**CURRICULUM VITAE**

***Mohamed Salah Omar***

October, 2015

**GENERAL INFORMATION**

Name: Mohamed Salah Omar

Sex: Male

Date of Birth: 12th July 1972

Place of Birth: Menoufiya, EGYPT

Nationality: Egyptian

Marital Status: Married with three kids

Present Occupation: **Lecturer of Biochemistry**, Chemistry Department, Faculty of Sciences, Benha University, Benha - Egypt.

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**EDUCATION**

April 2006  **Ph.D.** degree in **Biochemistry** from the Institute of Immunology and Experimental Therapy, Polish Academy of Sciences. Wroclaw, Poland.

Thesis Title: ‘’ **Synthesis, Biochemical Characterization and Biological Activity of Protein-Methotrexate Conjugates**”.

January-April 2006 Ph.D. an introductory academic year ‘’**Biochemistry**’’ from the Institute of Immunology and Experimental Therapy, Polish Academy of Sciences. Wroclaw, Poland.

**General Grade: *Very Good****.*

July 2000 **M.Sc.** degree from the Faculty of Sciences, Benha University, Benha–Egypt.

September 1995 – December 1996 Pre-master an introductory academic year.

**General Grade: *Very Good****.*

September 1990 – August 1994 **B.Sc.** Major *Chemistry,* from the Faculty of Sciences, Benha University, Benha–Egypt.

**General Grade: *Excellent with Honour Degree****.*

**INTERNATIONAL & LOCAL TRAINING**

- Biochemistry Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, (**2002-2006)**, Wroclaw, Poland.

- Immunochemistry Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, (**2002-2006)**, Wroclaw, Poland.

- Purification of Bacteriophages Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, (**2002-2006**); Wroclaw, Poland.

- Water treatments Chemistry Department, Faculty of Sciences, Benha University, (**2000-2001**); Benha–Egypt.

- Polymer Chemistry Chemistry Department, Faculty of Sciences, Benha University, (**1997-2000**); Benha–Egypt.

**ACADEMIC POSITIONS**

April 2006–Present  **Lecturer of Biochemistry**, Chemistry Department, Faculty of Sciences, Benha University, Benha–Egypt.

July 2000–April 2006 **Assistant Lecturer**, Chemistry Department, Faculty of Sciences, Benha University, Benha–Egypt.  **&**

**Ph.D student** Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Department of Experimental Oncology Laboratory of Biomedical Chemistry.

September 1994–July 2000 **Demonstrator**, Chemistry Department,Faculty of Sciences, Benha University, Benha–Egypt.

September 1990–August 1994 **B.Sc**. student, Chemistry, Department ,Faculty of Sciences, Benha University, Benha–Egypt.

**AREA OF RESEARCH INTEREST:**

1. Chemical modification of proteins “thermal glycation of proteins with sugars” (**Ph.D. research**).
2. Chemical drug delivery systems, for tumor therapy via the chemical conjugation of cytotoxic drugs with macromolecules “native/modified proteins and carbohydrates’’ (**Ph.D. research**).
3. Bacteriophages purification (an activity besides the **Ph.D. research**).
4. Improvement of white pinewood properties by impregnation with some expected fire-retardant polymers (**M.Sc. work**).
5. Water treatments ‘’removal and recovery of heavy metal and radioactive elements from seawater” (2000-2001).

**WORKING EXPERIENCE**

January 1995–Mars 1996: Military Service.

**TEACHING EXPERIENCE**

September 2006- Current time: **Biochemistry Courses** for under & post graduate students in the Faculty of Sciences, Benha University, Benha–Egypt.

October 2003–April 2006: **Biochemistry** for under & post graduate students. Institute of Immunology and Experimental Therapy (Departement of Experimental Oncology-Laboratory of Biomedical Chemistry.), Polish Academy of Sciences, Wroclaw, Poland.

April 1997–March 2001: Aliphatic & Aromatic Chemistry, Organic Spectroscopy, Reaction Mechanism, Heterocyclic Chemistry, Biochemistry, Polymer Chemistry, Petroleum & Petro Chemicals and Practical Applied Organic and Biochemistry.

