

THE

University of Vermont

C A N C E R C E N T E R

The eALERT is an internal newsletter sent semi-monthly.
Please send submissions for the eALERT to [Sarah Keblin](#) by 4 PM Wednesday for
submission in the current issue.

February 2, 2017

Research Program Meetings: February 15

RESCHEDULED: NCI Director to present Juckett Lecture on May 12

SAVE THE DATE: Mini Research Symposium and Research Showcase

Reproducibility Study in eLife

TDT Meeting Schedules Available Online

Rally Against Cancer Games

Evening Fundraiser for Research and Hope Lodge: SAVE THE DATE

Publications and Announcements

Funding Opportunities

Ongoing Events

Event Spotlight

February 15, 2017

Research Program Meeting
hosted by **Molecular Mechanisms of Malignancy (MMM)**

4-5 PM
Larner Classroom
(near Dana Medical Library)

featuring
Jessica Heath, MD and
Seth Freitze, PhD
with a talk on their active ACS/IRG project looking at novel treatment for high-risk leukemias

"IKAROS regulates higher--order chromatin structure in pre-B ALL"

Events Calendar

Research Program Meeting: Feb. 15



Jessica Heath, MD

The Molecular Mechanisms of Malignancy research program meeting will host a meeting on Wednesday, February 15 from 4-5 PM in the Larner Classroom of the Larner College of Medicine. The meeting will feature a talk by Jessica Heath, MD and Seth Freitze, PhD on their ongoing ACS IRG project titled "IKAROS regulates higher-order chromatin structure in pre-B ALL," looking at novel treatment for high-risk leukemias.

The meeting is meant to be a forum to advance new



February 2017

*National Cancer
Prevention Month*

4 UVM Athletics Rally Against Cancer: Women's Basketball, 2 PM vs. Hartford; \$2 admission if you wear pink!!!

6 UVM Athletics Rally Against Cancer: Men's Basketball, 7 PM vs. Binghamton.

7 UVM Cancer Center Grand Rounds, "Advanced cutaneous melanoma: Immunotherapy resistance and impact of BRAF, MEK therapy on immune checkpoint therapy," featuring Bhargavi Pulluri, MD; 7:30-8:30 AM.

11 UVM Rally Against Cancer: Men's Hockey, 7:05 PM vs. University of New Hampshire.

15 UVM Cancer Center Research Program Meeting hosted by Molecular Mechanisms of Malignancy (MMM); featuring a talk by Jessica Heath, MD and Seth Frieze, PhD on their active ACS IRG project looking at novel treatments for high-risk leukemias; Lerner Classroom, 4-5 PM.

17 Dept. of Biochemistry Seminar featuring Jos van der Velden, PhD: "GSTP1-Catalyzed PKM2 S-Glutathionylation Regulates Glycolysis in Non-Small Cell Lung Cancer;" HSRF 400 12-1 PM.

ideas, Seth Frieze, PhD collaborations and ongoing projects through discussion and feedback. Please come ready to participate! Refreshments will be served and attendance will be taken.

If you have questions or suggestions for the meeting please contact one of the program leaders, [Janet Stein](#), PhD or [Marc Greenblatt](#), MD.

NEW DATE! Director of NCI to present Juckett Lecture: May 12, 2016



Douglas Lowy, MD

Acting director of the National Cancer Institute (NCI), Douglas R. Lowy, MD, will be presenting a J. Walter Juckett Distinguished Lecture on **Friday, May 12, 2017 from 4-5 PM (rescheduled from February 6)** in Davis Auditorium followed by a reception. Lowy will be at UVM to speak about his decades-long research on the papillomavirus. To learn more about Dr. Lowy or his research, [click here](#).

17 UVM Rally Against Cancer: Women's Hockey, 7 PM vs. Merrimack; \$2 admission if you wear pink!

April 2017

*National Cancer Control Month
Oral, Head and Neck Cancer
Awareness Month*

7 UVM Cancer Center Research Mini Symposium: Cancer Research Showcase.

7 Community Fundraising Event to benefit the UVM Cancer Center: *Spring into Summer*; MORE INFORMATION TO COME.

May 2017

*Cancer Research Month
National Skin Cancer
Detection/Prevention Month
Bladder Cancer Awareness Month*

5-7 [Stowe Weekend of Hope](#)

12 J. Walter Juckett Lecture featuring acting NCI Director Douglas Lowy, MD; 4-5 PM, Davis Auditorium (space will be limited), followed by a reception.

