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	Titolo	13th Annual Conference on Composites and Advanced Ceramic Materials [[electronic resource]] : a collection of papers presented at the 13th Annual Conference on Composites and Advanced Ceramic Materials...January 15-18, 1989, Cocoa Beach Holiday Inn, Cocoa Beach, FLorida / / Ronald E. Barks, program chair
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Exposures; Super-Tough Silicon Nitride with R-Curve Behavior; Cyclic Fatigue of Silicon Nitrides; Investigation of Environmental Effects of the Mechanical Properties of Si3N4 and Sic Ceramics
A Model for Structural Degradation of Y-TZP Ceramics in Humid Atmosphere High Temperature Tensile Testing of Advanced Ceramics; Formation and Removal of Crack-Interface Bridges in Ferrites; The Business of Technology: Integrating Marketing, R&D, Manufacturing, and Sales (Marketing Perspective); Properties of Pressureless Sintered Alumina Matrix Composites Containing up to 30 Volo/o SIC Whiskers; Processing and Sintering of Sol-Gel Derived Lithium Ahminosilicate Powders; Pressureless Sintering of Al2O3SiC Whisker Composites Stress Relaxation in Sintering of Fiber-Reinforced Composites Through Fiber CoatingEffect of Processing Parameters on the Mechanical Properties of Hot-Pressed Alumina-Sic Whisker Composites; A New Type of Ceramic Matrix Composite Using Si-Ti-C-0 Fiber; Toughening in Metal Particulate-Glass Ceramic Composites; Chemical Stability of Monoclinic and Tetragonal ZrOt Particles in a Cordierite Matrix; Polymer Derived Nicalon/Si-C-0 Composites: Processing and Mechanical Behavior; Stability of a Sapphire/Yttrium Aluminum Garnet Composite System; Furnace For Use in Air Up To 2000°C
Extrusion of Al2O3 Ceramics with Low Organic ContentThe Formation of Reaction Bonded Si3N4 a t Low Temperatures and in Short Times; Nitridation Mechanisms of Silicon Powder Compacts; The Effect of Grain Size on the Toughness of Sintered Si3N4; Dense Silicon Nitride Without Additives: Sintering and High Temperature Behaviors; Joining of Silicon Nitride for Heat Engine Applications; In jected-Molded, Pressureless-Sintered Silicon Carbide: Process and Mechanical Property Improvements; Silicon Carbide and Silicon Nitride Structural Ceramics Derived from a Preceramic Polymer Binder
Preparation, Characterization, and Pyrolysis of Decaborane(14)-Based Polymers: B&C/BN and BN Procedures

Sommario/riassunto

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

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Titolo	Immunodominance [[electronic resource]] : the choice of the immune system / / edited by Jeffrey A. Frelinger
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Descrizione fisica	1 online resource (316 p.)
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Nota di contenuto	Immunodominance; Contents; Preface; List of Contributors; Color Plates; I Mechanics of Antigen Processing; 1 Class I MHC Antigen Processing; 1.1 Introduction; 1.2 Properties of MHC; 1.2.1 Structure of MHC; 1.2.2 Polymorphic Residues Generate Specificity Pockets; 1.3 Properties of Peptides; 1.3.1 Peptides That Bind Are Not Random Sequences; 1.3.2 Peptide-binding Motifs; 1.3.3 Peptide Length Is Limited in Class I MHC Peptides; 1.3.4 Binding Affinity; 1.3.5 Molecular Recognition; 1.3.6 Epitope Prediction; 1.4 Cytosolic Processing; 1.4.1 The Proteasome; 1.4.2 The Immunoproteasome 1.4.3 Opening the Immunoproteasome1.4.4 Peptide Trimming; 1.4.5 Association of the Proteasome with the Endoplasmic Reticulum; 1.5 Peptide Transport; 1.5.1 Transport via TAP; 1.5.2 TAP Selectivity; 1.5.3 TAP-independent Peptide Transport; 1.5.3.1 Endogenous Peptides; 1.5.3.2 Exogenous Peptides; 1.6 Class I MHC Maturation and Peptide Loading; 1.6.1 ER Chaperones: Calnexin, Calreticulin, ERp57, and Tapasin; 1.6.1.1 Calnexin; 1.6.1.2 Tapasin; 1.6.1.3 ERp57; 1.6.1.4 Calreticulin; 1.6.2 Peptide Loading; 1.7 Immunodominance and Class I

MHC Peptide Processing

2 The Mechanics of Class II Processing: Establishment of a Peptide Class II Hierarchy2.1 General Overview; 2.1.1 Immunodominance and Crypticity; 2.1.2 The Impact of T-Cell Repertoire in the Experimental Analysis of Immunodominance; 2.1.3 Different Antigen-presenting Cells Have Different Functions; 2.1.4 The Phases of Antigen Processing; 2.2 Phase I: MHC Class II Biosynthesis and Delivery to Peptide-loading Compartments; 2.2.1 Invariant Chain Isoforms; 2.2.2 Effects of Cell Signaling on MHC Class II Transport; 2.3 Phase II: Antigen Internalization and Processing
2.3.1 BCR-mediated Antigen Internalization2.3.2 Dendritic Cells and Macrophages; 2.4 Phase III: Formation and Expression of Antigenic Peptide by MHC Class II Molecules; 2.4.1 Proteolytic Antigen Processing; 2.4.2 Class II Peptide Loading; 2.4.2.1 DM; 2.4.2.2 DO; 2.4.2.3 DO-, DM-, and BCR-Mediated Antigen Processing; 2.4.2.4 The Distribution of MHC Class II and Other Proteins Within MIIC; 2.4.3 Cell-surface Delivery of Peptide-Class II Complexes; 2.4.3.1 Exosomes; 2.4.3.2 Signaling Properties of Peptide-Class II Complexes; 2.5 Conclusions; Acknowledgments
3 The Phenomenon of Immunodomination: Speculations on the Nature of Immunodominance3.1 Introduction; 3.2 MHC Binding, Cellular Processing, and T-Cell Repertoire are Major Determinants of Immunodominance; 3.3 Previous Systematic Analysis of Immunodominance by Our Group; 3.4 Cellular and Molecular Events in Immunodomination; 3.5 Speculations on the Mechanism of Immunodomination; 3.5.1 Involvement of APCs; 3.5.2 Possible Involvement of the Immune Synapse in Immunodomination; 3.5.3 The Potential Role of MTOC in Immunodomination; 3.6 Significance of Studying Immunodominance for Vaccine Development
3.7 Conclusions

Sommario/riassunto

This very first handbook on the topic summarizes the current concepts and brings together in one volume the critical arguments concerning the mechanisms relevant to immunodominance. In invited chapters written by the leaders in the field, the mechanisms whereby the immune system chooses the parts of a recognized pathogen in order to start the immune response are explained and the variety of biologic processes are identified that contribute to that choice. From the contents:* Mechanics of antigen processing* Proteosome specificity and immuno-proteosomes* Effect of the T cell re