

Taleb H. Al-Tel, Ph.D.

University of Sharjah
UAE

Education

- 4/1995 - 4/1996** Postdoctoral Research Associate
Prof. Dr. Scott McN. Sieburth, State University of New York at Stony Brook, USA.
Photo-[4+4]-cycloadditions of 2-pyridones; Total synthesis of 5-8-5-tricyclic antiviral natural products.
- 1995** Ph.D. (Suma Cum Laude) Tuebingen University, Germany.
Major: Organic Chemistry, Minors: Organometallic Chemistry, Biochemistry
Prof. h.c. Wolfgang Voelter
"Regio- and Stereoselective Strategies for the Synthesis of Polyfunctionalized Chiral Oxa-ring Systems for Medicinal Purposes"
- 1990** M.Sc. University of Jordan, Amman, Jordan & Pennsylvania State University, State College, Pennsylvania USA.
Prof. Musa Abu Zarga, Prof. Salim Sabri, Prof. Maurice Shamma
"Chemical Constituents of the Medicinal Plants of Jordan (VI): Isolation, identification and biological studies of the Constituents of *Colchicum ritchii* and *Leontice Leontopetalum*"
- 1987** B.Sc. Chemistry and Chemical Technology
College of Science and Technology (now Al-Qudus University), Jerusalem/West-Bank, Palestine.

Academic Appointments and Administrative Experience

- 9/2014 - present** Director, Research Institute of Medical and Health Sciences
University of Sharjah, Sharjah-UAE
- 9/2009 - 9/2015** Chairman of the Medicinal Chemistry Department
College of Pharmacy, University of Sharjah, Sharjah-UAE
- 1/2013 - present** Professor of Organic Medicinal Chemistry
College of Pharmacy, University of Sharjah, Sharjah-UAE
- 8/2007 - 12/2012** Associate Professor of Organic Medicinal Chemistry
College of Pharmacy, University of Sharjah, Sharjah-UAE
- 7/2004 - 7/2007** Principal Scientist and team leader of drug design and discovery research groups (cancer, obesity, viral and Alzheimers diseases), Transtech Pharma, High Point, North Carolina, USA
- 8/2003 - 7/2004** Visiting Professor, Department of Chemistry, Duke University
Durham, North Carolina, USA. Project: Self-Healing Reversible Polymers
- 9/1999 - 8/2002** Director of Studies & Research Unit, An-Najah National University
Nablus, West-Bank, Palestine

9/1996 - 6/2003 Assistant and then Associate Professor of Organic Chemistry
An-Najah National University, Nablus, West-Bank, Palestine

6/1990 - 4/1991 Teaching and Research Assistant
University of Jordan, Amman, Jordan

Visiting Professorships

7/2011 - 8/2011 Visiting Professor, Duke University, North Carolina, USA

7/2010 - 8/2010 Visiting Professor & Consultant at Transtech Pharma, North Carolina, USA

6/2009 - 8/2009 Visiting Professor, Molecular Pharmacology Research Institute (FMP)-
Berlin, Germany

6/2008 - 8/2008 Visiting Professor at the Molecular Pharmacology Research Institute (FMP)-
Berlin, Germany

6/2003 - 7/2003 Visiting Professor, Tuebingen University, Tuebingen, Germany

6/2000 - 9/2000 Visiting Professor, Chemistry Department, Tubingen University, Germany

6/1998 - 9/1998 Visiting Professor at the chemistry department, Tubingen University,
Germany

7/1997 - 9/1997 Visiting Professor, Ecole Normale Superieure, Paris, France

4/1996-9/1996 Visiting Professor, Chemistry Department, Tubingen University, Germany

International Awards and Honors

6/2003 - 8/2004 Fulbright-USA award for lecturing and research at Duke University

6/2003 - 8/2004 IDB (International Development Bank) award for lecturing and research
Chemistry Department, Duke University

1999 Abdel Hameed Shomman International Prize for the YOUNG Arab
Researcher

1995 NIH Postdoctoral Fellowship, State University of New York, Stony Brook,
NY, USA

4/1991 - 4/1995 DAAD award (German Exchange of Scholars, Germany) for Ph.D. Studies.

