



Curriculum Vitae



I- Personal information:

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| 1) Full Name: | ▪ Mohamed Moustafa Hassan Nouh |
| 2) Title: | ▪ Vice Dean for Graduate Studies and Research |
| 3) Nationality: | ▪ Egyptian |
| 4) Date of birth: | ▪ May 2 nd 1974 |
| 5) Place of birth: | ▪ Cairo, Egypt |
| 6) Marital status: | ▪ Married |
| 7) Address: | ▪ Faculty of Pharmacy - October 6 University |
| 8) E-Mail: | ▪ mohamed.nooh.pha@o6u.edu.eg |
| 9) H-Index (according to Scopus): | ▪ 16 |
| 10) Website: | ▪ https://www.scopus.com/authid/detail.uri?authorId=15755898500 |
| 11) ORCID: | ▪ 0000-0001-9794-4099 |
| 12) Scopus author ID: | ▪ 15755898500 |

II- Education:

(Cairo University, 1997, University of Tennessee HSC, Memphis, USA, 2008)

III- Professional occupations:

(Biochemistry professor, 2020)

IV- Experience:

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| a) Teaching experience: | ▪ Undergraduate: (Scientific writing & Biochemistry I 2 nd year, Biochemistry II 3 rd year, Clinical Biochemistry 4 th year)
▪ Postgraduate: (research methodology and scientific writing, premaster year) |
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| b) Research experience and list of publications: | Mar 2017- May 2017: Visiting scholar at Pharmacology Dept., UTHSC Memphis TN, USA: continuing work with Dr Suleiman Bahouth and Dr Salvator Mancarella on |
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- isolating heart from adult male rats and preparing single cell suspension of cardiomyocytes to study trafficking of beta 1-adrenergic receptors (β 1-AR). Also, we studied the trafficking of aquaporin-2 (AQP2) in LLC-PK1A kidney collecting duct cell line.
- Nov 2015 - Jan 2016 :** **Visiting scholar** at Pharmacology Dept., UTHSC Memphis TN, USA: working with Dr Suleiman Bahouth and Dr Salvator Mancarella on isolating heart from adult male rats and preparing single cell suspension of cardiomyocytes. Also, we studied trafficking of the agonist-internalized β 1-AR by determining the role of retromer/WASH complexes in sorting β 1-AR from endosomes to the plasma membrane. (Publications 5 & 6)
- May 2013- Aug 2013:** **Visiting scholar** at Pharmacology Dept., UTHSC Memphis TN, USA: work focus on pathways involved in trafficking the β 1-AR and developing a roadmap for its trafficking via type I PDZs versus non-PDZs elucidating the crucial role of the AKAP5 scaffold in signaling and trafficking of the β 1-AR in cardiac myocytes and mammalian cells. (Publications 10 & 11)
- Aug 2009 - Aug 2011:** Postdoctoral trainee at Pharmacology Dept., UTHSC Memphis TN, USA: work focus on characterizing the domains in SAP97 that were involved in recycling and resensitization of the β 1-AR in HEK-293 cells. (Publication 12)
- Aug 2002 - May 2008:** Doctoral student. UTHSC, Molecular Sciences Dept. Dissertation: "Biochemical and Immunological Mechanisms Underlying Differential Interaction of Streptococcal Superantigens with Host Immunogenetic Factors." Advisor: **Dr. Malak Y. Kotb.** Cloning, Expression and purification of streptococcal superantigens, Generation of B cell lines stably expressing single HLA Class II DR or DQ alleles, *in vivo* studies in HLA transgenic mice. (Publications 14, 15, 17, 19, 20)



Jan 1999- May 2002: Predoctoral project. Biochemistry Dept., FOPCU, Cairo, Egypt: Studying the role of nitric oxide and oxidative stress in the development of diabetes mellitus using rats as animal model.

