

**Current Position:**

- 1) Exceptional Class Professor of Neuroscience and Physiology, University of Strasbourg, France
- 2) Head of INSERM Research Unit "Biopathology of Myelin, Neuroprotection and Therapeutic Strategies, INSERM U1119", Faculty of Medicine, 11 rue Humann, 67 000 Strasbourg, France.  
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**Education**

- 1999 *Habilitation à Diriger les Recherches* in Neuroscience, Rouen, France (**March 5, 1999**)  
 1997 PhD in Neuroscience, University of Rouen, France (**May 16, 1997**)  
 1992 PhD in Animal Physiology, University of Abidjan, Ivory Coast (**January 9, 1992**)

**Positions and employment**

- 2016-2019 Vice-President of the National Neuroscience Commission of the National Council of French Universities (*Conseil National des Universités, CNU*)  
 2019- Topic Editor for International Journal of Molecular Sciences  
 2016- Member of the Editorial Board of SRL-Alzheimer's and Parkinson's Disease  
 2014- President of the Pedagogic Commission of Master Degrees, Faculty of Life Sciences, Strasbourg  
 2013- Coordinator of the Neuroscience Program of Strasbourg Federation of Translational Medicine  
 2013- Member of the Directory Board of the *Neuropôle, Strasbourg*  
 2012- Initiator and Coordinator of the Trinational NeuroRhine Consortium, Laureate of Excellence of EU-FEDER and Offensives Science joint competitive call 2012  
 2012- Member of the Editorial Boards of ISRN-Neuroscience and ECAM  
 2011- Reference Professor of the Faculty of Life Sciences, Strasbourg Univ Alumni Network  
 2011- Elected Professor at the National Neuroscience Commission (*Conseil Nat des Universités, CNU*)  
 2010- President of the Pedagogic Commission of Bachelor's Degrees, Faculty of Life Sciences  
 2009- Elected Member of the Administrative Board of the Faculty of Life Sciences, Strasbourg.  
 2008- Member of the Editorial Advisory Board of The Open Pain Journal.  
 2007-2019 Co-Chair Educational Committee of the International Meeting Steroids and Nervous System.  
 2003-2007 Board Member of Neurex Network (Basel-Switzerland, Freiburg-Germany and Strasbourg)  
 2002-2007 Chair of the Bachelor Program in Cell Biology and Physiology, Strasbourg, France.  
 2002-2007 Member of the Neuroscience Expert Committee, University Louis Pasteur, Strasbourg, France  
 2001-2008 Leader of the Team «Steroids and Nociceptive System », UMR 7168, CNRS-Univ Strasbourg  
 2001- Full-Professor at the University of Strasbourg, France.  
 2001 Associate Researcher, Department of Physiological Sciences, Laboratory of Neuroendocrinology, University of California Los Angeles (UCLA), USA.  
 2000-2001 Co-Chair of the European Master in Integrative Biology and Physiology, Universities of Compiègne (France), Leicester (UK), Geneva Switzerland) and Rouen (France).  
 1998-2001 Leader of the Neurosteroid Group, INSERM U 413, University of Rouen, France.  
 1997-2001 Vice-Chairman of the Bachelor and Master in Cell Biology and Physiology, Rouen, France  
 1995-2001 Assistant-Professor, University of Rouen, France

**Memberships in Scientific Societies**

French Society for Neuroscience and FENS (1995-); *Société de Neuroendocrinologie Expérimentale* and International Neuroendocrinologist Federation (INF): 1998-

**Scientific Awards or Honors**

- 1999 Young Scientific Award for Amphibian Biology. Japanese Society for the Promotion of Sciences and International Society for the Biology of Amphibians. Hiroshima, Japan, March 22, 1999.  
 2008 Nominated Genomic Pioneer, Ocimum Biosolutions and Human Genome Organization, Sep 2008.

**Additional Professional Experience**

EDITOR OF SPECIAL ISSUES OF PEER-REVIEWED INTERNATIONAL JOURNALS

- 1) Neuroprotective effects of steroids in the spinal cord and peripheral nerves. *Special issue, Journal of Molecular Neuroscience* (Melcangi RC and **Mensah-Nyagan AG** eds), Volume 28, pp 1-102, Humana Press (2006).
- 2) Neurosteroids: *Special issue, Neurochemistry International* (Melcangi RC and **Mensah-Nyagan A.G.**, Guest editors) Vol. 52 (4-5), pp 1-611 (2008).

**SELECTION OF REPRESENTATIVE PUBLICATIONS**  
(IF = Impact Factor or 5YIF = 5 Year Impact Factor 2018, JCR, Web of Science)

