



Longwood
SEMINARS

Cancer Metabolism: From molecules to medicine

March 27, 2019

It takes years to discover and develop medication. But what does this long-term, complicated process actually involve? In this seminar, Harvard Medical School scientists and researchers will follow the molecular pathways related to cancer metabolism to help us understand the progress being made in the search for new and effective cancer treatments.

#HMSMiniMed

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About the Speakers

About the speakers:

Marcia Haigis, PhD



Dr. Haigis is professor of cell biology in the Blavatnik Institute at Harvard Medical School. She is a member of the Paul F. Glenn Center for the Biology of Aging and the Ludwig Center at Harvard Medical School. Her research has led her to discoveries connecting sirtuin function to mitochondrial metabolism. Her Lab continues to understand the role mitochondria plays in human aging and age associated diseases. Haigis has received a Brookdale Leadership in Aging Fellowship and the Ellison Medical Foundation New Scholar Award, among other honors and awards.

Brendan Manning, PhD



Dr. Manning is professor of genetics and complex diseases and director of the PhD program in Biological Sciences in Public Health at the Harvard T.H. Chan School of Public Health. Research in his lab is aimed at delineating how signals from nutrients and growth factors are propagated to coordinately regulate nutrient metabolism, with implications in a wide variety of complex human diseases. Research efforts are focused in part on defining the regulatory mechanisms and functions of the PI3K-mTOR signaling network, which senses and relays signals from nutrients and other growth cues to control key metabolic processes in cells and tissues.

Nabeel Bardeesy, PhD



Dr. Bardeesy is Harvard Medical School associate professor of medicine, assistant geneticist in the Center for Cancer Research and the Gallagher Endowed Chair of Gastrointestinal Cancer Research at Massachusetts General Hospital. His lab focuses on the interface of metabolism and epigenetic reprogramming in pancreatic and biliary cancers and has developed a genetically engineered mouse models of these human cancer types.



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Supplemental Reading

Articles

Turning Cancer On Itself

Harvard Medical School News

Khalid Shah (HMS) is quoted

<https://hms.harvard.edu/news/turning-cancer-itself>

Direct Actions Found for Very Important Protein

Harvard Medical School News

Brendan Manning (HSPH) is quoted

<https://hms.harvard.edu/news/direct-actions-found-very-important-protein>

Teaching T cells to fight cancer

Harvard Health Publishing

Caron Jacobson (HMS) is quoted

<https://www.health.harvard.edu/cancer/teaching-t-cells-to-fight-cancer>

Videos

Therapeutic Innovation

Harvard Medical School

<https://www.youtube.com/watch?v=GoJsr4lwCm4>

Further information can be found at [Harvard Health Publications](https://www.health.harvard.edu/) (<https://www.health.harvard.edu/>).

Sign up for [Harvard Medicine News](https://hms.harvard.edu/news/sign-email-communications) (<https://hms.harvard.edu/news/sign-email-communications>) to receive weekly updates on scientific research, medical education and community news from Harvard Medical School.

Sign up to receive future issues of [Harvard Medicine](https://hms.harvard.edu/news/sign-email-communications) (<https://hms.harvard.edu/news/sign-email-communications>). The magazine of Harvard Medical School presents topics ranging from space-based medical research to climate change and human health. The magazine captures the work of the HMS faculty, students, and alumni and illuminates their contributions to human health.



The 2019 Longwood Seminars supplemental reading materials will be available online at hms.harvard.edu/minimedschool. For your convenience, listed below are locations of Boston Public Library branches where you can also access the reading packet online.

Allston/Brighton

Brighton Branch

40 Academy Hill Rd., Brighton, MA 02135
617.782.6032

Honan-Allston Branch

300 N. Harvard St. Allston, MA 02134
617.787.6313

Charlestown

Charlestown Branch

179 Main St., Charlestown, MA 02129
617.242.1248

Dorchester

Fields Corner Branch

1520 Dorchester Ave., Dorchester, MA
02122
617.436.2155

Downtown Boston

Central Library

700 Boylston St., Boston, MA 02116
617.536.5400

East Boston

East Boston Branch

365 Bremen St., East Boston, MA 02128
617.569.0271

Hyde Park

Hyde Park Branch

35 Harvard Ave., Hyde Park, MA 02136
617.361.2524

Jamaica Plain

Jamaica Plain Branch

30 South St, Jamaica Plain, MA 02130
617.524.2053

Mattapan

Mattapan Branch

1350 Blue Hill Ave., Mattapan, MA 02126
617.298.9218

Roslindale

Roslindale Branch

4246 Washington St., Roslindale, MA 02131
617.323.2343

Roxbury

Parker Hill Branch

1497 Tremont St., Roxbury, MA 02120
617.427.3820

South Boston

South Boston Branch

646 East Broadway, South Boston, MA 02127
617.268.0180

West Roxbury

West Roxbury Branch

1961 Centre St., West Roxbury, MA 02132
617.325.3147

More Boston Public Library branches can be found online at:

http://www.bpl.org/branches/index_by_neighborhood.htm or by calling 617.536.5400