



## PROGRAM

### Pre-Conference Workshop

South American Ballroom

## Salivary Gland Ultrasonography in Sjögren's Syndrome: Theory and Practice

**Wednesday, April 18, 2018**

10:00 AM - 12:30 PM	Registration <b><u>Theory of Salivary Gland Ultrasonography in Sjögren's Syndrome</u></b>	<i>Presidential Ballroom Foyer</i>
12:30 - 12:40 PM	<b>Course Objectives and Organization</b> Malin Jonsson (Bergen, Norway)	
12:40 - 1:00 PM	<b>Ultrasonography in Sjögren's Syndrome: Utility and Objectives</b> Valérie DeVauchelle-Pensec (Brest, France)	
1:00 - 1:30 PM	<b>Technique and Grading of Abnormalities (Different Criteria, Atlas, and Item for Diagnosis and Item for Follow-up)</b> Sandrine Jousse-Joulin (Brest, France)	
1:30 - 1:45 PM	Break	
1:45 - 2:00 PM	<b>Ultrasonography in Other forms of Sialadenitis and Lymphoma (IgG4 RD, Eosinophilic Sialodochitis, Sialadenosis, Lymphoma)</b> Alan Baer (Baltimore, USA)	
2:00 - 2:15 PM	<b>Ultrasound-Guided Core Needle Biopsy in the Differential Diagnosis of Parotid Gland Enlargement and Nodules</b> Joel Fradin (Baltimore, USA)	
2:15 - 2:30 PM	<b>Can Elastography Revolutionize Salivary Gland Ultrasonography in Sjögren' Syndrome?</b> Benedikt Hofauer (Munich, Germany)	
2:30 - 2:40 PM	<b>Salivary Gland Ultrasonography in Juvenile Sjögren's Syndrome</b> Daniel Hammenfors (Bergen, Norway)	
2:40 - 3:00 PM	Refreshment Break	
	<b><u>Practical Aspects of Salivary Gland Ultrasonography: Technique and Scoring</u></b>	<i>Federal Ballroom</i>
3:00 - 3:45 PM	<b>Activity 1 Group A (50 registrants)</b>	<b>Activity 2 Group B (50 registrants)</b>
3:45 - 4:25 PM	<b>Group B Salivary Gland Ultrasonography: Technique</b>	<b>Group A Ultrasound Scoring: Practical Aspects</b>
	Objectives: Obtaining good position of the probe. Identifying the parotid and submandibular gland. Identifying major vessels. Identifying lymph nodes.	Objectives: Grading of abnormalities using the atlas. Identify echogenicity, homogeneity, hyperechoic bands, assessing if the gland represents SS-like changes or not.
	<b>Instructors:</b> Daniel Hammenfors Sandrine Jousse-Joulin Joel Fradin Benedikt Hofauer Alojzija Hocevar	<b>Instructors:</b> Valérie Devauchelle-Pensec Malin Jonsson
	Esther Mossel Konstantina Delli Francesco Ferro Nicoletta Luciano Jolien van Nimwegen	Participants will need to bring a laptop. Study materials will be provided on thumbdrive.
4:30 PM	Adjourn You will receive an email notification to complete the evaluation form and to attest to the number of hours in attendance. The registration desk will remain open during conference hours.	

The Johns Hopkins University School of Medicine responsibility for the content, quality and scientific integrity of this CME activity.  
 The schedule is subject to change.



## PROGRAM

### General Session

**Wednesday, April 18, 2018**

*Presidential Ballroom*

10:00 AM – 6:00 PM Registration

*Presidential Ballroom Foyer*

5:30 PM **Welcome and Introduction**  
Alan Baer, Ilias Alevizos, Esen Akpek

***The Perspective of Those Affected by Sjögren's Syndrome***

5:45 PM Patient Panel

5:55 PM **Burden of Sjögren's Syndrome**  
Steven Taylor (Bethesda, USA)

6:00 PM **Remembrances of Normal Talal, Rolf Manthorpe, and Susumu Sugai**

**Henrik Sjögren: The Man Behind the Syndrome**  
Roland Jonsson (Bergen, Norway)

***Keynote Speaker***

6:20 PM **Precision Medicine in Sjögren's Syndrome and Other Autoimmune Diseases**  
Antony Rosen (Baltimore, USA)

7:15 PM Welcome Reception (Complimentary)

