

Conference Report

2017 NMO ROUNDTABLE CONFERENCE & 2017 NMO PATIENT DAY







9th Annual International NMO Roundtable Conference

The Power of Rare

The Guthy – Jackson Charitable Foundation's 2017 International Roundtable Conference on NMO, "The Power of Rare", was the foundation's ninth and largest scientific event. Foundation-funded Principal Investigators, 80 International Clinical Consortium members, leading NMO clinicians and researchers from around the world, and members of industry were among those invited to the conference.

The goals of the NMO Roundtable Conference were to:

- 1. Learn about recent scientific and/or clinical advances in NMO research.
- 2. Reconvene the "best of the best" in neurodegenerative disease research for the purpose of continued information sharing and facilitating further strategic partnering for NMO research.
- 3. Align pharmaceutical, clinical and scientific strategies toward potential NMO drug discovery, and/or drug repurposing and/or clinical trials.

GJCF-funded Principal Investigators as well as other international scientists and clinicians presented their scientific findings and clinical progress to attendees with the intent of addressing the current and future status of scientific research, best clinical practices and pharmaceutical pathways. These presentations and panel discussions enhanced international collaboration to help advance the scientific and clinical knowledge of and work toward treatment and a potential cure for NMO.

The NMO Roundtable Conference also featured meetings for the Biorepository Oversight Committee, CIRCLES, Definition and Severity of NMO Relapse (DSNR) Executive Committee, International Clinical Consortium, Industry Council, and a poster session featuring 33 submissions.







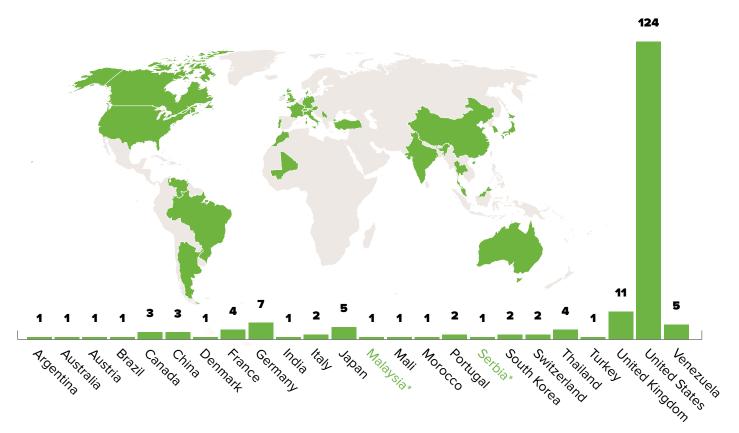
"Many thanks to you and your team for organizing a great meeting. Kindly convey my regards and a big thank you to Victoria Jackson and Bill Guthy for their enthusiasm and continued support to the cause."

Maneesh Bhojak, MRCP, FRCR,
 The Walton Centre





Countries & Attendees

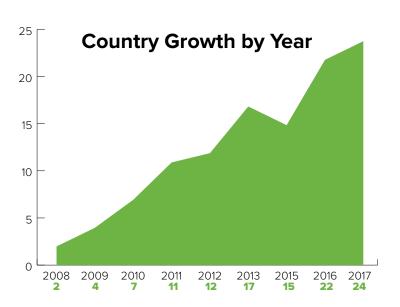


194 Attendees from 24 Countries *Green text indicates first time countries

"What a wonderful conference that you folks setup! Thank you so much for including me and it was great to hear current research topics and get to meet the folks who are really moving the NMO field forward. The Guthy-Jackson Foundation is really pushing things forward in a powerful and meaningful way!"

