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Abdullah Gül Üniversitesi

Kayseri, Turkey



CURRICULUM VITAE
MONA EL KHATIB

PERSONAL INFORMATION

Date of Birth: 15.07.1985

Place of Birth: Abu Dhabi, UAE

Nationality: Lebanese

EDUCATION

2015- Assistant Professor at Abdullah Gül Üniversitesi, Kayseri, Turkey

2009-2012 PhD in Molecular Medicine, Hannover Medical School, Germany

2007-2009 Masters of Sciences (Cancer Research), American University of Beirut,
Lebanon

2004-2007 Bachelor of Science in Biology, American University of Beirut - Beirut,
Lebanon

PROFESSIONAL EXPERIENCE

Projects:

-Mona El Khatib, Principal Investigator, Histon Deasetilaz İnhibitörlerinin Pten/Pi3k/Akt/Mtor Yolağı Ve Kolanjiokarsinoma Gelişimine Olan Etkilerinin Moleküler Düzeyde Belirlenmesi, TÜBİTAK 3501, 217S660, 250.000 TL, 2018-2021

-Mona El Khatib, Principal Investigator, Akut Myeloid Lösemi Tedavisi İçin Hedgehog ve Otofaji Yolaklarının Düzenlenmesi, TUBITAK 3001, 216S319, 60.000 TL, 2017-2019.

-Mona El Khatib, Principal Investigator, The fine tuning of the Hedgehog and autophagy pathways to combat Cholangiocarcinoma, AGU-BAP, TAB-2016-67, 100.000TL, 2016-2018

Research Experience (mm/yy)

12/12- 11/14

Post-Doctoral Research Associate

Department of Pediatric Hematology and Oncology, Hannover Medical School, Hannover, Germany

Project Handling:

1.Establishing a humanized mouse model in order to examine the effects of selective drugs that target deregulated key pathways in AML. This system is used to study the full complexity and heterogeneity of the human disease. This project involved the collaboration with pharmaceutical companies to test novel drugs in this system.

1.Valproic Acid as a potential therapeutic in Down Syndrome associated acute megakaryocytic leukemia. This project focuses on unveiling the exact means of action that make valproic acid such a potent anti-leukemic agent. Molecular analytical tools are used in order to understand how exactly valproic acid exhibits its effects in Leukemia.

10/09-11/12

PhD in Molecular Medicine

Hannover Medical School, Hannover, Department of Gastroenterology, Hepatology and Endocrinology.

Universitätsklinikum Tübingen, Tübingen, Department of Internal Medicine.

Project Handling:

1. Analysis of the Notch signalling pathway in the carcinogenesis of cholangiocarcinoma.
2. The role of the Hedgehog Signaling in the carcinogenesis of cholangiocarcinoma in vitro and in a Xenograft Mouse Model
3. The correlation between CD44-positive cells and tumor response to chemotherapy in patients with gastrointestinal cancer

03/07-08/09

Master of Science

Thesis at the Department of Biology, American University of Beirut - Beirut, Lebanon

Thesis title: "Mechanisms of hypoxia selectivity and DNA damage of 2-benzoyl-6,7-dichloro-3-phenylquinoxaline 1,4-dioxide (DCQ) in human colon cancer cells."

10/08 – 12/08

Internship at Earth University in Costa Rica

Partitioning and fractionation of tropical plant extracts by thin layer chromatography and MPLC.

Teaching Experience

09/15-

Assistant Professor

-Teaching the following undergraduate classes:

- Science of Nature I (SCI101)
- Science of Nature II (SCI102),
- Biology for Engineers I (BIO101)
- Biology for Engineers II (BIO102)
- General Biology Lab I (MBG103)
- General Principles of Biology II (MBG102)

-Teaching the following graduate classes:

- Cancer Biology and Treatment (BENG 514)
- Stem Cells (BENG 537)
- Current topics in Molecular Biology (BENG 505)

-Able to teach the following undergraduate classes:

- Cell Biology
- Molecular Biology
- Gene Regulation
- Basic Biological Behavior
- Current Topics in Molecular Biology
- Special Techniques and Applications in Molecular Biology
- Stem Cells
- Model Organisms
- Developmental Biology
- Molecular Medicine

03/07-08/09

Graduate Assistant

Teaching laboratory courses in General Biology I (Biol 201), General Biology II (Biol 202) and Ecology (Bio252).

