The PINNACLE summit where prominent researchers from across the AMERICAS will share the most recent discoveries in hair disorders research and treatments.
Dear Colleagues,

We are pleased to present the NEW Summit of the recently expanded American Hair Research Society. We welcome both national and international investigators. We are grateful for the immense participation from our colleagues and industry partners. The Summit is packed with clinical and scientific research.

Thank you to those who have contributed thus far. We look forward to additional contributions from the audience microphone during the Q&A components and participation during the networking breaks. Please ask questions, share your experiences, and get to know your fellow hair investigators!

You may have noticed a change in our logo. The North American Hair Research Society has expanded its scope to include North, Central, and South American colleagues interested in hair research. We have changed our name to “American Hair Research Society” to better reflect this expansion.

The newly named “AHRS” is now the hair research society for our Latin American colleagues. We will continue to heavily focus in North America with meetings at the annual AAD and SID. In addition, we will expand our regional meetings to include local meetings in South America at the RADLA (Reunión Anual de Dermatólogos Latinoamericanos) and/or CILAD (Colegio Ibero Latinoamericano de Dermatología). Our website will be redesigned to reflect the expansion. We look forward to growing our Society due to the increased interest in hair research.

The 2018AHRS Summit is the official launch and celebration of our expanded hair research society of the Americas!

On behalf of the 2018 AHRS Planning and Fundraising Committee,

Angela M. Christiano, PhD
Co-Chair & Scientific Lead

Wilma F. Bergfeld, MD
Co-Chair & Fundraising Lead

Maria K. Hordinsky, MD
Co-Chair

Antonella Tosti, MD
Co-Chair

2018 AHRS PLANNING & FUNDRAISING COMMITTEE

Co-Chair & Scientific Lead
Angela Christiano, PhD | Columbia University

Co-Chair & Fundraising Lead
Wilma F. Bergfeld, MD | Cleveland Clinic Foundation

Co-Chair
Maria K. Hordinsky, MD | University of Minnesota

Co-Chair
Antonella Tosti, MD | University of Miami

Committee Members
Daniel Asz-Sigall, MD | Mexico
Valerie Callender, MD | Howard University
George Cotsarelis, MD | University of Pennsylvania
Dirk M. Elston, MD | Medical University of South Carolina
Luis Garza, MD, PhD | Johns Hopkins University
Valerie Horsley, PhD | Yale University
Julian Mackay-Wiggan, MD, MS | Siperstein Dermatology Group
Amy McMichael, MD | Wake Forest Baptist Health
Elise Olsen, MD | Duke University
Michael Rendl, MD | Icahn School of Medicine at Mount Sinai
Ricardo Romiti, MD, PhD | University of São Paulo
Maryanne M. Senna, MD | Massachusetts General Hospital/Harvard
Jerry Shapiro, MD | New York University
John Sundberg, DVM, PhD | Jackson Laboratory
Ken Washenik, MD, PhD | New York University/Bosley
Recognizing the Generous Contributions of Our Sponsors

THANK YOU FOR YOUR SUPPORT

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MD Cosmetica
National Alopecia Areata Foundation
Nutrafol
SmartGraft by Vision Medical, Inc.
**LOCATION**
Rosen Shingle Creek Resort  
9939 Universal Boulevard  
Orlando, Florida 32819, USA  
Phone: 1-866-986-6338  
www.rosenshinglecreek.com

**SESSION ROOMS**
- General Session • Panzacola F-4/3  
- Exhibits & Posters • Panzacola G-1, F-2/1  
- Registration Desk • Panzacola Ballroom foyer  
- Speaker Ready • Panzacola Ballroom foyer

**REGISTRATION DESK HOURS**
- Monday | May 14 • 1:00 pm - 8:00 pm  
- Tuesday | May 15 • 7:30 am - 5:30 pm  
- Wednesday | May 16 • 7:30 am - 12:30 pm

**TARGET AUDIENCE: WHO WILL BENEFIT FROM ATTENDING?**
- Hair Biologists  
- Dermatologists  
- Cosmetic Scientists  
- Hair Transplant Surgeons  
- Physicians with an interest in hair research who are new to the field  
- Industry involved in hair research with products relating to the treatment of hair and scalp disorders, hair loss, hair health, etc.  
- Residents, fellows, medical students with an interest in hair research and/or hair loss

**CME**
The meeting is not sanctioned for CME PRA Category 1 Credits. However, the meeting will comply as much as possible with the policies and best practices of the Accreditation Council for Continuing Medical Education. All individuals in a position to control the content of the activity, including speakers and authors, moderators, and planning committee members, will properly disclose relevant financial relationships with any commercial interests pertinent to their talk or the subject of the meeting. A certificate of attendance suitable for framing will be provided to all delegates.

**EVALUATION SURVEYS**
The Planning Committee kindly requests that you complete the evaluation survey provided in your packet. Your feedback is valuable to us! We make changes to our programs based on your comments. Thank you for your participation.

**WIFI**
Network IID2018  
Password dermatology  
We gratefully acknowledge the IID for use of their network!

**OFFICIAL LANGUAGE**
The official language of the meeting is English. Simultaneous interpretation will not be available.

**WEATHER**
Orlando’s weather in May is warm and humid. The average maximum daytime temperature in the month of May in Orlando is a steamy 31°C, about 88°F, while the average minimum temperature is still a pleasant 18°C, about 65°F. On average, there will be 10 hours of sunshine per day.

**MEETING ATTIRE**
The attire for the educational sessions and social events is business.

**PERSONS WITH DISABILITIES**
The AHRS fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. If any participant in this educational activity is in need of support services, please notify the AHRS headquarters office at 1-630-578-3991 or info@nahrs.org as soon as possible, and preferably before April 1, 2018.