- William Meador, MD

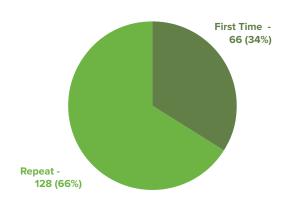
- William Meador, MD, UAB Medicine



Attendee Breakdown

Attendee Type Other - 15 NIH/NIAID - 1 GJCF - 13 CRCs - 17 DCC - 8 Nurses - 6 Advisors - 3 Industry - 23

First Time vs Repeat Attendees

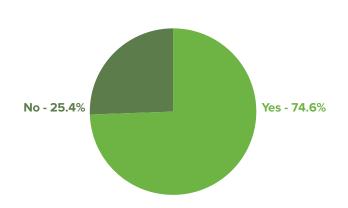




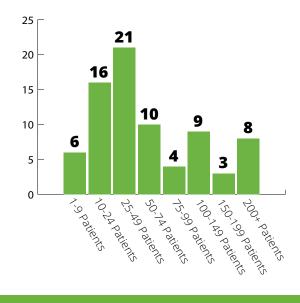




Do you diagnose or treat NMO Patients?



If yes, approximately how many?



66

"I really enjoyed the scientific and humane ambiance at the conference. I think it's a really meaningful event."

- Che Serguera, MD, PhD, INSERM

Organizations in Attendance

Total Organizations 87

Alexion

Brigham and Women's Hospital

Caladrius

Caltech

Catholic University

Cedars-Sinai Medical Center

Centro Hospitalar São João

Centro Medico La Trinidad

Charite University

CHU Lyon

Chugai Pharmaceutical

Cleveland Clinic

Columbia University

Duke University

Genentech Roche

Google Verily

Great Ormond Street Hospital

Griffith University

Harbor UCLA

Harvard University

Hôpitaux de Paris

Huashan Hospital

Immune Tolerance Network

INSERM

J. Craig Venter Institute / Human

Longevity, Inc.

John Radcliffe Hospital

Johns Hopkins University

La Jolla Institute For Allergy and

Immunology

Mahidol University

Marrakech Medical School

Massachusetts General Hospital

Mayo Clinic

Medical University of Vienna

MedImmune

Mount Sinai

National Cancer Center

National Center of Neurology and

Psychiatry

National Pediatric Hospital J. P. Garrahan

Niigata University

Nitte University

NYU Medical Center

Oceana Associates

Orion Bioscience

Oxford

Penang General Hospital

PPD

Prasat Neurological institue

Seoul National University Hospital

Siriraj Hospital

St. Josef Hospital University of Bochum

St. Michael's Hospital

Stanford University

Swedish Medical Center

TerumoBCT

TG Therapeutics

The Walton Centre

Tohoku University

Translational Medicine Partners, Inc.

Universidad Central de Venezuela

Universidade Federal de São Paulo

Universität Düsseldorf

University Hospital Basel

University Hospital Düsseldorf

University of Alabama Birmingham

University of Bari

University of Belgrade

University of British Columbia

University of California, Irvine

University of California, Los Angeles

University of California, San Francisco

University of Colorado Denver

University of Istanbul

University of Miami

University of Michigan

University of Missouri

University of Rochester

University of Southern California

University of Southern Denmark

University of Technical Sciences and

Technologies

University of Utah

University of Texas, Austin

UT Southwestern Medical Center

VECTRIMS

year."

Yale

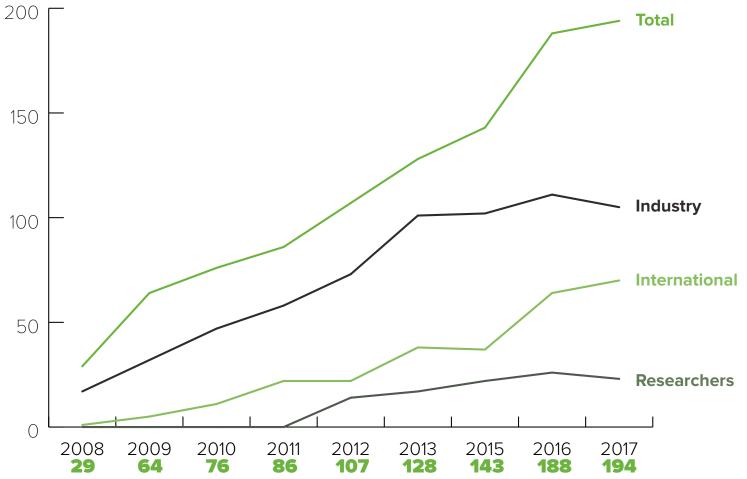
"I want to express my sincere gratitude to the entire **GJCF** team for another great and inspiring RT! As said in previous years, it is definitely the best conference of the

