

**Dr. T. SALEH**

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## PhD in Organic Chemistry

Highly motivated synthetic organic chemist, proficient in organic chemistry, seeks creative role to use problem solving, technical, scientific, communication and organizational skills.

### *Skills*

- Organic synthesis :**
- **Chemical Development & Process.** Competent in leading a research project from the lab stage to pilot stage in reduced cost. Working under GMP rules
  - **Medicinal Chemistry & Molecular Design,** radical, carbohydrate, heterocyclic, organometalic chemistry. Controlled polymerisation chemistry. Microwave & automated facilities. HPLC coupled parallel synthesis. Purification (Biotage's facilities)
- Analysis**
- 2D NMR, HPLC, GC, IR, Mass (interpretation)
- Computing:**
- Microsoft Office, molecular modelling and HTML language, Beilstein and Sci finder scholar (Bibliographic research), ISIS base, ChemDraw

### *Professional experience*

- 2005 – Date** *PFIZER-UK* Sandwich VM Drug Discoveries (**Process Division**). Organic synthesis, Process and scale-up of diversity of drug molecules for a variety of therapeutic area. (Supervisory experience in managing a team of students).
- 2004-2005** *DIATOS* (Biotechnology company involved in cancer research). Solid supported peptide synthesis (SPPS) and peptide-natural substance coupling (*Interim temporary research position*). (Paris-France)
- 2003-2004** *MERCK-KGaA* (Development & Process Department), Chilly-Mazarin- Pithiviers, France. (**Team leader**) Development of a drug for diabetic treatment (in order to reduce the manufacturing cost). Author of patent. Research on making new family of drugs in the same field. (Supervisory experience)
- 2001-2003** *Rhodia-Ecole Polytechnique* Palaiseau, France. Post-doctoral Researcher (Under the direction of the Prof. **Samir ZARD**). Synthesis of small drugs molecules *via* radical chemistry. I supervised a PhD student throughout this time
- 1999-2001** *University of Nebraska-Lincoln* U.S.A. Post-doctoral Researcher. "Total Synthesis of Isoprostanes". I supervised both PhD and BSc students throughout this time

### *Education*

- 1996-1999 :** ✓ **Ph.D. Organic Chemistry** University Paris-XI Institut de Chimie Moléculaire d'Orsay, France. "Total synthesis of Hemibrevetoxine B1" Supervisor Dr. Gérard ROUSSEAU
- 1995-1996 :** ✓ **D.E.A (equivalent to M.Sc.) Organic Chemistry** Université Paris-XI, CSN Gif / Yvette, France. "Total Synthesis of Ring C of Taxol"
- 1994-1995 :** ✓ **Maîtrise (equivalent to B.Sc.) Organic Chemistry** Université Paris Sud-XI, France.

## Languages

**English** good level (improved by post-doctoral position in USA and UK), **German** (beginner)

## Publications

- 1- **Twana Saleh** (main inventor name). European & International patent (Process-Pfizer) [coming soon](#).
- 2- **Twana Saleh** and Bernard Boudet. International patent WO 2005/102977 - 04291091.9- 2004 (Merck-Process).
- 3- **T. Saleh** and S.Z. Zard. A new isonitrile based radical cyclisation Chem. Commun. (in press).
- 4- James M. Takacs, Scott D. Schroeder, Jianxin Han, Meg Gifford, Xun-tian Jiang, **Twana Saleh**, Suresh Vayalakkada, and Amy H. Yap, "Palladium-Catalyzed Bisdien Carbocyclizations: Optimizing for Cyclization-Trapping versus Cycloisomerization with N-Hydroxy Phthalimide." Org. Lett. 2003, 5, 20, 3595-3598.
- 5- "On the Importance of Xanthate Substituents in the MADIX Process." Destarac, Mathias; Taton, Daniel; Zard, Samir Z.; **Saleh, Twana**; Yvan, Six. Rhodia Recherches, Centre de Recherches d'Aubervilliers, Aubervilliers, Fr. ACS Symposium Series (2003), 854(Advances in Controlled/Living Radical Polymerization), 536-550
- 6- "An efficient Construction of Quaternary centers and polycyclic Structures", G. Binot; B. Quiclet-Sire; **Twana. Saleh**; S.Z. Zard. Synlett 2003, 3. 382-386.
- 7- **Twana Saleh** and Gérard Rousseau, "Preparation and Reaction of 1-Allyl-4-deoxymannose Derivatives" Tetrahedron, 58 (2002) 2891-2897.
- 8- **Twana Saleh** and Gérard Rousseau Synlett. 1999, 5. 617-619. "Preparation of (±)1-Allyl-4-deoxy mannose Derivatives".
- 9- "Advances in controlled/Living Radical Polymerization" Taton, Daniel; Zard, Samir Z.; **Saleh, Twana**; Yvan, Six. Influences of the Structural Design of RAFT Agents on Living Radical Polymerization Kinetics. 551, (19)

## Presentations

- **11<sup>th</sup> European Symposium on Organic Chemistry (ESOC 11)** 23<sup>rd</sup>-28<sup>th</sup> July 1999, Göteborg, Sweden.
- **Socrates intensive course**. "Strain in Organic Chemistry" 22-28 August 1999 BANGOR, University of Wales, UK
- **Palladium-catalyzed bisdiene Carbocyclization: Optimizing Cyclization Trapping Versus Cycloisomerization with N-hydroxyphthalimide.** Takacs, James M.; Schroeder, Scott D.; Gifford, Meg; Saleh, Twana; Vayalakkada, Suresh; Yap, Amy H. Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE, USA. Abstracts of Papers, 225<sup>th</sup> ACS National Meeting, New Orleans, LA, United States, 23<sup>th</sup>-27<sup>th</sup> March, 2003 (2003), ORGN-058. Publisher: American Chemical Society, Washington, D. C CODEN: 69DSA4 Conference .
- **XVIII<sup>th</sup> European Colloquium on Heterocyclic Chemistry.** 4<sup>th</sup>-7<sup>th</sup> October 1998, Rouen, France (poster).
- **Journées de Chimie Organique (JCO 98)** 15<sup>th</sup>- 17<sup>th</sup> September 1998 at Ecole Polytechnique Palaiseau, France (poster).
- **Journées de l'Ecole Doctorale Interface Chimie-Biologie** 24<sup>th</sup>-25<sup>th</sup> September 1998 (poster) at Université Paris Sud. ORSAY France.

## Hobbies

**Sport** (biking). **Cinema** (Historic, Science fiction, Adventure). **Music**

## References