

# EJR European Journal of Rheumatology

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- S111 IS136 / #947 Practical Difficulties in Fitting Some Images into The Icap Classification Tree
- S111 IS137 / #948 Multiple, Mixed, and Composite Patterns
- S111 IS138 / #949 Frequently Asked Questions for Icap

### *ORAL PRESENTATIONS*

#### *PARALLEL SESSION 01: APS - WHAT'S NEW IN ANTIPHOSPHOLIPID SYNDROME?*

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- S112 O001 / #378 Integrating A $\beta$ 2gpi- D1antibodies into The Clinical Practise: An Italian Multi- Center Experience

#### *PARALLEL SESSION 02: COVID-19, POST COVID SYNDROME AND AUTOIMMUNITY*

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- S112 O002 / #1146 Asia as A Result of Suspected Post-Vaccinal Activation of Latent Infections

#### *PARALLEL SESSION 05: PREGNANCY AND AUTOIMMUNITY*

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- S113 O004 / #1082 Selective Suppression of Pathogenic B Lymphocytes from Hashimoto's Thyroiditis Patients by Chimeric Protien Molecules

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S114 0006 / #39 A Machine Learning Tool for The Early Identification of Undiagnosed Psoriatic Arthritis Patients. Is It Possible?

### *PARALLEL SESSION 07: MECHANISMS IN AUTOIMMUNITY PART 1 - SESSION DEDICATED IN MEMORY OF PROF. NOEL ROSE*

18-05-2024 15:45 - 16:45

S114 0007 / #1095 Small Fiber Neuropathy in Multiple Sclerosis Patients

### *PARALLEL SESSION 09: SJÖGREN SYNDROME AND NOVEL THERAPIES IN AUTOIMMUNITY*

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S114 0008 / #681 ANTI-RO52 Antibodies and Disease Severity in Patients with Sjögren's Disease

S115 0009 / #648 Administration of A Novel Immune Checkpoint Molecule Tapbpl Ameliorates Autoimmune Diseases in Mice

### *PARALLEL SESSION 12: AUTOIMMUNITY IN THE CENTRAL NERVOUS SYSTEM*

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### *PARALLEL SESSION 13: RHEUMATOID AND ARTHRITIS MYOSITIS (MUSCLES)*

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S116 0012 / #970 Role of Scleroderma/Myositis- Related Autoantibodies Detected by Immunoblot to The Diagnosis of Systemic Autoimmune Rheumatic Diseases in 410 Patients from A Single Referral Center

### *PARALLEL SESSION 14: THERAPEUTIC CHALLENGES IN AUTOIMMUNITY*

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S117 0013 / #1147 Therapeutic Dilemmas: Three Short Cases Employing Patient-Centered Research - Antiphospholipid Antibodies and Transverse Myelitis, Jc Virus Screening and Rituximab, Necrotizing Myositis

### *PARALLEL SESSION 17: AUTOANTIBODIES (ABS) - PREDICTION, PATHOGENIC AND PREVENTION*

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S117 0014 / #957 Tuftsin-Phosphorylcholine, Based on Helminth Derivative, Decreased IL-8 Expression by Human Endothelial Cells and Temporal Artery Biopsies from Giant Cell Arteritis Patients

S117 0015 / #692 Transcriptomic Profiling Reveals Novel Insights into The Cellular Protective Functions of The DFS70/ LEDGF Nuclear Autoantigen

### *PARALLEL SESSION 18: CYTOKINES AND AUTOIMMUNITY*

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S118 0016 / #894 A Hundredfold Greater Induction of IL-23 From Axial Enthesis Bone Compared to Peripheral Enthesis As An Explanation for IL-23 Blockade Failure In Ankylosing Spondylitis But Not Peripheral Psoriatic Arthritis

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### *PARALLEL SESSION 19: SYSTEMIC AUTOIMMUNITY, LIVER AND GASTROINTESTINAL*