**VIDEO, PHOTOGRAPHY & AUDIO RECORDING POLICY**
Video recording and/or photography are strictly prohibited in all educational sessions. Under no circumstances are video, digital or still cameras to be utilized in the educational sessions. This includes photos and videos taken with cellular phones. Violators will be dismissed from the meeting. The only exception to the photography policy is photos taken by the official photographer. NOTE: We have hired a professional photographer to take a podium headshot and panel shot of every presenter. We will offer the link to download the photos after the meeting. Disclaimer: We will do our best to capture every presenter and panel, there is no guarantee on quality of photo.

**CELLULAR PHONE POLICY**
The use of cellular phones in the sessions is strictly prohibited. Attendees must either turn off or vibrate cellular phones.

**MEETING SECRETARIAT**
(North) American Hair Research Society  
303 West State Street  
Geneva, Illinois, 60134, USA  
Tel: 1-630-578-3991  
Fax: 1-630-262-1520  
info@nahrs.org  
www.americanhairresearchsociety.org

**STAFF**
- Victoria Ceh, MPA  
  Executive Director & Program Manager  
- Kimberly Miller  
  Lead Registrar & Headquarters Manager  
- Melanie Stancampiano  
  Project Manager  
- Julie Uddfolk, CMP  
  Meeting & Exhibits Manager  
- Katie Masini  
  Registrar  
- Sue Reed  
  Registrar  
- Jeffrey Miller  
  Registrar & Technical Support

**NO PHOTOGRAPHY & NO VIDEO RECORDING OF SCIENTIFIC SESSIONS**
Thank you for your cooperation.
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<thead>
<tr>
<th>MONDAY</th>
<th>MAY 14, 2018</th>
<th>TUESDAY</th>
<th>MAY 15, 2018</th>
<th>WEDNESDAY</th>
<th>MAY 16, 2018</th>
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**SESSION 3**  
Cicatricial Alopecias  
8:00-10:15

