

السيرة الذاتية

فiras صبحي صالح

الجامعة المستنصرية – المركز العراقي لبحوث السرطان والوراثة الطبية

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ملخص تعريفي: يتمحور مجالي البحثي بشكل رئيسي حول الأمراض السرطانية والآليات الجزيئية المشاركة في الأمراض بصورة عامة. يتم تنفيذ أبحاث السرطان سواء باستخدام خطوط الخلايا السرطانية أو باستخدام نموذج الفأر لبدء الورم وتطوره وعلاجه. كما تتضمن الابحاث دراسة التغيرات النسجية ودراسة المسارات الخلوية بتقنيات متعددة.

الشهادات الدراسية:

- دكتوراه في علم الأمراض: معهد علم الأمراض، كلية الطب، مستشفى الجامعة - جامعة فريدريش شيلر بينا، ألمانيا (2015)
- ماجستير في علم الأمراض: درجة الماجستير في علم الأمراض من كلية الطب البيطري، جامعة بغداد، العراق (2003)
- بكالوريوس في الطب والجراحة البيطرية: كلية الطب البيطري، جامعة بغداد، العراق (2000)

الجوائز والتكريم الأكاديمي

- الحصول على المركز الأول لجائزة يوم العلم العراقي (2016) المقام من قبل وزارة التعليم العالي والبحث العلمي تقديراً لإنجازي بحث منشور عالمياً في مجلة علمية رصينة في تخصص العلوم الطبيعية.

الخبرة الأكاديمية والتدريس:

- علم الأمراض للعام 2005-2006 لطلبة كلية الطب في جامعة ديالى.
- التفرغ العلمي ليوم واحد (مستمر) في قسم علم الأمراض / كلية الطب / الجامعة المستنصرية.

المقررات الدراسية التي تم تدريسها:

الدراسات الأولية	الدراسات العليا
علم الأنسجة المرضية	-

الانتساب المهني او الجمعيات:

- رئيس عدة لجان ووحدات في المركز العراقي لبحوث السرطان والوراثة الطبية.
- رئيس قسم الاحياء الجزيئي للفترة من 2004 الى 2005 في المركز العراقي لبحوث السرطان والوراثة الطبية.
- رئيس قسم بحوث السرطان للفترة 2007 الى 2009 في المركز العراقي لبحوث السرطان والوراثة الطبية.
- رئيس قسم بحوث السرطان للفترة 2019 الى 2023 في المركز العراقي لبحوث السرطان والوراثة الطبية.
- مدير تحرير المجلة العراقية للسرطان والوراثة الطبية الصادرة عن المركز العراقي لبحوث السرطان والوراثة الطبية (مستمر).