Publications

Since appointed as Professor

1. Bahouth SW, **Nooh MM**, Mancarella S. Involvement of SAP97 anchored multiprotein complexes in regulating cardiorenal signaling and trafficking networks. **Biochem Pharmacol.** 2023 Feb;208:115406. doi: 10.1016/j.bcp.2022.115406.
2. Motawi TMK, William MM, **Nooh MM**, Abd-Elgawad HM. Amelioration of cyclophosphamide toxicity via modulation of metabolizing enzymes by avocado (*Persea americana*) extract. **J Pharm Pharmacol.** 2022 Mar 3;74(3):367-376. doi: 10.1093/jpp/rgab0842021
3. **Nooh MM**, Rizk SM, Saied NM, Abdelazim SM. Carnosine Remedial Effect on Fertility of Male Rats Receiving Cyclophosphamide, Hydroxydaunomycin, Oncovin and Prednisone (CHOP) **Andrologia.** 2021 Dec;53(11):e14233. doi: 10.1111/and.14233.
4. Selim AM, **Nooh MM**, El-Sawalhi MM, Ismail NA. Amelioration of age-related alterations in rat liver: Effects of curcumin C3 complex, Astragalus membranaceus and blueberry. **Exp Gerontol.** 2020 Aug;137:110982. doi: 10.1016/j.exger.2020.110982.
5. Ghaiad HR, Elmazny AN, **Nooh MM**, El-Sawalhi MM, Shaheen AA. Long noncoding RNAs APOA1-AS, IFNG-AS1, RMRP and their related biomolecules in Egyptian patients with relapsing-remitting multiple sclerosis: Relation to disease activity and patient disability. **J Adv Res.** 2019 Nov 4;21:141-150. doi: 10.1016/j.jare.2019.10.012. eCollection 2020 Jan

Since appointed as Associate Professor

1. **Nooh MM**, Kale A, Bahouth SW. Involvement of PDZ-SAP97 Interactions in Regulating AQP2 Translocation in Response to Vasopressin in LLC-PK1 cells. **Am J Physiol Renal Physiol.** 2019 May 29. doi: 10.1152/ajprenal.00228.2018.
2. Ye R, Pi M, **Nooh MM**, Bahouth SW, Quarles LD. Human GPRC6A Mediates Testosterone-Induced Mitogen-Activated Protein Kinases and mTORC1 Signaling in Prostate Cancer Cells. **Mol Pharmacol.** 2019 May; 95(5):563-572. doi: 10.1124/mol.118.115014.



3. Al-Ghobashy MA, Kamal SM, El-Sayed GM, Attia AK, Nagy M, ElZeiny A, Elrakaiby MT, **Nooh MM**, Abbassi M, Aziz RK. Determination of voriconazole and co-administered drugs in plasma of pediatric cancer patients using UPLC-MS/MS: A key step towards personalized therapeutics. **J Chromatogr B Analyt Technol Biomed Life Sci.** 2018 Aug 15; 1092:489-498. doi: 10.1016/j.jchromb.2018.06.043.
4. **Nooh MM**, Mancarella S, and Bahouth SW. Novel paradigms governing β 1-adrenergic receptor trafficking in primary adult rat cardiac myocytes. **Molecular Pharmacology.** May 30 2018.
5. El-Boghdady NA., Abdeltawab NF and **Nooh MM**. Resveratrol and Montelukast Alleviate Paraquat-Induced Hepatic Injury in Mice: Modulation of Oxidative Stress, Inflammation, and Apoptosis. **Oxidative Medicine and Cellular Longevity.** Volume 2017, Article ID 9396425, 9 pages. doi.org/10.1155/2017/9396425
6. Elbanna AH, **Nooh MM**, Mahrous EA, Khaleel AE, Elalfy TS. Extract of Bauhinia vahlii Shows Antihyperglycemic Activity, Reverses Oxidative Stress, and Protects against Liver Damage in Streptozotocin-induced Diabetic Rats. **Pharmacognosy Magazine.** Oct;13:S607-S612. doi: 10.4103/pm.pm_4_17
7. **Nooh MM**, Bahouth SW. Visualization and quantification of GPCR trafficking in mammalian cells by confocal microscopy. **Methods Cell Biol.** 2017; 142:67-78. doi: 10.1016/bs.mcb.2017.07.010.
8. Bahouth SW, **Nooh MM**. Barcoding of GPCR trafficking and signaling through the various trafficking roadmaps by compartmentalized signaling networks. **Cell Signal.** 2017 **Aug ;36** :42-55. doi: 10.1016/j.cellsig.2017.04.015.
9. Ghaiad HR, **Nooh MM**, El-Sawalhi MM, Shaheen AA. Resveratrol Promotes Remyelination in Cuprizone Model of Multiple Sclerosis: Biochemical and Histological Study. **Mol Neurobiol.** 2017 **Jul**; 54(5):3219-3229. doi: 10.1007/s12035-016-9891-5
10. Al-Ghobashy MA, ElMeshad AN, Abdelsalam RM, **Nooh MM**, Al-Shorbagy M, Laible G. Development and Pre-Clinical Evaluation of Recombinant Human Myelin Basic Protein Nano Therapeutic Vaccine in Experimental Autoimmune Encephalomyelitis Mice Animal Model. **Sci Rep.** 2017 **Apr 20**; 7: 46468. doi: 10.1038/srep46468.
11. **Nooh MM**, Bahouth SW. Two barcodes encoded by the type-1 PDZ and by phospho-Ser312 regulate retromer/WASH-mediated sorting of the β 1-adrenergic receptor from