**SESSION 7**  
Stem Cells, Neogenesis & Regenerative Medicine  
8:00-9:45

**SESSION 8**  
Morphogenesis, Hair Growth, and Hair Cycling  
10:15-11:55

**SESSION 4**  
Alopecia Areata  
10:45-12:15

**SESSION 5**  
Photobiomodulation, Thermal & Light Therapies  
1:30-3:30

**SESSION 6**  
New Therapeutics, Diagnostic Methods, and Novel Ingredients  
4:00-5:45

**SESSION 2**  
Androgenetic Alopecia & PRP  
5:30-6:40

**SESSION 1**  
Androgenetic Alopecia  
4:00-5:00

**LUNCH**  
12:15-1:30

**POSTER SESSION**  
5:45-7:00  
(no Food & Beverage)

**EXHIBIT VIEWING**  
2:00-8:30

**EXHIBIT Dismantle**  
8:00-8:30

**EXHIBIT View**  
7:30-7:30

**REGISTRATION**  
7:30-12:30

**SPEAKER READY**  
7:30-12:30

**Coffee/Networking**  
7:30-8:00

**Coffee/Networking**  
9:45-10:15

**AHRS Annual Business Meeting**  
12:00-1:00

**Opening Ceremony**  
3:00-4:00

**ComE SEE My POSTER**  
7:00-8:30

**Poster Hang**

**POSTER SESSION**  
7:00-8:30

**Networking with Wine & Cheese**  
7:00-8:30

**Coffee/Networking**  
7:30-8:00

**Coffee/Networking**  
10:15-10:45

**Closing Ceremony**  
7:00-8:30

**Coffee/Networking**  
7:30-8:00

**Conference Dinner**  
7:00-8:30

**Program-at-a-Glance**  
www.2018AHRS.org
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>1:00PM-8:00PM</td>
<td>Registration</td>
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<tr>
<td>1:00PM-8:00PM</td>
<td>Speaker Ready Room</td>
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<td>2:00PM-8:30PM</td>
<td>Exhibit Viewing</td>
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<td>2:00PM-2:30PM</td>
<td>Poster Hang</td>
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<td>2:30PM-8:30PM</td>
<td>Poster Viewing</td>
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<tr>
<td>3:00PM-4:00PM</td>
<td>Opening Ceremony</td>
<td>Chairs: Wilma F. Bergfeld, MD, Cleveland Clinic, Cleveland, OH, USA Angela M. Christiano, PhD, Columbia University, New York, NY, USA Maria K. Hordinsky, MD, University of Minnesota, Minneapolis, MN, USA Antonella Tosti, MD, University of Miami, Miami, FL, USA</td>
</tr>
<tr>
<td>3:00-3:15</td>
<td>Welcome and Introduction of AHRS</td>
<td>Maria K. Hordinsky, MD, AHRS President AHRS Summit Co-Chair Wilma F. Bergfeld, MD, AHRS Summit Co-Chair</td>
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<tr>
<td>3:15-3:40</td>
<td>Keynote: Self-organization process in newborn skin organoid formation inspires strategy to restore hair regeneration of adult cells</td>
<td>Cheng-Ming Chuong, MD, University of Southern California, Los Angeles, CA, USA</td>
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<tr>
<td>3:45-3:55</td>
<td>Highlights of the Meeting</td>
<td>Angela M. Christiano, PhD, AHRS Summit Co-Chair</td>
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<tr>
<td>4:00PM-5:00PM</td>
<td>Session 1: Androgenetic Alopecia</td>
<td>Chairs: Jerry Shapiro, MD, New York University School of Medicine, New York, NY, USA Ricardo Romiti, MD, PhD, University of São Paulo, Brazil</td>
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<td>4:00-4:15</td>
<td>Crosstalk between androgen and Wnt/b-catenin signaling in Androgenetic Alopecia</td>
<td>María Eugenia Balañá, PhD, Cesar Milstein Institute of Science and Technology – CONICET, Buenos Aires, Argentina</td>
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<td>4:15-4:25</td>
<td>Breezula™ (cb-03-01) A Novel, Topical Anti-androgen In Phase II Development For The Treatment Of Androgenetic Alopecia (AGA)</td>
<td>Maria K. Hordinsky, MD, University of Minnesota, Minneapolis, MN, USA</td>
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<tr>
<td>4:25-4:37</td>
<td>Hair Management of Transgender and Gender Nonconforming Patients</td>
<td>Anthony Ho, BA, NYU Langone Health, New York City, NY, USA</td>
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<tr>
<td>4:37-4:47</td>
<td>Translational: Hair Follicle Neogenesis</td>
<td>Kevin McElwee, PhD, RepliCel, Vancouver, BC, Canada,</td>
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<td>4:47-4:59</td>
<td>Hair Follicle Stem Cell Stimulation By Naturally Secreted Growth Factors Induces New Hair Growth In Men And Women</td>
<td>Michael P. Zimber, PhD, Histogen, Inc., San Diego, CA, USA</td>
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<td>5:00PM-5:30PM</td>
<td>Networking Break, with Coffee</td>
<td>Sponsored by Bioniz</td>
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<tr>
<td>Time</td>
<td>Session 2: Androgenetic Alopecia and PRP</td>
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<td>5:30PM-6:40PM</td>
<td>Chairs: George Cotsarelis, MD, University of Pennsylvania, Philadelphia, PA, USA Ricardo Romiti, MD, PhD, University of São Paulo, Brazil</td>
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<tr>
<td>07</td>
<td>5:30-5:45 12+3</td>
<td>Clinical: PRP Clinical Trials in AGA&lt;br&gt;Jerry Shapiro, MD, New York University School of Medicine, New York, NY, USA</td>
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<tr>
<td>09</td>
<td>5:45-5:55 10</td>
<td>Comparison Of Platelet Growth Factor Expression With Cancer Cells And Its Potential Implications In Platelet Rich Plasma Therapy&lt;br&gt;Javed Mohammed, PhD, University of Minnesota, Minneapolis, MN, USA</td>
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<td>10</td>
<td>5:55-6:05 10</td>
<td>The Role Of Platelet-rich Plasma In Alopecias As Quantitatively Measured By Optical Coherence Tomography: Prospective Pilot Study At A Single Center&lt;br&gt;Natasha Atanaskova Mesinkovska, MD, PhD, University Of California Irvine, Irvine, CA, USA</td>
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<td>11</td>
<td>6:05-6:15 10</td>
<td>Efficacy Of Platelet Rich Plasma For Androgenetic Alopecia May Be Determined By Growth Factor Concentration&lt;br&gt;Kevin J. McElwee, PhD, Center for Skin Sciences, University of Bradford, Bradford, United Kingdom</td>
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<td>6:25-6:40</td>
<td>15</td>
<td>Panel Discussion: PRP: Hope or Hype? Moderator: George Cotsarelis, MD</td>
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<td>6:40PM-7:00PM</td>
<td>Come See My Poster – Fifteen 1-minute presentations</td>
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<td>6:40-6:45</td>
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<td>Introduction&lt;br&gt;Angela Christiano, PhD</td>
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<td>12</td>
<td>6:45-6:46 1</td>
<td>Genetic Biosignatures Driving Cranio-facial Hair Follicle Patterning And Androgenetic Alopecia&lt;br&gt;Yanne Doucet, PhD, Columbia University, New York, NY, USA</td>
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<tr>
<td>13</td>
<td>6:46-6:47 1</td>
<td>Markers Of Ageing In The Hair Follicle Environment- A Glimpse Into The Human Scalp&lt;br&gt;Rachael Sutherland-Sedman, The University of Bradford, Bradford, United Kingdom</td>
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<td>14</td>
<td>6:47-6:48 1</td>
<td>Successful Regrowth Of Hair In Alopecia Areata Using Platelet-rich Plasma As Quantitatively Measured By Optical Coherence Tomography&lt;br&gt;Margit LW Juhasz, MD, University of California Irvine, Irvine, CA, USA</td>
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<td>15</td>
<td>6:48-6:49 1</td>
<td>Histopathological Findings Of Persistent Inflammatory Scalp, A Prelude To Primary Cicatricial Alopecia?&lt;br&gt;Jorge Larrondo, MD, MSc, Clinica Alemana, Santiago, Chile</td>
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<td>16</td>
<td>6:49-6:50 1</td>
<td>Fibrosing Alopecia In A Pattern Distribution (fapd) In 16 African Descent And Hispanic Female Patients: A Challenge Diagnosis&lt;br&gt;Maria Fernanda Gavazzoni-Dias, MD, MsC, PhD, Universidade Federal Fluminense, Niterói, Brazil</td>
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<td>17</td>
<td>6:50-6:51 1</td>
<td>Vitamin D Status In Scarring And Non-scarring Alopecia&lt;br&gt;Ruzica Z. Conic, MD, Case Western Reserve University, Cleveland, OH, USA</td>
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<td>18</td>
<td>6:51-6:52 1</td>
<td>Association Of Frontal Fibrosing Alopecia And Lichen Simplex Chronicus: Trichoscopy And Histopathological Features&lt;br&gt;Carolina O. Costa Fechine, MD, Universidade de São Paulo, São Paulo, Brazil</td>
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</table>
19  6:52-6:53  1  The Use Of Platelet Rich Plasma To Treat Radiation-induced Scarring Alopecia: A Case Report
Chloe N. Ekelem, MD, MPH, University of California, Irvine, Irvine, CA, USA

20  6:53-6:54  1  Effectiveness Of Laser Technology For Non-scarring And Scarring Alopecia
Laura Uwakwe, MD, Wake Forest Baptist Medical Center, Winston-Salem, NC, USA

21  6:54-6:55  1  Multiphoton Microscopy For Diagnostic Indices In Alopecia Areata
Jessica Lin, BSc, University of California, Irvine, Irvine, CA, USA