- Friedemann Paul, MD,

Charité University

Eight-Year Meeting Attendance







"This was really an outstanding meeting. It is amazing to see industry, clinical and basic science experts working in such a collaborative forum. For me the most impressive aspect was the very strategic way in which research is being supported and that the work that needs to be done is being done."

- Simon Broadley, MD, PhD, Griffith University

Conference Highlights



Keynote Speaker, J. Craig Venter, Ph.D.

J. Craig Venter, Ph.D., is regarded as one of the leading scientists of the 21st century for his numerous invaluable contributions to genomic research.



Featured Speaker, Maria Spiropulu, Ph.D.

Maria Spiropulu is an experimental physicist at the California Institute of Technology. She is a member of the CMS collaboration at the Large Hadron Collider where the Higgs boson was discovered in 2012.



Conference ePosters

The foundation introduced a new digital platform for poster viewing this year. There were 33 ePosters submitted and available to view throughout the conference. Additionally, 9 posters were selected to be featured in a new "Rising Stars in NMO" session.



Audience Response System

New this year, the foundation introduced sessions that featured a real-time electronic ballot system. Attendees were polled on provocative statements prior to and following invited speaker presentations. A goal of this unique approach was to identify specific hypotheses which if addressed would accelerate steps to curing NMOSD.



Hilton Hotel LAX, Los Angeles / International Ballroom AB March 13-14, 2017

Conference Day 1

Comercine Bay 1					
	7:00	Registration & Breakfast			
Welcome	8:00	NMO & The Power of Rare – Ms. Victoria Jackson, Founder Six Dimensions of Rare – Michael Yeaman			
Keynote	8:30	Human Genomics and the Future of Medicine – J. Craig Venter			
Session I	Revolu	volution: A New Era for NMOSD			
	9:00	Pathogenesis – Jeff Bennett			
	9:25	Diagnosis – Dean Wingerchuk			
	9:50	Epidemiology – Lilyana Amezcua			
	10:15	Treatment – Jackie Palace			
	10:40	Quality of Life – Anu Jacob			
	11:05	Break			
Session II	Rethin	nking Rare to Solve NMOSD			
	11:20 11:35	Pioneering Omics to Decipher NMOSD – <i>Michael Yeaman</i> Genomic Clues in NMOSD Etiology – <i>Ben Greenberg</i>			
	11:55 12:20	NMOSD Biomarkers: Challenge & Opportunity – <i>Dominic Spinella</i> Signatures of B cell Checkpoint Dysfunction in NMOSD – <i>Kevin O'Connor</i>			
	12:40	Lunch			
Session II (cont'd)	Rethinking Rare to Solve NMOSD				
(cont a)	1:30 1:55	NMOSD Through a Lens of Other Autoimmune Diseases – <i>Matthias von Herrath</i> Autoantibodies in Pediatric NMOSD – <i>Yael Hacohen</i>			
	2:15 2:40	Restoring Immune Tolerance in NMOSD – <i>Jerry Nepom</i> Tolerization in Human NMOSD: One Step Closer – <i>Ché Serguera</i>			
	3:00	Break			



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Conference Day 1

Session III Illusion or Innovation in NMOSD? * Real-Time Audience Interaction

> 3:15 **Decoding Etiology**

> > Catalytic Concept:

NMOSD arises from a single heritable factor plus multiple acquired factors. Audience Vote / Lightning Round Speaker: Vanda Lennon / Forum / Audience Vote

3:35 **Specifying Diagnosis**

Catalytic Concept:

AQP4-reactive and MOG-reactive NMOSD are mutually exclusive diseases. Audience Vote / Lightning Round Speaker: Kazuo Fujihara / Forum / Audience Vote

