

6TH International LFS Association Symposium

hosted by **National Cancer Institute** and in partnership with the **LiFE Consortium**

Agenda

Thursday, October 13th | Pooks Hill Marriott, Bethesda, MD

- 2:00 – 8:00 PM Registration Check-in – Marriott Lobby
6:00 – 8:00 PM Welcome Cocktail Reception *with light fare*

Friday, October 14th | NCI Shady Grove, 9609 Medical Center Drive, Rockville, MD

7:30 AM ***Continental Breakfast***

8:30 – 9:10 AM **Welcome Address**

- 8:30-8:35 a.m.: Payal Khincha
8:35-9:00 a.m.: Jennifer Perry
9:00-9:10 a.m.: Elizabeth Cowles

9:10 – 10:15 AM **Thierry Frebourg Memorial Session**

Session Chair: David Malkin

9:10-9:20 a.m. Philip Castle

Title: TBD

9:25 – 9:30 am David Malkin- *Introduction of Gareth Evans*

9:30-9:55 a.m. Keynote address by Gareth Evans

Title: *Li-Fraumeni syndrome due to TP53 mutations: Manchester experience of TP53 related breast cancer incidence and screening with whole body MRI*

10:00-10:15 a.m. Christian Kratz

Title: *The Li-Fraumeni Spectrum*

10:20 AM ***Break***

10:40 – 12:00 PM ***TP53 in populations and around the world***

Session Chair: Phuong Mai

10:40-10:50 a.m. Cristina Fortuno

Title: *Risk estimates for cancer types in TP53 carriers beyond the core Li-Fraumeni syndrome spectrum*

10:55-11:10 a.m. Patricia Prolla

- Title: *Li-Fraumeni syndrome families with atypical clinical presentation: the challenge of using clinical criteria for genetic testing*
- 11:15-11:25 a.m. Megan Frone
 Title: *TP53-specific modifications on the ACMG/AMP variant curation guidelines improve analysis of germline TP53 variants*
- 11:30-11:40 p.m. Kelvin de Andrade
 Title: *The TP53 Database: Transition from the International Agency for Research on Cancer to the US National Cancer Institute*
- 11:45-11:55 p.m. Ixtaccihuatl Obregon
 Title: *The prevalence of autoimmune disorders in individuals with and without Li-Fraumeni syndrome*
- 12:05 PM** **Lunch**
- 12:35 – 1:20 PM** **Breakout session I**
In person sessions:
- i) *Understanding health insurance terminology and coverage options for LFS*
 - ii) *Navigating a new LFS diagnosis*
 - iii) *Supporting a balanced relationship with food, movement, and body image*
 - iv) *Managing grief and loss*
 - v) *Adolescence and young adulthood with LFS*
- Virtual sessions:
- i) *Navigating a new LFS diagnosis*
 - ii) *Talking with children about LFS*
 - iii) *Managing grief and loss*
- 1:25 – 2:10 PM** **Breakout session II**
In person sessions:
- i) *The LFS Spectrum: Different Presentations of TP53 Variants and Mosaic LFS*
 - ii) *Whether and When to Test Children for LFS*
 - iii) *Talking with children about LFS*
 - iv) *Coping and caring: mental health and LFS*
 - v) *Post-mastectomy breast cancer surveillance*
- Virtual sessions:
- i) *The LFS Spectrum: Different Presentations of TP53 Variants and Mosaic LFS*
 - ii) *Whether and When to Test Children for LFS*
 - iii) *Supporting a balanced relationship with food, movement, and body image*
 - iv) *Coping and caring: mental health and LFS*
 - v) *Adolescence and young adulthood with LFS*
- 2:15 – 3:00 PM** **International Youth Panel**
- 3:00 – 4:15 PM** **Cancer Screening**

