Direct-zol™ RNA Purification

TRIzol® IN

RNA OUT

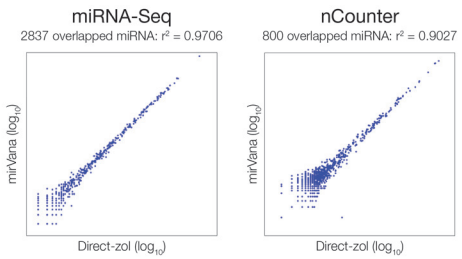
Patented technology:
Mix sample in TRIzol®, TRI Reagent®, or similar.
Add ethanol & load into the Zymo-Spin™ column.
No phase separation, no precipitation, no RNA loss.

7 minutes from TRIzol® to purified RNA

High-quality small & large RNA

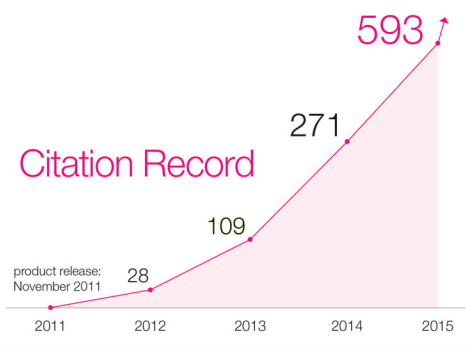
High-quality small and large RNAs are effectively recovered using the Direct-zol™ kit. RNA is DNA-free.

Non-biased miRNA recovery



The data show RNA purified from TRIzol® samples using the Direct-zol™ RNA MiniPrep compared to an unbiased method (mirVana™, Ambion). Micro-RNA analysis was performed using miRNA-Seq (MiSeq®, Illumina) and a direct hybridization assay (nCounter®, Nanostring).

Highly cited



Samples available at **zymoresearch.com/direct-zol** or call **(949) 679-1190**

ZYMO RESEARCH
The Beauty of Science is to Make Things Simple®

RNA Purification *Made Simple™*

Product	Cat. No.	Size
NEW! Direct-zol™ RNA MiniPrep Plus	R2070, R2071* R2072, R2073*	50 Preps. (≤100 µg RNA) 200 Preps. (≤100 µg RNA)
Direct-zol™ RNA MiniPrep	R2050, R2051* R2052, R2053*	50 Preps. (≤50 µg RNA) 200 Preps. (≤50 µg RNA)
NEW! Direct-zol™ RNA MicroPrep	R2060, R2061* R2062, R2063*	50 Preps. (≤10 µg RNA) 200 Preps. (≤10 µg RNA)

96-well spin plate & MagBead formats also available

* = Supplied with TRI Reagent®

Tel: (949) 679-1190 www.zymoresearch.com/direct-zol info@zymoresearch.com

During the passage from the shore to marine life penguins acquire a tremendous capability of survival in cold waters and experience corresponding morphological alterations. These are results of gene expression changes.[1]

[1] Teulier, L. et al. Proc Biol Sci. 279, 2464–2472 (2012).

The difference comes from changes in gene expression

Gene expression profile changes play significant role in life cycles of many organisms including penguins.

An essential life step for penguins is a passage from shore to marine life, a step towards nutrition independence. Penguins acquire exceptional capability to survive in cold water and morphological alterations happen. At the time of departure to sea, the thick down of juveniles is replaced by waterproof feathers (view photo). These differences come from changes in gene expression profile.

Lexogen is focusing on development of accurate and affordable tools for transcriptome analysis with RNA-Seq. QuantSeq is a dedicated kit for expression profiling. It is an easy protocol for generation of highly strand-specific NGS libraries from the 3′ end of polyadenylated RNA. Only one fragment per transcript is produced, directly linking the number of mapping reads to the gene expression values. Restricted length saves sequencing space and allows for high level of multiplexing, enabling cost-efficient and fast RNA-Seq experiment.

