

Date and place of birth: February 23, 1982 in Latakia, Syria.

Institutional Affiliation and Address

Tishreen University Latakia-Syria.

Faculty of pharmacy; Department of Pharmacognosy.

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Educational Qualifications

2009-2013: Ph.D in Phytochemistry, Thesis title "**Chemical and Biological Studies of three *Alphitonia* (Rhamnaceae) Endemic of New Caledonia**". University of Reims Champagne Ardenne -France.

2008-2009: Master2 M2 (C-BOBI) Bio-Organic & Bio-Inorganic Chemistry. Thesis title "**Synthesis and biological evaluation of MRP1 modulators**". Faculty of Chemistry- Joseph Fourier University – Grenoble1-France.

2007-2008: Master1, M1 Engineering for Health and Medicine. Thesis title "**Determination of a bioactive chalcone in mouse organs**". Faculty of Pharmacy- Joseph Fourier University – Grenoble1-France.

1999-2004: Degree in Pharmacy and Pharmaceutical Chemistry; Faculty of Pharmacy- Tishreen University.

Papers Published in Peer-reviewed Journals

- Triterpenoid Saponins and Other Glycosides From the Stems and Bark of *Jaffrea Xerocarpa* and Their Biological Activity. **Dima Muhammad**, Nathalie Lalun; Helene Bobichon; Elisabeth Le Magrex Debar; Sophie C Gangloff; Mohammed Nour, Laurence Voutquenne, *Phytochemistry*; **141, 121-130; 2017.**
- Flavonoids and triterpenoids from the leaves of *Alphitonia xerocarpus* Baill and their biological activity. **Dima Muhammad**, Nathalie Lalun; Helene Bobichon; Elisabeth Le Magrex Debar; Sophie C Gangloff; Mohammed Nour, Laurence Voutquenne; *Phytochemistry*; **129, 45-57; 2016.**
- Isolation of flavonoids and triterpenoids from the fruits of *Alphitonia neocaledonica* and evaluation of their antioxidant, antityrosinase and cytotoxic activities. **Dima Muhammad**, Jane Hubert, Nathalie Lalun, Jean-Hugues Renault, Hélène Bobichon, Mohammed Nour and Laurence Voutquenne-Nazabadioko; *Phytochemical Analysis (PCA)*, **26 (2), 137–144, 2015.**
- Triterpenoid Saponins from *Symplocos lancifolia*, L.Acebey-Castellon, L. Voutquenne-Nazabadioko, H. Doan Thi Mai, N.Roseau, N. Bouthagane, **D. Muhammad**, E. Le Magrex Debar, S.C. Gangloff, M.Litaudon, T.Sevenet, N. Van Hung, C.Lavaud, *Journal of Natural Product*, **74 (2), 163–168, 2011.**
- A novel chalcone derivative which acts as a microtubule depolymerising agent and an inhibitor of P-gp and BCRP in in-vitro and in-vivo glioblastoma models. Ahcene Boumendjel, Anne McLeer-Florin, Pierre Champelovier, Diane Allegro, **Dima Muhammad**, Florence Souard, Madiha Derouazi, Vincent Peyrot, Bertrand Toussaint and Jean Boutonnat, *BMC Cancer*, **9:242, 2009.**

Participation at Conferences (poster & oral presentations)

- (1-2 Septembre 2011) 21^{èmes} Journées scientifiques de Stolon à Clermont-Ferrand- France.
- (6-9 November 2012) 7ème CIPAM - International Symposium on the Aromatic and Medicinal Plants. La Réunion- France.
- (22-24 May 2013) Symposium international de l'AFERP et Stolon. Brussels-Belgium.
- (30 May 2013) Journées de la Société Chimique de France; Reims-France.

Mastered Technologies and Expertise

- Separation methods for natural products:
 - Centrifugal Partition Chromatography **CPC**
 - Analytical, semi and preparative chromatography
 - Flash Chromatography **FC**
- Structural Elucidation :
 - NMR Nuclear Magnetic Resonance (Topspin)
 - MS Masse spectroscopy
- Biological tests:
 - Antibacterial activity
 - Enzymatic assay (Inhibitors of tyrosinase activity)
 - Cytotoxic activity *in vitro* (colorimetric method)

Languages

- Arabic (Native)
- English (speaking, reading and writing)
- French (speaking, reading and writing)