

Rabih Halwani, MSc. Ph.D

Professor of Immunology,

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Nationality: Canadian



Current Positions

[2019- present] **Professor of Immunology**, Department of Clinical Sciences, College of Medicine, University of Sharjah, Sharjah, UAE.

Previous Positions/Titles

[2018- 2019] **Associate Director**, College of Medicine Research Center (CMRC), College of Medicine, King Saud University, Riyadh, Saudi Arabia

[2009- 2019] **Scientific Director**. Immunology Research Laboratory; Asthma Research Chair; College of Medicine, King Saud University, Riyadh, Saudi Arabia

[2018] **Professor of Immunology**, College of Medicine, King Saud University, Riyadh, Saudi Arabia.

[2016- 2019] **Consultant of Immunology**. College of Medicine, King Saud University, Riyadh, Saudi Arabia.

Research Interest

My broad research interests include: Development of Novel therapeutic approaches for the treatment of chronic inflammatory diseases; Understanding the molecular mechanisms involved in chronic inflammation; and discovery of novel genetic variants associated with Primary Immunodeficiency diseases; vaccine development.

Education

[2004-2009] **Post-Doctorate.**

CHUM Research Center, Montreal, Canada.

Mentor: Dr. Rafick-Pierre Sekaly

Topic: 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

Topic: HIV-1 virus 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 Positions

[2018- 2019] **Associate Director**, College of Medicine Research Center (CMRC), College of Medicine, King Saud University, Riyadh, Saudi Arabia

[2018- 2019] **Board member**, Deanship of Scientific Affairs, King Saud University, Riyadh, Saudi Arabia

[2018-2019] **Head of Research Committee**, Pediatrics Department, College of Medicine, KCUH, KSU.

[2018-2019] **Member of Animal Ethics Committee**, King Saud University, Riyadh, Saudi Arabia

[2018-2019] **Head of intra-faculty collaborative research Committee**, College of Medicine, King Saud University, Riyadh, Saudi Arabia

[2017-2019] Member of **Dallah Grant Committee**, College of Medicine, KCUH, KSU.

[2013-2015] **Member of the Equipment and supplies Committee** of Prince Naif Bin AbdelAziz Health Research Center.

[2010-2012] **Member of the Founding Committee** of Prince Naif Bin AbdelAziz Health Research Center.

[2009-present] **Scientific Director**, Immunology Research Lab. Founding Principal Investigator.

Academic Positions Held

[2018] **Professor.** College of Medicine, King Saud University, Riyadh, Saudi Arabia.

[2014- 2018] **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.

Teaching experience

[Sept. 2018-] **Certificate in Medical Education.** Issued by College of Medicine, KSU in collaboration with Swansea University, UK. (April, 2019).

[2016-present] **Training pediatric residents** on basic and clinical Research: Seminars, Workshops, and Research training activities.

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

[2014-2019] **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.

[2012-2017] **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.

[2012-2017] **Supervisor and Mentor** of **Master** student **Sara Dthikri**

Thesis Title: Identifying potential Novel genes involved in familial non-Hodgkin's lymphoma.

[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 2002-2004] **Teaching Assistant**
Concordia University, Montreal, Canada

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

Grants

Awarded

- [2017 -2019] 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).
- [2017 -2019] 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 (1,998,000 SR)
Role: **Principal investigator.**
Granting Agency: The National Plan for Science and Technology (**NPST**), King Saud University, Riyadh, SA. (2016).
- [2016 -2019] **Corona Research Group. (150,000 SR)**

- Granting Agency:** Deanship of scientific research, **Oct, 2016.**
Role: Principal investigator.
- [2017 -2019] 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: Supervisor (Student Grant project) (25,000 SR)
- [2017 -2019] 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)
- [2017 -2019] 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) (1,409,000 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: Nov 2018

Granting Agency: Ministry of Education.

Proposal Title: Novel Pro-apoptotic nanoparticles targeting sinus tissue eosinophils as a novel approach for Chronic Rhinosinusitis therapy.

Role: **Principal Investigator.**

Consultants and Collaborators: Prof. Samer Fakhri, Head of Otolaryngology department, AUBMC, AUB, Beirut, Lebanon; Dr. Aws Alshamsan, Dean of college of Pharmacy, KSU.

Research Grant

Date submitted: Nov 2018

Granting Agency: Ministry of Education.

Proposal Title: Stabilization of Recombinant Protective Antigen (rPA) for use as a vaccine against Bacillus anthracis.

Role: **Principal Co-Investigator.**

Consultants and Collaborators: Maria Elena Bottazzi, PhD – (International Co-Principal Investigator). Associate Dean, National School of Tropical Medicine, Professor, Pediatrics, Section of Pediatric Tropical Medicine & Molecular Virology & Microbiology, Baylor College of Medicine and Texas Children’s Hospital

Research Grant

Date submitted: July 2018

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.

Awards

- [2017] **King Saud University Award for Scientific Excellence.**
FIRST RANK.
Branch: Research Quality Award
Award Presented by his Excellency **Prince Faisal Bin Bandar Bin Abdulaziz Al-Saud**, the Governor of Riyadh province.
Riyadh, **25 May, 2017.**
- [2016] **King Saud University Award for Scientific Excellence.**
Branch: Elite Journals Publishing Award
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 Journal Editorial Board (Editorial board member)
- o the Journal of Nature and Science of Medicine (JNSM) Editorial Board (Editorial board member)
- o Open Journal of Respiratory Diseases Editorial Board (Editorial board member)
- o Journal of Respiratory Disorders Editorial Board (Editorial board member)
- o PLOS one (Reviewer)
- o Journal of Asthma (Reviewer)

Professional memberships

- **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.

