

Rabih Halwani, MSc. Ph.D

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Current Position

[2009- present] **Scientific Director.** Prince Naif Center for Immunology Research (**PNCIR**); Asthma Research Chair; College of Medicine, King Saud University, Riyadh, Saudi Arabia

[2014- present] **Associate Professor.** College of Medicine, King Saud University, Riyadh, Saudi Arabia.

[2009- 2014] **Assistant Professor.** College of Medicine, King Saud University, Riyadh, Saudi Arabia.

[2011 - 2016] **Associate Member.** Meakins-christie Laboratories, McGill University, Montreal, Canada.

Education

[2004-2009] **Post-Doctorate.**
CHUM Research Center, Montreal, Canada.

Mentor: Dr. Rafick-Pierre Sekaly

Project: Qualitative and Quantitative Parameters of Correlates of Protection for HIV-1/SIV Vaccines.

[2000-2004] **Ph.D.** Microbiology and Immunology.
McGill University/Aids Center, Montreal, Canada

Mentor: Dr. Lawrence Kleiman

Ph.D Thesis: Interactions between Gag, GagPol, and Lysyl-tRNA Synthetase during HIV-1 Assembly.

[1995-1997] **Master of Science.** Microbiology and Immunology
American University of Beirut, Lebanon.

[1992-1995] **Bachelor of Science.** Medical Lab Technology.
American University of Beirut, Beirut, Lebanon

Administrative experience

[2016-present] Head of **Research Residency Program** for pediatric residents.

[2009-2011] **Member of the founding committee** of Prince Naif HEALTH Research Center (PNHRC).

[2011-2015] **Member of the Equipment and supplies Committee** of PNHRC.

[2009-present] **Scientific Director** of Prince Naif Center for Immunology Research. Founding principal investigator.

Teaching experience

Prince Naif Center for Immunology Research.

[2016-present] **Training pediatric residents** on basic and clinical Research activities.

[2010-present] Supervising the research program for a number of Medical Interns.

[2012-2016] **Supervisor and Mentor** of Ph.D student **Rowaa Al-Qufaidi**
Thesis Title: Role of Interleukin-17 (IL-17) in the recruitment of B cells to the lung tissue during asthma.

[2014-2018] **Supervisor and Mentor** of Ph.D student **Maha Enazi** thesis.
Thesis Title: Role of cytokines, IL-35 and IL-37 in suppressing lung tissue inflammation during asthma via the regulation of Breg and Treg cells.

[2010-2013] **Co-supervisor** of the Master student Zienab Hamad.
Thesis Title: Genetic modifiers of stroke and gallstones risk in sickle cell disease.

[2013-2015] **Co-supervisor** of the Master student Alanoud Almutairi.
Thesis Title: Polymorphisms in TGF- β -BMP pathway and ADRB1 and The Severity of Sickle Cell Disease.

[2011-2012] **Supervisor and Mentor** of 3rd year Medical students
Medical research course CMED304.