03/07-08/09

Training students in tutorial projects at the Department of Biology, American University of Beirut, Beirut, Lebanon

HONORS AND AWARDS

2012

Summa cum laude for the PhD thesis entitled: “Analysis of Sonic Hedgehog and Notch Signaling Pathways in the Carcinogenesis of Cholangiocarcinomas”

2012

Awarded “Best Poster Prize” at Falk Symposium, for project entitled: Analysis of the Notch Signaling Pathway in Cholangiocarcinoma Cell Lines, Mainz, Germany

2009

Awarded a Stipend of the Hannover Biomedical Research School

2007

Awarded a Graduate Assistantship from the Department of Biology, American University of Beirut, Beirut, Lebanon

Skills

Languages: Arabic and English (Written, Spoken, and Read)

Computer: Word, Excel, Powerpoint, AdobePhotoshop, SPSS, Graphpad, Refwork, FlowJo, Kaluza, ImageJ

Acquired Expertise:

Molecular and Cellular Biology Techniques: a) *in vitro*: Cell culture (cell proliferation and toxicity assays), clonogenic survival assays, cell cycle analysis and apoptosis assays (Flow Cytometry), virus production (transfection and transduction), detection and isolation of stem cells from blood, differentiation studies, migration and invasion assays, luciferase reporter assays, immunohistochemistry, immunofluorescence, comet assay for DNA damage, western blotting techniques, southern blotting techniques, RNA extraction and quantification, RT and Real time PCR, gene silencing technique (siRNA and shRNA), cloning and mutagenesis techniques, confocal microscopy.

b) *in vivo*, Generation of Xenograft (using nude mice through s.c injections) and Xenotransplantation mice models (intrafemoral and intravenous injections of NSG mice) , working with transgenic mice (knockout mouse models), gavage and i.p treatment.

Analytical Techniques: Thin Layer Chromatography, partitioning and fractionation of plant extracts, MPLC,

SILAC

CONTRIBUTION TO ACADEMIC CONFERENCES

International:

- 1.El Khatib M**, Kalnytska A, Palagani V, Kossatz U, Manns MP, Malek NP, Wilkens L, Plentz RR. Blocking the hedgehog pathway attenuates carcinogenesis of cholangiocellular carcinoma. European Association for the Study of the Liver (EASL), Berlin. 2011
- 2.El Khatib M**, Kalnytska A, Palagani V, Kossatz U, Manns MP, Malek NP, Wilkens L, Plentz RR. The Hedgehog signalling pathway: A novel therapeutic target for cholangiocellular carcinoma. Viszeralmedizin 2012, Hamburg, September 2012
- 3.El Khatib.M**, Palagani.V, Kossatz.U, Zender S., Malek.N.P, Plentz.R.R. Analysis of the Notch signaling pathway in the Carcinogenesis of Cholangiocarcinoma. United European Gastroenterology Week (UEGW). Amsterdam, October 2012

National :

- 1.El Khatib M.** “Cancer: when cells go out of order.” Molekular Biyoloji ve genetikte Güncel Konular Sempozyumu, February 2016, Kayseri
- 2.El Khatib M.** “Autophagy repression: A novel anti-leukemic function of histone deacytelase inhibitors in myeloid leukemias”, Yaşam Bilimleri Sempozyum, February 2016, Kayseri
- 3.El Khatib M.** Epigenetics in Acute Myeloid Leukemia.” 3. Uluslararası Katılımlı Deneysel Hematoloji Kongresi”, May 2016, Kayseri.
- 4.El Khatib M.**“Developmental Pathways Orchestrate the Carcinogenesis of Cholangiocarcinoma.” Yaşam Bilimleri Sempozyum, February 2017, Kayseri
- 5.El Khatib M.** “Signal Transduction Pathways and Changes in Leukemogenesis.” IV Uluslararası Katılımlı Deneysel Hematoloji Kongresi”, April 2017, Gaziantep
- 6.El Khatib M.**“Autophagy: A Friend or Foe to Acute Myeloid Leukemia.” Yaşam Bilimleri Kongresi, February 2018, Kayseri