22  6:55-6:56  1  Optical Coherent Tomography In The Diagnosis Of Scalp Disorders
Maria Abril Martinez Velasco, MD, Universidad Nacional Autonoma de Mexico, Mexico City, Mexico

23  6:56-6:57  1  Anagen Hair Follicle Repair: A Regenerative Scheme Utilizing Ectopic Stem Cells To Resume Anagen After Follicular Injury
Sung-Jan Lin, MD, PhD, National Taiwan University, Taipei, Taiwan

24  6:57-6:58  1  A Method To Produce A Hair Follicle Like Organoid Using Matrix Cells
Khalid Bakkar, L’Oréal, Aulnay Sous Bois, France

7:00PM-8:30PM  Poster Session with Networking and Wine & Cheese
Official AHRS Summit name badge required for entry.
<table>
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<tr>
<th>Time</th>
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<tr>
<td>7:00AM-5:30PM</td>
<td>Speaker Ready Room</td>
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<td>7:30AM-7:00PM</td>
<td>Poster Viewing</td>
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<td>7:30AM-8:00AM</td>
<td>Coffee and Visit Exhibits &amp; Posters</td>
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<td>Sponsored by Lilly</td>
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<tr>
<td>8:00AM-10:15AM</td>
<td><strong>Session 3: Cicatricial and Permanent Alopecias</strong></td>
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<td>Chairs:</td>
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<td>Maryanne M. Senna, MD, Massachusetts General Hospital, Boston, MA, USA</td>
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<td>John P. Sundberg, DVM, PhD, The Jackson Laboratory, Bar Harbor, ME, USA</td>
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<td>25</td>
<td>8:00-8:15 12+3 <strong>Sebaceous Gland Transcriptome for Lichen Planopilaris</strong></td>
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<td>Raja Sivamani, MD, MS, University of California-Davis, Davis, CA, USA</td>
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<td>26</td>
<td>8:15-8:30 12+3 <strong>Animal Models of Scarring Alopecias</strong></td>
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<td>John P. Sundberg, DVM, PhD, The Jackson Laboratory, Bar Harbor, ME, USA</td>
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<td>27</td>
<td>8:30-8:45 12+3 <strong>Hair follicle epithelial stem cells undergo EMT in LPP, which can be antagonized by PPARg agonists</strong></td>
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<td>Marta Bertolini, PhD, Monasterium Laboratory, Skin and Hair Research Solutions GmbH, Münster, Germany</td>
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<td>28</td>
<td>8:45-8:57 10+2 <strong>Histopathology Of Facial Papules In Frontal Fibrosing Alopecia And Therapeutic Response To Oral Isotretinoin</strong></td>
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<td>Rodrigo Pirmez, MD, Santa Casa da Misericórdia of Rio de Janeiro, Rio de Janeiro, Brazil</td>
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<td>29</td>
<td>9:00-9:15 12+3 <strong>New Techniques: Methods of Assessment of Cicatricial Alopecia</strong></td>
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<td>Elise A. Olsen, MD, Duke University Medical Center, Durham, NC, USA</td>
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<tr>
<td>30</td>
<td>9:15-9:30 12+3 <strong>Central Centrifugal Cicatricial Alopecia Clinical Presentation and Treatment Approaches</strong></td>
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<td>Amy McMichael, MD, Wake Forest School of Medicine, Winston-Salem, NC, USA</td>
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<td>31</td>
<td>9:30-9:45 12+3 <strong>Prevalence of Centrifugal Cicatricial Alopecia in a Cohort of African American Women: Analysis of CCCA in the Black Women’s Health Study</strong></td>
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<td>Yolanda M. Lenz, MD, MPH, Lenzy Dermatology &amp; Hair Loss Center, Chicopee, MA, USA</td>
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<td>32</td>
<td>9:45-9:57 10+2 <strong>Tofacitinib Shows Efficacy In Treatment Of Lichen Planopilaris</strong></td>
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<td>Brigitte N. Sallee, MD, Columbia University, New York, NY, USA</td>
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<tr>
<td>10:15AM-10:45AM</td>
<td><strong>Discussion on Managing Difficult Cases of Scarring Alopecia</strong></td>
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<td>Maryanne M. Senna, MD, and Wilma F. Bergfeld, MD</td>
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Sponsored by Aclaris
10:45AM-12:15PM  
Session 4: Alopecia Areata

Chairs:
Elise A. Olsen, MD, Duke University Medical Center, Durham, NC, USA
Julian Mackay-Wiggan, MD, MS, Siperstein Dermatology Group, New York, NY, USA

33 10:45-11:00  12+3  
**Basic/Preclinical: Genetics, Immunology, Therapeutic Targets**
Angela M. Christiano, PhD, Columbia University, New York City, NY, USA

34 11:00-11:15  12+3  
**Clinical: Experience with JAK Inhibitors**
Wilma F. Bergfeld, MD, Cleveland Clinic, Cleveland, OH, USA

35 11:15-11:25  8+2  
**Preclinical to Clinical Translation of JAK Kinase Inhibitors**
Paul Changelian, PhD, Aclaris Therapeutics, Inc., Confluence Discovery Technologies, Wayne, PA, USA

36 11:25-11:35  8+2  
**Janus Kinase Inhibitor CTP-543: Emerging Treatment Option for Alopecia Areata**
James Cassella, PhD, Concert Pharmaceuticals, Lexington, MA, USA

37 11:35-11:45  8+2  
**Development of JAK Inhibitors for Alopecia Areata**
Samuel H. Zwillich, MD, Pfizer Inc, Groton, CT, USA

38 12:00-12:10  8+2  
**Role Of The Autophagy Protein, Syntaxin 17, In Melanogenesis And Alopecia Areata**
Stephanie O. Erjavec, BS, Columbia University, New York, NY, USA

12:15PM-1:30PM  
Lunch

Join your colleagues for a beautiful sit-down lunch in the Posters & Exhibits room. Official AHRS Summit name badge required for entry.

