

Dated: May 20, 2020.

**Sherrette A. Funn,**

*Office of the Secretary, Paperwork Reduction Act Reports Clearance Officer.*

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### Office of the Secretary

#### Findings of Research Misconduct

**AGENCY:** Office of the Secretary, HHS.

**ACTION:** Notice.

**SUMMARY:** Findings of research misconduct have been made against Mr. Logan Fulford (Respondent), who was a graduate research assistant, Cincinnati Children's Hospital Medical Center (CCHMC), and former graduate student, University of Cincinnati (UC). Mr. Fulford engaged in research misconduct in research supported by National Cancer Institute (NCI), National Institutes of Health (NIH), grant R01 CA142724 and National Heart, Lung, and Blood Institute (NHLBI), NIH, grant R01 HL084151. The administrative actions, including supervision for a period of two (2) years, were implemented beginning on May 8, 2020, and are detailed below.

**FOR FURTHER INFORMATION CONTACT:** Elisabeth A. Handley, Director, Office of Research Integrity, 1101 Wootton Parkway, Suite 240, Rockville, MD 20852, (240) 453-8200.

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that the Office of Research Integrity (ORI) has taken final action in the following case:

*Mr. Logan Fulford, Cincinnati Children's Hospital Medical Center:* Based on the report of an investigation conducted by CCHMC and additional analysis conducted by ORI in its oversight review, ORI found that Mr. Logan Fulford, former graduate research assistant, CCHMC, and former graduate student, UC, engaged in research misconduct in research supported by NCI, NIH, grant R01 CA142724 and NHLBI, NIH, grant R01 HL084151.

Respondent neither admits nor denies ORI's findings of research misconduct; the settlement is not an admission of liability on the part of the Respondent. The parties entered into a Voluntary Settlement Agreement (Agreement) to conclude this matter without further expenditure of time, finances, or other resources.

ORI found that Respondent engaged in research misconduct by intentionally,

knowingly, and/or recklessly falsifying data that were included in:

- The transcription factor FOXF1 promotes prostate cancer by stimulating the mitogen-activated protein kinase ERK5. *Science Signaling* 2016 May;9:427 (hereafter referred to as "Science Signaling 2016").

- Foxf1 Deficient Cancer-Associated Fibroblasts Promote Prostate Cancer Progression via Paracrine Wnt11 Signaling. Unpublished manuscript (hereafter referred to as the "unpublished manuscript").

ORI found that Respondent intentionally, knowingly, and/or recklessly falsified immunohistochemistry and western blot data included in *Science Signaling* 2016 and in an unpublished manuscript, by reusing and relabeling images to represent the expression of different proteins and/or different experimental conditions. Specifically:

- In Figure 2C of *Science Signaling* 2016, Respondent reused one immunohistochemistry image, to represent Cle casp-3 expression in Myc-CaP tumors under both Control and FoxF1-OE conditions and used another immunohistochemistry image to represent Cle casp-3 expression in TRAMP tumors under both Control and FoxF1-OE conditions

- in Figure S4E of *Science Signaling* 2016, Respondent reused and relabeled western blot panels to represent the expression of multiple different proteins under different experimental conditions. Specifically:

- Respondent used different exposures of the source blot to represent FOXF1 or WNK1 expression in 22RV1 tumors transfected with scramble RNA or shFOXF1, or pERK5 expression in C4-2B tumors transfected with scramble RNA or shFOXF1

- Respondent used different exposures and size scaling of the source blot to represent MAP3K2 or pERK5 expression in 22RV1 tumors transfected with scramble RNA or shFOXF1 or FOXF1 or WNK1 expression in C4-2B tumors transfected with scramble or shFOXF1

- Respondent used background lightening/darkening and size scaling of the source blot to represent  $\beta$ -ACTIN expression in 22RV1 tumors transfected with scramble or shFOXF1, or Total

ERK5 expression in C4-2B tumors transfected with scramble RNA or shFOXF1

- Respondent used size scaling and rotation of the source blot to represent Total ERK5 in 22RV1 tumors transfected with scramble RNA or shFOXF1, or  $\beta$ -ACTIN expression in C4-2B tumors transfected with scramble RNA or shFOXF1
- in Figure 7C of *Science Signaling* 2016, Respondent reused and relabeled one source western blot panel to represent the expression of different proteins in the presence of FOXF1 overexpression. Specifically:

- different exposures, size scaling, and rotation of the same blot were used to represent  $\beta$ -Actin, pERK5, Total ERK, and MAP3K2 expression in FOXF1-overexpressing Myc-CaP tumors transduced with scramble RNA, shMAP3K2 RNA, shWnk1, or both

- in Figure S3B of *Science Signaling* 2016, Respondent spliced, size scaled, and rotated the source western blot representing expression of Erk5 in TRAMP tumors and represented it as both pERK5 and Total ERK5 expression in TRAMP tumors under both control and FOXF1-OE conditions

- in Figure 3B of the unpublished manuscript, Respondent fabricated the data to falsely represent the upregulation of Wnt11 mRNA in human fibroblasts from prostate cancer samples, compared to those from normal patient samples

- in Figures 3F and S8 of the unpublished manuscript, Respondent reused and relabeled source western blot panels representing Wnt11 expression in HeLa (cervical cancer) to represent Wnt11 expression in MDA-MB-231 fibroblasts (prostate cancer)

As a result of the investigation, *Science Signaling* 2016 was retracted in: *Science Signaling* 2018 Jul;11:541.