Montreal, Canada

[Fall 2003] **Teaching Assistant**
Concordia University, Montreal, Canada

[2007- 2009] **Research Associate**
CHUM research Center, Montreal, Canada

[2004-2007] **Research Associate**
CHUM research Center, Montreal, Canada

[2002-2004] **Supervisor**
McGill AIDS Center, Montreal, Canada

[1998-1999] **Supervisor**
American University of Beirut, Beirut, Lebanon

Grants

Awarded

- [**2016 -2018**] Association of exposure to Saudi sandstorm dust with increased risk of asthma hospitalization: Role of dust particles components in asthma pathogenesis.
12-MED2892-02-R (1,998,000 SR)
Role: **Principal investigator.**
Granting Agency: The National Plan for Science and Technology (**NPST**), King Saud University, Riyadh, SA.
Consultants and Collaborators: **Prof. Qutayba Hamid** (McGill University, Montreal, Canada); **Prof. Donna Davies** (University of Southampton, UK); **Dr. Chris Grainge** (University of Southampton, UK) and **Prof. Professor Damon Teagle** (University of Southampton, UK).
- [**2016 -2018**] Attenuate T cell immune responses during airway inflammation by modulating inhibitory signalling pathways using a targeted antibody-nanocarrier approach monitored non-invasively via MRI.
14-MED683-02-R (2,000,000 SR)
Role: **Principal investigator.**
Granting Agency: The National Plan for Science and Technology (**NPST**), King Saud University, Riyadh, SA. (**2016**).
- [**2016 -2017**] **Corona Research Group. (150,000 SR)**
Granting Agency: Deanship of scientific research, **Oct, 2016.**
Role: **Principal investigator.**
- [**2016 -2018**] Role of newly discovered Breg cells and its regulatory anti-inflammatory

cytokine IL-35 in the pathogenesis of asthma.

Granting Agency: Deanship of scientific research, Jan, 2016.

Role: Co-Investigator. (25,000 SR)

- [**2016 -2018**] Eosinophil apoptosis using siRNA loaded magnetic nanoparticles for improved Asthma therapy and diagnosis using noninvasive MRI

Granting Agency: NPST, 2016.

Role: Co-Investigator. (1,980,000 SR)

- [**2016 -2018**] Research Grant number **14-MED1053-02**

Granting Agency: The National Plan for Science and Technology (NPST), King Saud University, Riyadh, SA.

Proposal Title: Genome-Wide Sequencing of Serum microRNAs: Exploring Next Generation Biomarkers for Diagnosis and Prognosis of Sepsis in Saudi Children

Role: Co-investigator. (1,800,000 SR)

- [**2015 -2017**] Research Grant

Granting Agency: KACST.

Proposal Title: Identifying the Immune correlates of protection during TB infection.

PI: Dr. Fahad Al-Majed

Role: Co-investigator.

- [**2013 -2015**] Research Grant number **12-MED2536-02 (Completed)**

Granting Agency: The National Plan for Science and Technology (NPST), King Saud University, Riyadh, SA.

Proposal Title: Novel nanocarriers for the direct and efficient delivery of blocking antibodies to asthmatic lungs: noninvasive tracking using MRI

Role: Co-investigator. (Completed) (1,800,000 SR)

- [**2012 -2014**] Research Grant number **02-MED1224-10 (Completed) (1,800,000 SR)**

Granting Agency: National Plan for Science and Technology (NPST), King Saud University, Riyadh, SA.

Proposal Title: Role of IL-17 Cytokine in the recruitment of B cells into bronchial lung tissue during asthma.

Role: Principal investigator.

- [**2010 -2012**] Research Grant number **02-BIO97-09 (Completed) (1,200,000 SR)**

Granting Agency: The National Plan for Science and Technology (NPST), King Saud University, Riyadh, SA.

Proposal Title: Role of Eosinophils in the Proliferation of Airway Smooth Muscles in Asthma

Role: Principal investigator.

- [**2010 -2012**] Research Grant (**60,000 US\$**)
Source: Merck & co “MSD”, Saudi Arabia.
Proposal Title: Eosinophils enhance the Proliferation of Airway Smooth Muscles in Asthma.
Role: **Co-investigator.**
- [**2011 -2013**] Research Grant (**60,000 US\$**)
Source: Merck & co “MSD”, Saudi Arabia.
Proposal Title: Novel genetic variations contributing to Asthma susceptibility in Saudi Arabia
Role: **Co-investigator.**
- [**2005-2008**] Post-Doc Fellowship **135, 000 CAD\$**
Source: Canadian Institutes of Health Research (CIHR)

Under Revision

Research Grant

Date submitted: July 2016

Granting Agency: KACST.

Proposal Title: Novel Nanoparticle Based Intranasal **Vaccine For Mers-Cov.**

Role: **Principal Investigator.**

Consultants and Collaborators: Prof. Chien-Te K. Tseng, Department of Microbiology & Immunology, Centers for Biodefense and Emerging Diseases, University of Texas Medical Branch, USA; Prof. Rafick Sekaly, Center for Aids Research, Case Western Reserve University, USA.

