CURRICULUM VITAE

Name: **Siham Raboune, Ph-D**	Position title: Assistant Professor of Instruction School of Behavioral and Brain Sciences 800 W Campbell Rd Richardson, TX Office: JO3-110 Sxr180071@utdallas.edu

EDUCATION

INSTITUTION	DEGREE	YEAR	FIELD OF STUDY
Indiana University, Bloomington-USA	**Ph.D.**	**2012**	Major: **Neuroscience** Minor: **Molecular and cellular biology**
AbdelmalekEssadi University-Morocco	**M.S.**	**2004**	Major**: Neuroscience**
AbdelmalekEssadi University – Morocco	**B.S.**	**2002**	Major**: Animal Biology** Minor: **genetics**

ADDITIONAL TRAINING AND CERTIFICATION

- **Course program on teaching practice in higher education (University of Texas at Dallas)**
  - A nationally-recognized Certificate in Effective College Instruction endorsed by the American Council on Education (ACE). *2021-2022*
- **Seneff Faculty Development Program (Valencia college-Orlando, FL)**
  - The program offers a range of courses designed to enable Faculty to mentor students in the undergraduate research track-*2017*
- **Associate Faculty Certification (Valencia college-Orlando, FL)**
  - This professional development (PD) program certification includes an array of courses and practices aimed to engage faculty in a continuous improvement processes that result in student enhancement of learning.
  - It also allows faculty, college wide, to network in order to develop strategies to create a suitable environment for learning.
  - The core competencies discussed in the program were: ***Assessment ;Inclusion and Diversity ;Teaching Practices ;Life Map ;Professional Commitment ; Outcomes-based Practice ; Scholarship of Teaching and Learning*** *-2017*

PREVIOUS PROFESSIONAL APPOINTMENTS

- Adjunct Assistant professor of **Biology** (Lecture and Lab) **(*May 2016*)**, Adjunct Associate professor of **Biology** (Lecture and Lab)-Department of Biological Sciences, Valencia College Orlando-Florida **(*2017*)**
- Research Scientist at Eli Lilly and Company Pharmaceuticals, Indianapolis, Indiana **(2012-2013)**

ACADEMIC SERVICE

- Elected member of the Academic Senate. UTD (2022-2023)
- Member of the committee for teaching effectiveness. The committee receives requests from the Dean and departments heads for faculty going up for promotion or mid-prohibitory review of their teaching. Our work is to observe our collegues' classroom teaching and provide feedback. School of behavioral and brain sciences, UTD (2022-2023)
- Member of the undergraduate scholarship committee. School of behavioral and brain sciences, UTD (2020, 2021, 2022)
- Member of the curriculum development committee for the program in neurobiology. School of behavioral and brain sciences, UTD (2019)
- Undergraduate Research Awards poster contest Judging board, UTD (Spring 2019, Spring 2021)
- External reviewer for faculty promotion to senior lecturer position at the university of Washington Bothell (Summer 2019)
- Representative for the program of neurobiology booth at the first generation celebration day event, UTD (Fall 2019)
- Member of the oversight committee of the Osceola campus strategic planning team. The work of the committee will result in the creation as well as the redesign of at least three existing career pathways, so students have greater access to programs that will prepare them for meaningful employment. Valencia College; Florida (2017)
- Students awards committee for the Osceola Campus DNA day of 2017, Departments of Biological Sciences; Valencia College Florida (Spring 2017)

MENTORING SERVICE

- Faculty mentor for ENSURE program.

HONORS, FELLOWSHIPS&ASSISTANTSHIPS

- Outstanding Achievement in Lecture, Society of life and earth Sciences, Morocco 2015
- Teaching assistantship (Indiana University)(2006-2012)
- Research assistant fellowship (Indiana University). P.I. the Late J. Michael Walker Ph-D, Jack & Linda Gill Professor of Neuroscience (2005-2006)
- Principe Felipe Institute of Research trainee. P.I.VicenteFelipo, Ph-D, Director of Program of neurological impairment, Spain (Summer 2005)
- International Brain Research organization (IBRO) travel grant award to attend the Advanced School in Neuroendocrinology (2004)
- Award of academic excellence presented by CNRST -Center of National scientific and technological research –Morocco (2004)

PROFESSIONAL AFFILIATIONS

- Member of Society for Neuroscience (2005- present)
- Member of the International brain research organization IBRO (2005-present)
- Member of the International cannabinoids research society (2005-2007)
- Member of the high council of Moroccan American medical and biology doctors (2010-present)
- Member of the Association of women in Science (2011-present)
- Member of Indiana Academy of Science (2011-2012)

ADDITIONAL TEACHING EXPERIENCE

- Teaching assistant, Department of Psychological and Brain Sciences- **Indiana University Bloomington (2006-2012).** Select courses include:
  • Upper level topical seminar course on the neuropathology of pain,
  • Senior level undergraduates and graduates Reproductive Neuroscience course
  • Senior level undergraduates Neuroscience course
  • Introductory course in Psychology
- Visiting scholar, **Neuroscience** Camp Summer Program **(*2015*).** The course was designed to introduce basic neuroscience related experiments, techniques, and analytical tools to select high school students through short modules and experiments.
  - Full responsibility for content design and instruction.