3:55 **Optimizing Efficacy**

Catalytic Concept:

Treatment failures in NMO are due to specific immunologic mechanisms. Audience Vote / Lightning Round Speaker: Takashi Yamamura / Forum / Audience Vote

4:15 **Tolerizing for Cures**

Catalytic Concept:

Tolerization therapies will achieve cures for NMOSD within the next decade. Audience Vote / Lightning Round Speaker: Larry Steinman / Forum / Audience Vote

4:35 **Enhancing Patient QoL**

Catalytic Concept:

Inadequate emotional and quality of life care negatively impact NMOSD. Audience Vote / Lightning Round Speaker: Nancy Sicotte / Forum / Audience Vote

5:00 **Consilience – Michael Yeaman** Summary

Day 1 Adjourn - Ms. Victoria Jackson, Founder

5:30 Dinner

Current GJCF Industry Council Members









Emeritus GJCF Industry Council Members



Hilton Hotel LAX, Los Angeles / International Ballroom AB March 13-14, 2017

Conference Day 2

March 13-14, 2017					
Conference Da	ny 2				
	7:00	Breakfast & Headshots			
	8:00	Group Photo			
Opening	8:30	From Molecules to Miracles – <i>Ms. Victoria Jackson</i> , Founder Solving the Unsolvable – <i>Michael Yeaman</i>			
Feature	9:00	The Power of Rare Discoveries – <i>Maria Spiropulu</i>			
Session IV	Real-Ti	me: Teamwork to Solve NMOSD * Real-Time Audience Interaction			
	9:30	Etiology & Epidemiology Catalytic Concepts: A targetable mechanism is common to NMOSD & all autoimmune diseases. Audience Vote / Lightning Round Speaker: Simon Broadley / Forum / Audience Vote			
	9:45	New diagnostic & relapse criteria will transform NMOSD patient outcomes. Audience Vote / Lightning Round Speaker: Brian Weinshenker / Forum / Audience Vote			
	10:00	Autoantigens & Pathogenesis Catalytic Concepts: NMOSD will be defined by a specific microbial & host antigen signature. Audience Vote / Lightning Round Speaker: Thomas Tedder / Forum / Audience Vote			
	10:15	The upstream cause of NMOSD is a dysfunction in central T cell tolerance. Audience Vote / Lightning Round Speaker: Scott Zamvil / Forum / Audience Vote			
	10:30	Break			
	10:45	Personalized Medicine Catalytic Concepts: Pharmacogenomics are required to optimize therapeutic efficacy in NMOSD. Audience Vote / Lightning Round Speaker: Ho-Jin Kim / Forum / Audience Vote			
	11:00	Machine-learning image pattern recognition will transform NMOSD care. Audience Vote / Lightning Round Speaker: Alexander Brandt / Forum / Audience Vote			
	11:15	Drug Targets & Tolerization Catalytic Concepts: Targeting upstream inflammation can reverse demyelination in NMOSD. Audience Vote / Lightning Round Speaker: Alan Verkman / Forum / Audience Vote			
	11:30	Autologous T reg therapy is a compelling strategy for treating NMOSD. Audience Vote / Lightning Round Speaker: Douglas Losordo / Forum / Audience Vote			