9/1987 - 6/1990 Scholarship, College of Science and Technology (Jerusalem) for M.Sc.

1990 The **ISESCO** Educational Award, Scientific and Cultural Organization
(**ISESCO**) Exchange-Research Award, H.E.J. Research Institute of
Chemistry. Prof. Dr. Atta-Ur-Rahaman, Karachi-Pakistan, isolation and
identification of naturally occurring alkaloids

4/1989 - 11/1989 NSF-USA-Exchange-Research-Student Award at Pennsylvania State
University, USA, isolation and identification of naturally occurring
alkaloids in the lab of Dr. Maurice Shamma

1/1988 - 6/1990 MANGO and Abdel Hameed Shoman Fellowships for M.Sc studies, University of Jordan, Amman, Jordan

1/1984 - 6/1987 President Award for B.Sc. studies (Honors list), College of Science and Technology-Jerusalem

Distinctions for Academics and Research

2013 University of Sharjah Incentive Award for Excellence in research.

2011 University of Sharjah Research Incentive Award-Sharjah Islamic Bank

2010 University of Sharjah Incentive Award for Excellence in research

External Competitive Research Grants

1. Selective Targeting of Thyrodoxin Reductase and Glutathione Reductase, Terry Fox Foundation Grant: 2019 to 2021. \$=80,000. (AlTel-PI).
2. Discovery of First in Class Lead Drug Candidates for the treatment of Superbugs. IsDB grant of 1.00 Million US\$. 2019-2021 (AlTel-PI).
3. Targeting Breast and Prostate Cancer: Design and Synthesis of Novel and Privileged polycyclic pyrido[1,2-a]quinolinones, Benzopyranes and Benzoxepines Motifs (AlJalila Foundation-AJF 201531) \$80,000. 2015 - present (AlTel-PI)
4. Design and Synthesis of Small Molecules for the Potential Modulation of the Tumor Suppressor TRAIL Protein-UOS-\$50,000. 2015 to present (AlTel-PI).
5. Design of Novel and Privileged Structures: Forward Chemical Genetics for Phenotypic Screening of Chemical Probes Toward Dissecting the Gap of Biological Space - UOS-\$50,000. 2015 to present (AlTel-PI).
6. Effect of Tumor Microrna Secretome before and after cancer chemotherapy on heart and skeletal muscle morphology and function"- funded by Aljalila Foundation - \$80,000, 2014 to present (AlTel-Co-PI).
7. OSU-2S Combinatorial Approach, the next level in tackling cancer cell survival" –PI-funded by Aljalila Foundation - \$95,000. 2014 to present (AlTel-Co-PI).
8. Terry Fox Foundation Grant: Drug Design of HDACs Inhibitors as Cancer Drug Targets, 2013 to 2014. \$70,000. (AlTel-PI)
9. Terry Fox Foundation Grant: Drug Design of HKII Inhibitors as Cancer Drug Targets, 2013 to 2014. \$85,000. (AlTel-Co-PI)
10. Boehringer Ingelheim Pharmaceutical Company Research Grant: Drug Design and Discovery Targeting Cancer, 2013 to present. \$300,000 (AlTel-PI)
11. KEF Holding Charity Foundation Grant: Targeting Caspases for the design and synthesis of cancer drug leads, 2013-2014. \$45,000. (AlTel-PI)
12. National Research Foundation-UAE Grant: Targeting Cancer and Alzheimers Diseases through the synthesis of Novel Schaffolds, 2011-2014 \$100,000. (AlTel-PI)

Other Grants Received

1. DFG (Germany) grant for summer research visits to the Molecular Pharmacology Research Institute in Berlin-Germany, 2008-2009. \$65,000.(AlTel-Co-PI)
2. NIH-Middle East Cancer Consortium Grant-1998-2000: Design and Synthesis of Nature inspired small molecules as anticancer drug leads. \$50,000 (AlTel-PI)
3. German Academic Exchange Grant Fund, 1997, Establishing Drug Design Laboratory equipment. \$55,000. (AlTel-PI)
4. Fresh Ministry of Higher Education Grant, 2001-2002: Total Synthesis of Natural Products from carbohydrate precursors. \$35,000. (AlTel-PI)

Currently Active Research Projects

1. Design and Synthesis of Selective HDACs inhibitors as validated targets for diabetes and cancer.
2. Design and Synthesis of Hexo kinase II inhibitors as cancer drug target.
3. Design and synthesis of BACE1 inhibitors.
4. Using privileged substructure diversity oriented synthesis for the Design and Synthesis of Privileged and Novel Nature-Inspired Libraries for phenotypic screening against different disease states.

