

## 7<sup>th</sup> International LFS Association Symposium

Hosted by Penn Medicine/CHOP and in partnership with the LiFE Consortium

### *Program Agenda*

#### Friday, October 18<sup>th</sup>

**3.00pm – 6.00pm**  
**6.00pm – 8.00pm**

#### | **The Inn at Penn**

3600 Sansom St, Philadelphia, PA, 19104

Registration and Check-in – The Inn at Penn Lobby  
Welcome Cocktail Reception – The Inn at Penn

#### Saturday, October 19<sup>th</sup>

#### | **Penn Smilow Center for Translational Research**

3400 Civic Center Blvd, Philadelphia, PA, 19104

**7.00am – 8.30am**

#### **Registration**

**7.00am – 8.30am**

Breakfast

**8.30am – 10.00am**

#### **Welcome**

*2024 LFS Symposium Planning Committee*

#### **Introduction**

*Jenn Perry*

#### **Introduction by Abramson Cancer Center**

*Katherine Nathanson, MD*

#### **Theirry Frebourg Memorial Lecture**

Progress and Promise in Li Fraumeni Syndrome: A Collaborative View  
*Judy Garber, MD, MPH*

**10.00am – 10.20am**

Break

**10.20am – 11.30am**

#### **Low Risk Attenuated LFS**

Session Chair: Kara N. Maxwell, MD, PhD  
Co-Chair: Christian Kratz, MD

*10.20am – 10.35am*

The genetics of tumor suppression by p53: what can we learn from hypomorphic p53 variants?  
***Maureen Murphy, PhD***

*10.35am – 10.50am*

Modifiers of Cancer Risk in TP53 p.R337H Variant Carriers: The Role of Genetic and Environmental factors  
***Emilia Pinto, PhD***

*10.50am – 11.05am*

Cancer Histories of Families with Hypomorphic TP53 variants and Implications for Management  
***Huma Rana, MD, MPH***

11.05am – 11.20am	Genetic counseling perspectives on reduced penetrance/attenuated Li-Fraumeni Syndrome <b>Jacquelyn Powers, MS, CGC</b>
11.20am – 11.30am	Q & A session
<b>11.30am – 12.30pm</b>	<b>Genotype-Phenotype and Clinical Genetics Studies Session 1</b> Session Chair: Phuong Mai, MD, MS Co-Chair: Dana Farengo-Clark, MS, CGC
11.30am – 11.045am	Estimating Penetrance from the LiFT UP Study <b>Stephen Gruber, MD, PhD, MPH</b>
11.45am – 12.00pm	Outcomes and clinical phenotypes of LFS breast cancer <b>Renata Sandoval, MD, PhD</b>
12.00pm – 12.15pm	Distinct genomic and immunologic tumor evolution in germline <i>TP53</i> -driven breast cancers <b>Kara N. Maxwell, MD, PhD</b>
12.15pm – 12.30pm	Q & A session
<b>12.30pm – 1.30pm</b>	Lunch
<b>1.30pm – 2.15pm</b>	<b>LFSA International Youth Panel</b>
<b>2.15pm – 3.00pm</b>	<b>LFSA Programming</b>
<b>3.00pm – 3.30pm</b>	Break
<b>3.30pm – 5.00pm</b>	<b>Parents' Guide to LFS</b> Session Chair: Allison Werner-Lin, PhD, LCSW Co-Chair: Suzanne MacFarland, MD
3.30pm – 3.45pm	Talking with children and Li-Fraumeni Syndrome <b>Allison Werner-Lin, PhD, LCSW</b>
3.45pm – 4.00pm	TBA <b>Meis Omran, MD, PhD</b>
4.00pm – 4.15pm	Supporting Adolescents and Young Adults with LFS and other Cancer Risk Syndromes: the AYA-RISE Study <b>Junne Kamihara, MD, PhD</b>
4.15pm – 4.30pm	Supporting Parents and Preparing Teens to Manage LFS Care <b>Kristin Zelle, MS, CGC</b>
4.30pm – 5.00pm	Q & A session
<b>5.00pm – 7.00pm</b>	<b>Poster Session and Reception</b> <a href="#">Penn Smilow Center for Translational Research</a> <a href="#">3400 Civic Center Blvd., Philadelphia, PA, 19104</a>