Research Grant

Date submitted: July 2016

Granting Agency: KACST.

Proposal Title: Level of Dpp4 Expression In Upper Respiratory Tract Tissue As A Marker Of **High Risk For Mers-Cov Infection.**

Role: **Principal Investigator.**

Research Grant

Date submitted: July 2016

Granting Agency: KACST.

Proposal Title: Middle East Respiratory Syndrome **Coronavirus** Disease: **A Human Genetic Study**

Role: **Co-Investigator.**

Awards

- [2016] **King Saud University Award for Scientific Excellence.**
Award Presented by his Excellency **Prince Faisal Bin Bandar Bin Abdulaziz Al-Saud**, the Governor of Riyadh province.
Riyadh, 16 **May, 2016.**

- [2015] **Best Abstract PRIZE.**
World Allergy Congress (WAC) 2015.
Seoul, Korea, 14-17 **Oct, 2015.**

- [2015] **First place Best Abstract Award.**
Gulf Thoracic Society meeting (GTS) 2015.
Dubai, UAE, 4-7 **March, 2015.**

- [2014] **Best Abstract PRIZE.**
European Academy of Allergy and Clinical Immunology (EAACI) 2014.
Copenhagen, Denmark, 7-11 **June, 2014.**

- [2010] **Outstanding Poster Award.**
World Allergy Organization (WAO) 2010. Dubai. 5-8 December.

- [2003-2004] **Doctoral Research Award 63, 000 CAD\$**
Source: Canadian Institutes of Health Research (CIHR)

- [2002-2003] Faculty of Medicine Internal **Studentship Award 30, 000 CAD\$**
McGill University

Journals Affiliated with as Editor or Reviewer

- o Clinical and Experimental Allergy (Editorial board member)
- o Open Journal of Respiratory Diseases (Editorial board member)
- o Journal of Respiratory Disorders (Editorial board member)
- o Journal of Lung Diseases & Treatment (Editorial board member)
- o PLOS one (Reviewer)
- o Journal of Asthma (Reviewer)

Professional memberships

- **Member of Asthma Research Chair, College of Medicine, King Saud University.**

- **Member of American Thoracic Society**
- **Member of European Academy for Allergy and Clinical Immunology (EAACI)**
- Member of INSERM unit, Montreal, Quebec, Canada.
- Member of International AIDS Society (IAS), USA.

