



Conference Cochairs:

Mariano Barbacid, Spanish National Cancer Center (CNIO), Madrid, Spain Dafna Bar-Sagi, New York University Langone Medical Center, New York, NY Frank McCormick, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA Deborah K. Morrison, National Cancer Institute, Frederick, MD

[U]= Recording will be unavailable to view on-demand

SUNDAY, MARCH 5, 2023

Registration

3:30 pm-7:30 pm Liberty Ballroom Foyer

Welcome and Opening Keynote Lectures

6:00 pm-7:30 pm Liberty Ballroom

6:00-6:10	Welcome from Conference Cochairs
6:10	Introduction of Keynote Speaker Frank McCormick, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA
6:10 -6:50	Keynote Lecture Targeting KRAS: Light at the end of the tunnel Mariano Barbacid, Spanish National Cancer Center (CNIO), Madrid, Spain
6:50 -7:00	Discussion / Q&A
7:00	Introduction of Rising Star Lecturer Dafna Bar-Sagi, New York University Langone Medical Center, New York, NY
7:00-7:20	Rising Star Lecture Targeting RAS in cancer: Opportunities and challenges Andrew Aguirre, Harvard Medical School, Boston, MA
7:20-7:30	Discussion / Q&A

Opening Reception

7:30 pm-9:00 pm Franklin Hall A

MONDAY, MARCH 6, 2023

Breakfast

7:00 am-8:00 am Franklin Hall A *Short talk selected from proffered abstracts

AACR Special Conference: Targeting RAS

March 5-8, 2023 Philadelphia Marriott Downtown | Philadelphia, PA Program as of May 2, 2023 Page 1 of 7





Plenary Session 1: Biochemistry, Function, and Structure

8:00 am-10:15 am Liberty Ballroom

Session Chair: Frank McCormick, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

8:00-8:25	Treating mutant KRAS tumors with RAS inhibitors, alone of in combination Neal Rosen, Memorial Sloan Kettering Cancer Center, New York, NY
8:25-8:35	Discussion / Q&A
8:35-9:00	Emerging therapeutics shed light on the allosteric regulation of KRAS Piro Lito, Memorial Sloan Kettering Cancer Center, New York, NY
9:00-9:10	Discussion / Q&A
9:10-9:35	Uncovering new structural insights into RAS interactions with effectors and regulators
	Dhirendra K. Simanshu, Frederick National Laboratory for Cancer Research, Frederick, MD
9:35-9:45	Discussion / Q&A
9:45-9:55	Structural plasticity of KRAS oncogenic mutants – a case of misleading conclusions from GTP analogues*
9:55-10:00	Alok K. Sharma, Frederick National Laboratory for Cancer Research, Frederick, MD Discussion / Q&A
10:00-10:10	Factors modulating RAF dimerization downstream of RAS* Jawahar Sudhamsu, Genentech Inc., South San Francisco, CA
10:10-10:15	Discussion / Q&A

Break

10:15 am-10:35 am Liberty Ballroom Foyer

Plenary Session 2: Signaling Networks

10:35 am-12:55 pm Liberty Ballroom

Session Chair: Deborah K. Morrison, National Cancer Institute, Frederick, MD

10:35-11:00	Targeting the ERK-MYC signaling network for the treatment of KRAS-mutant
	cancers
	Channing J. Der, University of North Carolina Lineberger Comprehensive Cancer
	Center, Chapel Hill, NC
11:00-11:10	Discussion / Q&A

^{*}Short talk selected from proffered abstracts



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11:10-11:35	Molecular characterization of acquired resistance to KRAS ^{G12C} —EGFR inhibition in colorectal cancer Sandra Misale, Memorial Sloan Kettering Cancer Center, New York, NY
11:35-11:45	Discussion / Q&A
11:45-12:10	Paradoxical activation of oncogenic signaling as a cancer treatment strategy René Bernards, The Netherlands Cancer Institute, Amsterdam, The Netherlands
12:10-12:20	Discussion / Q&A
12:20-12:45	Direct covalent inhibitors of mutant K-Ras
	Kevan M. Shokat, University of California, San Francisco, CA
12:45-12:55	Discussion / Q&A