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Expression Profiling RNA-Seq Library Prep Kit

- **Gene expression analysis**
- **Exact 3′ UTR tagging**
- **From 100 pg total RNA input including low quality RNA and FFPE samples**
- **Cost-effective sequencing of up to 96 samples / lane**
- **Ready-to-sequence libraries in 4.5 hours**
- **Illumina™ and Ion Torrent™ compatible**
- **Reduced data analysis time**
- **Custom solutions available**

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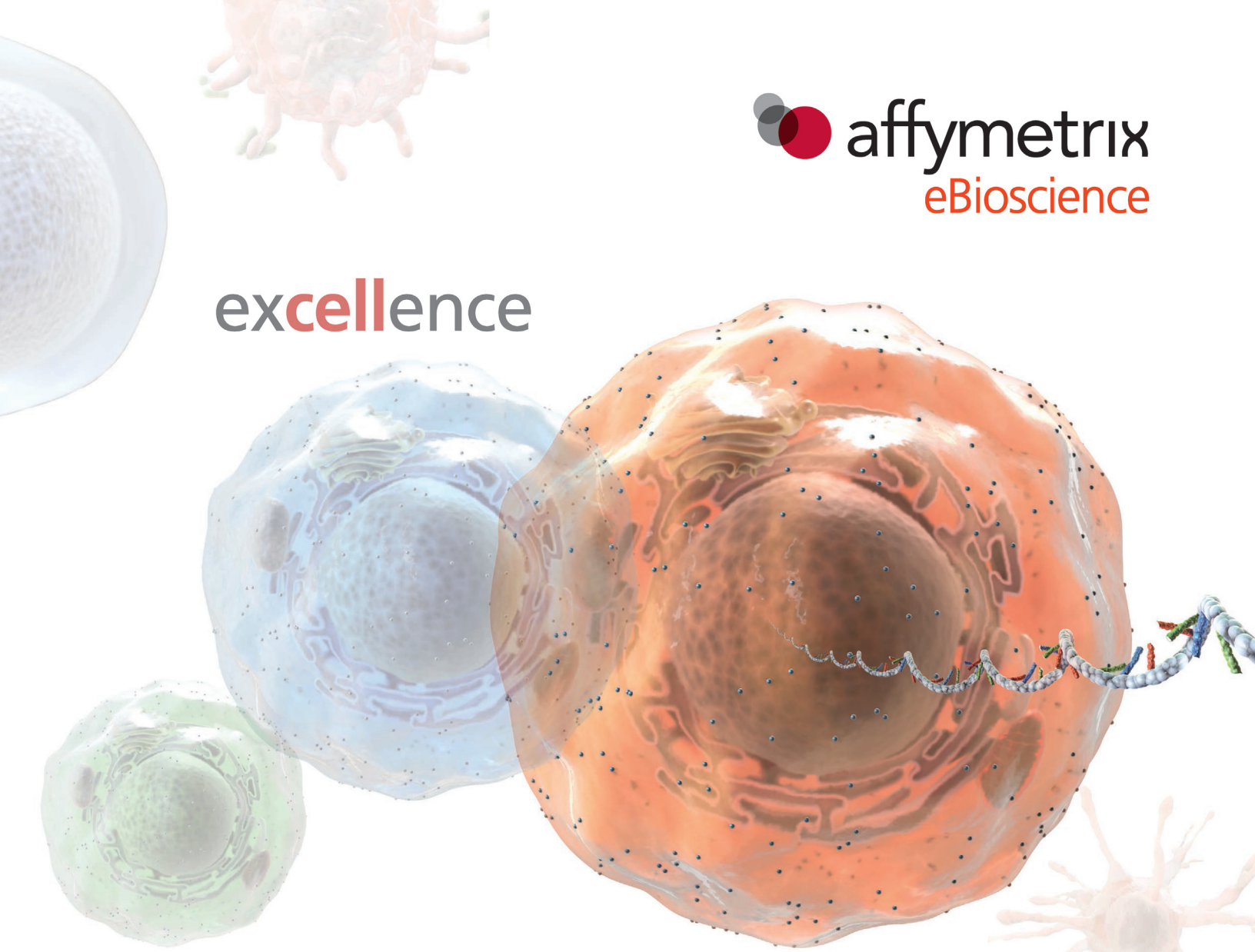