Sunday, October 20<sup>th</sup>

| CHOP Hub for Clinical Collaboration

3500 Civic Center Blvd, Philadelphia, PA, 19104

**7.30am – 8.30am**

Breakfast

**8.30am – 9.10am**

**Welcome and Introduction**

*Garrett Brodeur, MD*

**Joseph Fraumeni Honorary Lecture**

Li-Fraumeni Syndrome: Past Hopes and Future Promise

***David Malkin, MD***

**9.10am – 10.25am**

***TP53 Variant Interpretation***

Session Chair: Suzanne MacFarland, MD

Co-Chair: Kara Maxwell, MD, PhD

*9.10am – 9.25am*

Suspected clonal hematopoiesis as a natural functional assay of *TP53* germline variant pathogenicity

***Cristina Fortuno, PhD***

*9.25am – 9.40am*

ClinGen *TP53* Variant Curation Expert Panel v2 Specifications Improve Analysis of *TP53* Variants

***Megan Frone, MS, CGC***

*9.40am – 9.55am*

Tumor Spectrum and Temporal Cancer Trends in Adult Carriers of Li-Fraumeni Syndrome: Implications for Personalized Screening Strategies in *TP53* R337H Carriers

***Maria Isabel Achatz, MD, PhD***

*9.55am – 10.10am*

Mechanisms of incomplete penetrance of germline *TP53* variants

***Pierre Hainaut, PhD***

*10.10am – 10.25am*

Deep mutational scanning supports a multistage model of mutant *TP53*-driven tumorigenesis

***Andrew Giacomelli, PhD***

*10.25am – 10.40am*

*Q & A session*

**10.40am – 10.55am**

Break

**10.55am – 12.45pm**

**Genotype-Phenotype and Clinical Genetics Studies Session 2**

Session Chair: Banu Arun, MD

Co-Chair: Jacquelyn Powers, MS, CGC

*10.55am – 11.10am*

The Li-Fraumeni Syndrome Registry in Germany

***Christian Kratz, MD***

*11.10am – 11.25am*

Li-Fraumeni Syndrome in the UK; Manchester experience

***Emma Woodward, FRCP, PhD***

11.25am – 11.40am	Updates from the French LFS experience <b>Gaëlle Bougeard, PhD</b>	
11.40am – 11.55am	Cancer risk modeling for deleterious mutations in <i>TP53</i> using a multi-center consortium <b>Wenyi Wang, PhD</b>	
11.55am – 12.10pm	Risk of therapy-related subsequent cancers in individuals with germline <i>TP53</i> variants <b>Anita Villani, MD, MSc</b>	
12.10pm – 12.25pm	Identification of <i>TP53</i> germline variants in pediatric patients undergoing tumor testing: strategies, prevalence, and challenges" <b>Minjie Luo, PhD</b>	
12.25pm – 12.40pm	Q & A session	
<b>12.40pm – 1.15pm</b>	Lunch	
<b>1.15pm – 3.00pm</b>	<b>Breakout Sessions</b>	
1.15pm – 2.00pm	<p><i>Session 1A: Breast Cancer in LFS – Before and After (Hybrid)</i></p> <p><u>Leads:</u> Bita Nehoray, MS, CGC Jacquelyn Powers, MS, CGC</p> <p><u>Expert Panel:</u> Christine Edmond, MD Judy Garber, MD, MPH Alina Mateo, MD, MS, FACS Camella J. Rising, PhD, MS, RDN</p>	<p><i>Session 1B: Parents' guide to the LFS Universe (Hybrid)</i></p> <p><u>Leads:</u> Allison Werner-Lin, PhD, LCSW Bailey Gallinger, MSc, CGC</p> <p><u>Expert Panel:</u> Suzanne MacFarland, MD Kristin Zellej, MS, CGC</p>
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<b>3.10pm – 3.30pm</b>	Break	
<b>3.30pm – 4.15pm</b>	<b>LFSA Programming</b>	

