

CURRICULUM VITEA

Surname: DJIOGUE
First Name: Sefirin
Date and place of birth: 22 July 1978 at Yaounde – Cameroon
Sex: Male
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Familial statue: Married and father of four children
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EDUCATION :

Diploma	School	Session	Mention
Doctorat/Ph.D	University of Yaoundé1	2011	Très Honorable (Summa cum Laude with congratulations of the Jury)
“D.E.A” (Master degree with thesis) in Animal Physiology		February 2006	“Bien” (indeed)
“Maîtrise” (Master) in Animal Physiology		September 2004	“Assez-bien” (Rather indeed)
“Licence” (Bachelor’s Degree) in Natural Sciences		September 2002	“Passable”
Baccalauréat “D” (High School Diploma) in Mathematics and Natural Sciences	Lycee de Mballa 2	June 1998	Passable

Languages:	Level
French	Perfect
English	Very good
German	Few
Greek	Few

LABORATORY AND TEACHING EXPERIENCE:

Since November 2019: Associate Professor at the Department of Animal Biology and Physiology, Faculty of Science, University of Yaoundé 1 – Cameroon

From November 2013 to November 2019: Senior Lecturer at the Department of Animal Biology and Physiology, Faculty of Science, University of Yaoundé 1 – Cameroon.

From November 2011 to November 2013: Assistant Lecturer at the Department of Animal Biology and Physiology, Faculty of Science, University of Yaoundé I – Cameroon.

From 2005-2007: Monitor in charge of practicals at the Department of Animal Biology and Physiology, University of Yaoundé 1.

From 2005-2007: Biologist/Analyst at the National centre of Obesity, Central Hospital Yaoundé-Cameroon. Director: Prof Jean-Claude MBANYA.

From September 2007 to March 2009, and from November 2009 to April 2010: Exchange PhD fellow at the Laboratory of Pharmacognosy and Natural product chemistry, School of Pharmacy, University of Athens-Greece. Director: *Prof Alexios Leandros SKALTSOUNIS*.

From March to October 2009: Exchange PhD fellow at the Laboratory of Molecular Cell Physiology and Endocrinology, Technical University, Dresden-Germany. Director: *Prof. Dr. Günter VOLLMER*.

From April to November 2010: Exchange PhD fellow at the Laboratory of Molecular Cell Physiology and Endocrinology, Technical University, Dresden-Germany. Director: *Prof. Dr. Günter VOLLMER*.

Master Thesis Direction: I have been the director of twelve (12) Master Thesis: 09 already defended and 03 undergoing.

PhD Thesis Co-Direction: I am co-directing five (05) undergoing PhD thesis.

PAPERS (PUBLICATIONS):

- **Sefirin Djiogue**, Dieudonne Njamen, Maria Halabalaki, Georg Kretzschmar, Antje Beyer, Jean Claude Mbanya, Alexios-Leandros Skaltsounis, Gunter Vollmer. **Estrogenic properties of naturally occurring prenylated isoflavones in U2OS human osteosarcoma cells: Structure-activity relationships** *J. Steroid Biochem Mol. Biol.* 2010; 120: 184-191.
- **Sefirin Djiogue**, Maria Halabalaki, Xanthippi Alexi, Dieudonne Njamen, Zacharias Tanee Fomum, Michael N. Alexis, Alexios-Leandros Skaltsounis. **Isoflavonoids from *Erythrina poeppigiana*: Evaluation of their Binding Affinity for the Estrogen receptor.** *J Nat Prod*, 2009; 72(9): 1603-1607.
- Dieudonné Njamen, Benedicta Nkeh-Chungag, **Sefirin Djiogue**, Emmanuel Yankep, Erick Marcel Noudji, Jacques Djapou, Armel Camille Guimfack Kentsop, Jean Claude Mbanya. **Antidiabetic properties of the methanolic extract of *Bridelia grandis* (Euphorbiaceae) in ob/ob and db/db mice.** *Afr. J. Biotechnol.* 2011; 10(13): 2520-2523.