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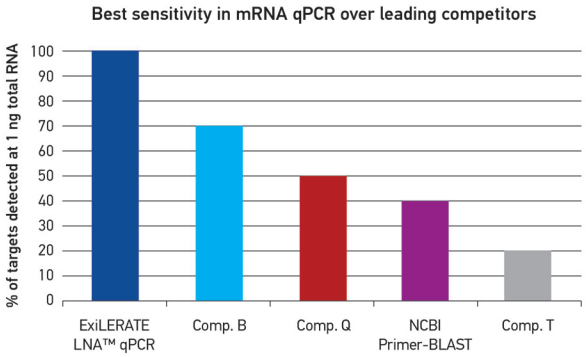

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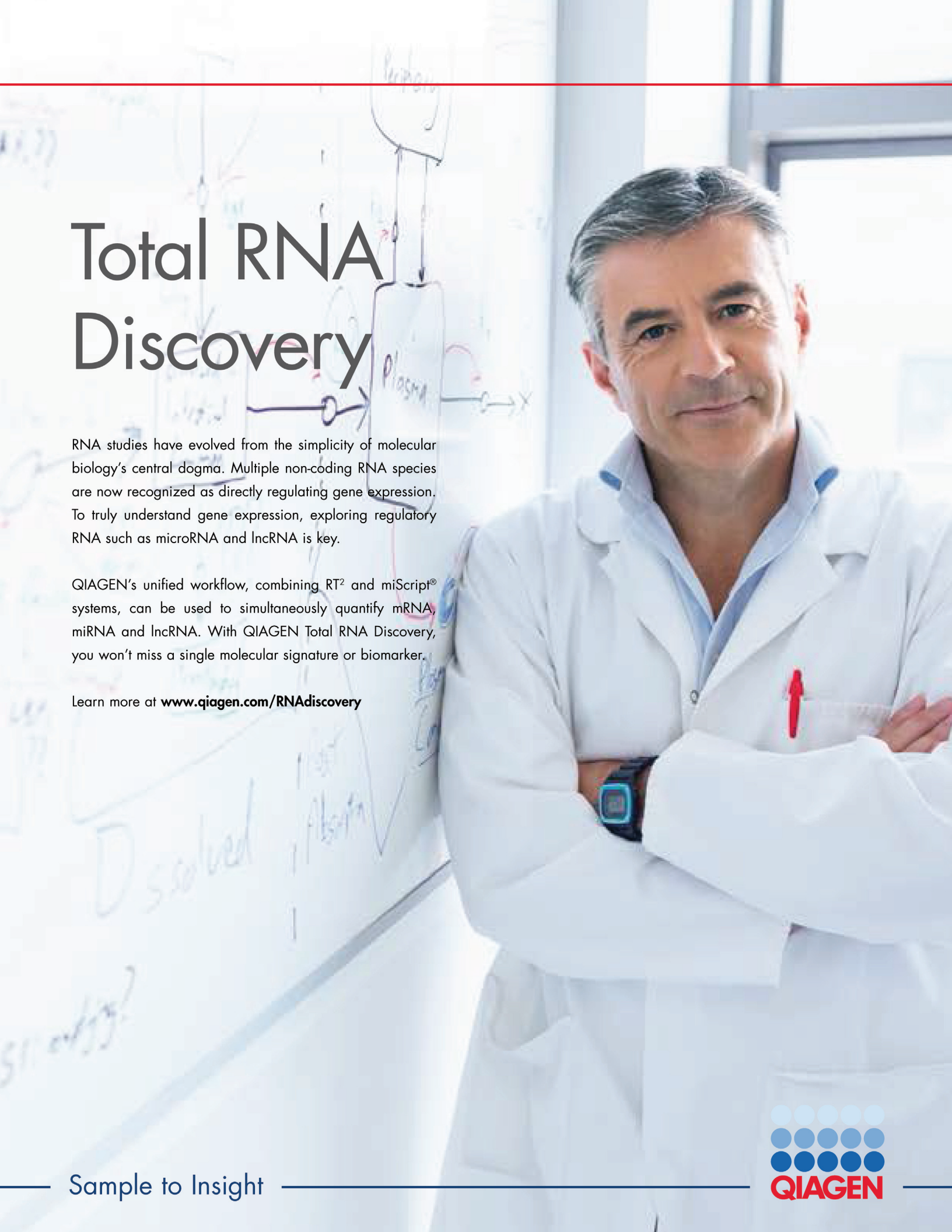

Total RNA Discovery

RNA studies have evolved from the simplicity of molecular biology's central dogma. Multiple non-coding RNA species are now recognized as directly regulating gene expression. To truly understand gene expression, exploring regulatory RNA such as microRNA and lncRNA is key.