15 SAVE THE DATE: 2017 Northeast Regional Genome Instability and Cancer Meeting; hosted by Dartmouth.

Please be sure to save-the-date for this special visit!

Questions? Please email [Jacqueline Lawler](#).

Cancer Research Mini Symposium: April 7, 2017

Save the Date! The UVM Cancer Center will host a mini research symposium on **Friday, April 7** from 8 AM to noon in the Larner Classroom of the Larner College of Medicine. The event will feature a cancer research showcase with opportunities to engage with colleagues around current and ongoing research.

A call for presenters and posters will be announced soon.

First Results from Reproducibility Project Published

A new publication in *eLife* "Reproducibility in cancer biology: Making sense of replications," suggests scope for improving replicability in pre-clinical cancer research.

[Read more here!](#)

Transdisciplinary Team (TDT) Meeting Schedules

Questions: Arminja.N.Kettenbach@dartmouth.edu

June 2017

*National Cancer Survivor's Day
(June 4)*

24 Community Fundraising Event to benefit cancer research at the UVM Cancer Center AND Hope Lodge; 6-11 PM, Sheraton, Burlington; for more information, please contact [Manon O'Connor](mailto:Manon.O'Connor@uvm.edu).

October 2017

*Breast cancer awareness month
Liver cancer awareness month*

6 SAVE THE DATE: 20th Annual Women's Health and Cancer Conference

November 2017

*Lung cancer awareness month
Pancreatic cancer awareness month*

3 SAVE THE DATE: 3rd Annual Men's Health and Cancer Conference

Current information about Transdisciplinary Team meetings can now be found online [here](#).

The UVM Cancer Center will send agendas to members, if available, one week ahead of scheduled meetings to facilitate participation by members.



Interdisciplinary Planning for TDTs in 2016

Winter 2017 Rally Against Cancer

UVM Athletics has announced the slate of Rally Against Cancer games for winter 2017, including Men's and Women's basketball and hockey. The games, also known as "pink games," are meant to raise funds and awareness for cancer research happening at the UVM Cancer Center.

- **Women's Basketball:**
Saturday February 4th @ 2:00 p.m. vs. Hartford \$2
ADMISSION IF YOU WEAR PINK!

- **Men's Basketball:** Monday February 6th @ 7:00 p.m. vs. Binghamton
- **Men's Hockey:** Saturday February 11th @ 7:05 p.m. vs. University of New Hampshire
- **Women's Hockey:** Friday February 17th @ 7:00 p.m. vs. Merrimack; \$2 ADMISSION IF YOU WEAR PINK!

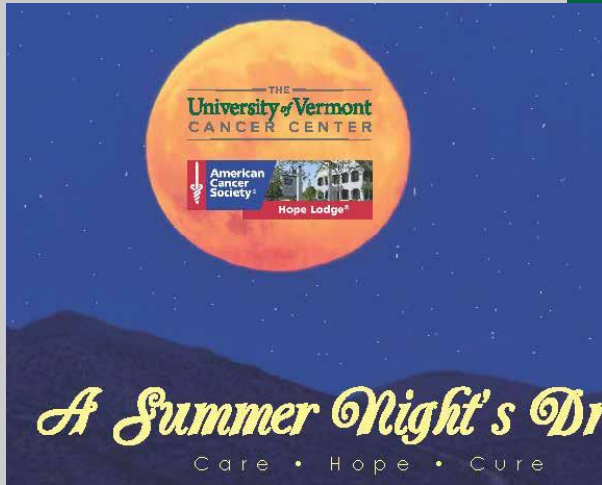


UVM Women's Hockey Rallying Against Cancer

Evening Fundraiser **SAVE THE DATE!**

SAVE THE DATE! Community organizers will host an evening fundraiser on **Saturday, June 24** to benefit both Hope Lodge and research efforts at the UVM Cancer Center!

For more information, contact [Manon O'Connor](#).



Publications and Announcements

Please send announcements and publication notices to [Sarah Keblin](#) for inclusion in the eALERT and other promotional material

Announcements:

Jan Carney, MD, MPH, was awarded the Crystal Heart Award from the American Heart Association at the recent Go Red for Women Luncheon. The award recognizes her commitment to being an "advocate, volunteer and role model for improving the health of the community." To learn more, [click here](#).