- Session Chair: Payal Khincha
- 3:00-3:15 p.m. Payal Khincha
Title: *Cancer screening at the NCI: Present and Future*
- 3:20-3:30 p.m. Ashkan Malayeri
Title: *Imaging Strategies in Surveillance and Follow-up of Patients with Li-Fraumeni Syndrome*
- 3:35-3:50 p.m.: Maria Isabel Achatz
Title: *Brazilian Li-Fraumeni Syndrome Study (BLiSS): preliminary results of a 5-year cohort*
- 3:55-4:10 p.m. Trevor Pugh
Title: *Integrated analysis of cell-free DNA for the early detection of cancer in people with Li-Fraumeni Syndrome*
- 4:20 PM** **Break**
- 4:45 – 5:45 PM** **History of LFS**
- Session Chair: Stephen Friend
- 4:45-4:50 p.m. Introduction
- 4:55-5:15 p.m. Joseph Fraumeni
Title: *The Early Days at the NCI*
- 5:20-5:40 p.m. Elaine Li Shiang
Title: *Reflections on Li-Fraumeni Syndrome and the of life Dr. Frederick Li*

International Food Festival at the Marriott hosted by the LFS Association

Saturday, October 15th | NCI Shady Grove, 9609 Medical Center Drive, Rockville, MD

- 7:30 AM** **Continental Breakfast**
- 8:30 – 9:00 AM** **Genetic Counseling**
- Session Chair: Megan Frone
8:30-9:00 a.m.: Kristin Zelle
Title: *Testing Children for LFS: What Is Best?*
- 9:00- 10:00 AM** **Life with LFS**
- Session Chair: Allison Werner-Lin
- 9:00-9:10 a.m. Kelsey Breen
Title: *Design and implementation of a support group program for individuals and families with Li-Fraumeni Syndrome*
- 9:10-9:20 a.m. Alison Werner-Lin
Title: *How do young people with Li-Fraumeni Syndrome understand and experience cancer survivorship? "It's just an intermission"*

- 9:20-9:30 a.m. Catherine Wilsnack
Title: *Coping with complex health care needs: Addressing barriers for adolescents and young adults with Li-Fraumeni Syndrome (LFS)*
- 9:30-9:40 a.m. Camella Rising
Title: *Family communication experiences and challenges of adolescents and young adults with LFS: Implications for psychosocial care and future research*
- 9:40-9:50 a.m. Rowan Forbes Shepherd
Title: *Mental health outcomes for adolescents and young adult with Li-Fraumeni syndrome*
- 10:00 AM** **Break**
- 10:10 – 11:10 PM** **Emerging Research in LFS – Poster Session**
- 11:15 – 12:15 PM** **Updates on TP53 Biology**
Session Chair: Kanaga Sabapathy
- 11:15-11:30 a.m. Ran Kafri
Title: *Phenotypic assays on patient skin fibroblasts expose systemic factors that promote or negate tumor onset.*
- 11:35-11:50 a.m. Klas Wiman
Title: *Targeting missense and nonsense mutant TP53 in cancer*
- 11:55-12:10 p.m. Kanaga Sabapathy
Title: *A molecular cancer prevention strategy for Li-Fraumeni syndrome patients*
- 12:15 PM** **Lunch**
- 12:45 – 1:30 PM** **Breakout session III**
In person sessions:
- i) Navigating a New LFS Diagnosis*
 - ii) Supporting a balanced relationship with food, movement, and body image*
 - iii) Managing grief and loss*
 - iv) Adolescence and young adulthood with LFS*
- Virtual sessions:
- i) Understanding Health Insurance Terminology and Coverage Options for the Management of LFS*
 - ii) Navigating a New LFS Diagnosis*
 - iii) Talking with children about LF*
 - iv) Managing grief and loss*
- 1:35 - 2:20 PM** **Breakout session IV**
In person sessions:
- i) The LFS Spectrum: Different Presentations of TP53 Variants and Mosaic LFS*
 - ii) Whether and When to Test Children for LFS*
 - iii) Talking with children about LFS*
 - iv) Coping and caring: mental health and LFS*

Virtual sessions:

- i) The LFS Spectrum: Different Presentations of TP53 Variants and Mosaic LFS*
- ii) Whether and When to Test Children for LFS*
- iii) Supporting a balanced relationship with food, movement, and body image*
- iv) Coping and caring: mental health and LFS*
- v) Adolescence and young adulthood with LFS*

2:25 – 3:45 PM

p53 Predictive Models

Session Chair: Pierre Hainaut

2:25-2:40 p.m.

