# **AGENDA**

# 3:00 Symposium Check-in and Registration Opens

Metropolitan Foyer

#### **FA 101 Introductory Presentation**

Metropolitan West

Note: This session is intended for those new to Fanconi anemia research and clinical care. However, all meeting participants interested in an overview of unanswered questions and new research and clinical directions in Fanconi anemia are encouraged to attend.

4:00 - 4:10	Introductions:
	Amy Frohnmayer, MA, Bend, United States
	Board of Directors, Fanconi Anemia Research Fund, FA Adult
	Christopher Byrd, Esq., Winter Springs, United States
	Board of Directors, Fanconi Anemia Research Fund, FA Adult
4:10 - 4:55	Medicine: Carmen Bonfim, MD, Federal University of Paraná, Curitiba, Brazil
4:55 - 5:05	Questions and answers
5:05 - 5:50	Biology: Agata Smogorzewska, MD, PhD, The Rockefeller University, New York, United States
5:50 - 6:00	Questions and answers

# **Welcome Reception and Poster Viewing**

Metropolitan Centre

6:00 - 8:00	Presenters in odd-numbered poster sections will be at their posters 6:00 - 7:00.
	Presenters in even-number poster sections will be at their posters 7:00 - 8:00.

FRIDAY 8

#### 7:00 - 8:00 Breakfast Buffet

Metropolitan East

7:00 - 8:00 **Poster viewing available** 

## **Welcome and Introduction**

Metropolitan West

8:00 - 8:25 Lynn Frohnmayer, MSW, Eugene, United States
Co-founder and Board Vice President, Fanconi Anemia Research Fund, FA Parent
Raymond Monnat Jr., MD, University of Washington, Seattle, Washington

Chair of Scientific Advisory Board, Fanconi Anemia Research Fund

### **FA Genetics: Mutation to Phenotype**

Metropolitan West

Chair: Jordi Surrallés, PhD

Universitat Autonoma de Barcelona, Barcelona, Spain

8:25 - 8:30	Session Overview: Jordi Surrallés, PhD
8:30 - 8:40	Asuka Hira, MD, Radiation Biology Center, Kyoto University, Kyoto, Japan
	Mutations in the Gene Encoding the E2 Conjugating Enzyme UBE2T Cause Fanconi Anemia
8:40 - 8:45	Questions and answers