QIAGEN's unified workflow, combining RT² and miScript® systems, can be used to simultaneously quantify mRNA, miRNA and lncRNA. With QIAGEN Total RNA Discovery, you won't miss a single molecular signature or biomarker.

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Sample to Insight

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Tenure-Track Faculty (Open Rank),
Department of Molecular Pharmacology and Therapeutics

The Department of Molecular Pharmacology and Therapeutics at Loyola University Chicago, Stritch School of Medicine seeks applicants for a tenure-track faculty position in the field of non-coding RNA, RNA processing and RNA therapeutics. This position is for a scientist with a Ph.D. or M.D./Ph.D. who is performing basic and translational research in this field. Applicants at any level will be considered and the level of appointment will be commensurate with credentials.

The faculty applicant will be expected to build/have and sustain an independent, externally funded research program, contribute to scholarship, graduate, and medical education and to the Translational Research mission developing in the Department and School. The Department of Molecular Pharmacology and Therapeutics is developing a pre-clinical Translational Research Laboratory, with which this faculty member will be affiliated. The applicant is expected to participate in the vigorous collaborative academic environment that exists between the Laboratory, the Department, and the Research Institutes at Loyola University Chicago's Health Sciences campus. A generous salary and research startup package are available. The successful applicant will become part of a growing interdisciplinary group with interest in non-coding RNA in disease and development/ translation of RNA therapeutics.

Interested candidates should email a single PDF file which includes a cover letter, CV, statement of research interests, and contact information of four references (two within and two outside of your current institution) to pharmrecruit@luc.edu as well as apply online at *www.careers.luc.edu* (search for position # 8550333).

Loyola University Chicago is an Equal Opportunity/Affirmative Action employer.

Postdoctoral Position: Jupiter, FL, United States

The Scripps Research Institute (TSRI), one of the world's largest independent non-profit research facilities, stands at the forefront of basic biomedical science, a vital segment of medical research that seeks to comprehend the most fundamental processes of life.

A postdoctoral position for a chemical biologist is open in the Disney Laboratory in the Department of Chemistry at the Scripps Research Institute: http://www.scripps.edu/disney/index.html

The position is NIH funded through the NIH Director's Pioneer award mechanism and will involve the study and design of small molecules that target various disease-associated RNAs.

Successful applicants will have an established publication record in top-tier journals. Experience in nucleic acids and chemical biology is desired but not critical. Some experience in small molecule synthesis is also desirable.

Interested applicants should provide a CV, copies of primary publications, and a list of three references. This information should be sent to Prof. Matt Disney via email (disney@scripps.edu).

The Scripps Research Institute is an Equal Opportunity Employer. All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other legally protected characteristic or status.

AACR Annual Meeting

American Association for Cancer Research

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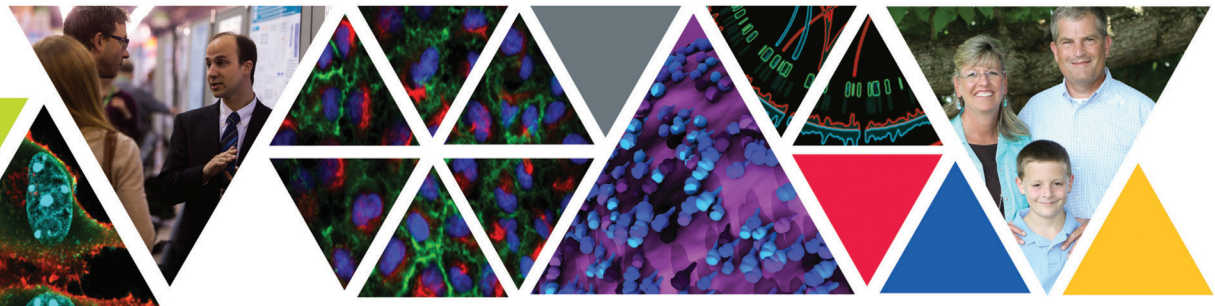
For more information visit
www.AACR.org/AACR2016

Delivering Cures Through Cancer Science



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