Selected Oral Presentations

1. **Rabih Halwani.** Role of IL-17 in regulating inflammatory cells infiltration into lung tissue during asthma. **1st Open Health Research Day, PNHRC, KSU, May 12, 2016.**
2. **Rabih Halwani,** Asma Sultana, Saleh Al-Muhsen, Achraf Al-Faraj. Novel anti-IL-4Ra nanocarrier approach for the efficient control of lung tissue inflammation during asthma. **XXIV World Allergy Congress. Seoul, Korea. 14-17 October, 2015**
3. **Rabih Halwani;** Rowaa al Qufaidi; Pureza, Mary-Angeline; Hamid, Qutayba , Al Muhsen, Saleh IL-17 induces B cell Recruitment to the Bronchial Tissue of Asthmatic Patients via the enhancement of CXCL-13 production. **Gulf Thoracic Society meeting, Dubai, March, 2015.**
4. **Rabih Halwani;** Pureza, Mary-Angeline; Hamid, Qutayba, Al Muhsen, Saleh. IL-17 Induce B cells Recruitment to the Bronchial Tissue during Asthma. **APCAACI 2013. Taipei, Taiwan. 14-17 Nov.**
5. **Rabih Halwani;** Pureza, Mary-Angeline; Hamid, Qutayba, Al Muhsen, Saleh. Role of IL-17 in the Recruitment of B cells into bronchial tissue of severe asthmatic patients. **EAACI-WAO 2013. Milan, Italy. 22-26 June.**
6. **Rabih Halwani,** Al Jahdali H, Hamid Q, Al-Muhsen S. Eosinophils induce Airway Smooth Muscle Cell Proliferation Via a Leukotrienes dependent mechanism. **EAACI 2012, Geneva, Switzerland, 16-20 June, 2012.**
7. **Rabih Halwani,** Al-Muhsen S, Al Jahdali H, Hamid Q. CC and CXC chemokines enhance ASM proliferation and survival via the activation of ERK1/2 signaling pathway. **EAACI 2011, Istanbul, Turki, 11-15 June, 2011.**
8. **Rabih Halwani,** Al-Muhsen S, Hamid Q. Role of IL-17 in the recruitment of B cells to the bronchial tissue of severe asthmatic patients. **ATS, Denver, USA, 13-18 May, 2011.**
9. **Rabih Halwani,** Al-Muhsen S, Hamid Q. Recruitment of B cells to the airways in severe asthmatics. **EACCI 2010, London, 5-9 June, 2010.**
10. **Rabih Halwani.** Molecular Aspects of Asthma. Saudi Pediatric Association Symposium. **Mekkah, 4-5 Oct., 2010**
11. **Rabih Halwani,** Al-Muhsen S, Hamid Q. IL-17 enhances B cell migration, a possible mechanism for the recruitment of B cells to the airways in severe asthma. **Gulf thoracic 2010, Abu Dhabi 17-20 March 2010.**
12. **Rabih Halwani,** JD Boyer, DB Weiner, and RP Sekaly. CHUM Research Center, St.-Luc Campus, Montreal, Quebec, Canada. Vaccination of SIV infected Rhesus Macaques with DNA+IL-12/IL-15 enhances the activity of memory T cell subsets through the down-regulation of PD-1, the T cell exhaustion marker. **Third Al-Ain International Immunology Meeting. March 17-20, 2008. Al-Ain, United Arab Emirates.**
13. **Rabih Halwani,** BY Diab, JD Boyer, DB Weiner, and RP Sekaly. DNA Vaccination in the presence of cytokine adjuvants induces poly-functional memory T cells with lower PD-1 level of expression in SIV infected Rhesus Macaques. **AIDS vaccine 2007 conference. Seattle. USA. August 2007**
14. **Rabih halwani,** BY Diab, and RP Sekaly. Therapeutic Vaccination with SIV DNA+IL-12 or IL-15 induces distinct CD8 memory Subsets in SIV Infected Macaques. **Immunologic Memory Keystone symposia, 2007. New Mexico March, 2007.**
15. **Rabih halwani,** and RP Sekaly. DNA Vaccination in the presence of cytokine adjuvants down-regulates PD-1 expression on memory subsets in SIV infected Rhesus Macaques. **The 4th International AIDS Society (IAS) conference on HIV pathogenesis and treatment. July, Sydney, Australia, 2007.**

16. **Rabih halwani**, BY Diab, JD Boyer, DB Weiner, and RP Sekaly. Therapeutic Vaccination with SIV DNA+IL-12, IL-15 induces protective T cell Memory Subsets in SIV Infected Macaques. **AIDS vaccine 2006 conference. Amsterdam. Aug. 2006.**
17. **Rabih Halwani**, Mark A. Wainberg, and Lawrence Kleiman. Gag/GagPol complex is the core of a packaging complex that localize to DRM faster than Gag/Gag complex. **The Experimental Medicine 22nd Annual Research Seminar, McGill University, Montreal. Sep., 2003**
18. **Rabih Halwani**, Mark A. Wainberg, and Lawrence Kleiman. GagPol domains responsible for the localization of Gag/GagPol complex to DRM faster than Gag/Gag complexes. **The 2nd International AIDS Society (IAS) conference on HIV pathogenesis and treatment. July, 2003-Paris, France.** Abstract number: 190.
19. **Rabih Halwani**, Mark A. Wainberg, and Lawrence Kleiman. Assembly and movement of Gag/Gag-Pol complexes in HIV-1 infected cells. **The 1st International AIDS Society (IAS) conference on HIV pathogenesis and treatment. July 8-11, 2001-Buenos Aires, Argentina.** Abstract number: 118. Page: 119.