Research Collaborators

1. Prof. Ralph Mazitschek, Harvard Medical School, USA.
Selective targeting of HDACs as well as Phenotypic Screening Campaign of Privileged Compound collections.
2. Prof. Stuart Schreiber, Harvard University.
3. Prof. Kim Janda, Scripps Research Institute, San Diego, CA, USA.
Phenotypic Screening Campaign of Privileged Compound collections.
4. Dr. Wael Rabeh, New York University, NY, USA
Selective targeting of HKI.
6. Prof. Salim Merali, Moulder Drug Discovery Center, Temple University, Philadelphia-USA.

Scholarly Activities: Reviewing and Refereeing**Journals**

Bioorganic and Medicinal Chemistry	European Journal of Medicinal Chemistry
Journal of Materials Chemistry B	Journal of Medicinal Chemistry
Organic and Biomolecular Chemistry	Organic Letters
MedChemComm	The Journal of Organic Chemistry
Tetrahedron	Tetrahedron Letters

Books

Patrick: An Introduction to Medicinal Chemistry (Oxford)

Grant Proposals

ACS Petroleum Research Grants Proposals, 2011
European Commission Sixth Framework Programme, 2011
ACS Teva Pharmaceuticals Scholars Proposals, 2012
European Commission Sixth Framework Programme, 2013
Terry Fox New Frontiers Program Project, 2013
ACS Petroleum Research Grants Proposals, 2014
Alzheimer Association Projects, USA, 2014
ACS Teva Pharmaceuticals Scholars Proposals, 2015
Alzheimer Association Projects, USA, 2016

Editorial Boards, Journals and Conferences

Mini reviews in Medicinal Chemistry (European), 2008 to present.
Open Journal of Natural Products (European), 2008 to present.

Executive Organizer and International Advisory Board, *International Drug Discovery and Therapeutics Conference-UAE* (International), 2008 to present.

Professional Memberships and Activities

American Chemical Society (ACS) member-UAE Chapter, 2016 to present, Vice Chair
ACS Organic Division, 2003 to present
ACS Medicinal Chemistry Division, 2003 to present
American Association for the Advancement of Science (AAAS), 2003 to present
International Union of Pure and Applied Chemistry (IUPAC), Affiliate, 2003 to present
Central German-DAAD Committee for Palestine (selection of Ph.D. & M.Sc candidates to study in Germany, 1997 to 2003)

Oral Presentations and Abstracts Published in International Conferences

More than 70 presentations at universities and international conferences

Selected Session Chair at International Conferences

International Conference on Chemistry and Environmental sciences, AUS, Sharjah- March 2016.
Invited Speakers Session Chair, 7th International Conference on Drug Design and Therapy, UOS-Sharjah, 2016.
American Chemical Society, Division of Organic Chemistry, Biologically Related Molecules and Processes, 248th ACS Meeting San Francisco, August 2014.
Keynote Speakers Session Chair, 6th International Conference on Drug Design and Therapy, Dubai, 2014.
American Chemical Society, Division of Organic Chemistry, Biologically Related Molecules and Processes, 246th ACS Meeting San Diego, March 2013.
Keynote Speakers Session Chair, 5th International Conference on Drug Design and Therapy, Dubai, 2013.

Invited Speakers Session Chair, 11th Euro-Asian Conference, Amman, Jordan, October 2010.

Oral Presentations at Universities and International Conferences

Taleb H. AlTel, *Novel Approach for the Design and Synthesis of Privileged Lead Drug Candidates*, National American Chemical Society Meeting, San Francisco, CA, April 2017.