*Congressional and Senate Ballrooms*



## PROGRAM

**Thursday, April 19, 2018**

6:30 AM	Registration and Continental Breakfast	Presidential Ballroom Foyer
7:00 AM	<i>This session is not eligible for AMA PRA Category 1 Credits™.</i> <b>NECESSITY Workshop</b> (invited participants only) Xavier Mariette (Paris, France)	South American Ballroom
<b>Plenary: Definition and Epidemiology of Sjögren's Syndrome</b>		Presidential Ballroom
<b>Moderators: Astrid Rasmussen (Oklahoma City, USA) and Lindsey Criswell (San Francisco, USA)</b>		
8:00 AM	<b>The Future of Classification Criteria in Sjögren's Syndrome</b> Hal Scofield (Oklahoma City, USA)	
8:20 AM	<b>The Sjögren's Phenotype: Lessons Learned from the SICCA Registry</b> Caroline Shiboski (San Francisco, USA)	
8:40 AM	<b>Salivary Gland Histopathology: International Consensus on Biopsy Interpretation</b> Francesca Barone (Birmingham, UK)	
9:00 AM	<b>Definition of Disease Subsets in Sjögren's Syndrome: Is It a Prerequisite for Precision Therapy?</b> Chiara Baldini (Pisa, Italy)	
<b>Keynote Speaker</b>		Presidential Ballroom
9:20 AM	<b>Molecular Approaches to the Definition of Disease Subsets in Sjögren's Syndrome</b> Jacques-Olivier Pers (Brest, France)	
10:00 AM	Coffee Break, Exhibits Poster Session A Viewing* <i>*This session is not eligible for AMA PRA Category 1 Credits™.</i>	Upper Lobby Congressional and Senate Ballrooms



<b>Concurrent Session A:</b> <i>Presidential Ballroom</i>		<b>Concurrent Session B:</b> <i>South American Ballroom</i>	
<b>Novel Insights</b>		<b>Mechanisms of Mucosal Dryness</b>	
<b>Moderators: Umesh Deshmukh (Oklahoma City, USA) and Jay Chiorini (Bethesda, USA)</b>		<b>Moderators: Jim Melvin (Bethesda, USA) and Mary Ann Stepp (Washington, DC, USA)</b>	
10:45 AM	<b>Abstract O-1: Plasmablasts Producing Inhibitory Autoantibodies Against Muscarinic Receptor 3 In Salivary Glands of Sjögren's Syndrome Patients;</b> Quadri/Scotfield, Oklahoma City, USA	10:45 AM	<b>Ocular Surface Inflammation, Conjunctival Goblet Cells and Tear Film Mucin</b> Sharmila Masli (Boston, USA)
11:00 AM	<b>Abstract O-2: Uncharacterized X-linked Protein CXorf21 Provide Molecular Explanation for Sex-Bias in SLE;</b> Harris/Scotfield, Oklahoma City, USA	11:05 AM	<b>Meibomian Gland Dysfunction in Dry Eye</b> David Sullivan (Boston, USA)
11:15 AM	<b>Abstract O-3: Fatigue in Sjögren's Syndrome: A Search for Biomarkers and Treatment Targets;</b> Bodewes/Versnel, Rotterdam, The Netherlands	11:25 AM	<b>Mucin Biology in Sjögren's Syndrome</b> Maria Julieta Gonzalez (Santiago, Chile)
11:30 AM	<b>Abstract O-4: Improvement in Fatigue Following a Multidisciplinary, Biopsychosocial Intervention: Data from 50 Primary Sjögren's Syndrome Patients;</b> Hackett/Newton, Newcastle upon Tyne, UK	11:45 AM	<b>Abstract O-7: MiR-143-3p Targets Calcium-Transporting ATPase Sarcoplasmic Reticulum Isoform 2b (SERCA2b), Ryanodine Receptor 2 (RyR2) and Adenylyl Cyclase 9 (AC9) Contributing to the Loss of Epithelial Cell Homeostasis in Sjögren's Syndrome;</b> Cortes/Alevizos, Bethesda, USA
11:45 AM	<b>Abstract O-5: A Novel Brief Questionnaire to Screen Dry Eye Patients for Sjögren's Syndrome;</b> Bunya/Ying, Philadelphia, USA	12:00 PM	<b>Abstract O-8: Senescence of Salivary Gland Stem Cells in Primary Sjögren's Syndrome: The Cause of Persistent Hyposalivation?</b> Pringle/Kroese, Groningen, The Netherlands
12:00 PM	<b>Abstract O-6: Interleukin-27 Regulates the Magnitude of the Ectopic Germinal Center Response in a Virus-Induced Murine Model of Sialadenitis;</b> Lucchesi/Bombardieri, London, UK		

12:15 PM Buffet Lunch\*  
 Poster Session A Viewing\*\*

*Federal Ballroom  
 Congressional and Senate Ballrooms*

\*Overflow seating for lunch is also available in the Statler Ballroom.  
 \*\* This session is not eligible for AMA PRA Category 1 Credits™.



