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2017 - 05616

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A close-up photograph of a chef's hands as they garnish a dish of colorful, stuffed bell peppers. The peppers are filled with a mixture of rice, diced vegetables like red bell peppers and onions, and herbs. The chef is using a small pair of tweezers to place fresh green herbs onto the top of the peppers. In the background, another plate of food is visible, and the overall lighting is warm and focused on the dish.

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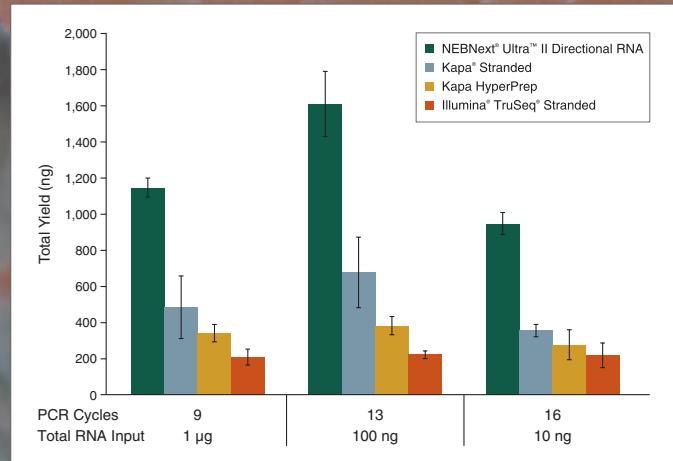
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Poly(A)-containing mRNA was isolated from 10 ng, 100 ng and 1 µg of Universal Human Reference RNA (Agilent[®] #740000) and libraries were made using the NEBNext Ultra II Directional RNA Kit (plus the NEBNext poly(A) mRNA Magnetic Isolation Kit), Kapa Stranded mRNA-Seq Kit, Kapa mRNA HyperPrep Kit and Illumina TruSeq Stranded mRNA Kit. The input RNA amount and number of PCR cycles are indicated.

Former Grand Prize winner pays tribute to strong scientific mentorship

Although initially doubting her chances of winning, Allison Cleary applied for the *Science & SciLifeLab Prize for Young Scientists*. Outstanding work in cancer biology won her the Grand Prize and contributed to her earning an attractive residency position. In hindsight, Allison emphasizes her spurring PhD advisor as a major success factor.

Allison Cleary was awarded the *Science & SciLifeLab Prize for Young Scientists* in 2015 for the essay describing her doctoral project on interactions between genetically distinct tumor cell subpopulations within individual breast cancers. Together with the three category winners from the same year, she was invited to Sweden in December to receive her award and to participate in an event week celebrating science on several levels.

"Of course it was incredible to participate in the Nobel festivities. It really is a once in a lifetime experience, especially for young scientists", Allison says. "My favorite part of the event week, though, was the award ceremony and banquet for our prize. Set in the beautiful and historically meaningful Hall of Mirrors, the whole event was so elegant and made me feel so honored. Just a perfect night".

After receiving the *Science & SciLifeLab Prize for Young Scientists*, Allison completed medical school and started her residency training in pathology as an MD-PhD at the Brigham and Women's Hospital in Boston, USA. At the end of the program, there will be a formal post-doctoral period, as she gets ready to transition back into science and start her own research program.

"Doing my residency here is fabulous for somebody like me, who's fascinated by cancer biology", Allison declares. It's been so interesting to be able to examine patients' individual tumors and

appreciate how they behave and respond to treatments and how everything relates back to the underlying genetics of the tumors. I think, ultimately, this work is going to help me be a better scientist when the time comes."

Allison's experience winning this prize has influenced her career in a very positive way.

"It has absolutely brought a lot of exposure to me and to my research, which is wonderful", she says. "I also think it went a long way in helping me to get my current position."

At first, Allison was not even going to apply for the prize, as she did not think she had a chance at winning. However, support from her PhD advisor Edward Gunther convinced her otherwise.