Mr. Fulford entered into an Agreement and agreed to the following:

- (1) Respondent agreed to have his research supervised for a period of two (2) years beginning on May 8, 2020. Respondent agreed that prior to the submission of an application for U.S. Public Health Service (PHS) support for a project on which Respondent's participation is proposed and prior to Respondent's participation in any capacity on PHS-supported research, Respondent shall ensure that a plan for supervision of Respondent's duties is submitted to ORI for approval. The

supervision plan must be designed to ensure the scientific integrity of Respondent's research contribution. Respondent agreed that he shall not participate in any PHS-supported research until such a supervision plan is submitted to and approved by ORI. Respondent agreed to maintain responsibility for compliance with the agreed upon supervision plan.

(2) The requirements for Respondent's supervision plan are as follows:

i. A committee of 2–3 senior faculty members at the institution who are familiar with Respondent's field of research, but not including Respondent's supervisor or collaborators, will provide oversight and guidance for two (2) years from the effective date of the Agreement. The committee will review primary data from Respondent's laboratory on a quarterly basis and submit a report to ORI at six (6) month intervals, setting forth the committee meeting dates and Respondent's compliance with appropriate research standards and confirming the integrity of Respondent's research.

ii. The committee will conduct an advance review of any PHS grant applications (including supplements, resubmissions, etc.), manuscripts reporting PHS-funded research submitted for publication, and abstracts. The review will include a discussion with Respondent of the primary data represented in those documents and will include a certification to ORI that the data presented in the proposed application/publication is supported by the research record.

(3) If no supervisory plan is provided to ORI, Respondent agreed to provide certification to ORI at the conclusion of the supervision period that he has not engaged in, applied for, or had his name included on any application, proposal, or other request for PHS funds without prior notification to ORI.

(4) Respondent agreed to exclude himself voluntarily from serving in any advisory capacity to PHS including, but not limited to, service on any PHS advisory committee, board, and/or peer review committee, or as a consultant for a period of two (2) years, beginning on May 8, 2020.

Dated: May 19, 2020.

**Elisabeth A. Handley,**

*Director, Office of Research Integrity, Office of the Assistant Secretary for Health.*

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### Indian Health Service

#### National Indian Health Outreach and Education

*Announcement Type:* New.  
*Funding Announcement Number:* HHS–2020–IHS–NIHOE–0001.  
*Assistance Listing (Catalog of Federal Domestic Assistance or CFDA) Number:* 93.933.

#### Key Dates

Application Deadline Date: June 29, 2020.

Earliest Anticipated Start Date: July 14, 2020.

#### I. Funding Opportunity Description

##### Statutory Authority

The Indian Health Service (IHS) is accepting applications for a cooperative agreement for the National Indian Health Outreach and Education program. This program is authorized under: The Snyder Act, 25 U.S.C. 13; the Transfer Act, 42 U.S.C. 2001; the Indian Health Care Improvement Act at 25 U.S.C. 1621b; and Section 330C of the Public Health Service Act, 42 U.S.C. 254c–3. The HIV/AIDS Outreach and Education component is funded by the Office of the Assistant Secretary for Health (OASH), HHS, and is being made available through an intra-Departmental Delegation of Authority (IDDA) to IHS to award funding to be carried out pursuant to Section 301 of the Public Health Service Act. This program is described in the Assistance Listings located at <https://beta.sam.gov> (formerly known as Catalog of Federal Domestic Assistance) under 93.933.

##### Background

The Indian Health Service is committed to providing quality health care, consistent with its statutory authorities and its government-to-government relationship with each Indian tribe. The IHS mission is to raise the physical, mental, social and spiritual health of American Indians and Alaska Natives to the highest level. To further mission success, the IHS seeks support on a national scale. The IHS serves as the principal federal health care provider and health advocate for approximately 2.6 million American Indians and Alaska Natives from 574 federally recognized Tribes in 37 states, through a network of over 605 hospitals, clinics and health stations on or near Indian reservations and predominantly in rural locations. Tribes administer over half of the annual IHS

discretionary appropriation. The IHS also enters into agreements with 41 Urban Indian Organizations (UIOs). These 41 UIOs are 501(c)(3) non-profit organizations that provide culturally appropriate and quality health care and referral services for Urban Indians throughout the United States in 22 states. The IHS seeks to collaborate with local communities, not-for-profit organizations, universities and schools, foundations, businesses, and Federal agencies. This effort will foster outreach and education addressing health policy and health program issues; broadcast educational information to all American Indian and Alaska Native people; provide policy/legislative updates, advocacy, and technical assistance.

##### Purpose

The purpose of this IHS cooperative agreement is to further IHS's mission and goals related to providing quality health care to the AI/AN community through outreach and education efforts with a focus on improving Indian health care, promoting awareness, visibility, advocacy, training, technical assistance, and education efforts. This program includes the following seven components, as described in this announcement: "Line Item 128 Health Education and Outreach funds;" "Health Care Policy Analysis and Review;" "Substance Abuse and Suicide Prevention (SASP) program," formerly known as the Methamphetamine and Suicide Prevention Initiative; "Domestic Violence Prevention (DVP) program," formerly known as the Domestic Violence Prevention Initiative—national awareness, visibility, advocacy, outreach and education award; the "Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome (HIV/AIDS)" outreach and education; the "Special Diabetes Program for Indians" (SDPI); the "Affordable Care Act (ACA)"; and the "Indian Health Care Improvement Act (IHCA)."

#### II. Award Information

##### Funding Instrument

Cooperative Agreement.

##### Estimated Funds Available

The total funding identified for fiscal year (FY) 2020 is approximately \$842,311. The award amount for the first budget year is anticipated to be between \$246,311 and \$842,311. \$246,311 is estimated for Line Item 128 Health Education and Outreach (this amount could vary based on Tribal shares assumptions); \$125,000 for the Health Care Policy Analysis and Review; \$150,000 for activities related