**Plenary: Biomarker Discovery for Diagnosis and Stratification**

*Presidential Ballroom*

**Moderators: Marie Wahren-Herlenius (Stockholm, Sweden) and Brendan Antiochos (Baltimore, USA)**

- 1:30 PM **Utility of Biomarkers for Disease Stratification**  
 Clio Mavragani (Athens, Greece)
- 1:50 PM **Using Transcriptomics to Stratify Patients**  
 Wan-Fai Ng (Newcastle, UK)
- 2:10 PM **Abstract O-9: The Novel Anti-CD40 Monoclonal Antibody CFZ533 Modulates Biomarkers Relevant to Disease and CD40 Pathways in Patients with Primary Sjögren's Syndrome;** Fisher/Rush, Birmingham, UK
- 2:25 PM **Abstract O-10: Epigenetically Quantified Immune Cells in Salivary Glands of Primary Sjögren's Syndrome: A Novel Tool that Detects Robust Correlations of Tfh cells with Immunopathology;** Van Roon/Radstake, Utrecht, The Netherlands
- 2:40 PM **Abstract O-11: Genetic Basis and Clinical Evidence for Two Variants of Primary Sjögren's Syndrome with Distinct Outcomes;** Thorlacius/Nordmark, Stockholm, Sweden

- 3:00 PM Coffee Break, Exhibits  
 Poster Session A Viewing\*  
*\*This session is not eligible for AMA PRA Category 1 Credits™.*

*Upper Lobby  
 Congressional and Senate Ballrooms*

**Plenary: Oral and Ocular Manifestations of Sjögren's Syndrome**

*Presidential Ballroom*

**Moderators: Kelly Nichols (Birmingham, USA) and Malin Jonsson (Bergen, Norway)**

- 3:40 PM **Management of Salivary Hypofunction/Burning Mouth**  
 Michael Brennan (Charlotte, USA)
- 4:00 PM **Impact of Dry Eye Disease on Quality of Vision**  
 Shizuka Koh (Osaka, Japan)
- 4:20 PM **Extraglandular Ocular Manifestations of Sjögren's Syndrome**  
 Esen Akpek (Baltimore, USA)
- 4:40 PM **Abstract O-12: Primary Sjögren's Syndrome and Non-Sjögren's Sicca Syndrome Patients; Unexpected Differences in Symptoms and Findings of Dry Eye Disease, Dry Mouth, and Oral Health-Related Quality of Life;** Tashbayev/Jensen, Oslo, Norway
- 4:55 PM **Abstract O-13: Impact of Dry Eye on Prolonged Reading;** Karakus/Akpek, Baltimore, USA
- 5:10 PM **Abstract O-14: Ultrasonography of Major Salivary Glands in Juvenile Sjögren's Syndrome: An International Multicenter Study;** Hammenfors/Jonsson, Bergen, Norway
- 5:25 PM **Abstract O-15: Correlation Between Salivary Gland Ultrasonography and Minor Salivary Gland Biopsy in the Identification of a More Severe Subset of Primary Sjögren's Syndrome;** Baldini/Donati, Pisa, Italy

- 5:40 PM Adjournment

## PROGRAM



**Friday, April 20, 2018**

6:30 AM	Continental Breakfast	<i>Federal Ballroom</i>
7:00 AM	<b>HarmonicSS Workshop</b> (open to all registrants)  Athanasios Tzioufas (Athens, Greece) Salvatore DeVita (Udine, Italy) Dimitris Fotiadis and Themis Exarchos (Athens, Greece)	<i>Presidential Ballroom</i>
<b>Plenary: Etiopathogenesis of Sjögren's Syndrome</b>		<i>Presidential Ballroom</i>
<b>Moderators: Gunnel Nordmark (Uppsala, Sweden) and Daniela Cihakova (Baltimore, USA)</b>		
8:30 AM	<b>Use of Genetics to Subset Sjögren's Syndrome</b> Kathy Sivils (Oklahoma City, USA)	
8:50 AM	<b>Systemic NLRP3 Inflammasome Activation</b> Menelaos Manoussakis (Athens, Greece)	
9:10 AM	<b>High Disease Activity vs. Lymphoma in Sjögren's Syndrome: How to Discriminate, Monitor and Treat</b> Salvatore DeVita (Udine, Italy)	
<b>Keynote Speaker</b>		<i>Presidential Ballroom</i>
9:30 AM	<b>Lymphomagenesis in Sjögren's Syndrome</b> Michael Voulgarelis (Athens, Greece)	
10:15 AM	Coffee Break, Exhibits Poster Session B Viewing* <i>*This session is not eligible for AMA PRA Category 1 Credits™.</i>	<i>Upper Lobby Congressional and Senate Ballrooms</i>