8:45 - 8:55	Kim Rickman, MD/PhD Student, The Rockefeller University, New York, United States  Deficiency of UBE2T, the E2 Ubiquitin Ligase Necessary for D2 and I Ubiquitination, Causes a  New Subtype of FA
8:55 - 9:00	Questions and answers
9:00 - 9:10	Helmut Hanenberg, MD, Heinrich Heine University, Düsseldorf, Germany
	Germline Mutations and Somatic Reversions in FANCT That Cannot be Detected by Genomic
	Sequencing
9:10 - 9:15	Questions and answers
9:15 - 9:25	Jung-Young Park, PhD, Cincinnati Children's Research Foundation, Cincinnati, United States
	Protein Binding to PALB2 and Reversion of DNA Interstrand Crosslink Sensitivity Qualifies XRCC2
	as a Fanconi Anemia Gene
9:25 - 9:30	Questions and answers
9:30 - 9:40	Josephine Dorsman, PhD, VU University Medical Center, Amsterdam, Netherlands
	Expression of RAD51 <sup>A293T</sup> Leads to Defective Strand Exchange Activity in a Dominant Manner and
9:40 - 9:45	is Associated with a New FA Subtype, "FA-R".  Questions and answers
9:45 - 9:55	Blanche Alter, MD, MPH, National Cancer Institute, Rockville, United States
3.43 3.33	Novel FANCI Mutations in Fanconi Anemia with VACTERL Association
9:55 - 10:00	Questions and answers
10.00 10.05	Cassian Mana van Laudi Connellán DhD
10:00 - 10:05	Session Wrap-up: Jordi Surrallés, PhD
	itiation, Forks and RNA
Replication: In Metropolitan V Chair: Toshi Ta	itiation, Forks and RNA  Vest  niguchi, MD, PhD
Replication: In Metropolitan V Chair: Toshi Ta	itiation, Forks and RNA Vest
Replication: In Metropolitan V Chair: Toshi Ta Fred Hutchison 10:05 - 10:10	itiation, Forks and RNA Vest niguchi, MD, PhD Cancer Research Center, Seattle, United States Session Overview: Toshi Taniguchi, MD, PhD
Replication: In Metropolitan V Chair: Toshi Ta Fred Hutchison 10:05 - 10:10	itiation, Forks and RNA Vest  niguchi, MD, PhD Cancer Research Center, Seattle, United States  Session Overview: Toshi Taniguchi, MD, PhD Advaitha Madireddy, PhD, Albert Einstein College of Medicine, New York, United States
Replication: In Metropolitan V Chair: Toshi Ta Fred Hutchison 10:05 - 10:10 10:10 - 10:20	itiation, Forks and RNA  Vest  niguchi, MD, PhD Cancer Research Center, Seattle, United States  Session Overview: Toshi Taniguchi, MD, PhD Advaitha Madireddy, PhD, Albert Einstein College of Medicine, New York, United States  Genomic Influence of FANCD2 in Facilitating DNA Replication
Replication: In Metropolitan V Chair: Toshi Ta Fred Hutchison 10:05 - 10:10 10:10 - 10:20	itiation, Forks and RNA  Vest  niguchi, MD, PhD Cancer Research Center, Seattle, United States  Session Overview: Toshi Taniguchi, MD, PhD Advaitha Madireddy, PhD, Albert Einstein College of Medicine, New York, United States  Genomic Influence of FANCD2 in Facilitating DNA Replication  Questions and answers
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<b>Recombination</b> <i>Metropolitan M</i>	n: A Tale of Two Pathways
	Meyn, MD, PhD r Sick Children, Toronto, Canada
	Session Overview: Stephen Meyn, MD, PhD
	Brooke Conti, The Rockefeller University, New York, United States
	Suppression of Non-Homologous End Joining Does Not Rescue Sensitivity to ICL-Inducing Agents in
	Fanconi Anemia Cells
	Questions and answers
11:55 - 12:05	Zeina Kais, PhD, Dana Farber Cancer Institute, Boston, United States
12:05 - 12:10	FANCD2 Functions in Homologous Recombination and Alternative End-Joining  Questions and answers
	Eva Lee, MSc, University of Toronto, Toronto, Canada
12.10 12.20	Distinctive Roles for FANCJ and FANCD2 in the Resection of Radiation-Induced DNA Double-Strand
	Breaks
12:20 - 12:25	Questions and answers
12:25 - 12:35	Weixing Zhao, PhD, Yale University, New Haven, United States
	Promotion of BRCA2-dependent Homologous Recombination by DSS1 via RPA Targeting and DNA
12.25 12.40	Mimicry Questions and answers
	Session Wrap-up: Stephen Meyn, MD, PhD
12:45 - 2:00 Lu	
Metropolitan E	
12:45 - 2:00	Mentorship Lunch for Early Investigators
12:45 - 2:00	Poster Viewing Available
Immunity and	Inflammation
Metropolitan V	
Chair: Eva Guir	nan, MD Incer Institute, Boston, United States
	Keynote Introduction: Eva Guinan, MD
2:05 - 2:45	Glen Barber, PhD, University of Miami School of Medicine, Miami, United States
	KEYNOTE ADDRESS: Inflammation and DNA Damage
2:45 - 2:50	Keynote Wrap-up and Session Introduction: Eva Guinan, MD
2:50 - 3:00	Melinda Butsch Kovacic, MPH, PhD, Cincinnati Children's Hospital Medical Center, Cincinnati,
	United States
	Impaired Immune Function in Individuals with Fanconi Anemia over Time
3:00 - 3:05	Questions and answers
3:05 - 3:15	Said Aoufouchi, PhD, Gustave Roussy Institute, Villejuif, France Fanca Loss-Of-Function Leads To Altered Diversification of Immunoglobulin Genes in
	Differentiating B Cells
3:15 - 3:20	Questions and answers
3:20 - 3:40	Break
3:40 - 3:50	Flavia R.F. Teles, DDS, MS, DMSc, UNC School of Dentistry, Chapel Hill, United States
	Inflammation and Oral Carcinogenesis in Fanconi Anemia
3:50 - 3:55	Questions and answers



3:55 - 4:05	Michael Garbati, PhD, Oregon Health & Science University/Portland VA Medical Center, Portland, United States Loss of DACH1 Expression in FA Macrophages Leads to TLR Pathway Hyperactivity
4:05 - 4:10	Questions and answers
4:10 - 4:15	Session Wrap-up: Eva Guinan, MD

#### **Poster Reception**

Metropolitan Centre

5:30 - 7:30 Presenters in even-numbered poster sections will be at their posters 5:30- 6:30. Presenters in odd-number poster sections will be at their posters 6:30 - 7:30.