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S119 0018 / #433 Serum Anticardiolipin Antibodies and Endothelin-1 As Markers of Portal Hypertension in Primary Biliary Cholangitis  
S119 0019 / #332 Human Antimicrobial Glycoprotein-2 Expressed In Brunner Glands – A Putative Autoimmune Target of Crohn’s and Coeliac Disease  
S119 0020 / #754 IL-10-Producing Regulatory Cells Impact on Celiac Disease Evolution  
S120 0021 / #964 Unveiling Potential Biomarkers for Inflammatory Bowel Diseases (Ibds) and Colorectal Carcinoma (CRC) Diagnosis Through Saliva Proteomic Profiling

### *PARALLEL SESSION 20: NOVEL AUTOIMMUNE DISEASES*

*20-05-2024 10:30 - 12:00*

- S120 0022 / #263 Autoimmunity and Endometriosis: Potential Relevance of A Novel Immunomodulating Compound

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*20-05-2024 10:30 - 12:00*

- S120 0023 / #487 Chronic Fatigue As A Marker of Mitochondrial Dysfunction, Hypoxic Stress and Vascular Remodelling In Early Systemic Sclerosis  
S121 0024 / #638 Shaping Monocyte Pathogenicity in Systemic Sclerosis: The Convergence of AT1R Autoantibodies and Extracellular Vesicles  
S121 0025 / #699 The Role of CXCL4-L1, The Non- Allelic Variant of CXCL4, In Systemic Sclerosis  
S121 0026 / #746 Antioxidant Enzymes in Systemic Sclerosis  
S122 0027 / #1021 Conventional Type 1 Dendritic Cells are Essential for The Development of Primary Biliary Cholangitis  
S122 0028 / #689 Analysis and Characterization of Plasma Extracellular Vesicles in Patients Affected by Systemic Sclerosis

### *PARALLEL SESSION 22: NOVEL APPROACHES TO HANDLE AUTOIMMUNE DISEASES*

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- S122 0029 / #695 Novel Autoantigen Peptide Epitopes as Theranostic Targets in Incurable Autoimmune Blistering Diseases  
S123 0030 / #308 MTADV 5-MER Peptide Suppresses Lung Fibrosis, RA, IBD and MS Mouse Models and Inhibits Human Fibroblasts Biological Functions by Targeting SAA, Which Fuels Fibrosis  
S123 0031 / #1178 Insights Into Paraneoplastic Neurological Syndromes and Beyond

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*20-05-2024 14:00 - 15:30*

- S123 0032 / #702 Extracellular Vesicles in Patients with Thrombotic Antiphospholipid Syndrome Indicate Ongoing Endothelial and Platelet Activation  
S124 0033 / #265 Taking The Autoimmune Sting Out Of Pd-1 Checkpoint Inhibition to Suppress Cancer Growth  
S124 0034 / #309 Type 2 NKT Cells Directed Immune Regulatory Mechanism in Lupus Nephritis  
S124 0035 / #319 Immune-Checkpoint Inhibition and Autoimmunity: Yin and Yang  
S125 0036 / #643 The Molecular Interplay between The Transcription Factors Ets- 2 And Foxp3 in Effector and Regulatory Cd4+ T-Cells Is Involved in The Development of Multiple Sclerosis (MS)

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S125 0038 / #647 Identification of Novel Antigenic Targets Using Antibody Profiling in Spinal Cord Injury Patients

### *PARALLEL SESSION 27: NUTRITION AND LIFESTYLE IN AUTOIMMUNITY*

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### *PARALLEL SESSION 28: THYROID AND ENDOCRINE SYSTEM*

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S126 0041 / #1042 Antibody-Mediated Response to SARS-COV-2, EBV, HHV-6 Superantigens and Activin-A Underpins Diagnosis of Long COVID and ME/CFS

### *PARALLEL SESSION 29: PATHOGENESIS OF AUTOIMMUNE CONDITION*

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S126 0042 / #687 Anti-Citrullinated Histone Antibody CIT-013, A Dual Action Therapeutic for Neutrophil Extracellular Trap Associated Autoimmune Diseases