**PUBLICATIONS:**

1- Ahmed M. Kabel, **Mohamed S.Omar**, Mohamed F. Balaha and Hany M. Borg (**2015**): “Effect of metformin and adriamycin on transplantable tumor model. http://dx.doi.org/10.1016/j.tice.2015.07.003 (Article In Press)

2- [Desouky DE](http://www.ncbi.nlm.nih.gov/pubmed/?term=Desouky%20DE%5BAuthor%5D&cauthor=true&cauthor_uid=26086154), [Kasemy Z](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kasemy%20Z%5BAuthor%5D&cauthor=true&cauthor_uid=26086154), [Abdel-Hamid AE](http://www.ncbi.nlm.nih.gov/pubmed/?term=Abdel-Hamid%20AE%5BAuthor%5D&cauthor=true&cauthor_uid=26086154), and [**Omar MS**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Omar%20MS%5BAuthor%5D&cauthor=true&cauthor_uid=26086154) (**2015**). Insulin Resistance and Prediabetes in Hepatitis C Virus Patients. [Am J Med Sci.](http://www.ncbi.nlm.nih.gov/pubmed/26086154) 2015 Aug; 350(2):77-80. doi: 10.1097/MAJ.0000000000000513.

3- Dalia El- Sayed Desouky, Reda Abdellatif Ibrahem and **Mohamed Salah Omar** (**2015**): ‘’Prevalence and Comorbidity of Depression, Anxiety and Obsessive Compulsive Disorders among Saudi Secondary School Girls, Taif Area, KSA’’. Archives of Iranian Medicine, Volume 18, Number 4, April 2015.

4- [**Omar MS**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Omar%20MS%5BAuthor%5D&cauthor=true&cauthor_uid=26101502), and [El-Sayed Desouky D](http://www.ncbi.nlm.nih.gov/pubmed/?term=El-Sayed%20Desouky%20D%5BAuthor%5D&cauthor=true&cauthor_uid=26101502) (**2015**): Environmental, urinary iodine status and prevalence of goitre among schoolchildren in a high altitude area of Saudi Arabia. [Pak J Med Sci.](http://www.ncbi.nlm.nih.gov/pubmed/26101502) 2015 Mar-Apr;31(2):414-9. doi: 10.12669/pjms.312.6637.

5- Sherif M. A. S. Keshk and **Mohamed S. Omar** (**2014**): Bacterial Cellulose and Its Phosphonic Dichloride for Efficient Removal of Metal Ions. *American Journal of Polymer Science*; 4(2): 46-53.

6- Dalia S. Desouky, **Mohamed S. Omar**, Dalal M. Nemenqani, Jaweed Jabbar and Nighat M. Tarak-Khan (**2014**): Risk factors of non-communicable diseases among female university students of the Health Colleges of Taif University. *International Journal of Medicine and Medical Sciences*; 6(3), 97-107.

7- Tomasz Goszczyński, Dmitry Nevozhay, Joanna Wietrzyk, **Mohamed Salah Omar**, Janusz Boratyński (**2013**): The antileukemic activity of modified fibrinogen–methotrexate conjugate. *Biochimica et Biophysica Acta*; 1830, 2526-2530.

8- [Nevozhay D., Budzynska R., Jagiello M., Kańska U., **Omar M.S.**, Opolski A., Wietrzyk J., Boratynski J.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=16827162&query_hl=1&itool=pubmed_docsum) (**2006**): The effect of the substitution level of some dextran-methotrexate conjugates on their antitumor activity in experimental cancer models. ***Anticancer* *Res***. **26** (3A): 2179-86.

9- Nevozhay D., Budzyńska R., Kańska U., Jagiełło M., **Omar M.S.**, Boratyński J., Opolski A (**2006**): Antitumour properties and toxicity of dextran-methotrexate conjugates are dependent on the molecular weight of the carrier. ***Anticancer Res***. **26**: 1135-1144.

10- Kańska U, [**Omar MS**](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Omar+MS%22%5BAuthor%5D),  [Budzyńska R.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Budzynska+R%22%5BAuthor%5D), [Nevozhay D](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Nevozhay+D%22%5BAuthor%5D),  [Jagiełło](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Jagiello+M%22%5BAuthor%5D) M., [Opolski A](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Opolski+A%22%5BAuthor%5D), and Boratyński J. (**2005**): Antileukemic activity of glycated fibrinogen-methotrexate conjugates. ***Anticancer Res***. **25**(3B):2229-34.

11- Mahmoud A.A., Eissa A.M.F., **Omar M.S**., El-Sawy A.A., and Shaaban A.F. (**2003**): Improvement of white pine wood properties by impregnation with mixtures of methyl methacrylate and phthalimide monomers, subsequent in situ copolymerization. ***Pigment & Resin Technology****;* **32**(1), 24-29.

12- Mahmoud A.A., Eissa A.M.F., **Omar M.S**., El-Sawy A.A., and Shaaban A.F. (**2001**): Improvement of White Pine wood Properties by Impregnation with Unsaturated Polyesters in Admixture with Styrene. ***J.Appl.Poly.Sci***.; **82**, 1410-16.