- endosomes to the plasma membrane. **Cell Signal.** **2017 Jan;** **29:** 192-208. doi: 10.1016/j.cellsig.2016.10.014.
12. **Nooh MM**, Mancarella S, Bahouth SW. Identification of novel transplantable GPCR recycling motif for drug discovery. **Biochem Pharmacol.** **2016 Nov 15;** 120 :22-32. doi:10.1016/j.bcp.2016.09.011.
13. Rasheed H, Hegazy RA, Gawdat HI, Mehaney DA, Kamel MM, Fawzy MM, **Nooh MM**, Darwish HA. Serum Vitamin D and Vitamin D Receptor Gene Polymorphism in Mycosis Fungoides Patients: A Case Control Study. **PLoS One.** **2016 Jun 23;**11(6):e0158014. doi: 10.1371/journal.pone.0158014.
14. El-Kashlan AM, **Nooh MM**, Hassan WA, Rizk SM. Therapeutic Potential of Date Palm Pollen for Testicular Dysfunction Induced by Thyroid Disorders in Male Rats. **PLoS One.** **2015 Oct 1;**10(10):e0139493. doi: 10.1371/journal.pone.0139493.

Since appointed as a lecturer

1. Mehaney DA, Darwish HA, Hegazy RA, **Nooh MM**, Tawdy AM, Gawdat HI, El-Sawalhi MM. Analysis of oxidative stress status, catalase and catechol-O-methyltransferase polymorphisms in Egyptian vitiligo patients. **PLoS One.** **2014 Jun 10;**9(6):e99286.
2. **Nooh MM**, Chumpia MM, Hamilton TB, Bahouth SW. Sorting of beta1-Adrenergic Receptors is Mediated by Pathways That are Either Dependent or Independent of Type-1 PDZ, PKA and SAP97. **J Biol Chem.** **2014 Jan 24;**289(4):2277-94.
3. Li X, **Nooh MM**, Bahouth SW. Role of AKAP79/150 Protein in β 1-Adrenergic Receptor Trafficking and Signaling in Mammalian Cells. **J Biol Chem.** **2013 Nov 22;** 288(47):33797-812.
4. **Nooh MM**, Naren AP, Kim SJ, Xiang YK, Bahouth SW. SAP97 controls the trafficking and resensitization of the beta-1-adrenergic receptor through its PDZ2 and I3 domains. **PLoS One.** **2013 May 16;**8(5):e63379
5. Pagadala J., Williams-Guy K., **Nooh MM.**, Steinle JJ. and Miller DD. Beta-adrenergic Receptor Signaling by the Isomers of Isoproterenol and Like Drugs in Retinal Endothelial Cells and Müller Cells. **Med. Chem. Commun.** **2011 June 2,** 726-730
6. **Nooh MM**, Nookala S, Kansal R, Kotb M. Individual Genetic Variations Directly Effect Polarization of Cytokine Responses to Superantigens Associated with Streptococcal Sepsis: Implications for Customized Patient Care. **J Immunol.** **2011 Mar 1;**186(5):3156-63.



Before appointment as a lecturer

1. Kasper KJ, Xi W, Nur-Ur Rahman AK, **Nooh MM**, Kotb M, Sundberg EJ, Madrenas J, McCormick JKJK. Molecular Requirements for MHC Class II Alpha-chain Engagement and Allelic Discrimination by the Bacterial Superantigen Streptococcal Pyrogenic Exotoxin C. **J Immunol.** **2008 Sep** 1;181(5):3384-92.
2. Abdeltawab NF, Aziz RK, Kansal R, Rowe SL, Su Y, Gardner L, Brannen C, **Nooh MM**, Attia RR, Abdelsamed HA, Taylor WL, Lu L, Williams RW, Kotb M. An Unbiased Systems Genetics Approach to Mapping Genetic Loci Modulating Susceptibility to Severe Streptococcal Sepsis. **PLoS Pathog.** **2008 Apr** 18;4(4):e1000042.
3. Li H, **Nooh MM**, Kotb M, Re F. Commercial Peptidoglycan Preparations are Contaminated with Superantigen-like Activity that Stimulates IL-17 Production. **J Leukoc Biol.** **2008 Feb**;83(2):409-18.
4. Aziz RK, Kansal R, Abdeltawab NF, Rowe SL, Su Y, Carrigan D, **Nooh MM**, Attia RR, Brannen C, Gardner LA, Lu L, Williams RW, Kotb M. Susceptibility to Severe Streptococcal Sepsis: Use of a Large Set of Isogenic Mouse Lines to Study Genetic and Environmental Factors. **Genes Immun.** **2007 Jul**;8(5):404-15.
5. **Nooh MM**, El-Gengehi N, Kansal R, David CS, Kotb M. HLA Transgenic Mice Provide Evidence for a Direct and Dominant Role of HLA Class II Variation in Modulating the Severity of Streptococcal Sepsis. **J Immunol.** **2007 Mar** 1;178(5):3076-83.
6. **Nooh MM**, Aziz RK, Kotb M, Eroshkin A, Chuang WJ, Proft T, Kansal R. Streptococcal Mitogenic Exotoxin, Smez, Is The Most Susceptible MIT1 Streptococcal Superantigen To Degradation By The Streptococcal Cysteine Protease, SpeB. **J Biol Chem.** **2006 Nov** 17;281(46):3528.