Taleb H. AlTel, *CuI catalysis for the Design and Synthesis of Privileged small and medium ring systems for phenotypic screening*, National American Chemical Society Meeting, San Francisco, CA, April 2017.

Taleb H. AlTel, *Novel Approaches for the Design and Synthesis of Privileged Lead Drug Candidates for Phenotypic Screening Campaign*, Temple University, Philadelphia, May 2017, Invited Speaker.

Taleb H. AlTel, International Innovation Summit, Harvard Medical School, Boston, May 2017, Invited Speaker.

Taleb H. AlTel, *Design and Synthesis of Privileged Lead Drug Candidates*, National American Chemical Society Meeting, San Diego, CA, March 2016.

Taleb H. AlTel, *Heuristic Synthesis Planning*, International Conference on Chemistry and Environmental sciences, AUS, Sharjah- March 2016, Invited speaker.

Taleb H. AlTel, *Design and Synthesis of Antimalarial and Anticancer Leads*, Biorganic and Medicinal Chemistry Conference, NYU-AD, February 2016, Invited Speaker.

Taleb H. AlTel, *Fine Feathers Make Fine Birds: Design of privileged anticancer motifs*, 7ICDDT-UOS-Sharjah, February 2016, Invited Speaker.

Taleb H. AlTel, *Design and Synthesis of privileged motifs for phenotypic screening*, 250th National American Chemical Society Meeting, Boston, USA, August 2015, Oral.

Taleb H. AlTel, *Single building block architecture: Toward the design and discovery of new and tissue selective drug leads*, 248th National American Chemical Society Meeting, San Francisco, August 2014, Oral.

Taleb H. AlTel, *Design and Synthesis of BACE1 Inhibitors: Alzheimers Drug Leads*, 3SCDDD-2014-Dubai, Keynote Speaker.

Taleb H AlTel, *Diversity Oriented Organic Synthesis*, 246th National American Chemical Society Meeting, San Diego, March 2013, Oral

Taleb H AlTel, *Dissecting the Gap between Chemistry and Biology: Diversity Oriented Organic Synthesis*, National American Chemical Society Meeting, San Francisco, March 2011, Oral.

Taleb H. Al-Tel, *Discovery of Novel Anti-Cancer Lead Molecules*, 3rd International Conference on Drug Design and Therapy, 11 February 2011, invited speaker

Taleb H. Al-Tel, *Novel Approaches Toward Dissecting the Gap between Chemical and Biological Space*, 11th Euro-Asian Conference, October 2010, Amman, Jordan, Invited Speaker.

Taleb H. Al-Tel, *Discovery of Novel Multicomponent Reactions*, 239th National American Chemical Society Meeting, San Francisco, March 2010,. Oral