13- Mahmoud A.A., Eissa A.M.F., **Omar M.S**., El-Sawy A.A., and Shaaban A.F. (**2000**): Improvement of White Pinewood Properties by Impregnation with Thiourea-Formaldehyde Resin and Orthophosphoric Acid’’. ***J.Appl.Poly.Sci***.; **77,** 390-397.

**ACTIVITIES**

* **Books**

1- [Dalia Desouky](https://www.morebooks.de/search/gb?q=+Dalia+Desouky&via_keyword=1), [Mohammed Omar](https://www.morebooks.de/search/gb?q=+Mohammed+Omar&via_keyword=1) (2014): Risk Factors of Non Communicable Diseases. LAP LAMBERT Academic Publishing (2014-06-09 ); ISBN: 978-3-659-55604-3.

* **US patent**

1**-** Method of production of polyanionic drug-carrier conjugates” **US2011/0245466** A. Boratyński J., **Omar M. S.**, Kańska U., Nevozhay D., and Wietrzyk J.

* **European patent**

1- A method for preparing the modified chemical molecule” **PCT/PL03/00138**. Boratyński J., **Omar M. S.**, Kańska U., Budzyńska R., Jagiełło M., Wietrzyk J., Nasulewicz A., Opolski A., and Górski A., (European patent pending)

* **Polish patents**

1- "Sposób wytwarzania polianionowych koniugatów lek-nośnik"-**o udzielenie patentu**/Wrocław, dnia 23 października 2008r -Boratynski J., **Omar M. S**., Kańska U., Nevozhay D., Wietrzyk J.

2- "Sposób aktywacji cząsteczki chemiczney”. **P 357664, 10-12-02**., Boratynski J., **Omar M. S**., Kańska U., Budzyńska R., Jagiełło M., Wietrzyk J., Nasulewicz A., Opolski A., Górski A..

3- "Sposób modyfikacji cząsteczki chemicznej”. **PL 195813 B1**, **31-10-07**., Boratyński J., **Omar M. S**., Kańska U., Budzyńska R., Jagiełło M., Wietrzyk J., Nasulewicz A., Opolski A., Górski A.,

**Poster Presentation**

1- Mahmoud A.A., Eissa A.M.F., **Omar M.S*.***, El-Sawy A.A., and Shaaban A.F. (1999): Improvement of White Pinewood Properties by Impregnation with Thiourea-Formaldehyde Resin and Orthophosphoric Acid. In 5th ARAB international conference on polymer science and technology. September 18-22 Luxoer-Aswan, Egypt. Book of Abstracts P-430.

2- Mahmoud A.A., Eissa A.M.F., **Omar M.S.**, El-Sawy A.A., and Shaaban A.F. (1999): Improvements of white pine wood properties by impregnation with unsaturated polyesters in admixture with styrene. In 5th ARAB international conference on polymer science and technology. September 18-22 Luxoer-Aswan, Egypt. Book of Abstracts P-437.

3- Kańska U., **Omar M. S.**, Budzyńska R., Jagiełło M., and Boratyński J.: Chemiczne i biologiczne właściwości glikowanego fibrynogenu sprzężonego z metotreksatem. “2nd National Сongress on Biotechnology” June 23-27, 2003. Łódź, Poland. Book of Abstracts P-69 (poster in polish).

4- Nevozhay D., **Omar M.S.**, Nasulewicz A., Kańska U., Wietrzyk J., Opolski A., and Boratyński J.: Antitumor activity of native and glycated fibrinogen-methotrexate conjugates. Current Achievements in Oncology. November 6-8, 2003, Poznan, Poland. Rept. Pract. Oncol. Radiother. 8 (Suppl.2) p.S327-S328, 2003.

5- **Omar M. S.**, Kańska U.and Boratyński J. A novel activation of methotrexate for the preparation of methotrexate-macromolecules conjugates. The Fourth Multidisciplinary Conference on Drug Research. Gdańsk-Sobieszewo. May 17-19, 2004. Book of Abstracts P-94.

6- Kańska U., **Omar M. S.**, Budzyńska R., Nevozhay D., Jagiełło M., Opolski A., and Boratyński J.: The chemical and biochemical properties and anti-leukemia activity of methotrexate-glycated fibrinogen conjugates. The Fourth Multidisciplinary Conference on Drug Research. Gdańsk-Sobieszewo. May 17-19, 2004. Book of Abstracts P-95.

7- Nevozhay D., Budzyńska R., **Omar M. S.**, Opolski A., and Boratyński J.: Antitumor activity of dextran-methotrexate conjugate. The Fourth Multidisciplinary Conference on Drug Research. Gdańsk-Sobieszewo, May 17-19, 2004. Book of Abstracts P-120.