Book Sections:

- 1- Kotb M, Williams RW, Fathey N, **Nooh M**, Rowe S, Kansal R, and Aziz R. Biotools for determining the genetics of susceptibility to infectious diseases and expediting research translation into effective countermeasures. Jul 2008. In National Institute of Allergy and Infectious Diseases, NIH: Volume 1: Frontiers in Research (Infectious Disease) Vassil St. Georgiev. Humana Press. (ISBN: 978-1934115770)
- 2- Mahrous EA, **Nooh MM**. *Bauhinia vahlii* and antioxidant potential in diabetes. Jan 2020. In Diabetes 2nd edition (Oxidative Stress and Dietary Antioxidants). Pages: 195-202.



Academic Press. <https://doi.org/10.1016/B978-0-12-815776-3.00019-X>

c) Training and Attendance of conferences :

▪ Conferences

- Suleiman Bahouth and **Mohammed M Nooh**: Cardiovascular and Renal Actions of the PDZ protein SAP97. Virtual Experimental Biology, USA, **April 2021**
- Suleiman Bahouth and **Mohammed M Nooh**: Involvement of PDZ-SAP97 interactions in regulating AQP2 translocation in response to vasopressin in LLC-PK1 cells. ICAP, Lesbon, Portugal, **July 2019**
- **Mohammed M Nooh**, Salvator Mancarella and Suleiman Bahouth. Novel paradigms governing β 1-adrenergic receptor trafficking in primary adult rat cardiomyocytes. Experimental Biology, San Diego CA , USA, **April 2018**
- **Mohammed Nooh** and Suleiman Bahouth. New Insights in G-protein Coupled Receptors (GPCR) Trafficking Using β 1-Adrenergic Receptor (B1-AR) as a Model. 4th Future International Conference of Pharmaceutical Sciences. Jan 31st – **Feb 2nd 2017**. Invited speaker
- Suleiman Bahouth and **Mohammed M Nooh**: A Road Map for GPCR Trafficking Pathways. Experimental Biology, San Diego CA , USA, **April 2014**
- **Mohammed M Nooh** and Suleiman Bahouth: Characterizing the Structural Elements Involved in β 1-Adrenergic Receptor Interaction with SAP97. Experimental Biology, Boston MA, USA, **April 2013**
- **Mohammed Nooh** and Suleiman Bahouth. Biochemical and Functional Characterization of SAP97 Interaction with β 1-Adrenergic Receptor. Egyptian Society of Biochemistry and Molecular Biology (ESBMB) Annual Scientific Conference, Ain Shams University **Apr 2012**. Oral presentation
- **Mohammed Nooh** and Malak Kotb. Biochemical Investigation of Molecular Mechanisms Underlying the Effects of HLA Class II Allelic Variations in Modulating Streptococcal Superantigens Responses. Third International Scientific Conference of Faculty of Pharmacy Cairo University. **Apr 2012**.
- **Mohammed M. Nooh**, S. Bahouth: SAP 97 Controls β 1-Adrenergic Receptor Trafficking in a PDZ Dependent Manner. Experimental Biology, Washington DC, USA, **April 2011**