Selected Poster Abstracts

1. **Rabih Halwani**, Asma Sultana, Amer Jamhawi, Ahmed Bahammam, Saleh al Muhsen. Th-17 regulatory cytokines enhance neutrophil production of IL-17 during asthma. **XXIV World Allergy Congress. Seoul, Korea. 14-17 October, 2015**
2. **Rabih Halwani**, Achraf Al-Faraj, Al Jahdali H, Hamid Q, Al-Muhsen S. Polymorphisms within IL-4 receptor alpha and STAT6 are associated with increased risk of asthma in a Saudi Arabian population. **EAACI 2014, Copenhagen, Denmark, 07-11 June, 2014.**
3. **Halwani, Rabih**; Pureza, Mary-Angeline; Hamid, Qutayba, Saleh Al Muhsen. IL-17 enhances B cells infiltration to the Bronchial Tissue During Asthma. **British Society for Immunology congress 2013. Liverpool, UK. 2-5 December.**
4. **Halwani, Rabih**; Al Muhsen, Saleh; Pureza, Mary-Angeline; Hamid, Qutayba. IL-17 induce B cell recruitment to the bronchial tissue of severe asthmatic patients. **American Thoracic Society (ATS) 2013. Philadelphia, USA. 17-22 May.**
5. **Halwani, Rabih**; Al Muhsen, Saleh; Al Jahdali, Hamdan; and Hamid, Qutayba. Regulation of profibrotic cytokines release from human eosinophils by Th17 cytokines. **World Allergy Organization (WAO) 2012. HaidarAbad, Indea. 5-8 December.**
6. Al-Muhsen, Saleh; **Halwani, Rabih**; Al Jahdali, Hamdan; Hamid, Qutayba. Eosinophils Enhance Airway Smooth Muscle Cell Proliferation Via The Release of Cysteinyl Leukotrienes. **World Allergy Organization (WAO) 2012. HaidarAbad, Indea. 5-8 December.**
7. Saleh Al-Muhsen, **Rabih Halwani**, Hamdan Al-Jahdali and Qutayba Hamid. Th17 cytokines induce profibrotic cytokines release from human eosinophils. **EAACI 2012, Geneva, Switzerland, 16-20 June, 2012.**
8. H. AL-Jahdali, S. Al-Muhsen, S. Baharoon, **R. Halwani**, A. AL-Harbi, Y. Zahrani. Factors Associated with Emergency Department visits by asthmatic patients. **ATS 2012. San Francisco, California, May 18-23.**
9. Al Muhsen, Saleh, **Halwani, Rabih**, Hamid, Qutayba. Th17 Related Cytokines Promote The Production of Profibrotic Cytokines from Human Eosinophils. **World Allergy Organization (WAO) 2011. Cancun, Mexico. 5-8 December.**
10. **Halwani, Rabih**; Al Muhsen, Saleh; Al Jahdali, Hamdan; Hamid, Qutayba. Eosinophils Enhance Airway Smooth Muscle Cell Proliferation. **World Allergy Organization (WAO) 2011. Cancun, Mexico. 5-8 December.**
11. Vazquez-Tello, A., **Halwani, R.**, Hamid, Q., and Al-Muhsen. IL-17 Role in the Regulatory Function of B Cells. **World Allergy Organization (WAO) 2011. Cancun, Mexico. 5-8 December.**