- E. Sobngwi, E. Balti, A.P. Kengne, L. Fezeu, B. Nouthe, **S. Djiogue**, D. Njamien, J.C. Mbanya. **Metabolic profile of sub-Saharan African patients presenting with first-ever-in lifetime stroke: Association with insulin resistance.** *J Stroke Cerebrovasc Dis.* 2012; 21(8): 639-646.
- **Sefirin Djiogue**, Armel Herve Nwabo Kamdje, Lorella Vecchio, Maulilio John Kipanyula, Mohammed Farahna, Yousef Aldebasi and Paul Faustin Seke Etet. **Insulin resistance and cancer: the role of insulin and IGFs.** *Endocrine-Related Cancer* 2013; 20: R1-R17.
- Dieudonne Njamien, Marie Alfrede Mvondo, **Sefirin Djiogue**, Germain Jean M. Ketcha Wanda, Chantal Beatrice Magne Nde, Gunter Vollmer. **Phytotherapy and Women's Reproductive Health: the Cameroonian Perspective.** *Planta Medica* 2013; 79: 600-611.
- Dieudonne Njamien, **Sefirin Djiogue**, Stephane Zingue, Marie Alfrede Mvondo and Benedicta N. Nkeh-Chungag. **In vivo and in vitro estrogenic activity of extracts from *Erythrina poeppigiana* (Fabaceae).** *J Complement. Integr. Med.* 2013; 10(1): 1-11.
- **Sefirin Djiogue**, Maria Halabalaki, Dieudonne Njamien, Georg Kretzschmar, George Lambrinidis, Josephine Hoeping, Francesca M. Raffaelli, Emanuel Mikros, Alexios-Leandros Skaltsounis, Günter Vollmer. **Erythroidine Alkaloids: A Novel Class of Phytoestrogens.** *Planta Medica* 2014; 80: 861-869.
- Germain Jean Magloire Ketcha Wanda, Steve Guemnang Ngitedem, **Sefirin Djiogue**, Franklin Zemo Gamu, Dieudonne Njamien. **Anticonvulsant and Sedative Properties of Leaves of *Neoboutonia Velutina* (Euphorbiaceae) Prain in mice.** *Journal of Diseases and Medicinal Plants* 2015; 1(2): 24-30.
- Annekatrin Martina Keiler, **Sefirin Djiogue**, Tino Ehrhardt, Oliver Zierau, Leandros Skaltsounis, Maria Halabalaki and Günter Vollmer. **Oleocanthal enhances estradiol induced gene expression through estrogen receptor α .** *Planta Med* 2015; 81: 1263-1269.
- **Sefirin Djiogue***, Mc Jesus Kinyok, Germain Jean Magloire Ketcha Wanda, Franklin Zemo Gamu, Paul Faustin Seke Etet, Armel Herve Nwabo Kamdje, Dieudonné Emmanuel Pegnyemb and Dieudonné Njamien. **Newtonoate as an active principle of *Newtonia griffoniana* for anxiolytic activity in Swiss mice.** *J Complement Integr Med.* 2015; 12(4): 283-287.
- Germain Jean Magloire Ketcha Wanda, **Sefirin Djiogue**, Franklin Zemo Gamu, Steve Guemnang Ngitedem, Dieudonné Njamien. **Anxiolytic and sedative activities of aqueous leaf extract of *Dichrocephala integrifolia* (Asteraceae) in mice.** *Journal of Ethnopharmacology* 2015; 176: 494-498.
- Stephane Zingue, Thomas Michel, Jules Tchatchou, Chantal Beatrice Magne Nde, Evelyn Winter, Andre Monchot, Charline Florence Awounfack, **Sefirin Djiogue**, Colin Clyne, Xavier Fernandez, Tania Beatriz Creczynski-Pasa, Dieudonne Njamien.

Estrogenic effects of *Ficus umbellata* Vahl. (Moraceae) extracts and their ability to alleviate some menopausal symptoms induced by ovariectomy in Wista rats. *Journal of Ethnopharmacology* 2016; 179: 332-344.