Lunch on Own / Free Time

12:55 pm-2:15 pm

Plenary Session 3: Tackling RAS Using a Disease-specific Approach

2:15 pm-4:35 pm Liberty Ballroom

Session Chair: Christin E. Burd, The Ohio State University, Columbus, OH

2:15-2:40	Allelic specificity: The key to NRAS-mutant melanoma initiation? Christin E. Burd, The Ohio State University, Columbus, OH
2:40-2:50	Discussion / Q&A
2:50-3:15	K-RAS hyperexchange mutants in colorectal cancer
	Kevin M. Haigis, Dana-Farber Cancer Institute, Boston, MA
3:15-3:25	Discussion / Q&A
3:25-3:50	Three-dimensional genomic mapping of human pancreatic tissue reveals striking multifocality and genetic heterogeneity in precancerous lesions
	Laura D. Wood, Johns Hopkins University School of Medicine, Baltimore, MD
3:50-4:00	Discussion / Q&A
4:00-4:25	Developing combinatorial therapies for KRAS-mutant cancers
	Karen M. Cichowski, Brigham and Women's Hospital, Boston, MA
4:25-4:35	Discussion / Q&A

Poster Session A / Reception

4:45 pm-7:00 pm Franklin Hall A

TUESDAY, MARCH 7, 2023

*Short talk selected from proffered abstracts

AACR Special Conference: Targeting RAS March 5-8, 2023





Breakfast

7:00 am-8:00 am Franklin Hall A

Plenary Session 4: Metabolism

8:00 am-10:15 am Liberty Ballroom

Session Chair: Dafna Bar-Sagi, New York University Langone Medical Center, New York, NY

8:00-8:25	Identifying metabolic dependencies in pancreatic cancer Alec C. Kimmelman, New York University Langone Medical Center, New York, NY
8:25-8:35	Discussion / Q&A
8:35-9:00	Host autophagy mediates organ wasting and nutrient mobilization for tumor growth [U] Tor Erik Rusten, Norwegian Radium Hospital, Oslo, Norway
9:00-9:10	Discussion / Q&A
9:10-9:35	Coordinated transcriptional and catabolic programs support iron dependent adaptation to RAS-MAPK pathway inhibition in pancreatic cancer Rushika M. Perera, University of California, San Francisco, CA
9:35-9:45	Discussion / Q&A
9:45-9:55	Cooperative anti-tumor effects of combined inhibition of KRAS ^{G12C} plus autophagy in preclinical models of KRAS ^{G12C} -driven lung cancer*
9:55-10:00	Phaedra C. Ghazi, University of Utah, Salt Lake City, UT Discussion / Q&A
10:00-10:10	A bimodal mechanism of RAS inactivation by monoubiquitination* Wout Magits, VIB-KU Leuven Center for Cancer Biology, Leuven, Belgium
10:10-10:15	Discussion / Q&A

Break

10:15 am-10:35 am Liberty Ballroom Foyer

Plenary Session 5: RASopathies / RAS Superfamily

10:35 am-12:15 pm Liberty Ballroom

Session Chair: Marco Tartaglia, Bambino Gesù Children's Hospital, Rome, Italy

10:35-11:00	RASopathies: the other face of RAS signaling upregulation
	Marco Tartaglia, Bambino Gesù Children's Hospital, Rome, Italy
11:00-11:10	Discussion / Q&A

^{*}Short talk selected from proffered abstracts



An AACR Special Conference on Targeting RAS

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[CANCELLED]

Use of RAS isoforms in nerve tumors

Nancy Ratner, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

11:10-11:35	Somatic predisposition to germline mutations in the RTK/RAS/MAPK pathway Anne Goriely, MRC Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, England
11:35-11:45	Discussion / Q&A
11:45-11:55	The role of the RAS GTPase RIT1 in RASopathies and cancer* Pau Castel, New York University School of Medicine, New York, NY
11:55-12:00	Discussion / Q&A
12:00-12:10	Germline RASopathy mutations provide insights into the differential regulation of RAF family kinases*
	Russell Spencer-Smith, National Cancer Institute-Frederick, Frederick, MD
12:10-12:15	Discussion / Q&A