"I'm really thankful to him for encouraging me to submit the essay", she says. "And I'm so glad that I did! You really have nothing to lose, but get to have the experience of a lifetime if you win. My former advisor's enthusiasm is also what got me interested in cancer biology. I think it makes all the difference to have good advisors in

research, as strong mentorship is essential when you're early on in your career. I hope to someday have my own mentee. I would really enjoy that."

Science & SciLifeLab Prize for Young Scientists

An annual award instated by *Science* magazine/AAAS and SciLifeLab, a Swedish national center for molecular biosciences, in order to promote young scientists and recognize excellent PhD thesis work. The prize is enabled by the kind support of the Knut and Alice Wallenberg Foundation.

scienceprize.scilifelab.se



Dr. Allison Cleary received the *Science & SciLifeLab Prize for Young Scientists* in 2015 and is now doing her MD-PhD residency training at the Brigham and Women's Hospital in Boston, USA.

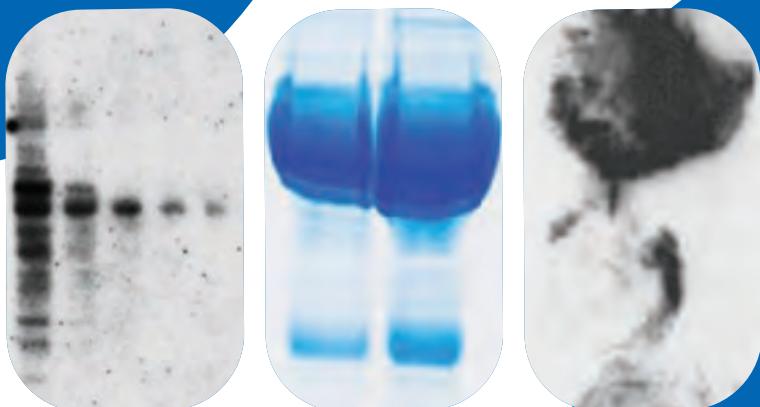
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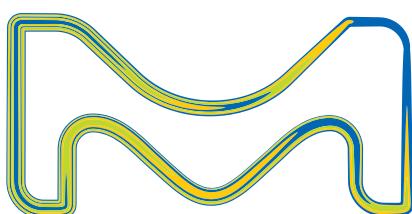
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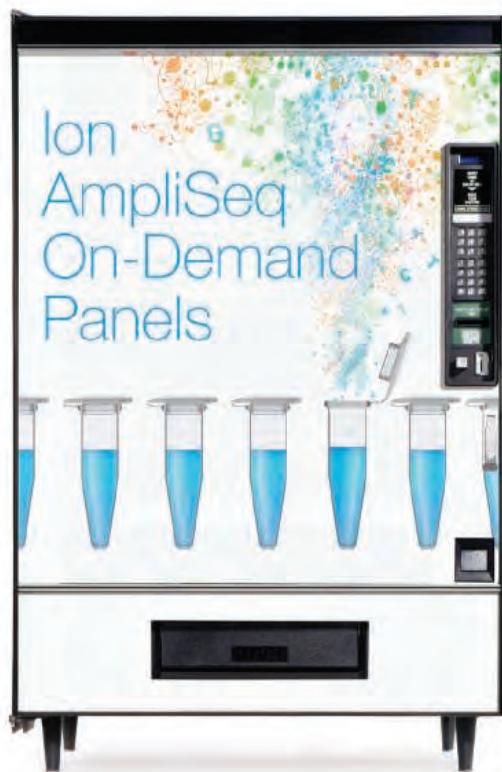
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The scientific swerve: Changing your research focus

Ali Salanti was studying malaria when an unexpected discovery led him into cancer research. Although a move this dramatic is unusual, many scientists reorient their research in ways that affect their students, collaborators, and institutions. This begs the question, why deliberately move into a new field? What are the risks and benefits of taking such a step? And what factors are important to consider before doing so?

Read the full story on page 126.