- Germain Jean Magloire Ketcha Wanda, **Sefirin Djiogue**, Sosthene Onesiphore Djoussi Njimfo, Charline Florence Awounfack, Dieudonné Njamen. **Evaluation of the estrogenic properties of aqueous extracts of *Tragia benthamii* Baker (Euphorbiaceae) and *Graptophyllum pictum* (Acanthaceae) and their ability to alleviate some menopausal symptoms induced by ovariectomy in Wistar rats.** *International Journal of Phytomedecine* 2016; (8): 366-378.
- Germain Jean Magloire Ketcha Wanda, Franklin Zemo Gamo, **Sefirin Djiogue**, Charline Florence Awounfack, Dieudonné Njamen. **Estrogenic and anxiolytic effects of the decoction of stem bark of *Khaya anthotheca* (WELW.) C.DC (Meliaceae) in ovariectomised Wistar rats.** *International Journal of Phytomedecine* 2017; (9): 241-252.
- Zemo Gamo Franklin, **Djiogue Sefirin**, Ketcha Wanda Germain Jean Magloire, Seke Etet Paul Faustin, Yonkeu Tatchou Floriane Gaele, Djikem Tadah Rudig Nikanor, Awounfack Charline Florence and Njamen Dieudonne. **Fourteen Days Post-Ovariectomy Estrogen Decline Is Associated with Anxiogenic Effects on Wistar Rats.** *Journal of Pharmacy and Pharmacology* 2017; (5): 869-876.
- Charline Florence Awounfack, Marie Alfrede Mvondo, Stephane Zingue, Sylvain Benjamin Ateba, **Sefirin Djiogue**, Rosette Megnekou, Derek Tantoh Ndinteh, Dieudonne Njamen. ***Myrianthus arboreus* P. Beauv (Cecropiaceae) extracts increases fertility Index and gestational rate in female Wistar rats.** *Medicines* 2018; 5(3), 73: 1-14.
- **Sefirin Djiogue**, Armando Blondel Djiyou Djeuda, Paul Faustin Seke Etet, Germain J.M. Ketcha Wanda, Rudig Nikanor Djikem Tadah, Dieudonne Njamen. **Memory and exploratory behavior impairment in ovariectomized Wistar rats.** *Behavioral and Brain Functions* 2018; 14:14: 1-8.
- Stephane Zingue, Harquin Simplicite Foyet, **Sefirin Djiogue**, Yannick Ezo'o Ezo'o, Herve Herve Ngatanko Abaïssou, Pafroumi Fachagbo, Dieudonne Njamen. **Effects of *Ficus umbellata* (Moraceae) aqueous extract and 7-methoxycoumarin on scopolamine-induced spatial memory impairment in Ovariectomized Wistar rats.** *Behavioural Neurology* 2018; article ID 5751864: 14 pages.
- Simeon-Pierre Choukem, Derrick Tembi Efié, **Sefirin Djiogue**, François F. Kaze, Yannick Mboue-Djieka, Thadee Boudjeko, Etienne Dongo, Jean-Francois Gautier, Andre-Pascal Kengne. **Effects of hydroquinone-containing creams on capillary glycemia before and after serial hand washing in Africans.** *PLoS ONE* 2018; 13(8): e0202271.
- **Sefirin Djiogue**, Chiara Adjoffoin Nange, Florette Motoum Tedjo, Franklin Zemo Gamo, Charline Florence Awounfack, Pierre Kamtchouing, Dieudonné Njamen. **Royal Jelly Induced Anxiolytic Effects and Prevent Hot Flushes in a Menopausal Model on Wistar rats.** *Biomed J Sci &Tech Res* 2019; BJSTR.MS.ID.003356.

- Sylvin Benjamin Ateba, Marie Alfrede Mvondo, **Sefirin Djiogue**, Stephane Zingue, Liselotte Krenn, Dieudonné Njamen. **A pharmacological Overview of Alpinumisoflavone, a Natural Prenylated Isoflavonoid.** *Front. Pharmacol.* 2019; 10:952. doi : 10.3389/fphar.2019.00952.
- Franklin Zemo Gamo, Sylvin Benjamin Ateba, Germain J.M. Ketcha Wanda, **Sefirin Djiogue**, Dieudonné Njamen. ***Pachystela brevipes* (Bak.) ENGL stem bark decoction exhibited estrogenic effects on ovariectomized Wistar rats.** *IJEAST* 2020; 4(11): 67-72.
- **Sefirin Djiogue**, Florette Motoum Tedjo, Franklin Zemo Gamo, Charline Florence Awounfack, Paul Faustin Seke Etet, Germain J.M. Ketcha Wanda, Dieudonné Njamen. **Oestrogen-like and anxiolytic properties of Pueraria phaseoloides extracts on ovariectomized Wistar rats.** *Biomed J Sci &Tech Res* 2020; DOI:10.26717/BJSTR.2020.28.004699.

BOOKS

Sefirin Djiogue. **Phytoestrogènes d'Erythrina poeppigiana: Extraction et Caractérisation Pharmacologique.** *Presses Academiques Francophones (PAF)* 2014; 181 pp, ISBN: 978-3-8381-4503-7.