#### 7:30 - 9:30 Symposium Banquet

7:00 - 8:00 Breakfast Buffet

Metropolitan East



#### Metropolitan East 7:00 - 8:00 Poster viewing available **Squamous Cell Carcinoma: Prevalence, Etiology and Treatment Options** Metropolitan West Chair: Susanne Wells, PhD Cincinnati Children's Hospital Medical Center, Cincinnati, United States 8:00 - 8:05 Session Overview: Susanne Wells, PhD 8:05 - 8:15 Gregor Castrillón Oberndorfer, MD, DMD, City Hospital Karlsruhe, Karsruhe, Germany Facing the Challenge: Treatment of Oral Cancer in Young Patients with Fanconi Anemia 8:15 - 8:20 Questions and answers 8:20 - 8:30 Krupa Patel, The Rockefeller University/Weill Cornell Medical College, New York, United States Squamous Cell Carcinoma of the Anogenital Tract in Patients with Fanconi Anemia Questions and answers 8:30 - 8:35 Susanne Wells, PhD, Cincinnati Children's Hospital Medical Center, Cincinnati, United States 8:35 - 8:45 FA Pathway Loss Impairs the Integrity of Normal and Transformed Epidermis 8:45 - 8:50 Questions and answers 8:50 - 9:00 Michael Epperly, PhD, University of Pittsburgh, Pittsburgh, United States Radioprotection of Fancg-/- Mouse Oral Cavity by Mitochondrial Targeted JP4-039 9:00 - 9:05 Questions and answers Quintin Pan, PhD, The Ohio State University Medical Center, Columbus, United States 9:05 - 9:15 Development of a Small Molecule P300 Ligand to Simultaneously Reactivate P53 and Rb in HPV-Associated HNSCC **Questions and answers** 9:15 - 9:20 9:20 - 9:30 Molly Gilligan, Harvard Medical School/Beth Israel Deaconess Medical Center, Boston, United Suppression of Cell Debris-Stimulated FANCC-/- Head & Neck Cancer Progression by Resolvin **Mediated Clearance** Questions and answers 9:30 - 9:35



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9:35 - 9:40	Session Wrap-up: Susanne Wells, PhD
9:40 - 9:45	Keynote Introduction: William William, MD, The University of Texas MD Anderson Cancer Center Houston, United States
9:45 - 10:25	Michael Jensen, MD, Seattle Children's Research Institute, Seattle, United States
	<b>KEYNOTE ADDRESS:</b> Enhancing the Synthetic IQ of CAR T Cells
10:25 - 10:30	Wrap-up: William William, MD
10:30 - 10:50	
Metropolitan W	cture and Function  /est
Chair: Andrew	
	titute, Fitzroy, Australia
	Session Overview: Andrew Deans, PhD
10:55 - 11:05	Andrew Deans, PhD, St Vincent's Institute, Fitzroy, Australia
	Recombinant Fanconi Anemia Core Complex: Insights into the Ubiquitination Reaction at the Centre of the FA Pathway
11:05 - 11:10	·
	Yie Liu, PhD, National Institute on Aging/National Institutes of Health, Baltimore, United States The BTB Domain Is Both a Structural and Functional Pivot of the SLX4-Nuclease Complex Questions and answers
11:25 - 11:35	
11.23	States Structure-Function Analyses of Patient-Derived Missense Mutations in the Fanconi Anemia Complementation Group J (FANCJ)
11:35 - 11:40	Questions and answers
11:40 - 11:50	Regulation of the Fanconi Anemia Pathway by the Multi-Step Phosphorylation of the FANCI SQ Cluster
11:50 - 11:55	
11:55 - 12:00	
<b>12:00 - 2:00 Lu</b> Metropolitan Ed	
·	Joint Board of Directors and Scientific Advisory Board Meeting
	Queens Quay Conference Room
12:00 - 2:00	Poster Viewing Available
Hematology: Pa Metropolitan W	ast, Present and Future Vest
Chair: Carlo Du	<b>four, MD</b> i Children's Hospital, Genova, Italy
2:00 - 2:05	Session Overview: Carlo Dufour, MD
2:05 - 2:15	Carlo Dufour, MD, Giannina Gaslini Children's Hospital, Genova, Italy
2.03 2.13	The Effect of Hematopoietic Stem Cell Transplant on Survival Based on Hematological Status at Eligibility to Transplant
2:15 - 2:20	Questions and answers
2:20 - 2:30	Nicholas Khan, MSPH, National Cancer Institute, Rockville, United States
2.20 2.25	Preemptive Bone Marrow Transplantation and Event-Free Survival in Fanconi Anemia
2:30 - 2:35	Questions and answers



