



Curriculum Vitae

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An-Najah Center for Cancer and Stem Cell Research

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The University of Tokyo, 4-6-1 Shirokanedai, Minato-ku,

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Education:

- **2014-2017 - Ph.D-** Department Of Stem Cell Dynamics. Institute Of Medical Sciences. The University Of Tokyo, Japan Supervisor: Prof. **Beate Heissig**.
- **Oct/2012-Sep/2014 M.Sc** - Department Of Stem Cell Dynamics. Institute Of Medical Sciences. The University Of Tokyo, Japan Supervisor: Prof. **Beate Heissig**.
- **Apr/2012-Sep/2012 Research student-** Laboratory of Molecular Medicine. Institute Of Medical Science . The University Of Tokyo, Japan Supervisor: Prof.**Yusuke Nakamra./Prof.Koichi Matsuda**.
- **2008. B.Sc** Bachelor of Science (B.Sc.)/Biology&Biotechnology, An-Najah National University, Nablus- Palestine.

Scientific Interests:

Stem cells: including Hematopoiesis (Normal/Malignant), Epigenetics and Molecular cancer genomics.

Employment Record:

- **July 2019-now**
- Director, An-Najah Center for Cancer and Stem Cell Research
- Faculty of Medicine and Health Science, An-Najah National University, Nablus-Palestine

- **April 2019- now**
- Assistant Professor. Division of Anatomy, Biochemistry & Genetics. Faculty of Medicine and Health Science, An-Najah National University, Nablus-Palestine
- **October 2017-Aprile 2019**
- Postdoctoral fellow. Department of Stem Cell Dynamics. Institute of Medical Sciences. The University of Tokyo.
- **January –September 2017**
- Research assistant- Department of Stem Cell Dynamics. Institute of Medical Sciences. The University of Tokyo.
- **2009- 2012**
- Lab Technician/teaching assistant. (Department of Biology & Biotechnology/An-Najah N. University). For the following courses: Recombinant DNA, Protein isolation& purification, molecular biology, applied biotechnology I, applied biotechnology II, Plant tissue culture, microbiology, animal physiology, mycology.

Research & Teaching Experience:

- **2019-Present:** Assistant Professor. Division of Anatomy, Biochemistry & Genetics. Faculty of Medicine and Health Science, An-Najah National University, Nablus-Palestine

Taught courses:

- Molecular Genetics, Cell Biology, Hematology, General Biology, Histology, Genetics.
- Master and Ph.D students supervision

Expertise:

- Molecular Biology techniques including PCR, shRNA/siRNA designing and cloning, plasmid /vector cloning.
- Techniques in Protein isolation &Purification including: Electrophoresis, Gel Permeation Chromatography, Affinity Chromatography, Western Blot.
- Techniques in Microbiology &Molecular Microbiology.
- Recombinant DNA techniques.
- Very good experience to prepare slides from all type of organisms & animal tissues.
- Hematopoietic stem cells/ Mesenchymal stem cells, growth factors, cell culture of stem cells, primary and cancer cells.
- Lentivirus/adenovirus/retroviruses preparation and stem/cancer cells infection
- Bioinformatics analysis
- Microarray/ChIP and FISH
- Immunostaining/IHC
- CRISPR/gRNA designing and cloning
- Epigenetic/ miRNA sequences designing and plasmid cloning.
- RNA/DNA sequencing
- Human hematopoietic stem cells/ MSCs isolation from cord blood, culture and expansion
- Mice handling. (injection, tumor/ disease model set up, and transplantation)
- iPS cells culture and maintenance.
- Recombinant protein production using Ecoli or Insect cells.
- Flow cytometer handling and analysis.
- Setting many inflammatory models in mice/ GVHD and testing several drugs on these models.

Patent / award history

- 2012-2017 MEXT scholarship
- 2017 Patent (25B177001-1): Methods for expansion of hematopoietic stem and progenitor cells. Applicants: Yousef Mahmmoud Salama, Beate Heissig.

Conferences/talks/symposiums:

- **2014, Kyoto-Japan**
- **Japanese Society for Regenerative Medicine**
- (EGFL7 recruits quiescent HSCs into active cell cycle and expands HSCs).
- **2014, Osaka-Japan**
- **The Japanese Society of Hematology (JSH)**

- (EGFL7 regulates hematopoietic stem/progenitor cell fate in the bone marrow niche through $\beta 3$ integrin).
- **2017, Tokyo-Japan**
- **iPS Cells and Medicine of the Future**
- Special guest. Professor Shinya Yamanaka
- **2014, The 67th of Stem Cell Biology and Regenerative Medicine Forum.**
- (EGFL7 recruits quiescent HSCs into active cell cycle and expands HSCs).
- Center for Stem Cell Biology and Regenerative Medicine
- **Stem Cell Biology and Regenerative Medicine Forum. Monthly from (2013-2018).**

Ongoing research/grants:

- 1-Grants-in-Aid for scientific research-KAKENHI. For Early-Career Scientists, 2019.
- 2-Higher Council for Innovation and Excellence. 2020/2021.
- 3-Sukhtian group, 2020/2021.