12. Vazquez-Tello, A., **Halwani, R.**, Hamid, Q., and Al-Muhsen. Role of Th-17 Cytokines in Steroid Insensitivity in Peripheral Blood Mononuclear Cells. Relationship to GRAlpha and GR-Beta Expression. **World Allergy Organization (WAO) 2011. Cancun, Mexico. 5-8 December.**
13. Saleh Al-Muhsen, **Rabih Halwani**, Marianne Béland, Yuki Sumi, and Qutayba Hamid. Eosinophils enhance airway smooth muscle cell proliferation independent of extracellular matrix (ECM) production. **EAACI 2011, Istanbul, Turki, 11-15 June, 2011.**
14. **Rabih Halwani**, Al-Muhsen S, Al Jahdali H, Hamid Q. CC and CXC chemokines enhance ASM proliferation and survival via the activation of ERK1/2 signaling pathway. **EAACI 2011, Istanbul, Turki, 11-15 June, 2011.**
15. Marianne Beland, **Rabih Halwani**, Yuki Sumi, Saleh Al-Muhsen and Qutayba Hamid. Eosinophils enhance airway smooth muscle cell proliferation. **ATS, Denver, USA, 13-18 May, 2011.**
16. Saleh Al-Muhsen, **Rabih Halwani**, Hamdan Al-Jahdali and Qutayba Hamid. Th17 cytokines induce profibrotic cytokines release from human eosinophils. **ATS, Denver, USA, 13-18 May, 2011.**
17. **Rabih Halwani**, Alejandro Vazquez-Tello, Qutayba Hamid, and Saleh Al-Muhsen. IL-17 drives the recruitment of B cells to the bronchial tissue of severe asthmatic patients. **World Allergy Organization (WAO) 2010. Dubai. 5-8 December.**
18. Saleh Al-Muhsen, **Rabih Halwani**, Jehan Al Abri and Qutayba Hamid. Epithelial cell derived chemokines enhance the proliferation and survival of airway smooth muscle cells via the activation of ERK1/2 signaling pathway. **World Allergy Organization (WAO) 2010. Dubai. 5-8 December.**
19. **Rabih Halwani**, Alejandro Vazquez-Tello, Yuki Sumi, Qutayba Hamid, and Saleh Al-Muhsen. Eosinophils enhance airway smooth muscle cell proliferation. **World Allergy Organization (WAO) 2010. Dubai. 5-8 December.**
20. Al-Muhsen S, **Halwani R**, Hamid Q. Effect of CC chemokines on ASM cell proliferation in asthmatic patients. **EACCI 2010, London, 5-9 June, 2010.**
21. **Halwani R**, Al-Muhsen S, Hamid Q. Role of eosinophils in ASM cell proliferation in asthmatic patients. **EACCI 2010, London, 5-9 June, 2010.**
22. **Rabih Halwani**, Al-Muhsen S, Hamid Q. Recruitment of B cells to the airways in severe asthmatics. **EACCI 2010, London, 5-9 June, 2010.**
23. Al-Muhsen S, **Halwani R**, Jehan Al Jabri, Hamid Q. Effect of CC and CXC Chemokines on Airway Smooth Muscle Proliferation and Survival. **Gulf thoracic 2010, Abu Dhabi 17-20 March 2010.**
24. **Halwani R**, Al-Muhsen S, Hamid Q. Co-culture with eosinophils enhances airway smooth muscle cell proliferation. **Gulf thoracic 2010, Abu Dhabi 17-20 March 2010**
25. **Rabih Halwani**, Al-Muhsen S, Hamid Q. IL-17 enhances B cell migration, a possible mechanism for the recruitment of B cells to the airways in severe asthma. **Gulf thoracic 2010, Abu Dhabi 17-20 March 2010.**
26. **Rabih halwani**, BY Diab, and RP Sekaly. Therapeutic Vaccination with SIV DNA+IL-12 or IL-15 induces distinct CD8 memory Subsets in SIV Infected Macaques. **Immunologic Memory Keystone symposia, 2007. New Mexico March, 2007.**
27. **Rabih halwani**, BY Diab, JD Boyer, DB Weiner, and RP Sekaly. Therapeutic Vaccination with SIV DNA+IL-12, IL-15 induces protective T cell Memory Subsets in SIV Infected Macaques. **AIDS vaccine 2006 conference. Amsterdam. Aug. 2006.**
28. **Rabih Halwani**, Lawrence Kleiman The interaction of Gag with aminoacyl-tRNA synthetases and aminoacyl-tRNA synthetase-associated proteins during HIV-1 assembly. **13th annual Canadian conference on HIV/AIDS research (CAHR 2004). May 13-16, 2004. Montreal, Canada. Abstract number: 134p.**
29. **Halwani**, Mark A. Wainberg, and Lawrence Kleiman. Role of GagPol in HIV-1 assembly. **The 3rd Annual McGill Biomedical Graduate Conference. Montreal, Canada. Feb. 2003. Abstract number : 116**
30. **Rabih Halwani**, Mark A. Wainberg, and Lawrence Kleiman. Cellular distribution of Gag/GagPol complexes in HIV-1 infected cells and the role of RNA and high density lipid rafts “Barges” in their