- Taleb H. Al-Tel, *Total Synthesis of the Antibiotic and Anticancer Avenociolide Analogs*, 237th National American Chemical Society meeting, Salt Lake City, Utah, March 2009. Invited Speaker and Session Chair
- Taleb H. Al-Tel, Jalal Zahra, *Diversity Oriented Organic Synthesis toward the Discovery of Small Molecules as Drug Candidates*, 2008, 236th National American Chemical Society Meeting, Philadelphia, Oral
- Taleb H. Al-Tel, Randa Omar, *Discovery of Neuraminidase Inhibitors*, International Conference on Drug Design and Discovery, Dubai, 2008, Oral
- Taleb H. Al-Tel, *Discovery of Novel Antiviral Agents*, 1st International Conference on Drug Design and Discovery, February 2008, Dubai, Oral
- Taleb H. Al-Tel, *Design and Synthesis of Novel Drug Leads*, 4th Annual Research Forum, University of Sharjah, April 2008, Oral
- Taleb H. Al-Tel, *Synthesis and Characterization of Novel Conducting Polymers*, The Second Symposium on Scientific Research Outlook in the Arab World, Sharjah, UAE, 2002
- Taleb H. Al-Tel, *Carbohydrates to Aza-, Oxa- and Carbocycles*; 3rd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Jordan, 2002, Oral.
- Taleb H. Al-Tel, *Carbohydrates to Enantiopure Heterocycles*, The First Symposium on Scientific Research Outlook in the Arab World, Sharjah, UAE, 2000.
- Taleb H. Al-Tel, *Differential Use of Carbohydrates for Natural Product Syntheses*, World Chemistry Congress, Brisbane, Australia 2001.
- Taleb H. Al-Tel, *Carbohydrates to Heterocycles*, World Chemistry Congress, Brisbane, Australia, 2001.
- Voelter, Wolfgang; Al-Tel, Taleb H.; Al-Abed, Yousef; Khan, Noshena; Al-Qawasmeh, Raed A.; Thurmer, Rene. Editor(s): Atta-ur-Rahman; Choudhary, M. Iqbal. *New Trends in Natural Product Chemistry, [International Symposium on Natural Product Chemistry]*, 6th, Jan. 4-8, Meeting Date 1996, 47-56. Publisher: Harwood, Amsterdam, Netherlands.
- R. A. Al-Qawasmeh, Taleb H. Al-Tel, R. Thurmer and W. Voelter *Carbohydrates to Polycyclic Furamoid Systems*, XVIII International Carbohydrate symposium, July 21-26, 1996, Milano- Italy.
- Sieburth, Scott McN.; Al-Tel, Taleb H., *The fusicocin framework by highly diastereoselective photo-[4+4]-cycloaddition*. 212th National American Chemical Society Meeting, Orlando, FL, August 25-29, 1996, ORGN-419.
- Scott McN. Sieburth, Taleb H. Al-Tel and J. Chen, *Progress in 2-Pyridone Photocycloaddition Chemistry: Fusicocin & Taxol*. National American Chemical Society Meeting, Chicago, USA, 1995
- R. Al-Qawasmeh, Taleb H. Al-Tel, R. Raume, W. Volter, *Carbohydrates to Polysubstituted oxaring systems: A useful Intermediate for Natural Product Syntheses*. Ist European Symposium on Carbohydrate Chemistry, July 1995, Strasbourg-France.

R. Raume, Taleb H. Al-Tel, R. Al-Qawasmeh, W. Voelter, *Enantioselective synthesis of Polycyclic Furanoids derived from Carbohydrate Templates*, 1st European Symposium on Carbohydrate Chemistry, July 1995, Strasbourg-France.

Taleb H. Al-Tel, Y. Al-Abed, W. Voelter, *A Novel Methodology for the Stereoselective Syntheses of Highly Functionalized Homologated Pyranosides*, 8th European Symposium on Organic Chemistry, September 1993, Barcelona, Spain

W. Voelter, Taleb H. Al-Tel, Y. Al-Abed, *A New Synthetic Technology for the Construction of Various Medium-Ring Systems on Sugar Templates*, 8th European Symposium on Organic Chemistry, Sept. 1993, Barcelona, Spain

Y. Al-Abed, Taleb H. Al-Tel, C. Schroder, W. Voelter, *Introduction of Functionalized Appendices on Unsaturated Carbohydrate Templates via Enol Triflates*, 8th European Symposium on Organic Chemistry. September 1993, Barcelona, Spain

S. El-Ali, Taleb H. Al-Tel, Y. Al-Abed, W. Voelter, *An Efficient Approach to the Syntheses of Spiroacetals on Sugar Templates*, 8th European Symposium on Organic Chemistry, September 1993, Barcelona, Spain.

Grubler, H. Sraubinger, Taleb H. Al-Tel, W. Reining. W. Voelter, *Purity Control of Oligonucleotides Synthesized by a New One-Column Synthesizer*, 3rd International Symposium on Solid Phase Synthesis, Sept 1993, University of Oxford, UK.

Taleb H. Al-Tel, Y. Al- Abed, W. Volter, *2,3-Anhydrous Pentoses as Starting Templates to Cyclopentano Sugers*, XVIth International Carbohydrate Symposium 1992, A238, Paris-France.

Y. Al-Abed, Taleb H. Al-Tel, W. Volter, *A Convenient Regio-and Stereoselective Annulation of & Lactones on Carbohydrate Templates*, XVIth International Carbohydrate Symposium 1992, A239, Paris-France.