Publications:

[Value Analysis of Digital Breast Tomosynthesis for Breast Cancer](#)

[Screening in a US Medicaid Population.](#) Miller JD, Bonafede MM, **Herschorn SD**, Pohlman SK, Troeger KA, Fajardo LL. J Am Coll Radiol. 2017 Jan 26. pii: S1546-1440(16)31328-X. doi: 10.1016/j.jacr.2016.11.019. [Epub ahead of print] PMID: 28139412.

[Profiling of human epigenetic regulators using a semi-automated real-time qPCR platform validated by next generation sequencing.](#) Dudakovic A, Gluscevic M, Paradise CR, Dudakovic H, Khani F, Thaler R, Ahmed FS, Li X, Dietz AB, **Stein GS**, Montecino MA, Deyle DR, Westendorf JJ, van Wijnen AJ. Gene. 2017 Jan 26. pii: S0378-1119(17)30041-0. doi: 10.1016/j.gene.2017.01.019. [Epub ahead of print] PMID: 28132772.

[The role of sulfenic acids in cellular redox signaling: Reconciling chemical kinetics and molecular detection strategies.](#) Heppner DE, **Janssen-Heininger YM, van der Vliet A.** Arch Biochem Biophys. 2017 Jan 23. pii: S0003-9861(16)30581-1. doi: 10.1016/j.abb.2017.01.008. [Epub ahead of print] PMID: 28126370.

[Risk-adjustment methods for all-payer comparative performance reporting in Vermont.](#) Finison K, Mohlman M, **Jones C**, Pinette M, Jorgenson D, Kinner A, Tremblay T, Gottlieb D. BMC Health Serv Res. 2017 Jan 19;17(1):58. doi: 10.1186/s12913-017-2010-0. PMID: 28103923.

[Two Phase 1 dose-escalation studies exploring multiple regimens of litronesib \(LY2523355\), an Eg5 inhibitor, in patients with advanced](#)

[cancer](#). Infante JR, Patnaik A, **Verschraegen CF**, Olszanski AJ, Shaheen M, Burris HA, Tolcher AW, Papadopoulos KP, Beeram M, Hynes SM, Leohr J, Lin AB, Li LQ, McGlothlin A, Farrington DL, Westin EH, Cohen RB. Cancer Chemother Pharmacol. 2017 Jan 17. doi: 10.1007/s00280-016-3205-5. [Epub ahead of print] PMID: 28097385.

[Family history of breast cancer, breast density, and breast cancer risk in a U.S. breast cancer screening population](#). **Ahern TP, Sprague BL**, Bissell MC, Miglioretti DL, Buist DS, Braithwaite D, Kerlikowske K. Cancer Epidemiol Biomarkers Prev. 2017 Jan 17. pii: cebp.0801.2016. doi: 10.1158/1055-9965.EPI-16-0801. [Epub ahead of print] PMID: 28096200.

[Accuracy is in the Eyes of the Pathologist: The Visual Interpretive Process and Diagnostic Accuracy with Digital Whole Slide Images](#). Bruny  TT, Mercan E, **Weaver DL**, Elmore JG. J Biomed Inform. 2017 Jan 10. pii: S1532-0464(17)30004-7. doi: 10.1016/j.jbi.2017.01.004. [Epub ahead of print] PMID: 28087402.

[The lower alkyl methacrylates: Genotoxic profile of non-carcinogenic compounds](#). **Albertini RJ**. mRegul Toxicol Pharmacol. 2017 Jan 11;84:77-93. doi: 10.1016/j.yrtph.2017.01.001. [Epub ahead of print] PMID: 28087335.

[MODERATE-INTENSITY RESISTANCE EXERCISE ALTERS SKELETAL MUSCLE MOLECULAR AND CELLULAR](#)

[STRUCTURE AND FUNCTION IN INACTIVE, OLDER ADULTS WITH KNEE OSTEOARTHRITIS.](#) Miller MS, Callahan DM, Tourville TW, Slauterbeck JR, Kaplan A, Fiske BR, Savage PD, Ades PA, Beynnon BD, **Toth MJ**. J Appl Physiol (1985). 2017 Jan 12:jap.00830.2016. doi: 10.1152/jappphysiol.00830.2016.