LIST OF PUBLICATIONS:

1. Emmrich S*, Engeland F*, **El-Khatib M**, Henke K, Katsman-Kuipers JE, Zwaan CM, Pich A, Reinhardt D, Fornerod MWJ, van den Heuvel-Eibrink MM and Klusmann JH. miR-139 controls translation in myeloid leukemia through EIF4G2. *Oncogene*. 2016. doi: 10.1038/onc.2015.247.
2. Wutka A, Palagani V, Barat S, Chen X, **El Khatib M**, et al. (2014) Capsaicin Treatment Attenuates Cholangiocarcinoma Carcinogenesis. *PLoS ONE*. 2014. 9(4): e95605. doi: 10.1371/journal.pone.0095605
3. Stankov ME*, **El Khatib M***, Kumar Thakur B, Heitmann K, Panayotova-Dimitrova D, + et al. Histone deacetylase inhibitors induce apoptosis in myeloid leukemia by suppressing autophagy. *Leukemia* 2014 doi: 10.1038/leu.2013.264
4. Palagani V, Bozko P, **El Khatib M**, Belahmer H, Giese N, Sipos B, Malek NP, Plentz RR. Combined inhibition of Notch and JAK/STAT is superior to monotherapies and impairs pancreatic cancer progression *Carcinogenesis*. 2014 Jan 2.
5. Emmrich S Katsman-Kuipers J E, Henke K, **Khatib M E**, Jammal R, + et al. miR-9 is a tumor suppressor in pediatric AML with t(8;21). *Leukemia* 25 November 2013 doi:10.1038/leu.2013.357
6. **El Khatib M***, Bozko P*, Palagani V, Malek NP, Wilkens L, Plentz RR. Activation of Notch signaling is required for cholangiocarcinoma progression and is enhanced by inactivation of p53 in vivo. *PLoS One*. 2013 Oct 30;8(10):e77433.
7. Zender S, Nicleleit I, Wuestefeld T, Sørensen I, Dauch D, Bozko P, **El-Khatib M**, Geffers R, Bektas H, Manns MP, Gossler A, Wilkens L, Plentz R, Zender L, Malek NP. A critical role for notch signaling in the formation of cholangiocellular carcinomas *Cancer Cell*. 2013 Jun 10;23(6):784-95.
8. **El Khatib M***, Kalnytska A*, Palagani V, Kossatz U, Manns MP, Malek NP, Wilkens L, Plentz RR. Inhibition of hedgehog signaling attenuates carcinogenesis in vitro and increases necrosis of cholangiocellular carcinoma. *Hepatology*. 2013 Mar;57(3):1035-45.
9. Palagani V, **El Khatib M**, Kossatz U, Bozko P, Müller MR, Manns MP, Krech T, Malek NP, Plentz RR. Epithelial mesenchymal transition and pancreatic tumor initiating CD44+/EpCAM+ cells are inhibited by γ -secretase inhibitor IX. *PLoS One*. 2012;7(10):e46514.
10. Palagani V*, **El Khatib M***, Krech T, Manns MP, Malek NP, Plentz RR. Decrease of CD44-positive cells correlates with tumor response to chemotherapy in patients with gastrointestinal cancer. *Anticancer Res*. 2012 May;32(5):1747-55.

11. **El-Khatib M**, Geara F, Haddadin MJ, Gali-Muhtasib H. Cell death by the quinoxaline dioxide DCQ in human colon cancer cells is enhanced under hypoxia and is independent of p53 and p21. *Radiat Oncol.* 2010 Nov 15;5:107.

(*: both authors contributed equally to the work)