- **Mohammed M. Nooh**, R. Kansal and M. Kotb: Molecular Basis for HLA Class II Differential Presentation of Streptococcal Superantigens Involved in GAS Sepsis. XVII LANCEFIELD international symposium on Streptococci & streptococcal diseases. Porto Heli, Greece, **June 2008**
- **Mohammed M. Nooh**, R. Kansal and M. Kotb: Distinct HLA Class II Haplotypes/Alleles Play a Dominant Role in Controlling The Response to Streptococcal Superantigens. ASM 107th General Meeting, Toronto, Canada, **May 2007**
- **Mohammed M. Nooh**, R. Kansal, D. Brand, and M. Kotb: Evidence for a Direct Role of HLA Class II Allelic Variation in Potentiating Susceptibility to Severe Invasive Streptococcal Infection. AAI Annual Meeting, Boston, MA, **June 2006**
- **Mohammed M. Nooh**, DE Low, A McGeer, A Norrby-Teglund and M. Kotb. Active suppression of Responses to Streptococcal Superantigens by an HLA Class II Allele Associated with Protection from Severe GAS Infections. ASM 105th General Meeting, Atlanta, GA, **June 2005**
- **Mohammed M. Nooh**, N. Gengehi, R. Kansal, C. David, and M. Kotb; Validation of the Involvement of Host Genetic Factors in Determining the Outcome of Invasive Group A Streptococcus Infection Using Humanized HLA Transgenic Mice. ASM 104th General Meeting, New Orleans, LA, **May 2004**

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- **Workshops**
- **"Effective Academic Writing"** online workshop offered by Nature Research Academies on 10-01-2021
- **"Logical Manuscript Structure"** online workshop offered by Nature Research Academies on 11-01-2021
- **"Effective Post-submission Strategies"** online workshop offered by Nature Research Academies on 17-01-2021
- FLDC Training courses (6 courses for Assistant Professor degree):
- **"Research Ethics"** in the period 14-15/05/2014.
- **"University Management"** in the period 17-19/09/2013.
- **"Financial Aspects & University Legal"** in the period 7-9/05/2013.
- **"Communication Skills"** in the period 19-21/01/2013.
- **"Strategic Planning"** in the period 11-13/09/2012.



- **"Competitive Research Projects"** in the period 2-4/01/2012.
- 2- FLDC Training courses (6 courses for Professor degree):
 - **"Critical Thinking"** in the period 1-2/01/2020
 - **"Arabic and English Editing in Scientific Research"** in the period 21-22/08/2019
 - **"Problem Solving and Decision Making"** in the period 16-17/05/2018
 - **"Statistical Analysis of Bio-experiments"** in the period 25-26/11/2017
 - **"Creative Thinking"** in the period 10-11/10/2015
 - **"Meeting and Managing Time"** in the period 9-10/05/2015
 - **"International Publication of Scientific Research"** in the period 7-8/03/2015
 - **"Constructive assessment for learning"** workshop held at DAAD Cairo Office on 28-2-2018
 - **"Designing the effective exam"** workshop held at DAAD Cairo Office on 20-3-2018
 - Take and pass the online course **"Take Your Medicine"** in the period from 13-9-2013 to 13-11-2013
 - **"The Second Clinical Nutrition Course"** workshop held at the National Cancer Institute -Cairo on 24-09-2012.
 - **"From Active Learning to Learning by Research"** DAAD workshop held at FOPCU in the period 12-12-2012 to 16-12-2012.
 - **"Responsible conduct of research"** workshop held at the University of Tennessee on 15-10-2009
 - **Fall 2006:** Biostatistics for the health sciences I, UTHSC, Memphis TN (3 credit hours)
 - **Summer 2006:** AAI advanced course in immunology, Stanford University, CA (3 credit hours)
 - **Fall 2005:** Scientific writing workshop, University of Memphis, Memphis-TN (4 credit hours)
 - **Spring 2004:** Bioinformatics: a two-module course, UTHSC, Memphis-TN (3 credit hours)
 - **Fall 2003:** Special topics B cell biology, UTHSC, Memphis-TN (2 credit hours)
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V- Awards:

- VI- The best research article in Biochemistry, FOPCU 9th international conference, **April 2018**



كلية الصيدلة
Faculty of Pharmacy



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	<p>VII- The best research article in Biochemistry, FOPCU 6th international conference, April 2015</p> <p>VIII- A certificate of appreciation from the FOPCU for participating and getting funded from the Interdisciplinary Research Grant program in the period January 2011 – 2013</p> <p>IX- Cairo University Excellence in Publication awards in 2011 and every year between 2013-2018</p> <p>X- UTHSC postdoctoral travel award, 2011 Experimental Biology, Washington DC, April 2011</p> <p>XI- ASM student travel award, ASM 107th General Meeting, Toronto, Canada, May 2007</p> <p>XII- UTHSC student travel award, AAI 93rd Annual Meeting, Boston, MA, June 2006</p> <p>XIII- ASM student travel award, ASM 104th General Meeting, New Orleans, LA, May 2004</p>
XIV- Memberships in the committee:	<ul style="list-style-type: none">▪ O6U Research Ethics Committee
XV-Other activities:	<ul style="list-style-type: none">▪