1:30PM-3:30PM  
Session 5: Photobiomodulation, Thermal and Light Therapies

Chairs:
Maria K. Hordinsky, MD, University of Minnesota, Minneapolis, MN, USA
Neil Sadick, MD, Sadick Dermatology, New York, NY, USA

40 1:30-1:45  12+3  
**Photobiomodulation for Treatment of Hair Loss: Mechanisms, Wavelengths, and Future Directions**
Yakir S. Levin, MD, PhD, Massachusetts General Hospital, Boston, MA, USA

41 1:45-2:00  12+3  
**Light Devices with Narrowband UVB**
Maryanne M. Senna, MD, Massachusetts General Hospital, Boston, MA, USA

42 2:00-2:15  12+3  
**Photobiomodulation: An Update On Novel Clinical Data For The Management Of Alopecia**
Ronda Farah, MD, University of Minnesota Medical School, Minneapolis, MN, USA

43 2:15-2:30  12+3  
**Lasercomb On Hair Regrowth In The C3H/HeJ Mouse Model Of Alopecia Areata And Rat Model Of Chemotherapy-induced Alopecia**
Jessica Cervantes, University of Miami Miller School of Medicine, Miami, FL, USA

44 2:30-2:42  10+2  
**A Clinical Comparison Of FDA-cleared Photobiomodulation Devices For The Treatment Of Alopecia**
Angela Wipf, BS, University of Minnesota, Department of Dermatology, Minneapolis, MN, USA
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| 2:44-2:57 | 45  Fractional Photothermolysis And Induction Of Hair Follicle Growth: A Systematic Review And Single Academic Center Experience  
Natasha Atanaskova Mesinkovska, MD, PhD, University Of California Irvine, Irvine, CA, USA |
| 3:00-3:15 | 46  Combination Therapies For Hair Loss Using Energy Based Devices  
Neil Sadick, MD, Sadick Dermatology, New York, NY, USA |
| 3:15-3:30 | 47  Chemotherapy-induced Alopecia: Prevention and Permanence  
Mario E. Lacouture, MD, Memorial Sloan Kettering Cancer Center, New York, NY, USA |

3:30PM-4:00PM  
Networking Break, with Coffee  
Sponsored by Samumed

4:00PM-5:45PM  
Session 6: New Therapeutics, Diagnostic Methods, and Novel Ingredients  
Chairs:  
Valerie Callender, MD, Howard University College of Medicine, Washington, DC, USA  
Amy McMichael, MD, Wake Forest School of Medicine, Winston-Salem, NC, USA

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| 4:00-4:10 | 48  Dermoscopy for scarring alopecias  
Isabella Doche, MD, PhD, University of São Paulo, São Paulo, Brazil |
| 4:10-4:20 | 49  Dermoscopy for non-scarring alopecias  
Rodrigo Pirmez, MD, Santa Casa da Misericórdia of Rio de Janeiro, Rio de Janeiro, Brazil |
| 4:20-4:30 | 50  Hair Cosmetics/Ingredients  
Maria Fernanda Gavazzoni-Dias, MD, MsC, PhD, Universidade Federal Fluminense, Niterói, Brazil |
| 4:30-4:40 | 51  New Animal Models of Androgenetic Alopecia  
Jeff Wu, PhD, Johnson & Johnson, New Brunswick, NJ, USA |
| 4:40-4:52 | 52  Mechanisms For KATp Channel In Cultured Human Dermal Papilla Cells Associated With Minoxidil-induced Hair Growth  
Hiroya Takada, PhD, Nippon Medical School Graduate School of Medicine, Tokyo, Japan |
| 4:55-5:10 | 53  Hair Health – Lipid Pathways and Hair Biology  
Apostolos Pappas, PhD, Nestle Skin Health, Lausanne, Switzerland |
| 5:10-5:22 | 54  Transplantation Of Cell Enriched Adipose Tissue For Follicular Niche Stimulation In Early Androgenetic Alopecia  
Gorana Kuka Epstein, MD, Foundation for Hair Restoration, Miami, FL, USA |
| 5:25-5:45 | 55  Hair Follicle Microbiome  
Heidi H. Kong, MD, MHSc, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Cancer Institute, Dermatology Branch, Bethesda, MD, USA |

5:45PM-7:00PM  
Poster Session and Networking

7:00PM-7:30PM  
Poster Dismantle

7:00PM-8:30PM  
Exhibits Dismantle
7:30AM-12:30PM Registration
7:30AM-12:30PM Speaker Ready Room
7:30AM-8:00AM Coffee
8:00AM-9:45AM Session 7: Stem Cells, Hair Follicle Neogenesis & Regenerative Medicine
Chairs:
Maksim Plikus, PhD, University of California-Irvine, Irvine, CA, USA
Valerie Horlsley, PhD, Yale University, New Haven, CT, USA

56 8:00-8:15  12+3 Hair Follicle Stem Cells
George Cotsarelis, MD, University of Pennsylvania, Philadelphia, PA, USA

57 8:15-8:30  12+3 Regulation of Dermal Papillae
Michael Rendl, MD, PhD, Icahn School of Medicine at Mount Sinai, New York, NY, USA

58 8:30-8:45  12+3 Hair Germ Stem Cell Kinetics
Panteleimon Rompolas, MBA, PhD, University of Pennsylvania, Philadelphia, PA, USA

59 8:45-9:00  12+3 Noncoding Double-stranded RNA And Hair Regeneration
Luis A. Garza, MD, PhD, Johns Hopkins University School of Medicine, Baltimore, MD, USA

60 9:00-9:15  12+3 SHH Signaling In Wound Induced Hair Follicle Neogenesis
Mayumi Ito, PhD, NYU School of Medicine, New York, NY, USA