Lunch on Own / Free Time

12:15 pm-2:15 pm

Plenary Session 6: RAS and Tumor Immunity

2:15 pm-4:30 pm Liberty Ballroom

Session Chair: Julian Downward, The Francis Crick Institute, London, England

2:15-2:40	Oncogenic KRAS and the regulation of the pancreatic cancer microenvironment Marina Pasca di Magliano, University of Michigan Medical School, Ann Arbor, MI
2:40-2:50	Discussion / Q&A
2:50-3:15	The impact of RAS inhibition on tumor immune evasion Julian Downward, The Francis Crick Institute, London, England
3:15-3:25	Discussion / Q&A
3:25-3:50	Immune rewiring of mutant Ras tumors: Mechanisms and translational implications
	Dafna Bar-Sagi, New York University Langone Medical Center, New York, NY
3:50-4:00	Discussion / Q&A
4:00-4:10	How oncogenic Kras shapes the tumor microenvironment in lung adenocarcinoma*
	Rachael K. Baliira, University of Michigan, Ann Arbor, MI
4:10-4:15	Discussion / Q&A
Short talk selected fro	m proffered abstracts

^{*}Short talk selected from proffered abstracts





4:15-4:25 TCR1020 specific for KRAS G12V restricted to HLA-A*11:01 exhibits potent and precise antigen specificity for clinical development*

Adham S. Bear, University of Pennsylvania, Philadelphia, PA

4:25-4:30 Discussion / Q&A

Poster Session B / Reception

4:45 pm-7:00 pm Franklin Hall A

WEDNESDAY, MARCH 8, 2023

Breakfast

8:00-8:25

7:00 am-8:00 am Franklin Hall A

Plenary Session 7: Targeting RAS

8:00 am-9:40 am Liberty Ballroom

Session Chair: David A. Tuveson, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

8.00-8.23	Shiva Malek, Novartis Institutes for BioMedical Research, Cambridge, MA
8:25-8:35	Discussion / Q&A
8:35-9:00	Selectively targeting KRAS mutant alleles: contribution of both cell autonomous and pro-immunogenic MOAs in an expanded spectrum of human cancers James G. Christensen, Mirati Therapeutics, San Diego, CA
9:00-9:10	Discussion / Q&A
9:10-9:20	KRAS-targeted PROTAC degraders are broadly efficacious against KRAS-dependent tumor models* Kathryn Smith, Arvinas Operations, Inc., New Haven, CT
9:20-9:25	Discussion / Q&A
9:25-9:35	IK-595, a MEK-RAF complex inhibitor, obviates CRAF mediated resistance resulting in superior RAS/MAPK pathway inhibition and anti-tumor activity in RAS/RAF altered cancers*
9:35-9:40	X. Michelle Zhang, Ikena Oncology, Boston, MA Discussion / Q&A
J.JJ-Y.4U	DISCUSSION / YOR

Challenges and opportunities in treating KRAS mutant tumors [U]

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9:40 am-10:00 am Liberty Ballroom Foyer

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^{*}Short talk selected from proffered abstracts





Plenary Session 8: Resistance Mechanisms and Emerging Clinical Data

10:00 am-11:45 am Liberty Ballroom

Session Chair: Mariano Barbacid, Spanish National Cancer Center (CNIO), Madrid, Spain

10:00-10:25	KRAS ^{G12C} inhibitors- Becoming "Therapeutic": Lesson from the bedside Melissa L. Johnson, Sarah Cannon Research Institute, Nashville, TN
10:25-10:35	Discussion / Q&A
10:35-11:00	Systemic interrogation of KRAS function William C. Hahn, Dana-Farber Cancer Institute, Boston, MA
11:00-11:10	Discussion / Q&A
11:10-11:35	Exploiting altered metabolism as a therapeutic strategy for RAS-driven cancers Kirsten L. Bryant, University of North Carolina Lineberger Comprehensive Cancer Center, Chapel Hill, NC
11:35-11:45	Discussion / Q&A

Break

11:45 am-12:00 pm

Closing Keynote Lecture

12:00 pm-12:50 pm Liberty Ballroom

12:00	Introduction of Keynote Speaker Mariano Barbacid, Spanish National Cancer Center (CNIO), Madrid, Spain
12:00-12:40	Beating KRAS- it's a Toreo
	David A. Tuveson, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
12:40-12:50	Discussion / Q&A

Closing Remarks and Departure

12:50 pm Liberty Ballroom

Dafna Bar-Sagi, New York University Langone Medical Center, New York, NY

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