at the mohegan sun arena at casey plaza in wilkes barre township pennsylvania it has a capacity of around 10 000 seats and is also the

logan paul thinks he will have to be around more in wwe after - Mar 01 2023

web nov 6 2023 logan paul in just his eighth career match in professional wrestling defeated rey mysterio to win the united states championship at the crown jewel premium live event yesterday sat nov 4 2023 in riyadh saudi arabia now that he s a

champion for wwe does that mean he s going to be around a lot more than the part time schedule

former wwe champion claims he introduced a new move at - Nov 28 2022

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wwe stock report john cena is the ultimate company man - May 23 2022

web nov 5 2023 stock down 1 john cena john cena was demolished by solo sika at crown jewel losing their match clean after taking 10 samoan spikes john hyped up this match as a must win because he needed to end his 2000 day streak of never winning a singles match on wwe tv or ppv but cena lost and the streak goes on which leaves

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