Communications to international conferences

- **Sefirin Djiogue**, Maria Halabalaki, Xanthippi Alexi, Dieudonne Njamen, Zacharias Taneé Fomum, Michael N. Alexis, Alexios-Leandros Skaltsounis. **Phytochemical investigation and Biological Evaluation of Secondary Metabolites from Erythrina poeppigiana (Fabaceae).** 57th International Congress and annual meeting of the Society for Medicinal Plant and Natural Products Research. Geneva 16-20 August 2009. *Planta Med* 2009; 75(9): 877-1094.
- Halabalaki Maria, **Djiogue Sefirin**, Tchoumtchoua Job, Arapogianni Niki-Eliza, Paschali Aristeia, Alexi Xanthippi, Georg Kretzschmar Alexis N. Michael, Vollmer Günter and Skaltsounis A. Leandros. **Isolation, structure determination and bio-evaluation of Natural Products expressing affinity to Nuclear Receptors.** The 51st Annual Meeting of the American Society of Pharmacognosy and The Phytochemical Society of North America, Florida July 10th-14th, 2010.
- Halabalaki Maria, **Djiogue Sefirin**, Tchoumtchoua Job, Niki Eliza Arapogianni, Paschali Aristeia, Alexi Xanthippi, Georg Kretzschmar Alexis N. Michael, Günter Vollmer and Skaltsounis A. Leandros. **Nuclear Receptors and Natural Products: Isolation, Structure Determination and Biological Evaluation.** 58th International

Congress and Annual Meeting of the Society for Medicinal Plant and Natural Products Research, Berlin 29 August-2 September 2010.

- **Sefirin Djiogue**, Dieudonné Njamen, Maria Halabalaki, Georg Kretzschmar, Anjte Beyer, Jean Claude Mbanya, Alexios-Leandros Skaltsounis, Günter Vollmer. **Estrogenic properties of prenylated isoflavones in U2OS Human Osteosarcoma Cells: Structure-activity relationships**. 58th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Products Research, Berlin 29 August-2 September 2010.
- **Sefirin Djiogue**, Maria Halabalaki, Dieudonne Njamen, Zacharias Tanee Fomum, Alexios-Leandros Skaltsounis. **Phytochemical Analysis of Laeguminosae plants originated from Cameroon**. 7th jointmeeting of AFERP, ASP, GA, PSE and ISF. 3-8 August 2008, Atheneum Intercontinental. Athens-Greece. *Planta Med* 2008; 74: 9, p 1079.
- E. Balti, E. Sobngwi, A.P. Kengne, L. Fezeu, B. Nouthe, **S. Djiogue**, D. Njamen, J.C. Mbanya (Cameroon). **Stroke and insulin resistance in sub-Saharan African patients presenting with first-ever-in lifetime stroke**. 20th World Diabetes Congress, Montreal 18-22 October 2009. (IDF 2009).
- **S. Djiogue**, M. Halabalaki, D. Njamen, G. Kretzschmar, AL Skaltsounis, G. Vollmer. **Erythroidin: a novel class of Alkaloids phytoestrogens from Erythrina poeppigiana?** *International Symposium 'Bioactive principles of medicinal plants and diet'* Dresden 01-05 October 2012, Dresden-Germany.
- **Sefirin Djiogue**. **Menopause related anxiety: toward an experimntal model**. International Alumni symposium "Efficacy and Safety of Medicinal Plants and Dietary Supplement" Dresden, 30 September – 07 October 2015, Dresden, Germany.
- DJIKEM TADAH Rudig Nikanor, **DJIOGUE Sefirin**. **Estrogenic and anxiolytic effects of *Calopogonium mucunoides* (Fabaceae) on Wistar ovariectomised female rats**. 23rd Annual Conference of Cameroon Bioscience Society, Bagangte, 1st-3rd December 2016, Cameroon.
- YONKEU TATCHOU Floriane Gaele, **DJIOGUE Séfirin**. **Impact of oestrogen depletion induced by ovariectomy on anxiety-related behavior**. 23rd Annual Conference of Cameroon Bioscience Society, Bagangte, 1st-3rd December 2016, Cameroon.
- **Sefirin DJIOGUE**. **Pueraria phaseoloides extracts alleviates hot flashes and reduced anxiety on ovariectomized Wistar rats**. International Alumni symposium 2017 "Natural Compounds: From Molecular Mechanisms to Applications" Dresden, 07-15 September 2017, Dresden, Germany.
- **DJIOGUE Sefirin**, DJIKEM TADAH Rudig Nikanor, MBA'NING Brice Mitterant, KETCHA WANDA Germain Jean Magloire, NGOUELA Silvere Augustin, NJAMEN Dieudonné. **Estrogenic and anxiolytic effects of Mangiferin from *Salacia Camerunensis* (Fabaceae) on ovariectomised Wistar rats**. 24th Annual Conference

of the Cameroon Biosciences Society, November 28 – December 02 2017, Buea, Cameroon.