- Mahmood NA, **Salah FS**, Abdulghany ZS (2023). EVALUATION OF ANTIOXIDANTS ENZYMES AND AUTOPHAGY GENES IN THE BLOOD OF IRAQI SMOKER VOLUNTEERS. *Wiad Lek.*, 76(3):500-507. doi: 10.36740/WLek202303106.
- Noor Sabar Khalaf Mohammad, Alia Hussein Ali, Firas Subhi Salah (2023). Prunus armeniaca Seeds Extract Inhibits Cell Proliferation and Enhances Cell Death in Cancer Cells. *Journal of Survey in Fisheries Sciences*, 10(1S): 3653-3667.
- Sumaia Samir Bakir Sidqiy, Waseem Ali Hasan, & **Firas Subhi Salah** (2022). THE ANTI- CANCER SYNERGISTIC EFFECT OF COLCHICINE AND ON CANCER CELLS PROLIFERATION (IN VITRO STUDY) CHOLOROQUINE. *World Bulletin of Public Health*, 15: 206-218. <https://scholarexpress.net/index.php/wbph/article/view/1522>
- Sumaia Samir Bakir Sidqiy, Waseem Ali Hasan, & **Firas Subhi Salah** (2022). THE ANTI- CANCER SYNERGISTIC EFFECT OF CHLOROQUINE ON CANCER CELLS PROLIFERATION (IN VITRO STUDY). *Academicia Globe: Inderscience Research*, 3(10), 228–238. <https://doi.org/10.17605/OSF.IO/QEAPF>
- **Firas Subhi Salah**, Iver Petersen (2022). Reduction of tumor formation in GABARAP knockout mice is associated with absence of H-ras mutation. *Iraqi Journal of Cancer and Medical Genetics*, 15(1): 7-14.
- Ebbinghaus, M., Natura, G., Segond von Banchet, G., Hensellek, S., Böttcher, M., Hoffmann, B., **Salah, F. S.**, Gajda, M., Kamradt, T., & Schaible, H. G. (2017). Interleukin-17A is involved in mechanical hyperalgesia but not in the severity of murine antigen-induced arthritis. *Scientific reports*, 7(1): 10334.
- **FS Salah**, M Ebbinghaus, VY Muley, Z Zhou, KR Al-Saadi, M Pacyna-Gengelbach, GA O'Sullivan, H Betz, R König, Z-Q Wang, R Bräuer and I Petersen (2016). Tumor suppression in mice lacking GABARAP, an Atg8/LC3 family member implicated in autophagy, is associated with alterations in cytokine secretion and cell death. *Cell Death and Disease*, 7: e2205. doi:10.1038/cddis.2016.93
- Thomas W. Bocklitz, **Firas Subhi Salah**, Nadine Vogler, Sandro Heuke, Olga Chernavskaia, Carsten Schmidt, Maximilian J. Waldner, Florian R. Greten, Rolf Bräuer, Michael Schmitt, Andreas Stallmach, Iver Petersen and Jürgen Popp (2016). Pseudo-HE images derived from CARS/TPEF/SHG multimodal imaging in combination with Raman-spectroscopy as a pathological screening tool. *BMC Cancer*, 16:534.
- Nadine Vogler, Thomas Bocklitz, **Firas Subhi Salah**, Carsten Schmidt, Rolf Bräuer, Tiantian Cui, Masoud Mireskandari, Florian R. Greten, Michael Schmitt, Andreas Stallmach, Iver Petersen, and Jürgen Popp (2016). Systematic evaluation of the biological variance within the Raman based colorectal tissue diagnostics. *J Biophotonics*, 9(5): 533–541.
- Khalil H. Al-Jeboori, Nahi Y. Yaseen, **Firas S. Salah** (2015). Study on Cytogenetic of Some Epithelial Skin Tumors in Human and Bovine. *Iraqi Journal of Cancer and Medical Genetics*, 8(1): 60-67.
- Khalil H. Al-Jeboori, Nahi Y. Yaseen, **Firas S. Salah** (2015). Study on Some Epithelial Skin Tumors in Human. *Iraqi Journal of Cancer and Medical Genetics*, 8(1): 79-87.
- Khalil H. Al-Jeboori, Nahi Y. Yaseen, **Firas S. Salah** (2014). Study on Some Epithelial Skin Tumors in Bovine. *Iraqi Journal of Cancer and Medical Genetics*, 7(2): 177-180.
- C Schmidt, N Vogler, T Bocklitz, M Schmitt, **FS Salah**, R Bräuer, I Petersen, J Popp, A Stallmach (2014). Differenzierung von Adenomen und Karzinomen von normalen epithelialen Zellen des Kolons in einem

karzinogen-induzierten kolorektalen Tumormodell bei p53-defizienten Mäusen mittels RAMAN-Spektroskopie. Z Gastroenterol; 52 - KG151. DOI: 10.1055/s-0034-1386173

- *Petersen I, Günther B, Mildner K, Subhi F, Knösel T, Altendorf-Hofmann A, Katenkamp D (2011). Update from the soft tissue tumour registry in Jena. Der Pathologe, 32(1): 40-46.*

تطوير المهارات:

- محاضر في العديد من ورش العمل والندوات والاجتماعات والمؤتمرات السنوية والدورات التدريبية في اختصاص علم الأمراض الجزيئي والأورام.

Curriculum Vitae

Firas Subhi Salah

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PERSONAL SUMMARY:

The field of my research mainly focus on cancer and molecular mechanisms that involved in diseases. The cancer researches carry out either by using a well established cancer cell lines or by using a mouse model for tumor initiation, progression and treatment. In such studies, I use different techniques; for instance: primary culture, tumor inoculation, histopathology, immunohistochemistry, conventional PCR, qRT-PCR, mutation analysis, Western Blotting, whole mount analysis of mammary glands, carcinogens treatment, cytokine analysis, apoptosis assay, autophagy flux analysis and several other molecular techniques.