Taleb H. Al-Tel, Y. Al-Abed. W. Voelter, *2,3-Anhydrous Pentoses, Useful Templates for the Regio-and Stereoselective Synthesis of 3-Amino-3-deoxy Sugars*, 18th IUPAC Symposium on the Chemistry of Natural Products, 1992, 121, Strasbourg- France.

Y. Al-Abed, Taleb H. Al-Tel, W. Voelter, *Synthesis of β -Oxy- γ -Butyrolactones via Stereoselective Annulation of 2,3-Anhydrous Sugars*, 18th IUPAC Symposium on the Chemistry of Natural Products, 1992, 123, Strasbourg-France.

Patents

Main Inventor on a US Patent Application Number: 15935155. TITLE OF THE INVENTION: Discovery of NOVEL First-In-Class HETEROCYCLIC SYSTEMS for the treatment of Multidrug Resistant Superbugs. Filed on March 2018. RAM confirmation Number: 032618INTEFSW10523900. **EFS ID: 32151250**

Main Inventor on a US Patent Application Number: 15935120; TITLE OF THE INVENTION: Discovery of NOVEL First-In-Class HETEROCYCLIC SYSTEMS for the

treatment of Cancer. Filed in March 2018. RAM confirmation Number:
032618INTEFSW10050600 EFS ID: 32150635

Main Inventor on a US Patent Application Number:: 62/711,401. TITLE OF THE INVENTION: Discovery of Novel First-In-Class Nature-Inspired Compounds targeting the mitochondrial function and pharmaceutical composition thereof as novel treatment for cancer immunotherapy. Filed May 2018.

Last Inventor on: Nitrogen-containing heterocycle derivatives, pharmaceutical compositions, and methods of use thereof as antiviral agents. US Patent 20070219239, 2008.

Publications

- ** V. Srinivasulu, P. Schilf, S. Ibrahim, I. A. Shehadi, O. G. Malik, S. Sieburth, M. A. Khanfar, M. Hamad, I. A. Abu-Yousef, A. F. Majdalawieh, and T. H. Al-Tel, "Divergent Strategy for Diastereocontrolled Synthesis of Small- and Medium-Ring Architectures" *J. Org. Chem.* **2020**, *85*, 10695–10708, <https://dx.doi.org/10.1021/acs.joc.0c01244>
- **Fatema Hersi, Hany A Omar, Raed A Al-Qawasmeh, Zainab Ahmad, Areej M Jaber, Dana M Zaher, **Taleb H Al-Tel**; Design and synthesis of new energy restriction mimetic agents: Potent anti-tumor activities of hybrid motifs of aminothiazoles and coumarins; *Scientific reports*, **2020**, *10*, 1-17.
- **NM Moussa-Pacha, SM Abdin, HA Omar, H Alniss, **TH Al-Tel**; BACE1 inhibitors: Current status and future directions in treating Alzheimer's disease; *Medicinal research reviews*, **2020**, <https://doi.org/10.1002/med.21622>.
- ****TH Al-Tel**, A Sebastian, V Srinivasulu, IA Abu-Yousef, O Gorka; Domino Transformations of Ene/yne Tethered Salicylaldehyde Derivatives: Pluripotent Platforms for the Construction of High Sp³ Content and Privileged Architectures; *Chemistry–A European Journal*, **2019**, <https://doi.org/10.1002/chem.201902596>.
- **I Lukin, S Musquiz, I Erezuma, **TH Al-Tel**, N Golafshan, Can 4D bioprinting revolutionize drug development? *Expert opinion on drug discovery*, 1-4, **2019**. <https://doi.org/10.1080/17460441.2019.1636781>.
- **Mohamad Hamad, Farah Al-Marzooq, Orive Gorka and **Taleb H. Al-Tel**, Superbugs but no drugs! Steps in averting a post-antibiotic era; *Drug Discovery Today*, **2019**, *24* (12), 2225.
- **HA Omar, DM Zaher, MF Tolba, **TH Al-Tel**; Constraining Multi-Drug Resistance in Breast Cancer Cells by Energy Restriction; *The FASEB Journal* *33*, 675.18-675.18, **2019**.