2:35 - 2:45	Margaret MacMillan, MD, University of Minnesota, Minneapolis, United States Impact of Hematopoietic Cell Transplantation for Biallelic BRCA2
2:45 - 2:50	Questions and answers
2:50 - 3:00	Arleen Auerbach, PhD, The Rockefeller University, New York, United States Unusual Revertant Mosaicism in Three Siblings Affected with Fanconi Anemia FA-G and Cancer
3:00 - 3:05	Questions and answers
3:05 - 3:15	Susana Navarro, PhD, CIEMAT/CIBERER/IIS-FJD, Madrid, Spain Lentiviral-Mediated Gene Correction of Hematopoietic Progenitors and Repopulating Cells from FA-A Patients Using a Validated GMP Transduction Protocol
3:15 - 3:20	Questions and answers
3:20 - 3:30	Wei Tong, PhD, Children's Hospital of Philadelphia, Philadelphia, United States  Lnk Deficiency Ameliorates Hematopoietic Stem/Progenitor Defects in Fanconi Anemia Mice
3:30 - 3:35	Questions and answers
3:35 - 3:40	Session Wrap-up: Carlo Dufour, MD
3:40 - 4:00	Break
Crosslinks: Convergence of Repair Pathways	
Metropolitan W	/est
Metropolitan W Chair: Nigel Jor	/est
Metropolitan W Chair: Nigel Jor	/est nes, PhD
Metropolitan W Chair: Nigel Jor University of Liv 4:00 - 4:05 4:05 - 4:15	Mes, PhD Merpool, Liverpool, England Session Overview: Nigel Jones, PhD Niyo Kato, PhD Student, Columbia University, New York, United States Recognition and Processing of DNA Interstrand Cross-Links by Mismatch Repair Proteins (MMR)
Metropolitan W Chair: Nigel Jor University of Liv 4:00 - 4:05 4:05 - 4:15	nes, PhD verpool, Liverpool, England Session Overview: Nigel Jones, PhD Niyo Kato, PhD Student, Columbia University, New York, United States Recognition and Processing of DNA Interstrand Cross-Links by Mismatch Repair Proteins (MMR) Questions and answers
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# Experimental Hematology and Small Molecules Metropolitan West Chair: Madeleine Carreau, PhD Laval University, Quebec, Canada 8:00 - 8:05 Session Overview: Madeleine Carreau, PhD 8:05 - 8:15 Stefan Meyer, MD, PhD, FRCPCH, University of Manchester, Manchester, England Perturbation of Age Dependent Gene Expression in Fanconi Anaemia (FA) - a Novel Aspect of the FA Phenotype 8:15 - 8:20 Questions and answers

8:20 - 8:30	Haojian Zhang, PhD, Dana Farber Cancer Institute, Boston, United States
	TGF-beta Pathway Inhibition Rescues the Function of HSPCs Derived from Patients with
8:30 - 8:35	Fanconi Anemia Questions and answers
8:35 - 8:45	Qingshuo Zhang, PhD, Oregon Health & Science University, Portland, United States
0.33 0.43	Dietary Metformin Administration Delayed Tumor Onset and Alleviated Bone Marrow Defects in
8:45 - 8:50	Fanconi Anemia Mice  Questions and answers
8:50 - 8:55	Session Wrap-up: Madeleine Carreau, PhD
8:55 - 9:00	Keynote Introduction: Maureen Hoatlin, PhD, MBA, Oregon Health and Science University,
6.55 - 9.00	Portland, United States
9:00 - 9:40	Patrick Gray, PhD, Omeros, Seattle, United States
	KEYNOTE ADDRESS: Drug Discovery and Development for Novel Targets
9:40 - 9:50	Wrap-up and Rare Disease Organizations and Drug Development: Maureen Hoatlin, PhD, MBA
9:50 - 10:10	Break
<b>Potential New</b>	Roles for FA Proteins
Metropolitan W	/est
<b>Chair: Richard</b>	
	tems Biology, Seattle, United States
	Session Overview: Richard Gelinas, PhD
10:15 - 10:25	Roberta Bottega, PhD, University of Trieste, IRCCS Burlo Garofolo, Trieste, Italy
	Any Direct Role of FANCA in Mitochondria?
	Questions and answers
10:30 - 10:40	Alex Lyakhovich, PhD, International Clinical Research Center of St. Anne's University Hospital,
	Brno, Czech Republic
10.40 10.45	Impaired Mitophagy in Fanconi Anemia Questions and answers
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10:45 - 10:55	Samuel Sondalle, MD/PhD Student, Yale University School of Medicine, New Haven, United
	States A Nucleolar Role for the Fanconi Anemia Pathway Protein, FANCI
10:55 - 11:00	Questions and Answers
11:00 - 12:00	
	Metropolitan West
	- Metropolitan West