EDUCATION:

- Ph.D.: Institute of Pathology, University Hospital – Friedrich Schiller University Jena, Germany (2015).
- M.Sc.: M.Sc. degree in Pathology from College of Veterinary Medicine, Baghdad University, Iraq (2003).
- B.Sc.: Veterinary Medicine and Surgery, College of Veterinary Medicine, Baghdad University, Iraq (2000).

ACADEMIC HONORS, AWARDS AND ACKNOWLEDGEMENTS:

- Acknowledgement from prime minister of Iraq.
- Several acknowledgements from Minister of Higher Education and Scientific Research, Iraq.
- Several acknowledgements from President of Mustansiriyah University, Iraq.
- Many acknowledgements from Director Manager of Iraqi Centre for Cancer & Medical Genetics Research.
- Acknowledgement from Faculty of Sciences / University of Diyala, Iraq.
- Academic honor from President of teachers union / Diyala, Iraq.
- Many Acknowledgements from different universities, faculties and institutes in Iraq.
- I was honored with the Science Day Award (2016) by the Ministry of Higher Education and Scientific Research for my achievements in the field of natural sciences. This recognition was granted to me based on my publication of a high-quality scientific research paper in a reputable international journal.

ACADEMIC /TEACHING EXPERIENCE:

- Pathology in 2005-2006 for Medical School student in Dyala University/College of Medicine.
- One-day scientific sabbatical (every year) in Department of Pathology and Forensic Medicine / College of Medicine / Mustansiriyah University.

COURSES TAUGHT:

Undergraduate	Graduate
Histopathology	---

PROFESSIONAL AFFILIATIONS:

- Resident doctor in Dyala Veterinary hospital (2000-2001).
- Researcher at Iraqi Centre for Cancer & Medical Genetics Research (2004).
- Chairman, Department of Molecular Biology, Iraqi Centre for Cancer & Medical Genetics Research (2004-2005).
- Chairman of Histopathology Unit and Vice-Chairman of Cancer Research Department, Iraqi Centre for Cancer & Medical Genetics Research (2005-2007).
- Chairman, Cancer Research Department, Iraqi Centre for Cancer & Medical Genetics Research (2007-2009).
- PhD student at Institute of Pathology / University Hospital Jena / Friedrich Schiller University, Jena, Germany (2009-2015).
- Chairman of the electronic website committee in Iraqi Centre for Cancer & Medical Genetics Research (2016 and 2017).
- President of the Research and Development Unit, Iraqi Centre for Cancer & Medical Genetics Research.
- President of the Continuous Education Unit, Iraqi Centre for Cancer & Medical Genetics Research.
- Editorial manager of the Iraqi Journal of Cancer and Medical Genetics.
- Chairman, Cancer Research Department, Iraqi Centre for Cancer & Medical Genetics Research (2019-2023).
- Chairman for several other committees in Iraqi Centre for Cancer & Medical Genetics Research.

PUBLICATIONS:

- *Mahmood NA, Salah FS, Abdulghany ZS (2023). EVALUATION OF ANTIOXIDANTS ENZYMES AND AUTOPHAGY GENES IN THE BLOOD OF IRAQI SMOKER VOLUNTEERS. Wiad Lek., 76(3):500-507. doi: 10.36740/WLek202303106.*
- *Noor Sabar Khalaf Mohammad, Alia Hussein Ali, Firas Subhi Salah (2023). Prunus armeniaca Seeds Extract Inhibits Cell Proliferation and Enhances Cell Death in Cancer Cells. Journal of Survey in Fisheries Sciences, 10(15): 3653-3667.*
- *Sumaia Samir Bakir Sidqiy, Waseem Ali Hasan, & Firas Subhi Salah (2022). THE ANTI- CANCER SYNERGISTIC EFFECT OF COLCHICINE AND ON CANCER CELLS PROLIFERATION (IN VITRO STUDY) CHOLOROQUINE. World Bulletin of Public Health, 15: 206-218. <https://scholarexpress.net/index.php/wbph/article/view/1522>*
- *Sumaia Samir Bakir Sidqiy, Waseem Ali Hasan, & Firas Subhi Salah (2022). THE ANTI- CANCER SYNERGISTIC EFFECT OF CHLOROQUINE ON CANCER CELLS PROLIFERATION (IN VITRO STUDY). Academia Globe: Inderscience Research, 3(10), 228–238. <https://doi.org/10.17605/OSF.IO/QEAPF>*
- *Firas Subhi Salah, Iver Petersen (2022). Reduction of tumor formation in GABARAP knockout mice is associated with absence of H-ras mutation. Iraqi Journal of Cancer and Medical Genetics, 15(1): 7-14.*
- *Ebbinghaus, M., Natura, G., Segond von Banchet, G., Hensellek, S., Böttcher, M., Hoffmann, B., Salah, F. S., Gajda, M., Kamradt, T., & Schaible, H. G. (2017). Interleukin-17A is involved in mechanical hyperalgesia but not in the severity of murine antigen-induced arthritis. Scientific reports, 7(1): 10334.*
- *FS Salah, M Ebbinghaus, VY Muley, Z Zhou, KR Al-Saadi, M Pacyna-Gengelbach, GA O'Sullivan, H Betz, R König, Z-Q Wang, R Bräuer and I Petersen (2016). Tumor suppression in mice lacking GABARAP, an Atg8/LC3 family member implicated in autophagy, is associated with alterations in cytokine secretion and cell death. Cell Death and Disease, 7: e2205. doi:10.1038/cddis.2016.93*
- *Thomas W. Bocklitz, Firas Subhi Salah, Nadine Vogler, Sandro Heuke, Olga Chernavskaia, Carsten Schmidt, Maximilian J. Waldner, Florian R. Greten, Rolf Bräuer, Michael Schmitt, Andreas Stallmach, Iver Petersen and*

Jürgen Popp (2016). Pseudo-HE images derived from CARS/TPEF/SHG multimodal imaging in combination with Raman-spectroscopy as a pathological screening tool. *BMC Cancer*, 16:534.

- Nadine Vogler, Thomas Bocklitz, **Firas Subhi Salah**, Carsten Schmidt, Rolf Bräuer, Tiantian Cui, Masoud Mireskandari, Florian R. Greten, Michael Schmitt, Andreas Stallmach, Iver Petersen, and Jürgen Popp (2016). Systematic evaluation of the biological variance within the Raman based colorectal tissue diagnostics. *J Biophotonics*, 9(5): 533–541.
- Khalil H. Al-Jeboori, Nahi Y. Yaseen, **Firas S. Salah** (2015). Study on Cytogenetic of Some Epithelial Skin Tumors in Human and Bovine. *Iraqi Journal of Cancer and Medical Genetics*, 8(1): 60-67.
- Khalil H. Al-Jeboori, Nahi Y. Yaseen, **Firas S. Salah** (2015). Study on Some Epithelial Skin Tumors in Human. *Iraqi Journal of Cancer and Medical Genetics*, 8(1): 79-87.
- Khalil H. Al-Jeboori, Nahi Y. Yaseen, **Firas S. Salah** (2014). Study on Some Epithelial Skin Tumors in Bovine. *Iraqi Journal of Cancer and Medical Genetics*, 7(2): 177-180.
- C Schmidt, N Vogler, T Bocklitz, M Schmitt, **FS Salah**, R Bräuer, I Petersen, J Popp, A Stallmach (2014). Differenzierung von Adenomen und Karzinomen von normalen epithelialen Zellen des Kolons in einem karzinogen-induzierten kolorektalen Tumormodell bei p53-defizienten Mäusen mittels RAMAN-Spektroskopie. *Z Gastroenterol*; 52 - KG151. DOI: 10.1055/s-0034-1386173
- Petersen I, Günther B, Mildner K, **Subhi F**, Knösel T, Altendorf-Hofmann A, Katenkamp D (2011). Update from the soft tissue tumour registry in Jena. *Der Pathologe*, 32(1): 40-46.