11:45 Open Forum



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Conference Day 2

Session V Sharing the Power of Rare

1:00 NMOSD Patient Experience Survey

Multi-Stakeholder Collaboration - Jacinta Behne

Preliminary Results – Aysha Keisler

1:30 Patient Voices: Hopes & Concerns

Giving Voice to the Power of Rare – NMO Patient Advocates

Patient Poll Results - Ali Guthy

2:00 Industry Council: Toward Approved NMOSD Therapies

2:00 Alexion – Andrew Denker

2:10 Chugai – Athos Gianella-Borradori

2:20 MedImmune – Armando Flor

2:30 Rising Stars in NMOSD Research

Moderator - Terry Blaschke

5-Minute Lightning Round Poster Presentations

Conclusion

3:30 LEAD: Campaign for a Cure – *Michael Yeaman*

3:45 Power of Rare Movement – Ms. Victoria Jackson, Founder

4:00 Mixer



NMO Patient Day

March 15, 2017 8 am - 5 pm Hilton LAX - International Ballroom AB



Photo Gallery





























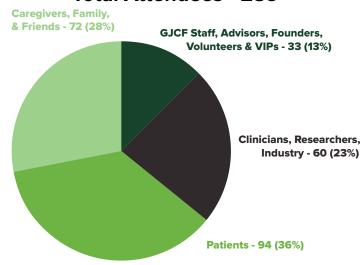


NMO Patient Day 2017

The Power of Rare

The Guthy-Jackson Charitable Foundation's 8th Annual NMO Patient Day was held on March 15, in Los Angeles, CA, with the theme, "The Power of Rare." Founders Victoria Jackson and Ali Guthy opened the conference sharing their perspectives on what living with a rare disease was like nine years ago, and what it means to them now, nearly 10 years later.

Total Attendees - 259



"While NMO is a rare disease," Co-Founder Victoria Jackson said addressing the audience, "in those early years feeling so powerless, nine years later we've been able to find the power in being rare." It was through research over those years she discovered, "what we think is so rare, isn't necessarily so rare."

For Ali Guthy, "The Power Of Rare" means, "building this tremendous community, and the strength we found in each other – working towards building a promising future for NMO."

The conference included a CIRCLES NMO repository blood draw, information about NMO clinical trials, the hallmark "Ask the Docs" session, preliminary results from the foundation's quality of life survey, breakout sessions and sessions led by NMO-Advocate attendees.

Videos of NMO Patient Day are available for free public access on the foundation's website and YouTube channel.











"Thank you so very much for having me there. I met some super people and had an amazing time. I made friends, learned about what to do in an attack and 'being scared and alone' was replaced with 'I got this, I have control.' I know NMO and am no longer afraid."