**4.15pm – 5.30pm**

**Health Behavior and Medical Decision Making**

Session Chair: Rowan Forbes Shepherd, PhD

Co-Chair: Kristin Zelle, MS, CGC

*4.15pm – 4.30pm*

Psychosocial correlates of reported physical activity among adults with LFS and their family members from a National Cancer Institute cohort

***Camella J. Rising, PhD, MS, RDN***

*4.30pm – 4.45pm*

Implementation of a support group program for individuals and families impacted by Li-Fraumeni Syndrome: A pilot study

***Kelsey Breen, MS, CGC***

*4.45pm – 5.00pm*

Adolescent and Young Adult (AYA) Management of Cancer Risk During the Transition to Adulthood

***Lisa Schwartz, PhD***

*5.00pm – 5.15pm*

Improving psychosocial support for families with Li-Fraumeni Syndrome Families: Insights from Germany

***Antonia Rabe, PsyM***

*5.15pm – 5.30pm*

*Q & A session*

**6.30pm – 8.30pm**

**Open Evening with optional “Flavors of Philly” Light fare**

***The Inn at Penn Library***

***3600 Sansom St, Philadelphia, PA, 19104***

**Monday, October 21<sup>st</sup>**

**| CHOP Hub for Clinical Collaboration**  
3500 Civic Center Blvd, Philadelphia, PA

**7.30am – 8.30am**

Breakfast

**8.30am – 9.30am**

**P53 Biology**

Session Chair: David Malkin, MD

Co-Chair: Suzanne MacFarland, MD

*8.30am – 8.50am*

Testing the idea of cancer prevention for LFS  
***Arnold Levine, PhD***

*8.50am – 9.05am*

TBA  
***Ran Kafri, PhD***

*9.05am – 9.20am*

Zebrafish models of LFS provide new insights into disease progression and cancer prevention  
***Jason Berman, MD***

*9.20am – 9.30am*

*Q & A session*

**9.30am – 10.30am**

**P53 Biology and Mouse models**

Session Chair: Sharon Savage, MD

Co-Chair: Kara Maxwell, MD, PhD

*9.30am – 9.45am*

The Complexity and Controversy of Mutant p53  
***Carol Prives, PhD***

*9.45am – 10.00am*

In vivo mutant p53 activities  
***Guillermo Lozano, PhD***

*10.00am – 10.15am*

Deconstructing mechanisms of p53-mediated lung cancer suppression  
***Laura Attardi, PhD***

*10.15am – 10.30am*

*Q & A session*

**10.30am – 10.50am**

Break

**10.50am – 12.00pm**

**Targeted Therapy**

Session Chair: Joshua Schiffman, MD

Co-Chair: Payal Khincha, MBBS, MSHS

*10.50am – 11.05am*

Nonsense mutant *TP53* as a therapeutic target in LFS  
***Klas Wiman, MD, PhD***

*11.05am – 11.20am*

Precision Targeting of p53 Mutant Cancers  
***Christine Eischen, PhD***

*11.20am – 11.35am*

Can We Delay Cancer Development in Li-Fraumeni Syndrome Patients?  
***Kanaga Sabapathy, PhD***