S127 0043 / #1076 Assessment of Immune Cell Activation In Pemphigus

ORAL DISCUSSIONS

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S128 OD002 / #562 Nailfold Capillaroscopy and Pulse Wave Doppler: Relevance for the Assessment of Microvascular Damage in Antiphospholipid Syndrome

S128 OD003 / #863 Cardiac Surgery in Antiphospholipid Syndrome: A Bleeding And Thrombotic Equilibrium

S129 OD004 / #1069 The Prothrombotic Phenotype in Antiphospholipid Syndrome as a Crosstalk Between Innate Immunity and Platelets

S129 OD005 / #425 Connecting Antib2glycoprotein I Antibodies, Netosis and Endothelial Cells Activation

S129 OD006 / #1083 Beyond Domain I: Biological and Clinical Significance of Antiphospholipid Syndrome Igg Anti-Beta2gpi Different Domains

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S130 OD008 / #417 Still's Disease and Relapsing Macrophage Activation Syndrome: Any Relevance of COVID19?

S130 OD009 / #532 Development of Rheumatoid Arthritis After SARS-CoV-2 Infection

S131 OD010 / #615 Severe COVID-19 Patients Exhibit Elevated Levels of Autoantibodies Targeting Cardiolipin and Platelet Glycoprotein with Age: A Systems Biology Approach

S131 OD011 / #1022 Transfer of Igg of Long-COVID Patients Induces Symptoms in Mice

S132 OD012 / #1023 Model Building: A Roadmap From COVID-19, Post COVID and Post Vac to Chronic Fatigue Syndrome

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### *ORAL DISCUSSIONS 03: POST COVID SYNDROME AND COVID VACCINES*

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- S132 OD013 / #438 Immune Exhaustion, Fatigue, and Long Covid Syndrome: A Comprehensive Immunological Evaluation  
S132 OD014 / #515 Dysregulated Autoantibodies Targeting Vaso- and Immunoregulatory Receptors in Post COVID Syndrome Correlate with Symptom Severity  
S133 OD015 / #516 Study of Human Microecology by Mass Spectrometry of Microbial Markers in the Blood of Patients with Myalgic Encephalomyelitis/ Chronic Fatigue Syndrome and Post-COVID-19-Condition  
S133 OD016 / #641 The Management of Livedoid Vasculitis Following The COVID-19 Vaccine: Two-Year Follow-Up  
S133 OD017 / #714 Immunogenicity After COVID-19 Infection and Vaccination in Children with Autoimmune Rheumatic Diseases  
S134 OD018 / #738 Impact of COVID-19 and Vaccination Campaign on 1755 Systemic Sclerosis Patients: First Three Years of Pandemic

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- S135 OD019 / #729 Myeloid Cells in Patients with Systemic Lupus Erythematosus Show Pronounced Inflammatory Signals  
S135 OD020 / #478 Sex Differences in Cardiovascular Risk Profile of Rheumatoid Arthritis Patients: Results From A Multicentre Cohort of the "Cardiovascular Obesity and Rheumatic Disease (Cordis)" Study Group  
S135 OD021 / #543 Comparative Analysis of Five Immunonutritional Indexes in Patients with Systemic Lupus Erythematosus: Across Sectional Study  
S136 OD022 / #830 Integration of Multi-Omics Analysis Reveals Metabolic Alterations of B Lymphocytes in Systemic Lupus Erythematosus  
S136 OD023 / #871 Exploring the Link Between TPH (CXCR5- PD-1HI), CTFH (CXCR5+ PD-1+), and DN B Cells (CD27- IGD-) in Systemic Lupus Erythematosus  
S136 OD024 / #235 Quantification of Antiphospholipid Antibodies: The Relevance of a Clinical Based Manufacture Selection