[Physical Activity and the Hippocampus in Older Adults.](#) **Dumas JA**. Am J Geriatr Psychiatry. 2016 Dec 9. pii: S1064-7481(16)30334-7. doi: 10.1016/j.jagp.2016.12.005. [Epub ahead of print] No abstract available. PMID: 28082017.

[Mantle Cell Lymphoma Presenting as a Subcutaneous Soft Tissue Mass With an Unusual Appearance.](#) Cherukuri AR, Kalia V, Sturtevant NV, **DeStigter KK**. Ultrasound Q. 2017 Jan 9. doi: 10.1097/RUQ.0000000000000265. [Epub ahead of print] No abstract available. PMID: 28081018.

[Chromatin Dynamics Regulate Mesenchymal Stem Cell Lineage Specification and Differentiation to Osteogenesis.](#) Wu H, **Gordon JA**, Whitfield TW, Tai PW, van Wijnen AJ, **Stein JL, Stein GS, Lian JB**. Biochim Biophys Acta. 2017 Jan 8. pii: S1874-9399(17)30008-1. doi: 10.1016/j.bbagrm.2017.01.003. [Epub ahead of print] PMID: 28077316.

[Internal mammary sentinel lymph node biopsy in clinical practice.](#) Asadi M, **Krag D**. Int J Surg. 2016 Dec;36(Pt A):332-334. doi: 10.1016/j.ijсу.2016.11.034. PMID: 27856352.

[When Clinical Trial Participation Is Not an Option in the Era of Personalized Medicine: The Case of Two Patients.](#)

Verschraegen CF, Rehman H, Pulluri B, DeKay J, **Barry M**, **Folefac E**, **Dittus K**, **Holmes C**, **Sprague J**, **Ades S**, **Gibson PC**. *Oncology*. 2017;92(1):55-60. doi: 10.1159/000450712. PMID: 27820931.

Funding Opportunities

UVM FUNDING:

[Larner College of Medicine Internal Grant and Bridge Support funding opportunities announced](#); multiple deadlines.

[SPARK-VT announces 2017 Awards](#); awards range from \$20,000 to \$50,000 and recognize innovative projects and ideas that have a high commercialization potential. Completed PDF applications must be emailed to sparkvt@uvm.edu **no later than midnight, February 24, 2017**

NEW FUNDING OPPORTUNITIES:

[Department of Defense \(DOD\) office of Congressionally Directed Medical Research Programs \(CDMRP\) Pre-Announcements](#) for research program in [Ovarian Cancer](#) and other areas. Pre-

announcements include descriptions, eligibility, key mechanism elements, and funding information. **Full program announcements are expected later in February.**

[National Science Foundation \(NSF\) - United States-Israel Binational Science Foundation \(BSF\) Awards](#)

supporting collaborations between American and Israeli scientists in the areas of:

- **[Geobiology and Low-Temperature Geochemistry, Geomorphology and Land Use Dynamics, Hydrologic Sciences, Sedimentary Geology, and Ceramics and Condensed Matter and Materials Theory \(CMMT\)](#)** for research in Earth Sciences core programs including Geophysics, Petrology and Geochemistry, Tectonics, and Geobiology and Low-Temperature Geochemistry. **Preliminary Proposals due various dates beginning February 2017.**

National Cancer Institute/NIH/DHHS PAR-17-093 [Academic-Industrial Partnerships to Translate and Validate in vivo Cancer Imaging Systems \(R01\)](#) to stimulate translation of scientific discoveries and engineering developments in imaging or spectroscopic technologies into methods or tools that address problems in cancer biology, risk of cancer development, diagnosis, treatment, and/or disease status.

Next Deadline March 1, 2017 with subsequent deadlines through September 2019.

[Brisben \(Patty\) Foundation for Women's Sexual Health Grants Program](#); awards of up to \$100,000 supporting research on Intimacy-Related Sexual Dysfunction after Cancer Diagnosis/Treatments. Next deadline **March 10, 2017**.