- assembly and stabilization. **The XIV International Aids conference.** July 7-12, 2002-Barcelona, Spain. Abstract number: TuPeA4380. Page: 92.
31. **Rabih Halwani**, Mark A. Wainberg and Lawrence Kleiman. Assembly of Gag/GagPol complexes in HIV-1-Distribution and role of RNA. **Retroviruses conference**, May 21-26, 2002. Cold spring Harbour, NY, USA. Abstract number : 109
 32. Ahmad Khorchid, **Rabih Halwani**, and Lawrence Kleiman. The Cytoplasmic Interaction of HIV-1 Precursor Proteins Pr55Gag and Pr160Gag-pol Requires RNA. **The 7th Conference on Retroviruses and Opportunistic Infections.** Jan 30-Feb. 2, 2000. San Francisco, USA. Abstract number: 396. Page :151.

Papers Submitted/under revision

1. **Rabih Halwani***, Asma Sultana, Amer Jamhawi, and Alejandro Vazquez-Tello. *Th-17 regulatory cytokines IL-21, IL-23, and IL-6 enhance neutrophil production of IL-17 cytokines during asthma.* **Journal of Asthma. Under Revision. Sept 2016 (*corresponding author).**
2. **Rabih Halwani***, Asma Sultana, Rosan Kenana, Abeer A. Al-Masri. Enhanced infiltration of Central Memory T Cells to the Lung Tissue during Allergic lung inflammation. (***corresponding author**). **Plos One. Submitted Oct. 2016.**
3. **Halwani R***, Vazquez-Tello A, Sibtain Afzal, Jamhawi A. *Single-nucleotide polymorphisms in TSLP gene are associated with asthma risk in a Saudi Arabian population.* **BMC medical genetics. Under revision (*corresponding author), Sept 2016.**
4. **Rabih Halwani***, Alejandro Vazquez-Tello, Sibtain Afzal. *Dust storms and the risk of asthma admissions to hospitals in Saudi Arabia.* (***corresponding author**). **In preparation, Oct 2016.**
5. **Rabih Halwani***, Rosan Kenana, Alejandro Vazquez-Tello. Association of the three IL-13 SNPs with atopic asthma in a Saudi Arabian population (***corresponding author**). **In preparation, Oct 2016.**
6. Roua Al-kufeidy, Badraa A. Muharib, Fatema M. Alkhashram, Sarah I. Bin Hussain, Riham S. Alhenaki, Alejandro Vazquez-Tello, Abdulrahman Al-Frayh, Muslim M. Al Saadi, Shaikh M. Iqbal, Abdullah E. Ibrahim, Saleh Al-Muhsen, **Rabih Halwani***. *Impact of asthma on the quality of life of adolescent patients from Saudi Arabia with different severity symptoms.* **Journal of International Medical Research, under revision. (*corresponding author). August 2016.**
7. Saleh Al-Muhsen, **Rabih Halwani**, Alejandro Vazquez-Tello, Nour Horanieh, Said Dulgom, Zuhair Assiri, Hamdan Al-Jahdali. *Lack of asthma education, medication compliance and inappropriate inhaler device use hinder control of asthma symptoms in Saudi children visiting the emergency department.* **Pediatrics International. Under Revision. Sept 2016.**
8. Achraf Al Faraj, Abjal Pasha Shaik, Asma Sultana Shaik, **Rabih Halwani**, Mohammed Alnafea. *Effect of Polyethylene Glycol Surface Charge Functionalization of SWCNT on the in vitro and in vivo Nanotoxicity and Biodistribution Monitored Noninvasively using MRI.* **Journal of applied Toxicology. Under revision. August 2016.**

