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Altri autori (Persone)	FuhsAllen E KingeryMarshall
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Soggetti	Aeronautical instruments Jet propulsion Electronic books.
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Nota di contenuto	""Cover""; ""Title""; ""Copyright""; ""Contents""; ""Preface""; ""Symposium Committees""; ""I Inlet Internal Flow""; ""Response of Miniature Pressure Transducers to Fluctuations in Supersonic Flow""; ""Research Instrumentation Requirements for Flight/Wind-Tunnel Tests of the YF-12 Propulsion System and Related Flight Experience""; ""Instrumentation for In-Flight Determination of Steady-State and Dynamic Inlet Performance in Supersonic Aircraft""; ""System for Evaluation of F-15 Inlet Dynamic Distortion""; ""Application of Laser Velocimeters for Flow Measurements"" ""Investigation of the Use of Holography in Studying Supersonic Flow in Inlets""""II Compressor Internal Aerodynamics""; ""On the Determination of the Internal Aerodynamics of Compressors""; ""Dynamic Flow Studies by Application of Pressure and Velocity Sensors on Axial Flow Fan Blades""; ""On-the-Shaft Data Systems for Rotating Engine Components""; ""Laser Velocimeter System Development and Testing""; ""Effect of Transducer Diameter on Resolution of Total Pressure Fluctuations in a Turbulent Flow""

""Measurement of Instantaneous Air Angle and Total Temperature Fluctuations behind Transonic Compressor Rotors""""Total Pressure Averaging in Pulsating Flows""; ""Modularized Instrument System for Turbojet Engine Test Facilities""; ""Fiber Optic and Laser Digital Pressure Transducers""; ""III Turbojet, Ramjet, and Composite Combustors""; ""Current State-of-the-Art for Airbreathing Combustor Measurements""; ""Holography of Nozzles, Jets, and Spraying Systems""; ""Measurement Techniques for Supersonic Combustion Testing""; ""Application of Raman Effect to Flowfield Diagnostics"" ""Holography of JP-4 Droplets and Combusting Boron Particles""""IV Turbines""; ""Use of Laser-Powered Optical Proximity Probe in Advanced Turbofan Engine Development""; ""Study of a Flight Monitor for Jet Engine Disk Cracks Using the Critical Length Criterion of Fracture Mechanics""; ""Heat Transfer Measurements in Turbines""; ""Pyrometer for Measurement of Surface Temperature Distribution on a Rotating Turbine Blade""; ""Gas Temperature-Density (GTD) Sensor for Turbine Inlet Gas Temperature Measurement""; ""Advances in Measuring Techniques for Turbine Cooling Test Rigs: Status Report"" ""Instrumenting a Stoichiometric Turbine Development Engine""""V Propulsion Controls""; ""Turbine Blade Pyrometer System in the Control of the Concorde Engine""; ""Experiences in the Design and Application of Turbine Blade Pyrometers""; ""Engine Sensory Requirements for Energy Management""; ""An Ultrasonic Turbine Inlet Gas Temperature Sensor""; ""Automatic Detection and Suppression of Inlet Buzz""; ""VI Engine Condition Monitoring""; ""Engine Condition Monitoring as a Part of the Propulsion Management Concept""; ""Inflight Engine Condition Monitoring System"" ""A Systems Engineering Approach to Effective Engine Condition Monitoring""

2. Record Nr.	UNINA9910346758703321
Autore	Claudio Mauro
Titolo	Metabolism and Immune Tolerance
Pubbl/distr/stampa	Frontiers Media SA, 2019
Descrizione fisica	1 online resource (116 p.)
Collana	Frontiers Research Topics
Soggetti	Medicine and Nursing
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Sommario/riassunto	<p>Historically the study of the immune system and metabolism have been two very separate fields. In recent years, a growing literature has emerged illustrating how the multiple processes of cellular metabolism are intricately linked to several aspects of immune function and development. This Research Topic covers recent progress in the field now known as "Immunometabolism" and the role of metabolism in immune tolerance. Immune tolerance is operationally defined as a state where a host's immune system is balanced such that although self-reactive lymphocytes are present, they are kept in check by immune regulation. Perturbations to this homeostasis may result in self-reactive lymphocytes gaining the upper hand and mediating auto-immune disease. Maintenance of immune tolerance involves a large cast of different cell types including effector T cells, regulatory T cells, B cells, stromal cells, dendritic cells and macrophages. Intracellular pathways and individual enzymes of metabolism have been shown to be harnessed by cells of both the adaptive and innate immune system to allow particular immune functions to be achieved. Examples include metabolic enzymes serving 'moonlighting' functions in mRNA translation, gene splicing, and kinase activation. Other examples include the requirement for de novo fatty acid synthesis for differentiation into Th17 effectors and CD8 memory T cells or products of the TCA cycle promoting pro-inflammatory cytokine production. Likewise, the availability of extracellular metabolic substrates has a</p>

large impact on the maintenance of local immune tolerance. For example, there are different requirements for glucose, glutamine and fatty acids for effector versus regulatory T cell development. Also tolerogenic dendritic cells mediate lowering of extracellular essential amino acids by their enhanced catabolism, promoting the induction of regulatory T cells. The purpose of this Research Topic is to provide an update on the current understanding of the multiple roles for metabolism in regulating the immune system.