- Betty L. Friis-Halcomb

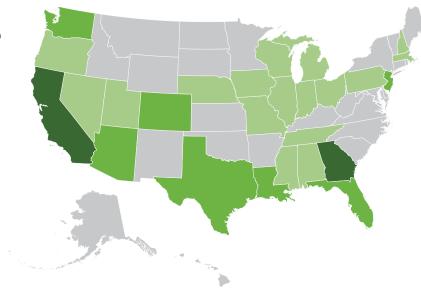


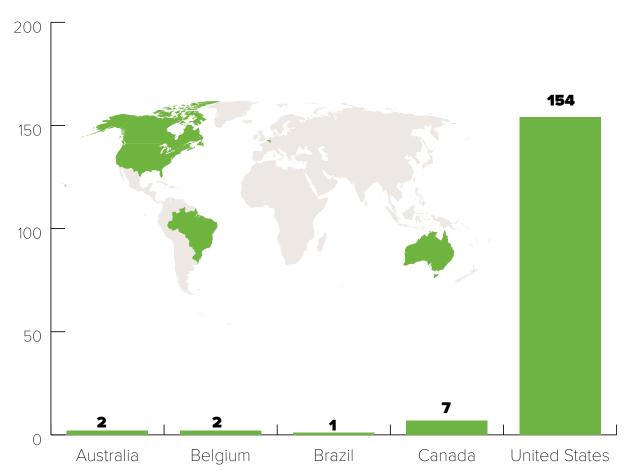
166 Attendees from

27 States

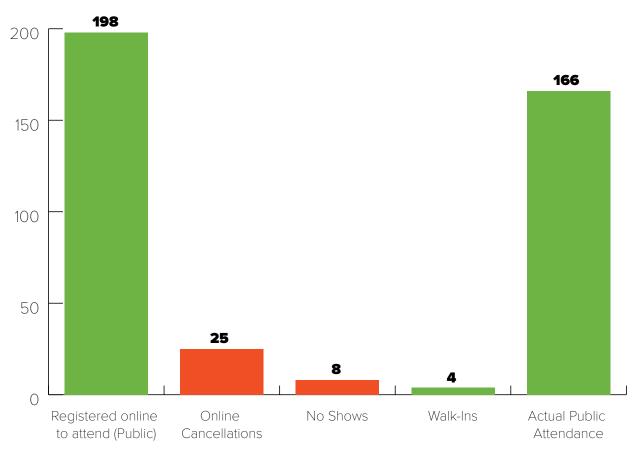
and

5 Countries





Attendee Breakdown

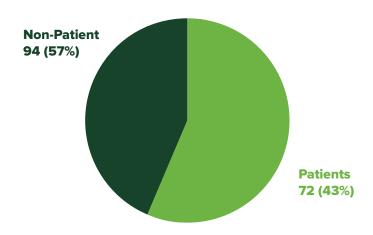








Patient to Non-Patient Ratio





Attendee Breakdown Cont.

Partial - 17
Full - 29

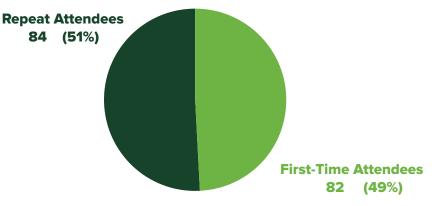








First-Time vs Repeat Attendees

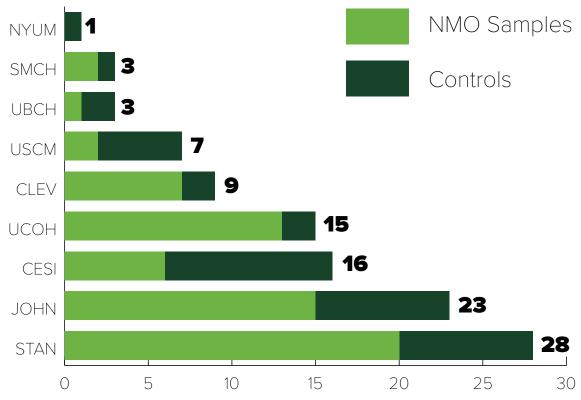


Blood Draw



105 Total Blood Draws

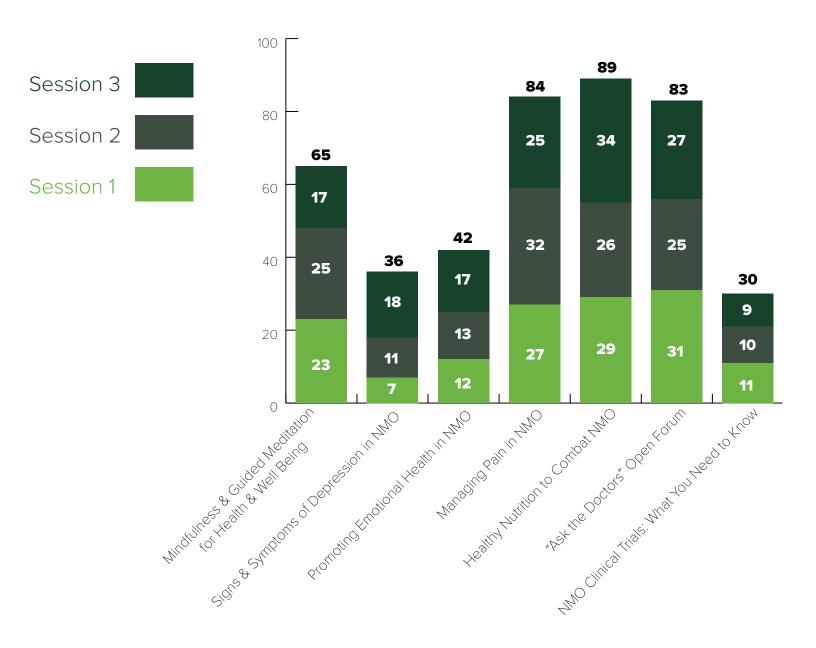
& 58 NMO Samples







Breakout Session Attendance









*Indicates first two sessions only.