### *ORAL DISCUSSIONS 05: PEARLS IN AUTOIMMUNITY*

*18-05-2024 12:50 - 13:50*

- S137 OD025 / #1033 Autoantibody Profiling in COVID-19 Reveals Altered Protein Responses and Implications for Male Reproductive Tract: Multi- Cohort Study Using Krex I-Ome Arrays  
S137 OD026 / #1044 Anti-Polyethylene Glycol Antibodies in SARS-COV-2 Vaccinated and Unvaccinated Subjects Support Immunogenicity of Peg  
S138 OD027 / #806 Subacute Sclerosing Panencephalitis and Autoimmune Encephalitis: Animal Models and Antibodies  
S138 OD028 / #1041 Extended Inflammation Parameters as Markers of Immune System Cell Activation in Psoriasis  
S138 OD029 / #856 Immunological and Metabolomic Profile in Patients with Systemic Lupus Erythematosus and Rheumatoid Arthritis

### *ORAL DISCUSSIONS 06: SPONDYLOARTHRITIS*

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- S139 OD030 / #460 Systemic Autoinflammatory Manifestations in Patients with Spondyloarthritis  
S139 OD031 / #24 Could the HLA-B27 Allele Be Associated with Gastrointestinal Manifestations in Patients with Spondyloarthritis without Inflammatory Bowel Disease?

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- S139 OD032 / #627 Immunogenicity and Safety of the Booster BNT162B2 Vaccine in Patients with Axial Spondyloarthritis Treated with IL-17 and TNFA Inhibitors  
S140 OD033 / #682 Inverse Relationship of Short Chain Fatty Acids with Secretory Immunoglobulin A Levels and Disease Activity in Patients with Spondyloarthritis  
S140 OD034 / #965 Antibodies to Four Novel Peptides in New Onset Axial Spondyloarthritis  
S140 OD035 / #1111 Spondyloarthropathy and Intestinal Inflammation

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S141 OD037 / #345 Elucidating the FC Receptor and Platelet Activation Factor (PAF)-Driven Inflammatory Consequences of Anti- RBC Antibody Therapy in Autoimmunity  
S141 OD038 / #552 Tissue Residency and Innate-like Features Play Important Roles in CD8 Treg-Mediated Immune Regulation

- S142 OD039 / #555 Boosting Regulatory T Cells to Suppress Autoimmunity in Generalized Vitiligo: A Role for Harmine and Kaempferol  
S142 OD040 / #597 Autoantigenomics: Exploring Patterns in the Repertoire of Autoantibody-Targeted Proteins  
S142 OD041 / #1032 Mortality-Related Health Metrics in Systemic Autoimmune Diseases: An Epidemiological Analysis of a Nationwide Register- Based Cohort

### *ORAL DISCUSSIONS 08: VASCULITIS - UPDATE AND PREGNANCY AND AUTOIMMUNITY*

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- S143 OD042 / #435 Combination of Monoclonal Antibodies Targeting Type 2 Inflammation for Severe Asthma and Eosinophilic Granulomatosis with Polyangiitis  
S144 OD043 / #525 Efficacy and Drug Survival of Biologic Agents in Behçet's Disease: A Real-Life Observational Monocentric Study  
S144 OD044 / #317 Increased Interferon-Induced Genes Expression in Leukocytes of Adult Individuals with IgA Vasculitis  
S145 OD045 / #741 Ocular Manifestations in Juvenile Behçet's Disease: A Registry-Based Analysis  
S145 OD046 / #1072 Identification of Two Autoantigens Recognized by Circulating Autoantibodies as Potential Biomarkers for the Diagnosis of Giant Cell Arteritis

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- S146 OD047 / #397 High Expression of ICOS on Cd4+ T Lymphocytes in Peripheral Blood and Its Potential for Diagnostic Evaluation of Sjögren's Syndrome  
S146 OD048 / #786 Secretagogue Effect of PDE4 Inhibitor Apremilast on Human Salivary Gland Organoids Obtained From Primary Sjögren's Syndrome Patients  
S146 OD049 / #772 My Eyes Are Burning: Insights into the Cause of Dry Eyes in Autoimmune/Inflammatory Syndrome Induced by Adjuvants (ASIA; Shoenfeld's Syndrome)  
S147 OD050 / #810 Safety, Immunogenicity and Effectiveness of Varicella Vaccination in Children with Juvenile Idiopathic Arthritis Treated with Anti-Cytokine Therapy  
S147 OD051 / #986 Comprehensive Analysis of Anti-RO Antibodies and Antiphospholipid Antibodies in Systemic Lupus Erythematosus Patients: Implications for Secondary Sjogren Syndrome and Antiphospholipid Syndrome Coexistence  
S147 OD052 / #566 Unabated Type I Interferon Expedites B-Cell Activation and Anti-Drug Antibody Formation During Anti-TNF Therapy