11.35am – 11.50am	Metformin as a pharmacopreventive agent in LFS (MILI): an update on the international efforts <b>Payal Khincha, MBBS, MSHS</b>		
11.50am – 12.00pm	Q & A session		
<b>12.10pm – 1.00pm</b>	Lunch		
<b>1.00pm – 3.00pm</b>	<b>Breakout Sessions</b>		
1.00pm – 1.45pm	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>Session 2A: Spirit/Mind/Body (Hybrid)</b></p> <p><u>Leads:</u> Camella J. Rising, PhD, MS, RDN Rose McGee, MS, CGC</p> <p><u>Expert Panel:</u> Tracey Jubelirer, MD</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>Session 2B: Hot Topics in LFS Surveillance (Hybrid)</b></p> <p><u>Leads:</u> Alison Schwartz Levine, MS, CGC Rowan Forbes Shepherd, PhD</p> <p><u>Expert Panel:</u> Mark Rosen, MD, PhD Kara Maxwell, MD, PhD Lisa States, MD</p> </td> </tr> </table>	<p><b>Session 2A: Spirit/Mind/Body (Hybrid)</b></p> <p><u>Leads:</u> Camella J. Rising, PhD, MS, RDN Rose McGee, MS, CGC</p> <p><u>Expert Panel:</u> Tracey Jubelirer, MD</p>	<p><b>Session 2B: Hot Topics in LFS Surveillance (Hybrid)</b></p> <p><u>Leads:</u> Alison Schwartz Levine, MS, CGC Rowan Forbes Shepherd, PhD</p> <p><u>Expert Panel:</u> Mark Rosen, MD, PhD Kara Maxwell, MD, PhD Lisa States, MD</p>
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<b>3.10pm – 3.30pm</b>	Break		
<b>3.30pm – 4.45pm</b>	<b>Barriers to care in LFS</b> Session Chair: Michael Hall, MD, MS Co-Chair: Angela Bradbury, MD		
3.30pm – 3.45pm	Screening for cancer predisposition syndromes in children and adolescents with cancer - MIPOGG app <b>Catherine Goudie, MD, MSc</b>		
3.45pm – 4.00pm	Identification of Patients with LFS from Cancer Diagnosis in Kids and Adults <b>Kristin Zelle, MS, CGC &amp; Dana Farengo-Clark, MS, CGC</b>		
4.00pm – 4.15pm	Health Equity and Li-Fraumeni Syndrome <b>Haley Newman, MD, MSCE</b>		
4.15pm – 4.30pm	Clinical care of the gender diverse patient with LFS <b>Shelly McQuaid, MS, CGC</b>		

4.30pm – 4.45pm

*Q & A session*

**5.00pm – 7.00pm**

**International Dinner**

*The Inn at Penn*

3600 Sansom St, Philadelphia, PA, 19104



**Tuesday, October 22<sup>nd</sup>**

**| CHOP Hub for Clinical Collaboration**

3500 Civic Center Blvd, Philadelphia, PA, 19104

**7.30am – 8.30am**

Hot Breakfast Buffet

**8.00am – 9.00am**

**Early Detection and Screening: Radiology**

Session Chair: Lisa J. States, MD

Co-Chair: Mark Rosen, MD, PhD

*8.00am – 8.15am*

Whole-Body MRI Screening in Infants, Children and Adolescents with LFS  
***Mary-Louise Greer, MBBS, FRANZCR***

*8.15am – 8.30am*

Whole-body MRI in patients with LFS  
***Ashkan Malayeri, MD***

*8.30am – 8.45am*

Gastrointestinal and pancreatic cancer screening in Li-Fraumeni Syndrome  
***Bryson Katona, MD, PhD***

*8.45am 9.00am*

*Q & A session*

**9.00am – 10.00am**

**Early Detection and Screening – cfDNA**

Session Chair: Payal Khincha, MBBS, MSHS

Co-Chair: Susan Domchek, MD

*9.00am – 9.15am*

Building a path to clinical validation of liquid biopsies for cancer screening in cancer risk syndromes  
***Brian D. Crompton, MD***

*9.15am – 9.30am*

Liquid Biopsy in LFS: Moving Towards a Clinical Trial  
***Suzanne P. MacFarland, MD***

*9.30am – 9.45am*

The CHARM of it all: Putting cell-free DNA into practice in a prospective trial  
***Trevor Pugh, PhD***

*9.45am – 10.00am*

*Q & A session*

**10.10am – 10.30am**

Break

**10.30am – 12.00pm**

**Panel Discussion**

**12.10pm – 1.00pm**

Program conclusion and closing remarks