- **F Al Marzooq, S Vunnam, **T H. Al Tel**, R El-Awady; Discovery of Novel Molecules for the Treatment of Multidrug Resistant Superbugs; *Journal of Infection and Public Health* 12 (1), 127, **2019**.
- **Vunnam Srinivasulu, Ihsan Shehadeh, Monther A. Khanfar, Omar G. Malik, Hamadeh Tarazi, Imad A. Abu-Yousef, Anusha Sebastian, Nabil Baniowda, Matthew John O'Connor, and **Taleb H. Al-Tel**, One-Pot Synthesis of Diverse Collections of Benzoxazepine and Indolopyrazine Fused to Heterocyclic Systems. *J. Org. Chem.* **2019**, DOI: 10.1021/acs.joc.8b02878.
- ****TH Al-Tel**, A Sebastian, V Srinivasulu, IA Abu-Yousef, O Gorka; Domino Transformations of Ene/yne Tethered Salicylaldehyde Derivatives: Pluripotent Platforms for the Construction of High Sp³ Content and Privileged Architectures; *Chemistry–A European Journal*, **2019**, <https://doi.org/10.1002/chem.201902596>
- **NM Moussa-Pacha, SM Abdin, HA Omar, H Alniss, **TH Al-Tel**; BACE1 inhibitors: Current status and future directions in treating Alzheimer's disease; *Medicinal research reviews*, **2019**, <https://doi.org/10.1002/med.21622>
- **I Lukin, S Musquiz, I Erezuma, **TH Al-Tel**, N Golafshan, Can 4D bioprinting revolutionize drug development? *Expert opinion on drug discovery*, 1-4, **2019**. <https://doi.org/10.1080/17460441.2019.1636781>
- **Mohamad Hamad, Farah Al-Marzooq, Orive Gorka and **Taleb H. Al-Tel**, Superbugs but no drugs! Steps in averting a post-antibiotic era; *Drug Discovery Today*, **2019**, accepted.
- **HA Omar, DM Zaher, MF Tolba, **TH Al-Tel**; Constraining Multi-Drug Resistance in Breast Cancer Cells by Energy Restriction; *The FASEB Journal* 33 (1_supplement), 675.18-675.18, **2019**.
- **F Al Marzooq, S Vunnam, **T H. Al Tel**, R El-Awady; Discovery of Novel Molecules for the Treatment of Multidrug Resistant Superbugs; *Journal of Infection and Public Health* 12 (1), 127, **2019**.
- Vunnam Srinivasulu, Ihsan Shehadeh, Monther A. Khanfar, Omar G. Malik, Hamadeh Tarazi, Imad A. Abu-Yousef, Anusha Sebastian, Nabil Baniowda, Matthew John O'Connor, and Taleb H. Al-Tel, One-Pot Synthesis of Diverse Collections of Benzoxazepine and Indolopyrazine Fused to Heterocyclic Systems. *J. Org. Chem.* **2019**, DOI: 10.1021/acs.joc.8b02878.