<b>Concurrent Session C:</b> <i>Presidential Ballroom</i> <b>Systemic Manifestations, Including Lymphoma</b>	<b>Concurrent Session D:</b> <i>South American Ballroom</i> <b>Glandular Outcome Measures</b>
<p><b>Moderators: Arthur Bookman (Toronto, Canada) and Thomas Mandl (Lund, Sweden)</b></p> <p>11:00 AM      <b>Cardiovascular Disease in Sjögren's Syndrome</b>            Valeria Valim (Vitoria, Brazil)</p> <p>11:20 AM      <b>Abstract O-16: Infections Predispose to Developing Primary Sjögren's Syndrome;</b>            Mofors/Wahren-Herlenius, Stockholm, Sweden</p> <p>11:35 AM      <b>Abstract O-17: Single-Cell VH and VL Ig Gene Analysis Reveal Clonal Relationship Between IgM+ Neoplastic B Cells and Plasmablasts in Sjögren's Syndrome Patients with Parotid MALT Lymphoma;</b>            Corsiero/Bombardieri, London, UK</p> <p>11:50 AM      <b>Abstract O-18: Low miR200b-5p Levels in Minor Salivary Glands: A Novel Independent Predictor of Lymphoma Development in Patients with Sjögren's Syndrome (SS);</b>            Kapsogeorgou/Tzioufas, Athens, Greece</p> <p>12:05 PM      <b>Abstract O-19: Hospitalization Rates Among Patients with Primary Sjögren's Syndrome: A Population-Based Study, 1995-2016;</b>            Cornech/Matteson, Rochester, USA</p>	<p><b>Moderators: Vatinée Bunya (Philadelphia, USA) and Margaret Grisius (Bethesda, USA)</b></p> <p>11:00 AM      <b>Unmet Need for Validated Biomarkers for Dry Eye Trials</b>            Kelly Nichols (Birmingham, USA)</p> <p>11:20 AM      <b>The Salivary Gland and Saliva as Outcome Measures</b>            Arjan Vissink (Groningen, The Netherlands)</p> <p>11:40 AM      <b>Parotid Gland Histopathology as an Outcome Measure</b>            Erlin Haacke (Groningen, The Netherlands)</p> <p>12:00 PM      <b>Abstract O-20: The Parotid Gland in Primary Sjögren's Syndrome: Comparison of Ultrasound, Histopathology and Saliva Production in the Diagnostic Work-up;</b>            Mossel/Bootsma, Groningen, The Netherlands</p>

12:20 PM

Buffet Lunch\*  
 Poster Session B Viewing\*\*

*Federal Ballroom  
 Congressional and Senate Ballrooms*

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**Plenary: Outcome Measures for Clinical Trials in Sjögren's Syndrome**

*Presidential Ballroom*

**Moderators: Alain Saraux (Brest, France) and William St. Clair (Durham, USA)**

- 1:30 PM      **DEBATE: ESSDAI and ESSPRI: Are They the Best Outcome Measures for Clinical Trials? (PRO)**  
Xavier Mariette (Paris, France)
- 1:50 PM      **DEBATE: ESSDAI and ESSPRI: Are They the Best Outcome Measures for Clinical Trials? (CON)**  
Daniel Wallace (Los Angeles, USA)
- 2:10 PM      Rebuttals, Discussion
- 2:30 PM      **FDA Perspective**  
Nikolay Nikolov (Rockville, USA)
- 2:50 PM      **Industry Perspective**  
Roberta Weiss (Rockville, USA)
- 3:10 PM      **Panel Discussion**

- 3:30 PM      Coffee Break, Exhibits  
Poster Session B Viewing\*  
*This session is not eligible for AMA PRA Category 1 Credits™.*