Pierre Hainaut

Title: TBD

2:45-3:00 p.m.

Carol Prives

Title: *LFS-derived dimer-forming mutant p53 demonstrates neomorphic gain-of-function activity and unique sensitivity to select cancer therapeutic drugs*

3:05-3:20 p.m.

Nicholas Fischer

Title: *TP53 Mutational Clusters Stratify Phenotypic Heterogeneity in the Li-Fraumeni Syndrome Spectrum and Reveal an Osteosarcoma-Prone Subgroup*

3:25-3:40 p.m.

Wenyi Wang

Title: *Cancer risk modeling for deleterious mutations in TP53 using a multi-center consortium*

3:45 PM

Break

4:00 - 6:00 PM

Multi-institutional Collaborations

Speaker Chair: Maria Isabel Achatz

4:00-4:10 p.m.

Judy Garber

Title: TBD

4:15-4:35 p.m.

Anita Villani & Lindsay Morton

Title: *Risk of therapy-related subsequent cancers in individuals with germline TP53 variants*

4:45-5:00 p.m.

Renata Sandoval

Title: *Breast cancer in Li-Fraumeni syndrome: what we know and what we are willing to know*

5:05-5:20 p.m.

Kara Maxwell

Title: *Mechanisms of Tumor Development in Li-Fraumeni Syndrome Breast Cancer*

5:25-5:45 p.m.

Payal Khincha and Sarah Blagden

Title: *Metformin in Li-Fraumeni Syndrome (MILI) and a translational substudy TransMILI*

End the day by 6:00 pm

Sunday, October 16th | Pooks Hill Marriott, Bethesda, MD

7:30 AM ***Breakfast Buffet***

8:30 – 8:40 AM **Direction and Vision of LFSA: Dr. Robert Lufkin**

8:45 – 9:30 AM **Panel Discussion**

9:35 – 9:50 AM **Guest Speakers**

9:35-9:45 a.m. Goli Samimi

Title: *Traceback: Identification and Genetic Counseling and Testing of Mutation Carriers through Family-based Outreach*

9:50-10:00 AM Larry Ingrassia

Title: TBD

10:05-11:05 AM **Targeted Therapy**

Session Chair: Kelvin de Andrade

10:05- 10:20 a.m. Ecaterina Ileana Dumbrava

Title: TBD

10:25-10:40 a.m. Galina Selivanova

Title: *Pharmacological activation of p53 triggers viral mimicry response thereby abolishing tumor immune evasion and promoting anti-tumor immunity*

10:45-11:00 a.m. Tomer Cooks

Title: *Mutant p53 governs tumor microenvironment dynamics via extracellular vesicles: potential implications for Li-Fraumeni Syndrome patients?*

11:05 AM ***Break***

11:25 – 12:05 PM **A.I & LFS**

Session Chair: David Malkin

11:25-11:40 a.m. Stephen Friend

Title: *Pilot Study of LFS families using smartphones and wearables to determine feasibility of a large study to understand whether how we live our lives shift the occurrence of tumors*

11:45-12:00 pm Junne Kamihara

Title: *Promoting the understanding of cancer risk and screening for adolescents and young adults with cancer predisposition*

12:10 – 12:50 PM **What's New in p53-directed research**

Session Chair: Trevor Pugh

12:10-12:25 p.m. Joshua Schiffman

Title: *Elephants, Evolutionary Medicine, and Li-Fraumeni Syndrome*

12:30-12:45 p.m. John Karanicolas

Title: *Refolding mutant p53 as a cancer prevention strategy in Li-Fraumeni Syndrome*

12:50 PM

SYMPOSIUM WRAP-UP: Sean Downing, LFSA Scientific Advisory Board

Boxed lunches will be available