Upcoming features

Top Employers—October 20
Postdocs: Media Training—January 28
Cancer Research: Cancer Genomics—March 23

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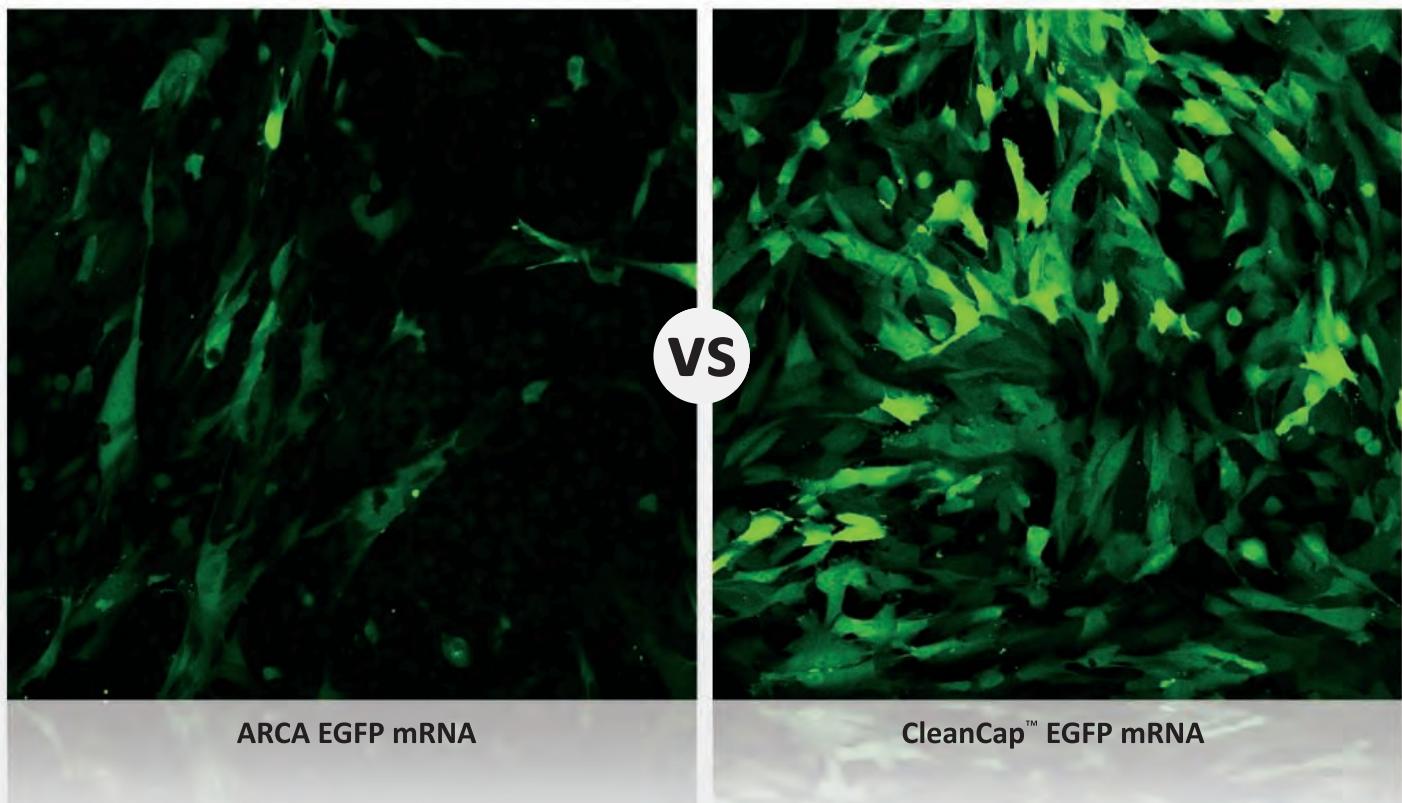
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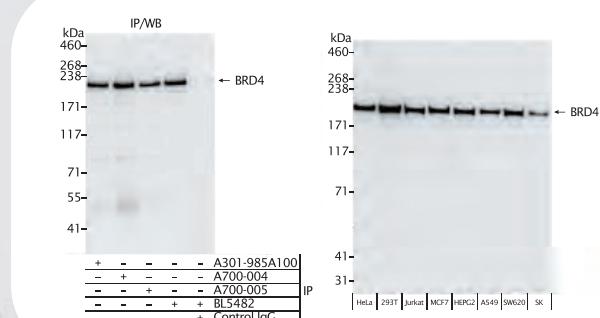
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Detection of human BRD4 by rabbit anti-BRD4 recombinant monoclonal antibody Cat# A700-004 [BL-149-2H5] in WB of IPs (left) and WB of whole cell lysates (right). Rabbit anti-BRD4 recombinant monoclonal antibodies Cat# A700-004 [BL-149-2H5] and Cat# A700-005 [BL151-6F11], and affinity purified polyclonal antibody Cat# A301-985A100 used for IP (left).