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S148 OD054 / #668 The Role of Gut Microbiome in Rheumatoid Arthritis: Fecal Microbiota Transplantation as an Example

S148 OD055 / #822 Autoimmune Disease as a Consequence of Microbiome Function Deficiency

S149 OD056 / #1011 Molecular Mimicry Between SARS-COV-2 Spike Protein and Spermatogenesis-Related Proteins: A Possible Cause of Infertility in COVID-19 Patients?

S149 OD057 / #1024 Effect of Human Alpha 1 Antitrypsin Intracellular Toll-Like Receptors in Dendritic Cells

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S150 OD059 / #642 Are Thymus-Resident Plasma Cells Prognostic Factors of Thymectomy in Patients with Anti-Acetylcholine Receptor Myasthenia Gravis?

S150 OD060 / #592 Hock Immunization, an Update of the Experimental Autoimmune Myasthenia Gravis Mouse Model

S150 OD061 / #1036 Comparison Between ELISA And Cell-Based Assay for the Serological Diagnosis of Myasthenia Gravis

S151 OD062 / #817 Calcitonin Gene Related Peptide Beyond Migraine: Exploring Its Serum and Cerebrospinal Fluid Levels in Multiple Sclerosis

S151 OD063 / #371 Subclinical and Clinical Markers in Multiple Sclerosis Patients for Prognosis and Personalized Therapy

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S152 OD065 / #361 Antinuclear Antibodies Profile in 6759 Patients with Psychiatric Disorders

S152 OD066 / #966 Paraneoplastic Ataxia- Ophthalmoplegia Syndrome Associated with Anti-Ri Antibodies: A Case Report

S152 OD067 / #701 The Relevance of Complement Activation in Myasthenia Gravis: A Quantification Study Using the Experimental Passive Transfer Myasthenia Gravis Model

S153 OD068 / #708 FOXP3 Gene Mutation and Decreased Cd4+ Cd25+ Regulatory T Cells in Migraine: A Possible Autoimmune Link to Migraine Pathogenesis

S153 OD069 / #795 Deposition of the Membrane Attack Complex and IgG Subclasses at the Neuromuscular Junction in LRP4-Antibody- Positive Myasthenia Gravis

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S154 OD073 / #1079 Impact of Jak-Stat Inhibitors on T-Cells Subsets in Rheumatoid Arthritis

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S155 OD076 / #579 Interaction Between MCP-1 Chemokine, Oxidative Stress, and Antioxidant Status: Possible Pathogenic Role in Primary Biliary Cholangitis  
S156 OD077 / #958 Dissection of Anti-Inflammatory and Immunomodulatory Activity of Mangifera Indica Extract: From Cd4+ Cd45rbhigh T Cells Transfer Model of Colitis to Inflammatory Bowel Disease Patients  
S156 OD078 / #973 JAK Inhibitors Improve ATP Production and Mitochondrial Function in Rheumatoid Arthritis: A Pilot Study  
S156 OD079 / #1031 Endogenous Retroelement Activation is Implicated in IFN- $\alpha$  Production and Anti-CCP Autoantibody Generation in Early Rheumatoid Arthritis

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S157 OD081 / #777 Prevalence of Autoantibodies in Sarcoidosis Patients: A 5-Year Case Revision on a Clinical Laboratory  
S157 OD082 / #974 Autoantibodies Targeting G Protein-Coupled Receptors in Sjögren's Syndrome  
S158 OD083 / #976 Exploring the Role of Environmental Exposure in the Causality of Chronic Illness and Myalgic Encephalomyelitis/ Chronic Fatigue Syndrome (ME/ CFS)  
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S158 OD086 / #665 Update on the Emerging Application of Fecal Microbiota Transplantation in Autoimmune Diseases  
S159 OD087 / #675 Treatment with Immune Checkpoint Inhibitors and Immune-Related Adverse Events  
S159 OD088 / #740 MRNA Technology for the Development of Car T Cells Targeting Fibrotic Diseases  
S159 OD089 / #916 Anti-RO and Anti-LA Seropositivity Is Associated with Increased Rates of Ischemic Heart Disease in Adults- Results from a Large Population-Based Study

