

September 14

9:00 Conference Introduction/Overview:

- main session presentations are 10 minutes and emphasize mechanistic science: define opportunities for interaction/collaboration. Less emphasis on recent data (refer to publications instead of showing lots of data). Think-tank approach. Highlight key challenges. Science, but highlight opportunities to enhance correlative science and foster creative/nimble trials.

- conference aims: interactivity, deliverables, continuity between annual meetings

9:10–10:10 Session #1: Models: novel approaches + applications

Moderator: D. Wade Clapp (Indiana U) – intro: limitations and opportunities

1a. Roland Imle (Heidelberg) – new models for pediatric sarcoma

1b. Rebecca Dodd (U Iowa) – advances with GEMMs in NF1 sarcomas

1c. Jason Yustein (Emory) – advances with GEMMs in bone sarcomas

Discussion: ~25 min (for all main sessions, might be useful for moderator to restate/show key questions)

10:10–11:20 Session #2: Omics – new twists, new therapeutic challenges

Moderator: Jonathan Fletcher (Harvard) – *Introduction*: 5 min

2a. Lily Guenther (St. Jude's) – functional genomic insights in bone sarcomas

2b. Christine Pratilas (Johns Hopkins) – escape mechanisms for MEK targeting

2c. Keila Torres (MDACC) – epigenetic reprogramming in MPNST

2d. Sebastian Bauer (Essen) – apple mutations in GIST

Discussion: ~25 min

11:10–11:30 BREAK

11:30–12:50 BREAKOUT GROUPS

13:00–13:45 LUNCH

13:45–15:00 Session #3: Sarcoma immune and non-immune interactions

Co-moderator: Troy McEachron (NCI) non-immune microenvironment

3a. Troy McEachron (NCI)

3b. Rosandra Kaplan (NCI) – pre-metastatic niche, stromal microenvironment

Discussion: ~15 min

Co-moderator: Seth Pollack (Northwestern) – altering the sarcoma immune microenvironment for therapy

3c. Lauren Banks (MSKCC) – sarcoma immune microenvironment

3d. Daniel Regan (Colorado State): fibroblasts/macrophages in canine osteosarcoma microenvironment

Discussion: ~15 min

15:00–15:15 BREAK

15:15–16:30 Session #4: Sarcoma metabolism

Moderator: Joanna Przybyl (McGill)

4a. Overview Christine Heske (NCI) – challenges, opportunities

4b. Kathryn Lemberg (Johns Hopkins) – targeting glutamine metabolism

4c. Brian van Tine (Wash U) – preventing arginine starvation from preventing apoptosis

4d. Ben Alman (Duke) – IDH mutation metabolic consequences

Discussion: ~25 min

16:30–17:45 Session #5: Dissecting sarcoma progenitors and evolution

Moderators: Brigitte Widemann & Jack Shern (NCI)

- 5a. Matt van de Rijn (Stanford) – field effects in mesenchymal neoplasia
5b. Ariadna Brito (Toulouse) – cell fusion in sarcomagenesis
5c. Richard Lu (Cincinnati Children's) – MPNST progenitors and evolution
5d. David Langenau (Harvard) – cell heterogeneity and therapy responses in rhabdomyosarcoma
Discussion: ~25 min

18:00–20:30 Poster Session & Dinner

19:30–20:30 Proffered Posters (Moderators/Discussants: Elizabeth Demicco, Lee Helman, Poul Sorensen)

Six posters: 5 min presentations + 30 min total group discussion. Two thematic sessions, each with 3 presentations + 15 min discussion.

September 15

7:30-8:00 Light Breakfast

8:00–9:40 Breakout Group summaries and discussion

(10 min summaries + 15 min discussion per breakout)

9:40–10:00 Break

10:00–11:00 Session #6: Epigenetic mechanisms in sarcoma

Moderator: Benjamin Nacev (U Pittsburgh) – *Introduction: 5 min*

- 6a. Benjamin Nacev (U Pittsburgh) – alterations in epigenetic regulators are common in sarcomas - how can we leverage this to help patients?
6b. Berkley Gryder (CWRU) – small molecules that exploit epigenetic vulnerabilities in AYA sarcomas
6c. Yong Yean Kim (NCI) – epigenetics of fusion oncogene driven sarcomas

Discussion: ~25 min

11:00–12:00 Session #7: BAF dysregulation in sarcoma

Moderator: Kevin Jones (Huntsman) – *Introduction: 5 min*

- 7a. Kevin Jones (Huntsman) – BAF family complexes componentry in synovial sarcoma
7b. Siddhant Jain (Harvard) – structure and function of mammalian SWI/SNF chromatin remodeling complexes in synovial sarcoma
7c. Alex Kentsis (MSKCC) – towards rational epigenetic combination therapy of rhabdoid tumors

Discussion: ~25 min

12:00–12:45 LUNCH

12:45–1:45 Session #8: Reapproaching sarcoma cytotoxicity

Moderator: Rebecca Gladdy (U Toronto) – *Introduction: 5 min*

- 8a. Ping Chi (MSKCC) – enhancing cytotoxicity by viral mimicry
8b. Philipp Novotny (Heidelberg) – enhancing cytotoxicity by RTK inhibition
8c. Adrian Marino-Enriquez (U College Dublin) – enhancing cytotoxicity while reigning in toxicity

Discussion: ~25 min

1:45-2:15 Conclusions and next steps

- conference size, structure, themes, and duration. What should be changed?
- deliverables
- feedback is crucial (drop off evaluation forms before leaving)