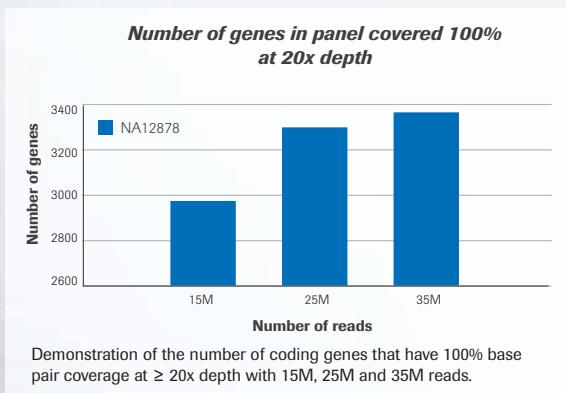
*Berglund, L., et al. A Genecentric Human Protein Atlas for Expression Profiles Based on Antibodies. *Molecular & Cellular Proteomics*, 7, 2019-27 (2009).



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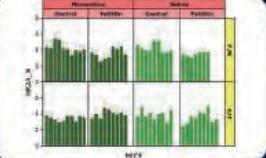
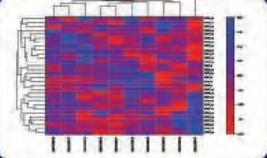
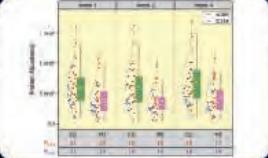
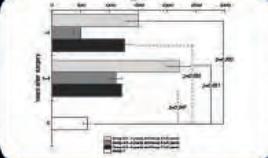
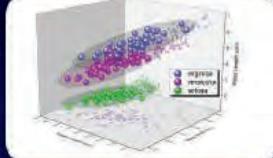
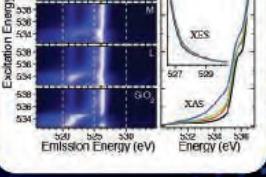
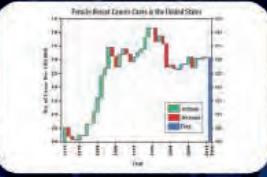
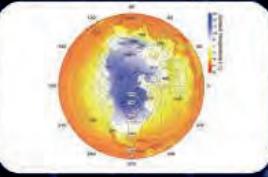
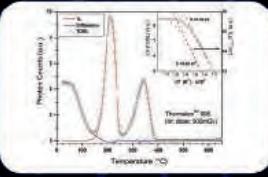
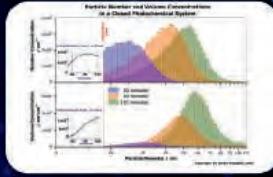
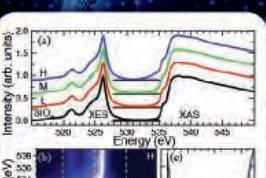
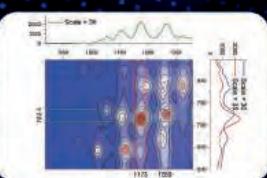
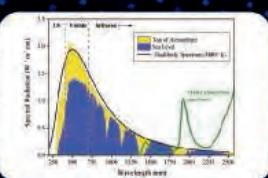
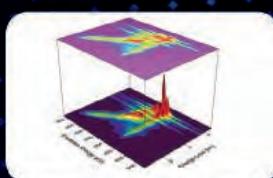
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