- MOTOUM TEDJO Florette, **DJIOGUE Sefirin**, DJIKEM TADAH Rudig, ZEMO GAMO Franklin, AWOUNFACK Charline Florence, NJAMEN Dieudonné. **Aqueous extract of Pueraria Phaseoloides exerts estrogenic and anxiolytic-like effects in female wistar rats in absence of ovarian hormones.** 6th Life Science Conference JSV 2018, August 8th-10th, 2018, Dschang, Cameroon.
- ADJOFFOIN Chiara NANGE, **DJIOGUE Sefirin**, MOTOUM TEDJO Florette, NJAMEN Dieudonné. **Effects of royal jelly on menopause related anxiety and on hot flushes in oophorectomised wistar rats.** 1st Conference and 2nd General Assembly of The Cameroon Association for Neuroscience (CAMANE), 12-14 December 2018, Yaounde, Cameroon.
- **Sefirin DJIOGUE**, Chiara ADJOFFOIN Nange, Dieudonné NJAMEN. **Effects of Royal on some menopausal dysfunctions in oophorectomized wistar rats.** HUMBOLDT KOLLEG, “Genetic Resources, Research and Innovation”. Yaounde, April 3-6, 2019, Cameroon.
- **Sefirin DJIOGUE. Pro-fertility effects of a traditional medicine “EKOM” on immature female Wistar rats.** 19th International congress of the International Society for Ethnopharmacology. June 12th-14th, 2019, Dresden, Germany. **Invited speaker**

AWARDS, GRANTS AND DISTINCTIONS:

- Recipient of a travel grant by the Society for Medicinal Plant and Natural Products Research (GA), for its 57th International Congress. Geneva 16-20 August 2009.
- Recipient of a travel grant offered by DAAD to take part to the International Symposium “*Bioactive Principles of Medicinal Plants and Diet*” Dresden 01-05 October 2012, Dresden-Germany.
- Recipient of a travel grant offered by DAAD to take part to the International Symposium “*Efficacy and Safety of Medicinal Plants and Dietary Supplements*” Dresden, September 30 - October 07 2015, Dresden-Germany.
- Appointed **TU-Dresden REGIONAL AMBASSADOR** for Cameroon and Africa. Dresden, October 3th 2015, Germany.
- Recipient of a travel grant offered by DAAD to take part to the International Symposium “*Natural Compounds: From Molecular Mechanism to Applications*” Dresden 07-15 September 2017, Dresden-Germany.
- **Invited Speaker** to the 19th International Congress of the International Society for Ethnopharmacology (ISE). June 12th-14th 2019, Dresden, Germany.
- Focal point of the **ERASMUS+** exchange program between the TU Dresden and the University of Yaounde I for the period 2019-2021.

MEMBERSHIP OF SCIENTIFIC SOCIETIES/JOURNALS:

- Member of ALFEDIAM (Association de Langue Française de Recherche sur le Diabète et les Maladies Métaboliques).
- Member of G.A (Society for Medicinal Plant and Natural Product Research).
- Member of IBRO (International Brain Research Organization).
- Member of Cameroon Bioscience Society (CBS).
- Member of CAMANE (Cameroon Association for Neurosciences).
- Editorial board member and Reviewer of “*Journal of Disease and Medicinal Plants*” (Science Publishing Group).
- Reviewer for *Clinical Phytoscience* (Springer) since 2016.
- Reviewer for *BMC Complementary and Alternative Medicine* (Springer Nature) since 2016.
- Reviewer for Journal of *Gynaecological Research and Obstetric* since 2017.
- Review Editor of *Frontiers in Pharmacology, (Ethnopharmacology)* since June 2019.

KEY WORDS:

Structure-activity relationships, Physiology, Pharmacognosy, Pharmacology, Natural products, Phytoestrogens, Anxiety, Neurodegeneration, Drug discovery, Antidiabetics, Cell physiology, Endocrinology, in vivo assay, in vitro techniques, rats, mouse, ob/ob, db/db, Cell line, Cell culture, RT-PCR, Western Blott, Elysa.