*Upper Lobby  
Congressional and Senate Ballrooms*

**Plenary: Novel Therapeutic Targets**

*Presidential Ballroom*

**Moderators: Donald Bloch (Boston, USA) and Thomas Grader-Beck (Baltimore, USA)**

- 4:15 PM      **Targeting Ectopic Lymphoid Structures**  
Michele Bombardieri (London, UK)
- 4:35 PM      **Targeting Immune Pathways in Dry Eye**  
Stephen Pflugfelder (Houston, USA)
- 4:55 PM      Abstract O-21: **Targeting T-Cell Trafficking in a Murine Model of Sjögren's Syndrome;**  
Campos/Barone, Birmingham, UK
- 5:10 PM      Abstract O-22: **Stromal Cells in Tertiary Lymphoid Structures: A Novel Pathogenic Paradigm  
and Therapeutic Target in Sjögren's Syndrome;** Nayar/Barone, Birmingham, UK

- 5:25 PM      Adjournment

- 6:30 PM      Gala Dinner for Conference (Advance Ticket Purchase)  
The Decatur House



## PROGRAM



**Saturday, April 21, 2018**

7:00 AM Continental Breakfast *Federal Ballroom*

**Plenary: Clinical Trial Design and Emerging Treatments for Sjögren's Syndrome**

*Presidential Ballroom*

**Moderators: Ghaith Noaiseh (Pittsburgh, USA) and Frederick Vivino (Philadelphia, USA)**

- 8:00 AM **Lessons Learned from Rituximab Trials**  
Simon Bowman (Birmingham, UK)
- 8:20 AM **Current Trials: Progress Report**  
Hendrika Bootsma (Groningen, The Netherlands)
- 8:40 AM **Abstract O-23: Patient and Investigator Reported Outcomes Suggest Improvements upon Treatment with the Novel Anti-CD40 Monoclonal Antibody CFZ533 in Patients with Primary Sjögren's Syndrome: A Phase IIa Double-Blind, Placebo-Controlled Randomized Trial;**  
Papas/Gergely, Boston, USA
- 8:55 AM **Abstract O-24: Efficacy and Safety of Low-Dose Interleukin-2 Therapy in Active Sjögren's Syndrome;** He/Li, Beijing, China

**Plenary: Novel Insights-II**

*Presidential Ballroom*

**Moderators: Cuong Nguyen (Gainesville, USA) and Samuel Yiu (Baltimore, USA)**

- 9:10 AM **Abstract O-25: Decreased Levels of the Cysteine Protease Inhibitor, Cystatin C, May Contribute to the Increased Activity of Cathepsin S and an Altered Protein Profile in Tears of Sjögren's Syndrome Patients;** Edman/Hamm-Alvarez, Los Angeles, USA
- 9:25 AM **Abstract O-26: Increased mTORC1 Activity in Salivary Gland B Cells and T Cells from Sjögren's Syndrome Patients: mTOR Inhibition as a Novel Therapeutic Strategy to Inhibit Immunopathology;** Blokland/van Roon, Utrecht, The Netherlands
- 9:40 AM **Abstract O-27: Multiple Functional Roles of an EBV microRNA in Sjögren's Syndrome Pathogenesis: From Alterations of Calcium Signaling to Activation of IFN;** Jang/Alevizos, Bethesda, USA
- 9:55 AM **Abstract O-28: Identifying Outcomes Important to Patients with Sjögren's Syndrome;** Saldanha/Akpek, Baltimore, USA

10:10 AM Coffee Break, Exhibits *Upper Lobby*



**Plenary: International Collaboration in Sjögren's Syndrome and Late-Breaking Abstracts**

*Presidential Ballroom*

**Moderators: Niki Moutsopoulos (Bethesda, USA) and Ilias Alevizos (Bethesda, USA)**

10:40 AM	<b>HarmonicSS</b> Athanasios Tzioufas (Athens, Greece)
11:00 AM	Abstract O-29: <b>Dental Implants in Patients with Primary Sjögren's Syndrome: Preliminary Results From a Prospective Controlled Clinical Study</b> ; Morten/Schiødt, Copenhagen, Denmark
11:15 AM	Abstract O-30: <b>Hydroxychloroquine Treatment Downregulates Systemic Interferon Activation in Primary Sjögren's Syndrome in the JOQUER Randomized Clinical Trial</b> ; Bodewes/Versnel, Rotterdam, The Netherlands
11:30 AM	Abstract O-31: <b>Characterization of Salivary Gland Hypofunction Associated with Immune Checkpoint Inhibitor Therapy</b> ; Warner/Alevizos, Baltimore, USA

11:45 AM **Wrap-Up of Conference: Lessons Learned, Future Directions**

Robert Fox (La Jolla, USA)

12:15 PM **Final Announcements: Site of Next Symposium; Acknowledgements**

Alan Baer, Ilias Alevizos, Esen Akpek

12:30 PM Adjournment

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