Collaborators

- **International**
 - o **Prof. Qutayba Hamid**
Dean of College of Medicine, Sharjah University.
Previous director of Meakins-Christie Laboratories, Montreal, Canada.
 - o **Prof. Jean-Laurent Casanova**
Professor of Human genetics, Rockefeller University, New York, USA.
 - o **Prof. Donna Davis**
Professor of Respiratory Cell and Molecular Biology at the University of Southampton, UK.
 - o **Prof. Rafick-Pierre Sekaly**
Co-Director of the CFAR Proteomics and Systems Biology Core at Case Western Reserve University, Cleveland, Ohio. USA.
 - o **Prof. Chien-Te K. Tseng.**
Department of Microbiology and Immunology, University of Texas, USA.
- **Local and National**
 - o **Dr. Mohamed Bouchama**
King Abdullah International Medical Research Center, King Saud bin Abdulaziz University for Health Sciences, Riyadh.
 - o **Dr. Kheder Al-Zahrani**
Pulmonary Consultant, King Fahd Medical City, Riyadh.
 - o **Dr. El-Aref Ratemi**
Medicinal Chemistry, Jubail Industrial College, Jubail.
 - o **Prof. Hamdan Al Jahdali**
Department of Pulmonary Medicine, College of Medicine, King Saud bin Abdulaziz University for Health Sciences, Riyadh.
- **KSU**
 - o **Prof. Ahmed Bahammam**

- Department of Pulmonary Medicine, College of Medicine.
- **Prof Abdelrahman Alfraih.**
Allergy and Asthma, Department of Pediatrics, College of Medicine.
- **Dr. Abdelrahman Alsultan**
Oncology/Hematology, Department of Pediatrics, College of Medicine.
- **Dr. Maha Abdullah**
Colorectal Cancer Research Center, King Khalid Hospital.
- **Dr. Achraf Al-Faraj.**
Department of Radiological Sciences, College of Health Sciences.
- **Dr. Mohamed Dosari**
College of Pharmacy.
- **Dr. Aws Alshamsan**
Head, King Abdullah Center for Nanotechnology.
- **Dr. Mohamed Omair**
Rheumatologist, department of Internal Medicine, College of Medicine, KKHU.
- **Dr. Maram Otaibi**
Head, Molecular Diagnostic Lab, KKHU.
- **Others.**

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. 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.**
5. **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.**
6. **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.**
7. **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.**
8. **Rabih Halwani,** Al-Muhsen S, Hamid Q. Recruitment of B cells to the airways in severe asthmatics. **EACCI 2010, London, 5-9 June, 2010.**
9. **Rabih Halwani.** Molecular Aspects of Asthma. Saudi Pediatric Association Symposium. **Mekkah, 4-5 Oct., 2010**
10. **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.**

11. **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**
12. **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.**
13. **Rabih halwani**, and RP Sekaly. DNA Vaccination in the presence of cytokine adjuvants down-regulates PD-1 expression on memory subsets in SIV infected Rehsus Macaques. **The 4th International AIDS Society (IAS) conference on HIV pathogenesis and treatment. July, Sydney, Australia, 2007.**
14. **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.**
15. **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**
16. **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.
17. **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**; 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.**
4. **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.**
5. 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.**
6. 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.**
7. **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.**
8. 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.**

9. 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.**
10. 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.**
11. **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.**
12. 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.**
13. 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.**
14. **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.**
15. 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.**
16. **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.**
17. 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.**
18. **Halwani R**, Al-Muhsen S, Hamid Q. Role of eosinophils in ASM cell proliferation in asthmatic patients. **EACCI 2010, London, 5-9 June, 2010.**
19. **Rabih Halwani**, Al-Muhsen S, Hamid Q. Recruitment of B cells to the airways in severe asthmatics. **EACCI 2010, London, 5-9 June, 2010.**
20. 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.**
21. **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**
22. **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.**
23. **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.**
24. **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.
25. **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
26. **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.

27. **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
28. 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. Fabien G Lafaille, Yuval Itan, Bastian Zimmer, Dominik Paquet, Thomas M Carlile, Dylan Kwart, Gaspard Kerner, Vimel Rattina, Michael J Ciancanelli, Kerry Dobbs, Mary L Hasek, Lazaro Lorenzo, Soraya Boucherit, **Rabih Halwani**, Zobaida Alsum, Laura Marques, Fowzan S. Alkuraya, Aziz Bousfiha, Joseph Church, Saleh Al-Muhsen, Marc-Tessier Lavigne, Luigi D Notarangelo, Laurent Abel, Lorenz Studer, Wendy Gilbert, Shen-Ying Zhang, and Jean-Laurent Casanova. *Human cell-intrinsic immunity to HSV-1 in the central nervous system depends on small nucleolar RNA31*. **Under revision at Nature Medicine.**
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). Under preparation.**
3. **Rabih Halwani ***, 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).**
4. Nashwa Othman, M. Omair, M. Daghistani, **Rabih Halwani**, A. Warsy. *Differential cytokine profile of Rheumatoid Arthritis patients under DMARTS or Biologics as a biomarker for better prognosis*. **Under preparation.**
5. Nashwa Othman, M. Omair, M. Daghistani, **Rabih Halwani**, A. Warsy. *Eotaxin as a novel biomarker for Rheumatoid Arthritis disease prognosis in seropositive patients*. **Under preparation.**
6. Roua Al-kufeidy, Alejandro Vazquez-Tello, Sibtain Afzal, **Rabih Halwani**. *Dust storms and the risk of asthma admissions to hospitals in Saudi Arabia*. **In preparation.**
7. 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.**

Publications

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