Publications

1. Roua Al-Kufaidy, Alejandro Vazquez-Tello, Ahmed S. BaHammam, Qutayba Hamid, Saleh Al-Muhsen, and **Rabih Halwani***. *IL-17 enhances the migration of B cells during asthma by inducing CXCL-13 chemokine production in structural lung cells*. **JACI**, Sept. 14, 2016. **(IF: 12.5)**
2. **Rabih Halwani***, Asma Sultana, Sibtain Afzal, Saleh Al-Muhsen, Achraf Al Faraj. *Novel anti-IL-4Ra nanocarrier approach for the efficient control of lung tissue inflammation during asthma*. **Experimental and molecular medicine**. Accepted. In press (Nature group) (*corresponding author), April, 2016.
3. Khalid M. Alkharfy, Basit L. Jan, Sibtain Afzal, Fahad I. Al-Jenoobi, Abdullah M. Al-Mohizea, Saleh Al Muhsen, **Rabih Halwani**, Mohammad K. Parvez, Mohammed S. Al-Dosari. *Prevalence of UDP-glucuronosyltransferase Polymorphisms (UGT1A6*2, 1A7*12, 1A8*3, 1A9*3, 2B7*2, and 2B15*2) in a Saudi Population*. **Saudi Pharmaceutical Journal** · June 2016
4. Ratemi E, Sultana Shaik A, Al Faraj A, **Halwani R***. Alternative approaches for the treatment of airway diseases: focus on nanoparticle medicine. **Clin Exp Allergy**. 2016 Aug;46(8):1033-42. Review. (*corresponding author)
5. Alkhayal KA, Awadalia ZH, Vaali-Mohammed MA, Al Obeed OA, Al Wesaimer A, **Halwani R**, Zubaidi AM, Khan Z, Abdulla MH. Association of Vitamin D Receptor Gene Polymorphisms with Colorectal Cancer in a Saudi Arabian Population. **PLoS One**. 2016 Jun 16;11(6):e0155236.
6. **Halwani R**, Sultana A, Al-Kufaidy R, Jamhawi A, Vazquez-Tello A, Al-Muhsen S. Th-17 regulatory cytokines inhibit corticosteroid induced airway structural cells apoptosis. **Respir Res**. 2016 Jan 16;17(1):6.
7. Al Faraj A, Shaik AS, Ratemi E, **Halwani R**. Combination of drug-conjugated SWCNT nanocarriers for efficient therapy of cancer stem cells in a breast cancer animal model. **J Control Release**. 2016 Jan 29;225:240-251.
8. Al Faraj A, Shaik AS, Afzal S, Al-Muhsen S, **Halwani R**. Specific targeting and noninvasive magnetic resonance imaging of an asthma biomarker in the lung using polyethylene glycol functionalized magnetic nanocarriers. **Contrast Media Mol Imaging**. 2015 Dec 28.
9. Binkhathlan Z, Badran MM, Alomrani A, Aljuffali IA, Alghonaim M, Al-Muhsen S, **Halwani R**, Alshamsan A. Reutilization of Tacrolimus Extracted from Expired Prograf® Capsules: Physical, Chemical, and Pharmacological Assessment. **AAPS PharmSciTech**. 2015 Oct 16.
10. Al Faraj A, Shaik AS, Al Sayed B, **Halwani R**, Al Jammaz I. Specific targeting and noninvasive imaging of breast cancer stem cells using single-walled carbon nanotubes as novel multimodality nanoprobes. **Nanomedicine (Lond)**. 2016 Jan;11(1):31-46.
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