Featured Resources



Power of Rare Video Premiere





NMO Message Wall and Thumbprint Tree

Free Literature including Saving Each Other, The Sleep Revolution, and Wake Up to the Joy of You







Media

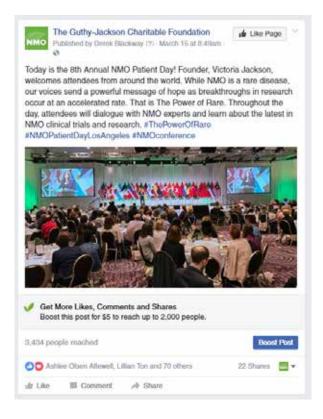
WONDROS Interviews Onsite

10 NMO patient stories captured



Social Media

20K FB reach for 9 posts over a 5-day-period







8th Annual NMO Patient Day

MARCH 15, 2017 LAX HILTON HOTEL I INTERNATIONAL BALLROOM AB

GJCF NMO CIRCLES Biorepository Blood Draw MARCH 14 & 15 - PACIFIC BALLROOM A

7:00 a.m.	Registration Breakfast	International Ballroom A Lobby International Ballroom AB				
8:00	NMO Patient Day Welcome The Power of Rare – Ali Guthy & Victoria Jackson, Founders					
8:15	You are the Cure – Dr. Michael Yeaman					
8:30	Q&A: Ask the Doctors					
	Session 1 Panelists	Drs. Dorlan Kimbrough, Maria Leite, Michael Levy, Anne-Katrin Pröbstel, Nancy Sicotte, Larry Steinman, Dean Wingerchuk				
	Session 2 Panelists	Drs. Jeffrey Bennett, Robert Carruthers, Yang Mao-Draayer, Pavle Repovic, Silvia Tenembaum, Brian Weinshenker, Scott Zamvil				
10:00	Break					
10:20	Q&A with Ali Guthy & Victoria Jackson					
10:35	A Unique Collaboration: NMO Patient Experience Survey Model of Teamwork – Jacinta Behne Preliminary Results – Aysha Keisler, Ipsos					
11:00	Clinical Trials – Progress Toward Approved NMO Therapy Program Updates / Audience Q&A: Alexion, Chugai, MedImmune Drs. Andrew Denker, Athos Gianella-Borradori, Armando Flor					
11:45	CIRCLES: Patients Enabling Breakthroughs Program Expansion – Jacinta Behne Your Biobank at Work – Dr. Michael Yeaman					
12:00 p.m.	Buffet Lunch	International Ballroom AB				



1:30 p.m. Breakout Sessions: The Power of Rare

- 1. Mindfulness & Guided Meditation for Health & Well Being Marina Room Presenter Agapi Stassinopoulos, Author & Speaker
- 2. Signs & Symptoms of Depression in NMO Los Angeles A Presenters Drs. Alexander Brandt, Nancy Sicotte & NMO Advocates
- 3. Achieving Wellness in NMO Los Angeles B Presenter Dr. Ira Lesser
- 4. Managing Pain in NMO Los Angeles C Presenters RNs. Erin Fromm, Sandra Reeve & NMO Advocates
- 5. **Healthy Nutrition to Combat NMO** Carmel Room **Presenters** Dr. Marco Vespignani
- 6. "Ask the Doctors" Open Forum La Jolla Ballroom B
 Panelists Drs. Robert Carruthers, Stacey Clardy, May Han,
 Esther Melamed, Pavle Repovic, Silvia Tenembaum
- 7. NMO Clinical Trials: What You Need to Know La Jolla Ballroom A Presenters Drs. Jeffrey Bennett & Michael Yeaman
- 3:20 Break International Ballroom AB
 3:50 Giving Voice to the Power of Rare Ali Guthy & Advocates
 4:30 Saving & Improving Lives Dr. Michael Yeaman
 4:40 A Power of Rare Movement Victoria Jackson, Founder
- 4:45 Group Photo & Adjourn

Photo Gallery





























