

## PROFILE

A neuroscientist with over 5 years of experience and certification in working with rodents. I am passionate about underlining the presymptomatic marker in Alzheimer's disease that could possibly lead to early diagnosis and treatment.

## CERTIFICATIONS & COURSES

Training in animal experimentation, UNISTRA 2021  
Training and maintenance of skills in administration and collection techniques UNISTRA 2020

## LANGUAGE

Igbo

Native

English

Native

François

Intermediate. DELF A1 (2017)

EPICUR B1/B2 course (2023)

## SKILLS

Excellent team spirit and ability to solve problem.

Work effectively under stress.

Curious and fast in learning new things

# Nwife Getrude Okechukwu

## EDUCATION

### Ph.D. in Neuroscience

Université de Strasbourg

8th Dec. 2023

- Thesis title:** Myelin alterations in early stages of Alzheimer's disease and preclinical assessment of the protective and therapeutic potential of neurosteroid 3 $\alpha$ -O-allyl-allopregnanolone

### Master's degree in Anatomy

Ebonyi State University, Abakaliki.

2015 – 2018

- Thesis title:** The effect of beta-carotene on the hypothalamus of Wistar rats fed with dietary fat; a histological and biochemical evaluation.

### Bachelor's degree in Anatomy

Anambra State University, Uli.

2009 – 2014

## WORK EXPERIENCE

### Doctoral student

UMR INSERM 1119 Biopathologie de la Myéline, Neuroprotection et  
Stratégies Thérapeutiques. 2021-2023

- Breeding and maintaining the 5xFAD Alzheimer's mice model.
- Behavioral tests (Morris's water maze) and analyses in 5xFAD mice.
- Employ experimental techniques such as immunohistochemistry, immunocytochemistry, western blot, qPCR, flow cytometry, protein and DNA extraction.
- Work additionally on cell lines such as 158N, HOG and primary glial cell.
- Cell viability using MTT assay and statistical analysis with GraphPad.

### Tutor/monitor

Centre de Langues Patio (dont CRAL) - Pôle Lansad. 2021-2022

- English tutorial to A0 to C1 English students.
- Supervision of examinations.
- Replacement of teachers when on sick or maternity leave.
- Monitoring/assisting student with their class works.

### Internship

UMR INSERM 1118 Mécanismes Centraux et Périphériques de la  
Neurodégénése. 2019-2020

- Acquired molecular biology and biochemical techniques such as RNA extraction, qPCR, western blot, immuno precipitation and transfection.

### Assistant lecturer

Alex-Ekwueme Federal University Ndufu-Alike Ikwo. 2015 - PRESENT

- Assist in teaching Anatomy courses to undergraduate students.
- Supervision of examinations.
- Co-supervision of undergraduate thesis/project (of which was titled: The role of Garlic and Honey on Nicotine-Induced Toxicity on the Cerebellum of adult Wistar Rats).
- Assist in grading students' performance in continuous assessment and examinations.

## PUBLICATION IN PEER-REVIEWED JOURNALS

### Published

Acta Neuropathologica Communications

2023

- Myelin in Alzheimer's disease: culprit or bystander?  
Michel Maitre, Hélène Jeltsch-David, **Nwife Getrude Okechukwu**, Christian Klein, Christine Patte-Mensah & Ayikoe-Guy Mensah-Nyagan

### Under revision

Neurotoxicity Research

- Allopregnanolone analog BR351 protects against amyloid-B<sub>1-42</sub> monomer induces toxicity in primary glial cells

**Okechukwu Nwife Getrude**, Klein Christian, Patte-Mensah Christine, Maitre Michel, Mensah-Nyagan Ayikoé Guy

#### **In preparation**

- Evidence of the protective effect of allopregnanolone analog BR351 in 5xFAD Alzheimer's disease mice model.

**Okechukwu Nwife Getrude**, Meyer Laurence, Anizon Benjamin, Klein Christian, Maitre Michel, Mensah-Nyagan Ayikoé Guy

### **AWARDS AND CONFERENCES ATTENDED**

- Scientific oral communication in SONA 2023 16<sup>th</sup> international conference Johannesburg, South Africa, 2023
- Scientific oral communication in Neurology and dementia 7<sup>th</sup> international conference Italy, Rome, 2023.
- Poster presentation: 9<sup>th</sup> Day of the Federation of Translational Medicine of Strasbourg, France 2022.
- Participant: Regional Scientific Conference of Research in Rare Diseases Strasbourg, France 2019.
- FENS travel grants for SONA 2023
- IBRO-African Regional Committee (ARC), Award 2017- School of Neurogenetics from Animal Model to Precision Medicine in Cairo, Egypt.