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## BIOGRAPHICAL SKETCH

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NAME: **Vidisha Raje, Ph.D**

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eRA COMMONS USER NAME (credential, e.g., agency login):

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POSITION TITLE: **Research Scientist, Institute of Metabolic Disorders**

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EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
St. Xavier's College, Mumbai, India	B.Sc	2005	Life Sciences /Biochemistry
University of Mumbai, Mumbai, India	M.Sc	2007	Life Sciences
Virginia Commonwealth University; Richmond, VA	Ph.D.	2013	Integrative Life Sciences

### **PROFESSIONAL POSITIONS:**

2008-2009 Teaching Assistant, Department of Integrative Life Sciences, Virginia Commonwealth University, Richmond, VA

2013-2014 Postdoctoral Research Associate, Department of Biochemistry and Molecular Biology, Virginia Commonwealth University, Richmond, VA

2014-2019 Postdoctoral Research Associate, Department of Pharmacology, University of Virginia, Charlottesville, VA

2019- Research Scientist, The Institute of Metabolic Disorders, Hamilton, NJ

### **PROFESSIONAL AWARDS AND HONORS**

2002, 2003 Academic Excellence, St Xavier's College, Mumbai

2005 Dr. AR Kulkarni Scholarship, University of Mumbai

2009 Phi Kappa Phi Honor society scholarship, Virginia Commonwealth University

2012 Travel award, Department of Life Sciences, Virginia Commonwealth University

2014 Travel award, National Institute of Health/National Institute of Diabetes, Digestive and Kidney Diseases

2015 'New Horizons Travel Grant' awarded by Office of Postdoctoral Affairs, University of Virginia

2016 Best postdoctoral talk, Department of Pharmacology annual retreat, University of Virginia

2015- Editorial Board, Journal of Postdoctoral Research

2015- Ad hoc Reviewer, Plos One

2015- Ad hoc Reviewer, Metabolism

### **PUBLICATIONS:**

Cantwell MT, Farrar JS, Lownik JC, Meier JA, Hyun M, **Raje V**, Waters MR, Celi FS, Conrad DH, Harris TE, Lerner AC. STAT3 is Required Early in the Differentiation Program of Myf5+ Primary Brown Adipocytes and STAT3-/-Preadipocytes can be Rescued through Wnt/ $\beta$ -Catenin Inhibition. Cytokine. 2018 Jun 19. pii: S1043-4666(18)30222-9. PMID: [29934048](https://pubmed.ncbi.nlm.nih.gov/29934048/)

Meier JA, Hyun M, Cantwell M, Raza A, Mertens C, **Raje V**, Sisler J, Tracy E, Torres-Odio S, Gispert S, Shaw PE, Baumann H, Takabe K, Larner AC. Stress-Induced Dynamic Regulation of Mitochondrial STAT3 and Its Association with Cyclophilin D. *Sci Signal*. 2017 Mar 28;10(472). PMID: [28351946](#)

Gaykema R, Newmyer B, Ottolini M, **Raje V**, Warthen DM, Lambeth P, Niccum M, Yao T, Huang Y, Schulman I, Harris TE, Patel M, Williams K, Scott MM. Selective activation of hindbrain Gcg peptide-expressing hindbrain neurons differentially regulates food intake, body weight and gluconeogenesis in lean and diet induced obese male mice. *J Clin Invest*. 2017 Mar 1;127(3):1031-1045. [PMCID: PMC5330725](#)

Boroda S, Niccum M, **Raje V**, Purow B, Harris TE. Dual activities of ritanserin and R59022 as DGK $\alpha$  inhibitors and serotonin receptor antagonist. *Biochem Pharmacol*. 2017 Jan 1;123:29-39. doi: 10.1016/j.bcp.2016.10.011. PMID: 27989726, [PMCID: 5164959](#)

**Raje V**, Derecka M, Cantwell M, Meier J, Szczepanek K, Sisler JD, Strobl B, Gamero A, Harris TE, Larner AC.. Kinase inactive Tyrosine kinase (Tyk2) Supports Differentiation of Brown fat Cells. *Endocrinology*. 2016 Nov 1;en20152048. PMID: [27802075](#)

Mullins GR, Wang L, **Raje V**, Sherwood SG, Grande RC, Boroda S, Eaton JM, Blancquert S, Roger PP, Leitinger N, Harris TE. Catecholamine-induced lipolysis causes mTOR complex dissociation and inhibits glucose uptake in adipocytes. *Proc Natl Acad Sci U S A*. 2014 Dec 9;111(49):17450-5. PMID: 25422441 [PMCID: PMC4267365](#)

Sisler JD, Morgan M, **Raje V**, Grande RC, Derecka M, Meier J, Cantwell M, Szczepanek K, Korzun WJ, Lesnefsky EJ, Harris TE, Croniger CM, Larner AC. The Signal Transducer and Activator of Transcription 1 (STAT1) Inhibits Mitochondrial Biogenesis in Liver and Fatty Acid Oxidation in Adipocytes. *PLoS One*. 2015 Dec 21;10(12) PMID: [26689548](#)

Zhang Q, **Raje V**\*, Yakovlev VA, Yacoub A, Szczepanek K, et al. Mitochondrial localized Stat3 promotes breast cancer growth via phosphorylation of serine 727. *J Biol Chem*. 2013 Oct 25;288(43):31280-8. PubMed PMID: [24019511](#); PubMed Central PMCID: [PMC3829438](#). \*Equal contribution

Derecka M, Gornicka A, Koralov SB, Szczepanek K, Morgan M, **Raje V**, Sisler J, Zhang Q, Otero D, Cichy J, Rajewsky K, Shimoda K, Poli V, Strobl B, Pellegrini S, Harris TE, Seale P, Russell AP, McAinch AJ, O'Brien PE, Keller SR, Croniger CM, Kordula T, Larner AC. Tyk2 and Stat3 regulate brown adipose tissue differentiation and obesity. *Cell Metab*. 2012 Dec 5;16(6):814-24. PubMed PMID: [23217260](#); PubMed Central PMCID: [PMC3522427](#).

#### **PATENTS :**

Harris, TE, **Raje V**, Kadl A, Mullins GM (Inventors). Title: Compositions and Method for Regulating Adipose Tissue Lipolysis, Insulin-Resistance, and Hyperglycemia. (2016). Publication number: WO 2017/049194