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
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).


Sign up to receive future issues of Harvard Medicine (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](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.

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<tr>
<td>Allston/Brighton</td>
<td>Brighton Branch</td>
<td>40 Academy Hill Rd., Brighton, MA 02135</td>
<td>617.782.6032</td>
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<td>Honan-Allston Branch</td>
<td>300 N. Harvard St., Allston, MA 02134</td>
<td>617.787.6313</td>
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<tr>
<td>Jamaica Plain</td>
<td>Jamaica Plain Branch</td>
<td>30 South St, Jamaica Plain, MA 02130</td>
<td>617.524.2053</td>
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<td>Charlestown</td>
<td>Charlestown Branch</td>
<td>179 Main St., Charlestown, MA 02129</td>
<td>617.242.1248</td>
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<td>Mattapan</td>
<td>Mattapan Branch</td>
<td>1350 Blue Hill Ave., Mattapan, MA 02126</td>
<td>617.298.9218</td>
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<td>Dorchester</td>
<td>Fields Corner Branch</td>
<td>1520 Dorchester Ave., Dorchester, MA 02122</td>
<td>617.436.2155</td>
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<td>Roslindale</td>
<td>Roslindale Branch</td>
<td>4246 Washington St., Roslindale, MA 02131</td>
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<td>Downtown Boston</td>
<td>Central Library</td>
<td>700 Boylston St., Boston, MA 02116</td>
<td>617.536.5400</td>
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<td>1497 Tremont St., Roxbury, MA 02120</td>
<td>617.427.3820</td>
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<td>646 East Broadway, South Boston, MA 02127</td>
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<td>35 Harvard Ave., Hyde Park, MA 02136</td>
<td>617.361.2524</td>
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<td>West Roxbury</td>
<td>West Roxbury Branch</td>
<td>1961 Centre St., West Roxbury, MA 02132</td>
<td>617.325.3147</td>
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More Boston Public Library branches can be found online at [http://www.bpl.org/branches/index_by_neighborhood.htm](http://www.bpl.org/branches/index_by_neighborhood.htm) or by calling 617.536.5400.