PROFESSIONAL DEVELOPMENT

- English language efficiency certificate after official examination at University of Baghdad (2000).
- Computer training cours (15 days) at Technical Insitute in Baquba / Dyala in (2001).
- University teaching course (30 days) at Al-Mustansiriyah University, College of Education (2004).
- Web design course (10 days) at University of Baghdad, Computer Center, Consultative Bureau of Information System and Computers (2007).
- **F. S. Salah**, I. Petersen. LCD-array for molecular diagnosis of Synovial Sarcoma. **2nd Postgraduate Symposium on Cancer Research**, Altes Schloss Dornburg / Jena, Germany, April 2010 (poster).
- **F. S. Salah**, R. Bräuer, M. Pacyna-Gengelbach, G. O'Sullivan, H. Betz, I. Petersen. The role of GABARAP in the onset and progression of solid tumors with special emphasis on breast cancer. **3rd Postgraduate Symposium on Cancer Research**, Altes Schloss Dornburg / Jena, Germany, April 2011 (poster).
- **F. S. Salah**, R. Bräuer, M. Pacyna-Gengelbach, G. O'Sullivan, H. Betz, I. Petersen. The role of GABARAP in the onset and progression of solid tumors with special emphasis on breast cancer. **95th Annual Meeting of the German Society of Pathology**, Leipzig, Germany, June 2011 (poster). *Der Pathologe*, 2011, 32 (Supplement 1): 91.
- **F.S. Salah**, R. Bräuer, S. Nietzsche, Y. Chen, I. Petersen. Re-expression of GABARAP by p38 inhibitor Induces Autophagy and Inhibits Growth in Breast Cancer Cells. **5th Postgraduate Symposium on Cancer Research**, Altes Schloss Dornburg / Jena, Germany, April 2013 (poster).
- **F.S. Salah**, R. Bräuer, S. Nietzsche, Y. Chen, I. Petersen. Re-expression of GABARAP by p38 inhibitor Induces Autophagy and Inhibits Growth in Breast Cancer Cells. **97th Annual Meeting of the German Society of Pathology**, Heidelberg, Germany, May 2013 (poster). *Der Pathologe*, 2013, 34(Supplement 1): 117.

- **F.S. Salah**, M. Ebbinghaus, R. Bräuer, I. Petersen. Anti-tumor activity of GABARAP-deficient mice treated with 7,12-Dimethylbenz(a)anthracene (DMBA). *6th Postgraduate Symposium on Cancer Research*, Altes Schloss Dornburg / Jena, Germany, April 2014 (poster).
- **F.S. Salah**, M. Ebbinghaus, R. Bräuer, I. Petersen. Anti-tumor activity of GABARAP-deficient mice treated with 7,12-Dimethylbenz(a)anthracene (DMBA). *98th Annual Meeting of the German Society of Pathology*, Berlin, Germany, June 2014 (poster). *Der Pathologe*, 2014, 35(Supplement 1): 132-133.
- Attended the symposium “*Autophagy in Inflammatory Diseases and Cancer*”, hold in University Pierre and Marie Curie (UPMC) and hosted by Bio-Techne, Paris, France (17/3/2015).
- Symposium administration “*The Causes of Cancer in the Style of Ancient and Modern Life*”, hold in Iraqi Centre for Cancer & Medical Genetics Research (27/10/2015).
- Attended the symposium “*microRNA in Cancer*”, hold in Iraqi Centre for Cancer & Medical Genetics Research (25/2/2016).
- Training course “*Specialized Cytogenetics*”, organised by Cancer Research and Medical Genetics departments, Iraqi Centre for Cancer & Medical Genetics Research (27-31/3/2016).
- Training course “*Human Chromosomal Analysis of Blood*”, organised by Cancer Research Medical Genetics departments, Iraqi Centre for Cancer & Medical Genetics Research (24-28/4/2016).
- Training course “*Preparation of Histological Specimens*”, organised by Cancer Research department, Iraqi Centre for Cancer & Medical Genetics Research (25-29/9/2016).
- Attended the conference “*6th Annual Conference of Haematology*”, organised by Iraqi Society of Haematology and National Center of Haematology, Babylon hotel, Baghdad (4-5/11/2016).
- Attended the symposium “*Cancer Other Causes*”, hold in Iraqi Centre for Cancer & Medical Genetics Research (8/11/2016).
- Attended the workshop “*How to Publish in High Impact Journals*”, organised by Iraqi Centre for Cancer & Medical Genetics Research (28/11/2016).
- Attended the workshop “*The Formulation of Scientific Research*”, organised by National Center of Haematology (30/11/2016).
- Lecturer in symposium “*Autophagy in Cancer and Diseases*”, hold in Faculty of Sciences / University of Diyala (1/12/2016).
- Lecturer in several Workshop, Symposium, Annual Meeting and Conferences, and Training Courses in Molecular Pathology and Oncology.