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S160 OD091 / #219 Stratification of Pediatric Patients Suspected of Sjögren's Disease by Integrative Machine Learning  
S161 OD092 / #705 Long-Term Neurodevelopmental Outcome of Children, Born to Mothers with APS  
S161 OD093 / #757 Postnatal Health of Infants Born to Mothers with Autoimmune Diseases when Treated with Hydroxychloroquine

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S162 OD096 / #756 Abnormal Glycosignature of Host Tissue Trigger Pathogenic Recognition Through Gamma Delta T Cells/IL-17a Axis in Autoimmunity  
S162 OD097 / #796 Heterozygous Truncating RC3H1 Mutations Predispose to Systemic Auto-Immunity  
S163 OD098 / #867 Transcriptome Analysis Defines Combinatory Pathway Activity in Keratinocytes Necessary for Split Formation in Pemphigus Vulgaris  
S163 OD099 / #778 Plasma Biomarkers of Neurogenesis Are Increased Among People with HIV After COVID-19

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S164 OD101 / #335 Insights Gained from a Decade of Autoantibody Testing Harmonization: Reflections from the UK Neqas External Quality Assurance Program  
S164 OD102 / #343 High-Throughput Proteomics to Identify Novel Biomarkers in Autoimmune Diseases  
S165 OD103 / #539 Serum Calprotectin Levels Measured by Chemiluminescence Immunoassay as an Inflammation Biomarker in Rheumatoid and Psoriatic Arthritis in Relation to Other Biochemical and Disease Activity Parameters  
S165 OD104 / #659 ChatGPT and Autoimmunity: A New Weapon in the Battlefield of Knowledge  
S165 OD105 / #653 Tattoo: An Environmental Culprit of Triggering Autoimmune Diseases  
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S166 OD108 / #538 Transverse Myelitis and COVID-19 Disease in a Patient with Hashimoto's Thyroiditis  
S167 OD109 / #645 The Type 1 Diabetes-Associated A946t Single Nucleotide Polymorphism in IFIH1 Results in Increased Basal Type I Interferon Signaling  
S167 OD110 / #636 Immune-Modulatory Effect on Th1 and Th2 Chemokines Secretion by Rapamycin, Mycophenolic Acid, or Glucocorticoids in Retro-Orbital Cells of Patients with Graves' Ophthalmopathy  
S167 OD111 / #797 The Incidence of New Not-Thyroid Autoimmune Disorders in Patients with Graves' Disease  
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- S168 OD113 / #29 Molecular Mimicry Studies Involving SARS-COV-2  
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S169 OD118 / #996 ALPHA-1 Antitrypsin for the Control of Autoimmunity

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S170 OD120 / #476 Toll-Like Receptor (TLR) 7 Variants Associate with Disease Activity State in Patients with Juvenile-Onset Systemic Lupus Erythematosus  
S170 OD121 / #629 Genetic Variants of Vitamin D Genes in Systemic Lupus Erythematosus: Relationship of RS2282679 GC SNV with Risk of Hypovitaminosis D, Clinical, and Renal Activity  
S171 OD122 / #449 Molecular Classification and Prognosis of Systemic Lupus Erythematosus-Associated Pulmonary Arterial Hypertension Based on Rare Variants in Path Risk Genes  
S171 OD123 / #1058 Preexisting Autoantibodies as Predictor of Immune Related Adverse Events (Iraes) for Advanced Solid Tumors Treated with Immune Checkpoint Inhibitors

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S172 OD125 / #851 Unsupervised Machine-Learning Identifies Distinct Clusters Based on B Cell Phenotyping and Autoantibody Profiles in Patients with Systemic Lupus Erythematosus  
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