61 9:15-9:30  12+3 Dissecting The Hair Follicle Dermal Progenitor Lineage Towards Understanding Their Role In Hair Growth And Hair Loss
Jeff Biernaskie, PhD, University of Calgary, Calgary, AB, Canada

62 9:30-9:42  10+2 Skin Equivalent Formation With Hair Follicular Structure
Seung Hwan Paik, MD, Department of Dermatology, Seoul National University College of Medicine and Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea

9:45AM-10:15AM Networking Break, with Coffee
10:15AM-11:55AM Session 8: Morphogenesis, Hair Growth and Hair Cycling
Chairs:
Luis A. Garza, MD, PhD, Johns Hopkins University School of Medicine, Baltimore, MD, USA
Michael Rendl, MD, PhD, Icahn School of Medicine at Mount Sinai, New York, NY, USA

63 10:15-10:30  12+3 Hair Patterning and telogen kinetics
Maksim Plikus, PhD, University of California-Irvine, Irvine, CA, USA

64 10:30-10:45  12+3 Metabolic Regulation of Hair Follicle Growth
William Lowry, PhD, UCLA, Los Angeles, CA, USA

65 10:45-10:57  10+2 IL-1 Mediated Activation Of γδT Cells Promotes Tissue Regeneration In A Cutaneous Wound
Rupali Gund, PhD, IFOM-inStem Joint Research Laboratory, Institute for Stem Cell Biology & Regenerative Medicine, Bangalore, India

66 11:00-11:15  12+3 Adipocytes and Hair Cycling
Valerie Horlsley, PhD, Yale University, New Haven, CT, USA
67 11:15-11:27 10+2 Oncostatin M Produced By TREM2+ Macrophages Maintains Quiescence Of Hair Follicle Stem Cells Via JAK-STAT5 Signaling
Etienne Wang, MBBS, PhD, Columbia University Medical Centre, New York, NY, USA

68 11:30-11:47 15+2 Wnt Signaling, Hair Cycling, And Wnt As A Therapeutic Target For Androgenetic Alopecia
Sarah E. Millar, PhD, University of Pennsylvania, Philadelphia, PA, USA

69 11:47-11:55 6+2 Translational Development of a Wnt Pathway Modulator (SM04554) as a Potential Treatment for Androgenetic Alopecia
John T. Seykora, MD, PhD, University of Pennsylvania, Philadelphia, PA, USA

11:55AM-12:00PM Closing Remarks
Angela Christiano, PhD, AHRS Summit Co-Chair

12:00PM-12:30PM AHRS Annual Business Meeting
Maria K. Hordinsky, MD, AHRS President
Antonella Tosti, MD, AHRS Secretary-Treasurer
Wilma F. Bergfeld, MD, AHRS Immediate Past President

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ALOPECIA AREATA

P001
Functional Genomic Investigation Of IL2RA Susceptibility Region In Alopecia Areata
Alexa Abdelaziz, PhD Candidate

P002
Treatment Of Severe Alopecia Areata With The Oral Janus Kinase Inhibitor Tofacitinib Citrate: The Cleveland Clinic Experience
Wilma Bergfeld, MD

P003
No Association Between Alopecia Areata And Visceral Or Hematopoietic Cancers
Ruzica Conic, MD

P004
Decreased Incidence Of Melanoma And Non-melanoma Skin Cancers In Patients With Alopecia Areata
Ruzica Conic, MD

P005
Role Of The Autophagy Protein, Syntaxin 17, In Melanogenesis And Alopecia Areata
Stephanie O. Erjavec, BS

P006
Suspected Herpes Zoster Associated Encephalitis During Treatment With Oral Tofacitinib In Alopecia Areata
Anna-Marie Hosking, BS

P007
Elevated Blood Plasma Matrix Metalloproteinase Function In Androgenetic Alopecia Patients
Kevin McElwee, PhD

ANDROGENETIC ALOPECIA

P009
Genetic Biosignatures Driving Cranio-facial Hair Follicle Patterning And Androgenetic Alopecia
Yanne Doucet, PhD

P010
The Oral Contraceptive Androgen Index: Relating Androgenicity And Progestin Content With Androgenetic Alopecia
Anthony Ho, BA

P011
Trichologic Response Of Combination Therapy Is Maintained After Initiation Of Platelet-rich Plasma In Androgenetic Alopecia
Anthony Ho, BA

P012
The Efficacy And Use Of Finasteride In Women: A Systematic Review
Allison Hu, BA

P013
Efficacy Of Platelet Rich Plasma For Androgenetic Alopecia May Be Determined By Growth Factor Concentration
Kevin McElwee, PhD

P014
A Case Series Of Spironolactone As An Effective Treatment for Female Pattern Hair Loss
Lauren Penzi, MD

P015
Alopecia In A Postmenopausal Woman Secondary To Leydig Cell Tumor: Successful Outcome With Tumor Excision And Topical Minoxidil 5% Solution
Luis Sánchez-Dueñas

P016
Androgenetic Alopecia (aga) And Polycystic Ovary Syndrome (pcos) In Adolescent Girls: A Retrospective Chart Review
Sapna Sundar, BA

CICATRICIAL ALOPECIA

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Tinea Capitis Mimicking Lichen Planopilaris In Adults
Sherihan Allam, MD, MSc

P018
Comorbid Conditions In Lichen Planopilaris: A Retrospective Data Analysis Of 334 Patients
Nikoleta Brankov, MD

P019
Distinct Trichoscopic Features Of The Sideburns In Frontal Fibrosing Alopecia Compared To The Frontotemporal Scalp
Jessica Cervantes

P020
Lichen Planopilaris And Hyperlipidemia: A Case Control Study
Ruzica Conic, MD