**Selection of Ten Original Research Articles**

- 1) **MENSAH-NYAGAN AG**, FEUILLOLEY M, DO-REGO JL, MARCUAL A, LANGE C, TONON MC, PELLETIER G and VAUDRY H: Localization of 17 $\beta$ -hydroxysteroid dehydrogenase and characterization of testosterone in the brain of the male frog. *Proc. Natl. Acad. Sci. USA* 93: 1423-1428 (1996). (5YIF = 10,600)
- 2) DO-REGO JL, **MENSAH-NYAGAN AG**, BEAUJEAN D, VAUDRY D, SIEGHART W, LUU-THE V, PELLETIER G and VAUDRY H: gamma-Aminobutyric acid, acting through gamma-aminobutyric acid type A receptors, inhibits the biosynthesis of neurosteroids in the frog hypothalamus. *Proc. Natl. Acad. Sci. USA* 97:13925-13930 (2000).
- 3) PATTE-MENSAH C, KIBALY C and **MENSAH-NYAGAN AG**: Substance P inhibits progesterone conversion to neuroactive metabolites in spinal sensory circuit: a potential component of nociception. *Proc. Natl. Acad. Sci. USA* 102:9044-9049 (2005). (5YIF = 10,600)
- 4) MEYER L, PATTE-MENSAH C, TALEB O, **MENSAH-NYAGAN AG**: Cellular and functional evidence for a protective action of neurosteroids against vincristine chemotherapy-induced painful neuropathy. *Cell. Mol. Life Sci.* 67: 3017-3034 (2010). (IF = 7,014)
- 5) PATTE-MENSAH C., MEYER L., SCHAEFFER V. and **MENSAH-NYAGAN A.G.**: Selective regulation of 3alpha-hydroxysteroid oxido-reductase expression in dorsal root ganglion neurons: a possible mechanism to cope with peripheral nerve injury-induced chronic pain. *Pain* 150: 522-534 (2010). (5YIF = 6,611)
- 6) MEYER L., PATTE-MENSAH C., TALEB O. and **MENSAH-NYAGAN A.G.**: Allopregnanolone prevents and suppresses oxaliplatin-evoked painful neuropathy: Multi-parametric assessment and direct evidence. *Pain* 152: 170-181 (2011). (5YIF = 6,611)
- 7) SEPULVEDA-DIAZ JE, NAINI SMA, HUYNH MB, OUIDJA MO, YANISCOSTAS C, CHANTEPIE S, JOSPIN E, VILLARES J, LAMARI F, van KUPPEVELT TH, **MENSAH-NYAGAN AG**, RAISMAN-VOZARI R\*, SOUSSI-YANISCOSTAS N\*, PAPPY-GARCIA D\*: 3-O-sulfotransferase-2 expression is critical for the abnormal phosphorylation of tau in Alzheimer's disease-related tau pathology. *Brain*, 138:1339-1354 (2015). (5YIF = 11,773)
- 8) GRIMM A, BILIOURIS EE, LANG UE, GOTZ J, **MENSAH-NYAGAN AG\***, ECKERT A\*: Sex hormone-related neurosteroids differentially rescue bioenergetic deficits induced by amyloid- $\beta$  or hyperphosphorylated tau protein. *Cell. Mol. Life Sci.* 73: 201-215 (2016). (IF = 7,014)
- 9) BRUN S, SCHALL N, BONAM SR, BIGAUT K, **MENSAH-NYAGAN AG**, DE SEZE J, MULLER S: An autophagy-targeting peptide to treat chronic inflammatory demyelinating polyneuropathies. *J. Autoimmun.*; 92:114-125 (2018). (IF = 7,543)
- 10) BINAME F, PHAM-VAN LD, SPENLE C, JOLIVEL V, BIRMPILI D, MEYER LA, JACOB L, MEYER L, **MENSAH-NYAGAN AG**, PO C, VAN DER HEUDEN M, ROUSSEL G, BAGNARD D: Disruption of Sema3A/Plexin-A1 inhibitory signalling in oligodendrocytes as a therapeutic strategy to promote remyelination. *EMBO Mol Med.* Sep 30:e10378. doi: 10.15252/emmm.201910378 (2019) (IF = 10,624)

**Selection of Five Reviews published in High Profile International Peer-Reviewed Journals**

- 1) **MENSAH-NYAGAN A.G.**, DO-REGO J.L., BEAUJEAN D., LUU-THE V., PELLETIER G. and VAUDRY H.: Neurosteroids: expression of steroidogenic enzymes and regulation of steroid biosynthesis in the central nervous system. *Pharmacol. Rev.* 51: 63-81 (1999). (5YIF = 21,607)
- 2) SCHAEFFER V, MEYER L, PATTE-MENSAH C, **MENSAH-NYAGAN AG**: Progress in dorsal root ganglion neurosteroidogenic activity: basic evidence and pathophysiological correlation. *Prog. Neurobiol.* 92: 33-41 (2010). (5YIF = 13,096)
- 3) PATTE-MENSAH C, MEYER L, TALEB O and **MENSAH-NYAGAN AG**: Potential role of allopregnanolone for a safe and effective therapy of neuropathic pain. *Prog. Neurobiol.* 113: 70-78 (2014). (IF = 13,096)
- 4) MEYER L, TALEB O, PATTE-MENSAH C and **MENSAH-NYAGAN AG**: Neurosteroids and neuropathic pain management: basic evidence and therap. perspectives. *Front. Neuroend.* 55: 100795 (2019) (5YIF = 9,421)
- 5) MAITRE M, KLEIN C, PATTE-MENSAH C and **MENSAH-NYAGAN AG**: Tryptophan metabolites modify brain A $\beta$  peptide degradation: A role in Alzheimer's disease? *Prog. Neurobiol.* 190:101800 (2020) (5YIF = 13,096)

**Total number of publications: 111**

**Number of patents: 2 (WO 2012/127176 A1. 27.09.2012; WO 2013/024028 A1. 21.02.2013)**

**Number of International Meetings Organized: 18**

**Number of Invited Lectures presented in International Meetings: 47**

**Number of abstracts published in International Meeting Proceedings: 80**

**Number of PhD Theses supervised : 15.**