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Small Round Cell Sarcomas

Disease Primer 2022

	H&E	Patients /year	5-year surviva	Median age
Ewing sarcoma		150	70% (15- 30%)	15
CIC-rearranged SRCS	g	20	40%	30
BCOR-rearranged SRCS	P	20	75%	17
DSRCT		50	15%	22
	Credit: Cidre-Arar			

Research Interests

Bioengineering, 3D in vitro models, differentiation, sarcoma and rare tumors

Strengths or Unique Resources

Sarcoma clinical specimens (fresh-frozen, FFPE) and PDX models

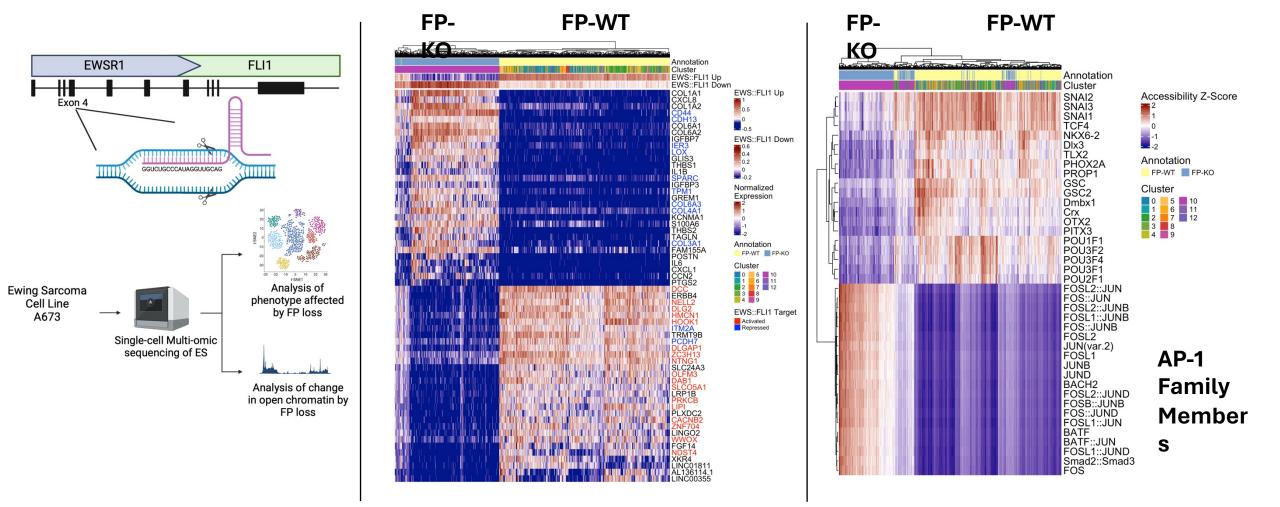
Type of collaborator you seek

Bioengineers, Epigenetics, Bioinformaticians

Publication List



Role of the EWS::FLI1 fusion oncoprotein in differentiation



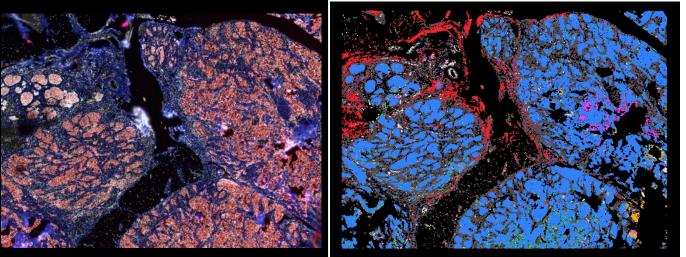
Small Round Cell Sarcoma Landscape

Resources and Expertise

- Single-cell Multiomics
- Sequential Immunofluorescence
- In vitro and In vivo Models
 - Cell Lines
 - PDX

Sequential Immunofluorescence

Spatial Analysis



Questions and needs

- What is the role of the fusion oncoprotein on cell differentiation and fate?
- Can we identify critical gene regulatory networks that can reverse the oncogenic effects of the fusion protein?
- Organoid and 3D culture model for high-throughput drug screening