- Vunnam Srinivasulu, Paul Schilf, Saleh Ibrahim, Monther A. Khanfar, Scott McN Sieburth, Hany Omar, Anusha Sebastian, Raed A. AlQawasmeh, Matthew John O'Connor & Taleb H. Al-Tel. Multidirectional desymmetrization of pluripotent building block en route to diastereoselective synthesis of complex nature-inspired scaffolds. *Nature Communications* **2018**, volume 9, Article number: 4989.
- Vunnam Srinivasulu, Scott McN. Sieburth, Raafat El-Awady, Noor M. Kariem, Hamadeh Tarazi, Matthew John O'Connor and Taleb H. Al-Tel, "Post-Ugi Cascade Transformations for Accessing Diverse Chromenopyrrole Collections", *Org. Lett.*, **2018**, *20*, 836–839, DOI: 10.1021/acs.orglett.7b03986.
- Hany A. Omar, Dana M. Zaher, Vunnam Srinivasulu, Fatema Hersi, Hamadeh Tarazi, Taleb H. Al-Tel, "Design, Synthesis and Biological Evaluation of New Pyrrolidine Carboxamide Analogues as Potential Chemotherapeutic Agents for Hepatocellular Carcinoma" *Eur. J. Med. Chem.*, **2017**, *139*, 804-814. <https://doi.org/10.1016/j.ejmech.2017.08.054>.
- Vunnam Srinivasulu, Ralph Mazitschek, Noor M. Kariem, Amarnath Reddy, Wael M. Rabeh, Liang Li, Matthew John O'Connor and Taleb H. Al-Tel, "Modular Bi-Directional One-Pot Strategies for the Diastereoselective Synthesis of Structurally Diverse Collections of Constrained β -Carboline-Benzoxazepines" *Chem. - Eur. J.* **2017**, *23*, 14182-14192. DOI: 10.1002/chem.201702495. *Selected by the Journal Editor to be on the journal cover page.*
- Vunnam Srinivasulu, Kim D. Janda, Imad A. Abu-Yousef, Matthew John O'Connor, Taleb H. Al-Tel, "A modular CuI-L-Proline catalyzed one-pot route for the rapid access of constrained and privileged hetero-atom-linked medium-sized ring systems" *Tetrahedron*, **2017**, *73*, 2139-2150. DOI: 10.1016/j.tet.2017.02.061.
- Vunnam Srinivasulu, Amarnath Reddy, Ralph Mazitschek, Amanda K. Lukens, Dyann F. Wirth, Liang Li, Pance Naumov, Matthew John O'Connor and Taleb H. Al-Tel, "Intramolecular Diaza-Diels-Alder Protocol: A New Diastereoselective and Modular One-Step Synthesis of Constrained Polycyclic Frameworks" *Chem. - Eur. J.*, **2017**, *23*, 4137-4148, 10.1002/chem.201605231.
- Hamadeh Tarazi, Raed Abu Odeh, Raed Al-Qawasmeh, Imad Abu Yousef, Wolfgang Voelter, Taleb H. Al-Tel "Design, synthesis and SAR analysis of potent BACE1 inhibitors: Possible lead drug candidates for Alzheimer's disease" *Eur. J. Med. Chem.*, **2017**, *125*, 1213-1224, 10.1016/j.ejmech.2016.11.021.
- Raafat El-Awdy, Mohammad Harb, Maha Saber, Farhan Cyprian, Varsha Menon, Taleb Al Tel "Modulation of DNA damage response and induction of apoptosis mediates synergism between doxorubicin and a new imidazopyridine derivative in breast and lung cancer cells" *DNA Repair*, **2016**, *37*, 1-11, 10.1016/j.dnarep.2015.10.004.
- Hany A. Omar, Mai F. Tolba, Jui-Hsiang Hung, Taleb H. Al Tel, "OSU-2S/sorafenib synergistic antitumor combination against hepatocellular carcinoma: the role of PKC δ /p53" *Front. Pharmacol.*, **2016**, *7*, 463/1-463/11, 10.3389/fphar.2016.00463.
- Raed Abu Odeh, Raed A. Al-Qawasmeh, Mohammad H. Semreen, Musa H. Abu-Zarga, Basil Bani Huthail, Hamadeh Tarazi, Imad Abu Yousef, and Taleb H. Al-Tel, "Design, Synthesis and Qualitative Structure Activity Relationship Evaluations of Quinoline-Based

- Bisarylimidazoles as Antibacterial Motifs” *Med. Chem. (Sharjah, United Arab Emirates)*, **2016**, *12*, 563-573, 10.2174/1573406412666160518142441.
- R. El-Awady, Fatema Herzi, Hala Al-Tunaiji, Ekram Saleh, Abdel-Hady A. Abdel-Wahab, Amer Al Homssi, Mousa Suhail, Ahmed El-Sairafi, Taleb Al-Tel, "Epigenetics and miRNA expression as mediators of A549 lung cancer cells resistance to DNA damaging anticancer drugs" *Annals of Oncology*. 03/2015; 26 (suppl 2): ii30. DOI: 10.1093/annonc/mdv095.8
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