P021
Association Of Frontal Fibrosing Alopecia And Lichen Simplex Chronicus: Trichoscopy And Histopathological Features.
Carolina O. Costa Fechine, MD

P022
An Overlap Of Dissecting Cellulitis And Secondary Cutis Verticis Gyrate In A Patient With Frequent Use Of Hats: A Potential Risk Over Our Heads?
Maria Fernanda Gavazzoni-Dias, MD, MsC, PhD

P023
Fibrosing Alopecia In A Pattern Distribution (fapd) In 16 African Descent And Hispanic Female Patients: A Challenge Diagnosis.
Maria Fernanda Gavazzoni-Dias, MD, MsC, PhD
P026  Characterizing PPAR Gamma Gene Expression In Central Centrifugal Cicatricial Alopecia  Yemisi Dina, BS

P027  The Use Of Platelet Rich Plasma To Treat Radiation-induced Scarring Alopecia: A Case Report  Chloe Ekelem, MD, MPH

P028  The Prevalence Of Misdiagnosis Of Scarring Alopecia From A Facebook Scarring Alopecia Support Group Member Survey  Dina Hagigeorges, BS

P029  Increased Prevalence Of Frontal Fibrosing Alopecia In A Specialized Hair Clinic.  Anthony Ho, BA

P030  Histopathological Findings Of Persistent Inflammatory Scalp, A Prelude To Primary Cicatricial Alopecia?  Jorge Larrondo, MD, MSc

P031  5 Alpha Reductase Inhibitor Treatment For Frontal Fibrosing Alopecia: An Evidence Based Treatment Update  Aizuri Murad

P032  A Systematic Review Of The Outcome Of Hair Transplantation In Primary Scarring Alopecia  Christine Pham, BS

P033  Histopathology Of Facial Papules In Frontal Fibrosing Alopecia And Therapeutic Response To Oral Isotretinoin  Rodrigo Pirmez, MD

P034  Updates In Therapeutics For Folliculitis Decalvans: A Systematic Review With Evidence Based Analysis  Pooja Rambhia, BA

P035  Updates In Therapeutics For Lichen Planopilaris: A Systematic Review With Evidence-based Analysis  Pooja Rambhia, BA

P036  Treatment Of Cicatricial Alopecia Due To Ccle  Fabia Schalch

P037  Atypical Presentations of Frontal Fibrosing Alopecia  Sarah Schneider

P038  Sebaceous Gland Abnormalities In Fatty Acyl Coa Reductase 2 (Far2) Null Mice Result In Follicular Dystrophy And Primary Cicatricial Alopecia  John Sundberg, DVM, PhD

P039  Frontal Fibrosing Alopecia Associated Facial Papules: Report Of Seven Cases And A Literature Review  Sarika Uppaluri

P040  Intralosional Triamcinolone Acetonide For Treatment Of Traction Alopecia  Laura Uwakwe, MD

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P041  Markers Of Ageing In The Hair Follicle Environment- A Glimpse Into The Human Scalp  Rachael Sutherland-Sedman

P042  Oncostatin M Produced By TREM2+ Macrophages Maintains Quiescence Of Hair Follicle Stem Cells Via JAK-STAT5 Signaling  Etienne Wang, MBBS, PhD

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P043  Hair Management Of Transgender And Gender Nonconforming Patients  Catherine Motosko, BS

NEW THERAPEUTICS, DIAGNOSTIC METHODS, AND NOVEL INGREDIENTS

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P045  Hyperpigmented Upper Eyelid: A Clue To Diagnosis Of Facial Lichen Planus Pigmentosus  Maria Fernanda Gavazzoni-Dias, MD, MsC, PhD

P046  The Utility Of Non-invasive In Vivo Imaging In Monitoring Hair Loss Disorders: A Pilot Study  Chloe Ekelem, MD, MPH

P047  Determining The Value Of Hair Maintenance For Cancer Patients During Chemotherapy Treatment  Margit Juhasz, MD

P048  Successful Regrowth Of Hair In Alopecia Areata Using Platelet-rich Plasma As Quantitatively Measured By Optical Coherence Tomography  Margit Juhasz, MD
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P049 "Effect Of A Zinc Supplementation In Preventing Alopecia After Bariatric Surgery"
Jorge Larrondo, MD, MSc

P050 Optical Coherent Tomography In The Diagnosis Of Scalp Disorders
Maria Abril Martinez Velasco, MD

P051 Seborrheic Dermatitis, Describing Three Novel Trichoscopic Signs And Its Correlation To Malassezia Colonization
Maria Abril Martinez-Velasco, MD

P052 Trichoscopy in Dark Scalp
Maria Abril Martínez-Velasco, MD

P053 The Role Of Platelet-rich Plasma In Alopecias As Quantitatively Measured By Optical Coherence Tomography: Prospective Pilot Study At A Single Center
Natasha Atanaskova Mesinkovska, MD, PhD

P054 Comparison Of Platelet Growth Factor Expression With Cancer Cells And Its Potential Implications In Platelet Rich Plasma Therapy
Javed Mohammed, PhD

P055 Tofacitinib Shows Efficacy In Treatment Of Lichen Planopilaris
Brigitte Sallee, MD

P056 Effectiveness Of Laser Technology For Non-scarring And Scarring Alopecia
Laura Uwakwe, MD

P057 The Rise Of Transcutaneous Drug Delivery For The Management Of Alopecia: A Review Of Existing Literature And An Eye Towards The Future
Angela Wipf, BA

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P058 Alopecia Induced By Sorafenib: A Case Report
Alessandra Anzai

P059 Hair Loss In The Elderly: An Observational Study
Ruzica Conic, MD

P060 Vitamin D Status In Scarring And Non-scarring Alopecia
Ruzica Conic, MD

P061 Scalp Psoriasis-like Crusted Scabies: A Challenge To Overcome
Maria Fernanda Gavazzoni-Dias, MD, MsC, PhD