8- Nevozhay D., **Omar M.S.**, Budzyńska R., Jagiełło M., Kańska U., Opolski A., and Boratyński J.: Conjugation of methotrexate and ralitrexed (tomudex) with different carrier macromolecules as a way of improvement of their antitumor effect. EACR 18. 18th Meeting of the European Association for Cancer Research. Innsbruck, Austria. 3-6 July 2004. Proceedings Book p.319.

9- Budzyńska R., Nevozhay D., **Omar M. S.**, Jagiełło M.,Opolski A., and Boratyński J.: Cytotoxic activity *in vitro* of dextran-methotrexate conjugates. 13th international AEK/AIO Cancer Congress of the German Cancer Society, March 13-16, 2005 University Wurzburg, Germany. Book of Abstracts p-42.

10- Jagiełło M., Budzyńska R., Nevozhay D., **Omar M. S.**, Opolski A., and Boratyński J.: The Chemical Properties and Cytotoxic Study *in vitro* of Raltitreksed-Carrier Conjugates. 13th international AEK/AIO Cancer Congress of the German Cancer Society, March 13-16, 2005 University Wurzburg, Germany. Book of Abstracts p 49-50.

11- Nevozhay D., Budzyńska R., **Omar M. S.**, Jagiełło M., Boratyński J., and Opolski A.: Antitumor activity and toxicity of several dextran-methotrexate conjugates with different levels of substitution. 13th international AEK/AIO Cancer Congress of the German Cancer Society, March 13-16, 2005 University Wurzburg, Germany. Book of Abstracts p- 42.

12- Nevozhay D., Budzyńska R., **Omar M.S.**, Boratyński J., and Opolski A.: Comparison of antitumor activity and toxicity of different methotrexate conjugates coupled with dextran macromolecules. 3rd Inernational Symposium on Targeted Anticancer Therapies. Amsterdam, The Netherlands, March 3-5, 2005, March 3-5, 2005. Book of Abstracts P-302.

13- Nevozhay D., Budzyńska R., **Omar M.S.**, Boratyński J., and Opolski A.: In vitro cytotoxicity of dextran-methotrexate conjugates is dependent on the molecular weight of the carrier used. Joint Meeting on Medicinal Chemistry. Veinna /Austria. June 20-23. Austrian-German-Hungarian-Italian -Polish-Spanish.

14- Nevozhay D., Budzyńska R., **Omar M.S.**, Boratyński J., Opolski A.: The biological properties of different dextran-methotrexate conjugates in tumor models *in vitro* and *in vivo* [in Russian]. The VIth Russian Oncological Congress. The Vth Conference of Young Scientists. October 11-15, (2005), Rostov-on-Don, Russia. The issues of clinical and experimental oncology, pp. 206-207.

**Oral Presentation**

1- Boratyński J.,  Kańska U., , Budzyńska R., Jagiełło M. and **Omar M. S.** (2002): Modyfikacje chemiczne makrocząsteczek i ich implikacje praktyczne. Konferencja Naukowa "Biotechnologia w Polsce", Gdańsk,  September 25-28, Gdańsk, Poland. (in Polish).

**CONTRIBUTION TO THE UNIVERSITY**

* Biochemistry Consultant of the Faculty of Sciences, Benha University, Benha–Egypt.
* Journey supervisor for undergraduate students.
* Coordinator in the development of all sports clubs within the university.
* An organizer in the first Scientific conference ‘’The Role of Science in the development of the Egyptian Society and Environment’’ that held in the Faculty of Science, Benha on 20-22, October 1996.

**PROFESSIONAL AWARDS**

* Biochemistry Consultant of the Faculty of Sciences, Benha University, Benha–Egypt.
* Award from Benha University financial prizes for four continuous years.
* Award from Benha University four honour certificates as I was the first student in the Faculty of Science for four continuous years.
* Award the **Ideal student prize** in 1994 from the Faculty of Science Benha University.
* Award a Ph.D. scholarship (four years) from Ministry of Higher Education, Egypt.
* Award the **Honor degree** for the Ph.D. research from Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw, Poland.

**REFERENCES**

- Prof. Dr. **Janusz Boratyński**: Professor and Head of Laboratory of Biomedical Chemistry. Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw, Poland.

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- Prof. Dr. **Nabil Saleh**: Professor of Biochemistry. Faculty of Science- Ain-Shams University. Cairo, Egypt.

**Phone: 202-4958157. E-mail:** [**nabilbio@hotmail.com**](mailto:nabilbio@hotmail.com)

- Prof. Dr. **Sherif Keshk**: Associate Professor. Ain-Shams University, Institute of Environmental Studies and Research..Cairo, Egypt.

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