[United States-Israel Binational Science Foundation \(BSF\) Awards](#) supporting collaborations between American and Israeli scientists in the areas of:

- [Transformative Science Awards](#), for Research driven by ideas that have potential to radically change our understanding of an important scientific concept, or lead to the creation of a new paradigm, or a new field of science. **Deadline for pre-proposals is April 27, 2017.**
- [Prof. Rahamimoff Travel Grants for Young Scientists](#) providing \$4,000 to young American or Israeli researchers to visit the other country. **Deadline for application submission is Tuesday, April 25, 2017 at 5 pm Israel time.**

[Pardee \(Elsa U.\) Foundation Research Grants](#); one year awards of up to \$200,000 directed toward identifying new treatments or cures for cancer by supporting new cancer researchers or new cancer approaches by established cancer researchers. Next deadline **April 30, 2017**.

[Office of Research Infrastructure Programs/NIH/DHHS Instrumentation Grants](#)

- **PAR-17-074 [Shared Instrumentation Grant \(SIG\) Program \(S10\)](#)**; up to \$600,000 for the purchase or upgrade a single item of expensive, specialized, commercially available instruments or integrated systems that costs at least \$50,000. Supported instrumentation includes (but is not limited to) X-ray diffractometers, mass and nuclear magnetic resonance (NMR) spectrometers, DNA and protein sequencers, biosensors, electron and light microscopes, cell sorters, and biomedical imagers. **Deadline May 31, 2017.**
- **PAR-17-075 [Shared Instrumentation for Animal Research \(SIFAR\) Grant Program \(S10\)](#)**; up to \$750,000 for the purchase or upgrade scientific instruments necessary to carry out animal experiments in all areas of biomedical research supported by the NIH. Applicants may request clusters of commercially available instruments configured as specialized integrated systems or as series of instruments to support a thematic workflow in a well-defined area of research using animals or related materials. **Deadline May 31, 2017.**

- **PAR-17-076 [High-End Instrumentation \(HEI\) Grant Program \(S10\)](#)**; up to \$2,000,000 for the purchase or upgrade a single item of expensive, specialized, commercially available instruments or integrated systems that costs at least \$600,001. Supported instrumentation includes (but is not limited to) X-ray diffraction systems, nuclear magnetic resonance (NMR) and mass spectrometers, DNA and protein sequencers, biosensors, electron and confocal microscopes, cell-sorters, and biomedical imagers. **Deadline May 31, 2017.**

[National Cancer Institute/NIH/DHHS PA-17-110 Reducing Overscreening for Breast, Cervical, and Colorectal Cancers among Older Adults \(R01\) and R21](#), funding research on interventions, based in healthcare settings, designed to reduce overscreening.

Next Deadline: June 5, 2017 (R01) and **June 19, 2017 (R21)** with subsequent deadlines through October 2019.

UPCOMING DEADLINES:

American Society of Colon and Rectal Surgeons (ASCRS) [Career Development Award](#) ; \$150,000 over two years to support the initiation and development of an academic career in colorectal surgery.

Intended for the academic investigator demonstrating significant creativity in research relevant to the pathophysiology or management of diseases of the small bowel, colon, rectum, or anus.

Deadline March 1, 2017.

Melanoma Research Foundation

- [Career Development Award \(CDA\)](#); \$100,000 over two years to support researchers who are beginning a research career focused on melanoma and have not yet established strong federal funding for their research. **Deadline March 1, 2017.**
- [Established Investigator Awards \(EIA\)](#); \$200,000 over two years to support established melanoma researchers, or senior researchers working in closely related fields who wish to move into melanoma research. **Deadline March 1, 2017.**

National Cancer Institute/NIH/DHHS PAR-15-092
[Exploratory/Developmental Grants Program for Basic Cancer Research in Cancer Health Disparities \(R21\)](#) \$275,000 over two years to support pilot and feasibility studies designed to investigate biological/genetic bases of cancer disparities.

Next Deadline June 19, 2017.

Ongoing Events

Cancer Biology and Technology Seminar Series (an integrated part of the Biochemistry Seminar Series)
Second Friday of each month at Noon,
Given C443.

UVM Cancer Center Grand Rounds
1st, 2nd, 3rd, 5th
Tuesday 8-9am, MedEd 300

UVM Cancer Center Leadership:
Gary S. Stein, PhD, Director
Claire F. Verschraegen, MD, Deputy Director
Kate Webster, CRA, Research Center Administrator
Sarah Keblin, Communications Manager