RESEARCH MENTORING EXPERIENCE

- Mentor for undergraduates students from DePauw University in collaboration with Dr. Heather Bradshaw through a project funded by *CISAB* (center for the integrative study of animal behavior). Indiana University-Bloomington

RESEARCH EXPERIENCE

- Pain remains a phenomenon that is not yet fully understood. Many studies have shown that members of the thermo-sensitive TRP channels, more specifically TRPV (1-4) and TRPM8 play key roles in mechanisms of pain and inflammation. Their localization in the periphery at nociceptive sensory neurons make them intriguing molecular targets capable of blocking the initiation and the subsequent transmission of noxious stimuli. My doctorate dissertation revolves around the study of the neurochemistry of pain with the aim of understanding the ways our nervous system integrates and processes pain signals. We used lipidomics as a novel avenue for drug discovery. Recently, our lab has discovered a series of endogenous compounds as intriguing signaling molecules. Many of which are still waiting for characterization. I used targeted lipidomics approach to identify novel endogenous compounds. Using stably transfected cell lines systems, data collected suggest that members of this family of lipids might play major roles in mechanisms of pain and inflammation through activation of these TRPV channels which are known to be capable of transducing different modalities of stimuli from nociceptive sensory neurons to higher regions of the brain where they are perceived as pain sensation.

PUBLICATIONS

1. **Raboune S**, Stuart JM, Leishman E, Takacs SM, Rhodes B, Basnet A, Jameyfield E, McHugh D, Widlanski T, Bradshaw HB. Novel endogenous N-acyl amides activate TRPV1-4 receptors, BV-2 microglia, and are regulated in brain an acute model of inflammation.Front Cell Neurosci.2014 Aug 1 ;(8):195

2. Giuseppe Tortoriello, Brandon P. Rhodes, Jordyn M. Stuart, ArjundBasnet, **Siham Raboune**, Theodore S. Widlanski, Patrick Doherty, TiborHarkany and Heather B. Bradshaw. "Targeted lipidomics in Drosophila melanogaster identifies novel 2 monoacylglycerols and N-acyl amides" PLoS ONE 2013 8(7): e67865

3. Bradshaw HB, **Raboune Siham**, Hollis JL. "Opportunistic activation of TRP receptors by endogenous lipids: Exploiting lipidomics to understand TRP receptor cellular communication". Life Sci 2013 Mar 19; 92(8-9):404-9

4. Sung Ha Lee, **Siham Raboune**, J Michael Walker, and Heather B. Bradshaw. "Distribution of Endogenous Farnesyl Pyrophosphate and 4 Species of Lysophosphatidic Acid in Rodent Brain". Int J Mol Sci. 2010 Oct 15; 11(10):3965-76.

CONFERENCE PRESENTATIONS

1. Heather B. Bradshaw, **Siham Raboune**, Jordyn M. Stuart. "Novel endogenous N-acyl amides activate TRPV receptors and are regulated in an acute model of Inflammation" Lipid Maps conference in California, May 2012. "Identification of novel lipid mediators as putative endogenous ligands for TRPV1 receptors". Women in Science Conference in Bloomington, Indiana, 2012
2. **Siham Raboune**, Jordyn Stuart, and Heather Bradshaw. "Targeted lipidomics in spinal cord and skin after acute inflammation". 40 the annual meeting of the society for neuroscience inSan Diego, California in 2010

3. Heather B. Bradshaw and **Siham Raboune**. "Novel Endogenous TRPV1 and TRPV4 agonists are structural analogs to anandamide". International Cannabinoid Research Society meeting, lund, Sweeden 2010**.**
4. Douglas McHugh, **Siham Raboune**, Heather B. Bradshaw; "N-acyl gamma- aminobutyric acid activation of trpv1 drives map kinase with a strict structure and concentration-dependence". 40th annual meeting of the society for neuroscience in San Diego, California in 2010.
5. **Siham Raboune**, Heather Bradshaw, and J. Michael Walker. Characterization of a metabolic pathway between ArachidonoylLysophosphatidic acid (LPA) and the endogenous cannabinoid 2-Arachidonoyl glycerol (2-AG).Gill symposium and awards, Bloomington, Indiana USA 2007and the 37th annual meeting of the Society for Neuroscience in San Diego, California in 2007
6. **Siham Raboune**. "Le comportementmoteur d'un agonist et d'un antagonist cannabinoide chez le rat".4th International African Association of Physiology Conference in Morocco (2004)

LANGUAGES

English-French-Arabic and Spanish