Publications:

1. **Salama Y**, Beate Heissig, Anas Al-Al, Abdel Naser Zaid, Kifah S. M. Salih, Abdelkader Zarrouk, Amjad M. Shraim, Ismail Warad. Molecular docking analysis identifies a well-designed benzohydrazide as a promising inhibitor of the 2019-nCoV main protease 6lu7. *Journal of Medicinal Chemistry*. In preparation 2021.
2. **Salama Y**, Beate Heissig, Nidal Jaradat, Koichi hattori. ALOC inhibits melanoma growth through targeting EGFR signaling. *Cancer research*. In preparation 2021.
3. **Salama Y**, Ismael Gritli, Chiemi Nishida, Lai Chen-Yi, Makoto Otsu, Terumasa Umemoto, Satoshi Yamazaki, Mirco Schmidt, Tomoyuki Yamaguchi, Koichi Hattori, Hiromitsu Nakauchi, Beate Heissig. Egfl7 promotes hematopoietic stem cell expansion and increases myeloid-megakaryocytic lineage priming by modulating Notch signaling. *Cell Stem Cell*, In preparation 2021.
4. **Salama Y**, Shinya Munakata, Kiyoshi Yamaguchi, Masanobu Oshima, Yoichi Furukawa, Koichi Hattori, Beate Heissig. Fibrinolytic factors promote colonic carcinogenesis through miR-126-mediated targeting of the inflammatory niche. *Nature Cell biology*, In preparation 2021.
5. Beate Heissig, **Yousef Salama**, Taro Osada, Ko Okumura and Koichi Hattori. The Multifaceted Role of Plasminogen in Cancer. *International journal of molecular sciences*. 2021
6. Beate Heissig, **Yousef Salama**, Satoshi Takahashi, Ko Okumura, and Koichi Hattori. The multifaceted roles of EGFL7 for tumor metastasis and drug resistance. *Cancers*. 2021
7. Beate Heissig, **Yousef Salama**, Taro Osada, Yuko Tsuda, Satoshi Takahashi, Koichi Hattori. The fibrinolytic factor tPA drives LRP1-mediated melanoma growth and metastasis. *Cancer Research* 80 (21 Supplement), PO-105-PO-105. 2020
8. Beate Heissig, **Salama Y**, Satoshi Takahashi, Taro Osada, Koichi Hattori. The multifaceted role of plasminogen in inflammation. *Cellular Signaling*, 2020
9. **Salama Y**, Andries Heida, Kazuaki Yokoyama, Satoshi Takahashi, Koichi Hattori, Heissig B. The EGFL7-ITGB3-KLF2 axis enhances survival of multiple myeloma in preclinical models. *Blood advances*, 2020.
10. **Salama Y**, Shiou-Yuh Lin, Douaa Dhahri, Koichi Hattori, Beate Heissig. The fibrinolytic factor tPA drives LRP1-mediated melanoma growth and metastasis. *The FASEB*, October, 2108.