P062 Hair Transplantation: Technology, Science And Art
Gorana Kuka Epstein, MD PhD Candidate

P063 Multiphoton Microscopy For Diagnostic Indices In Alopecia Areata
Jessica Lin, BSc

P064 Patient Reported Stress Caused By Hair Loss Using A Numeric Rating Scale
Athena Manatis-Lornell, BA

P065 Pemphigus Vegetans Of The Scalp
Fabia Schalch

P066 A Comprehensive Literature Review Of The Efficacy Of Biotin For The Management Of Alopecia
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P067 Trichoscopy Features Of Syphilitic Alopecia: A Report Of 5 Cases
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P070 Photobiomodulation Laser Light Transmission On Cadaver Sheepskin
Ronda Farah, MD

P071 A Clinical Comparison Of FDA-cleared Photobiomodulation Devices For The Treatment Of Alopecia
Angela Wipf, BS
STEM CELLS, HAIR FOLLICLE NEOGENESIS & REGENERATIVE MEDICINE

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A Method To Produce A Hair Follicle Like Organoid Using Matrix Cells
Khalid Bakkar

P073
Novel Tools To Study The Hair Follicle Stem Cell Niche And Its Regulation During Ageing
Carlos Clavel, PhD

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IL-1 Mediated Activation Of γδT Cells Promotes Tissue Regeneration In A Cutaneous Wound
Rupali Gund, PhD

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Regulation Of Skin Regeneration By Non-coding RNA Sensing
Nasif Islam, BS

P076
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Dongwon Kim

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Transplantation Of Cell Enriched Adipose Tissue For Follicular Niche Stimulation In Early Androgenetic Alopecia
Gorana Kuka Epstein, MD, PhD Candidate

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Gorana Kuka Epstein, MD, PhD Candidate

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Sung-Jan Lin, MD, PhD

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Kevin McElwee, PhD

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Identifying The Key Niche Signals For Hair Follicle Formation
Ka Wai Mok, PhD

P082
Hair Follicle Stem Cell Stimulation By Naturally Secreted Growth Factors Induces New Hair Growth In Men And Women
Gail K. Naughton, PhD

P083
Skin Equivalent Formation With Hair Follicular Structure
Seung Hwan Paik, MD

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Abby Ellison, Research Director

The National Alopecia Areata Foundation (NAAF) serves the community of people affected by alopecia areata through research, support and education programs. Our work with and for the community of people affected by alopecia areata—including family, friends, medical professionals, researchers, biopharmaceutical developers and government representatives—exists to drive efforts toward finding safe, effective treatments and a cure for all those affected by the disease.
Cassiopea is in Phase 2 clinical trials for Breezula®, a novel topical, peripherally selective anti-androgen, for the treatment of androgenetic alopecia and in Phase 3 clinical trials for Winlevi®, a novel topical peripherally selective anti-androgen, for the treatment of acne.

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The mission is:
• To strongly encourage and promote scientific research in the field of the normal and disordered hair growth.
• To promote dissemination of state of the art knowledge on hair biology and medical hair disorders.
• To promote interdisciplinary interaction between basic scientists and clinicians through regular meetings, publications and innovative communication.
• To establish links with other international hair research societies and to arrange combined meetings on a periodic basis.
• To educate both our colleagues and the public on hair biology and the pathophysiology and treatment of hair related conditions.
• To create and maintain a database of hair disorders that will foster greater enhanced communication between bench scientists, clinicians, industry, patient support societies, lay public, government and managed care organizations.

Along with a Mentorship Program and Seal of Recognition Program, the AHRS holds annual meetings at the AAD and SID as well as periodically hosting the larger World Congress for Hair Research. With its expansion into Central America and South America, the AHRS will begin holding meetings at RADLA and/or CILAD. Members receive e-subscription to Skin Appendages Disorders journal.

New members can help advance the field of hair and scalp disorders. Our ability to further the Society’s goals in hair research can be greatly facilitated by your membership in AHRS.

We look forward to your participation!
HAIR RESEARCH SOCIETIES

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AHRS SYMPOSIUM AT CILAD 2018
As AHRS expands into Central and South America, it is pleased to announce a partnership with the Ibero-Latin American College of Dermatology. The AHRS is organizing a one-hour session during the XXII CILAD, on Thursday | November 15, 2018, 10:00am-11:00am, taking place in São Paulo, Brazil.

Go to: http://cilad2018.com/

WCHR2017 SUMMARY
Globally, there are several established hair research societies who alternate hosting the World Congress of Hair Research every 2-3 years. The collective group of societies comprise the International Federation of Hair Research Societies, and include:

- Australasian Hair and Wool Research Society
- European Hair Research Society
- American Hair Research Society
- The Society for Hair Science Research (Japan)
- The Korean Hair Research Society

We applaud our Japanese colleagues for organizing this past year a stellar, first-class congress!

The 10th World Congress for Hair Research took place in Kyoto, Oct. 31-Nov. 3, 2017, and had record attendance. The academic and social program were wonderful. The venue was world-class surrounded by beautiful foliage colors of autumn.

If you were unable to attend, you may wish to read the post-meeting summary, posted at http://nahrs.org.tempdomain.com/MeetingsCalendar/ArchiveofNAHRSEvents.aspx.

Presidents and leadership of hair research societies. Abraham Zlotogorski-EHRS, Ryoji Tsuboi-SHSR, Rodney Sinclair-AHWRS, Satoshi Itami-SHSR, Manabu Ohyama-SHSR, Won-Soo Lee-KHRS, Maria Hordinsky-(N)AHRS

NEXT WCHR - 2019 BARCELONA
The 11th World Congress for Hair Research will take place April 24-27, 2019, in Barcelona, Spain, and is being organized by the European Hair Research Society. With the theme of “Building new ideas” it is sure to be excellent.

Go to: http://www.barcelonaahair2019.org/
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