11. Shinya Munakata, Kumpei Honjo, Yoshihiro Tashiro, Kazuhiro Sakamoto, **Salama Y**, Kouichi Hattori, Beate Heissig. Plasminogen Activator Inhibitor-1 is a Therapeutic Target for the Prevention of Postoperative Adhesion in Mice. ***Gastroenterology***. 2018
12. **Salama Y**, Hattori K, Heissig B. The angiogenic factor Egfl7 alters thymogenesis by activating Flt3 signaling. ***Biochem Biophys Res Commun***. Jun 8. pii: S0006-291X(17)31135-X. doi: 10.1016/j.bbrc.2017.06.023, 2017.
13. Eiamboonsert S, **Salama Y**, Watarai H, Dhahri D, Tsuda Y, Okada Y, Hattori K, Heissig B. The role of plasmin in the pathogenesis of murine multiple myeloma. ***Biochem Biophys Res Commun***. May 10. pii: S0006-291X(17)30924-5. doi: 10.1016/j.bbrc.2017.05.062, 2017.
14. Shimazu H, Munakata S, Tashiro Y, **Salama Y**, Eiamboonsert S, Ota Y, Onoda H, Tsuda Y, Okada Y, Nakauchi H, Heissig B, Hattori K. Pharmacological targeting of plasmin prevents lethality and tissue damage in a murine model of macrophage activation syndrome. ***Blood***, 2017.
15. Honjo K, Shinya Munakata S, Tashiro Y, **Salama Y**, Shimazu H, Eiamboonsert S, Dhahri D, Ichimura A, Dan T, Miyata T, Takeda K, Sakamoto K, Hattori K, Heissig B. Plasminogen activator inhibitor-1 regulates macrophage-dependent postoperative adhesion by enhancing EGF-HER1 signaling in mice. ***FASEB***, 2017.
16. Dhahri D, Sato-Kusubata K, Ohki-Koizumi M, Nishida C, Tashiro Y, Munakata S, Shimazu H, **Salama Y**, Eiamboonsert S, Nakauchi H, Hattori K# and Heissig B#. Fibrinolytic crosstalk with endothelial cells expands murine mesenchymal stromal cells. ***Blood***, 128(8), 1063-75, 2016.
17. Heissig B*#, Eiamboonsert S, **Salama Y**, Shimazu H, Dhahri D, Munakata S, Tashiro H, Hattori K. Cancer therapy targeting the fibrinolytic system. ***Advanced Drug Delivery Reviews***, ***Adv Drug Deliv Res***, 1:99:172-9, 2016.
18. Heissig B*#, Dhahri D, Eiamboonsert S, **Salama Y**, Shimazu H, Munakata S, Hattori K. Role of mesenchymal stem cell-derived fibrinolytic factor in tissue regeneration and cancer progression. ***Cell Mol Life Sci.***, Dec;72(24):4759-70, 2015.
19. Munakata S*, Tashiro Y*, Nishida C, Sato A, Komiyama H, Shimazu H, Dhahri D, **Salama Y**, Eiamboonsert S, Takeda K, Yagita H, Tsuda Y, Okada Y, Nakauchi H, Sakamoto K, Heissig B#, Hattori K#. Inhibition of Plasmin Protects Against Colitis in Mice by Suppressing Matrix Metalloproteinase 9-mediated Cytokine Release From Myeloid Cells. ***Gastroenterology***, 148(3), 565-578, 2015.
20. **Salameh Y**, Abdel Fattah M, Abu-Hijleh A, Adwan G, Jarrar N, and Adwan K. Inhibitory Effect of Varthemia iphionoides Extract on the Contractility of isolated Rabbit Ileum. ***Journal of Pharmacy Practice and Research***, 4(12):4367-4368 react-text: 62 · /react-text react-text: 63 January 2011
21. Adwan G, **Salameh Y**, Adwan K. Effect of ethanolic extract of *Ecballium elaterium* against *Staphylococcus aureus* and *Candida albicans*. ***Asian Pac J Trop Biomed***. 2011 Dec; 1(6): 456–460.
22. Kamel Adwan, Naser Jarrar, Awni Abu-Hijleh, Ghaleb Adwan, Elena Awwad, **Yousef Salameh**. Molecular analysis and susceptibility patterns of methicillin-resistant *Staphylococcus aureus* strains causing community- and health care-associated infections in the northern region of Palestine. ***American Journal of Infection Control***, Volume 41, Issue 3, March 2013, Pages 195–198
23. Adwan G, **Salameh Y**, Adwan K. Susceptibility of *Candida albicans* isolates to Terbinafine and Ketoconazole. ***IUG Journal of Natural and Engineering Studies*** 01/2012; 20(2):45-53

24. Ghaleb Adwan, **Yousef Salameh**, Kamel Adwan, Ali Barakat. Assessment of antifungal activity of herbal and conventional toothpastes against clinical isolates of Candida albicans. *Asian Pac J Trop Biomed*. 2012 May; 2(5): 375–379
25. Kamel Adwan, Ghaleb Adwan, Naser Jarrar, **Yousef Salama**, Ali Barakat. Prevalence of Seg, Seh and Sei Genes Among Clinical and Nasal Staphylococcus Aureus Isolates in. *British Microbiology Research Journal*, ISSN: 2231-0886, Vol.: 3, Issue.: 2 (April-June)
26. Ghaleb Adwan, **Yousef Salama** and Nael Abu Hasan. Microbial Contamination of Environmental Surfaces in An-Najah National University Setting . *Journal of Scientific Research & Reports* 10(2): 1-9, 2016; Article no.JSRR.23098

References:

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