

Faleh Alqahtani

Position Title	Director of the Research Center, College of Pharmacy, KSU
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Education

- 2014-2018** Ph.D. in Pharmaceutical Sciences, 2014-2018 Grad School of Biomedical Science, Texas Tech University Health Sciences Center, Amarillo, Texas, USA
- 2005-2011** Bachelor's degree in pharmaceutical science (B.Pharm.Sc), 2005-2011, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.

Work Experience

- 2022-present** **Associate Professor** in Department of Pharmacology and Toxicology, College of pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2018-2022** **Assistant Professor** in Department of Pharmacology and Toxicology, College of pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2012-2018** Teacher Assistant in Department of Pharmacology and Toxicology, College of pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2011-2012** Pharmacist in Armed Force Hospital in South Region (AFHSR), Khamis Mushat, Asisir, Saudi Arabia

Administrative Experience

- 2022- present** **The Director** of Research Center at College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2021-present** The Chair of Institute Animal Care and Use Committee (IACUC) at King Saud University, Riyadh, Saudi Arabia.
- 2020-2022** The Chair of Laboratory and Risk Management Committee at College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2020-2022** The Head of working team for procedures and precautions of COVID-19 pandemic follow-up committee at College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2020-present** Member of the Radiation protection committee at King Saud University, Riyadh, Saudi Arabia.
- 2021-present** Member of Internal Audit Committee at College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2020-2022** The chair of Annual Report Committee at Department of Pharmacology & Toxicology, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- 2020-2022** Member of Quality and Development Committee at Department of Pharmacology & Toxicology, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.

Training & Workshop

- 2020** Instructed led training, equivalent to 35 Professional Development Units **PDU'S** for Project Management Professional certificate (**PMP**). Period from June 6 to June11 2020 by Business leadership training company Riyadh, Saudi Arabia.
- 2020** Governance and Internal Audit training program by Deanship of Skill Development, March 2020, at King Saud University, Riyadh, Saudi Arabia
- 2019** Workshop on Flow Cytometry: Principles and Methods, July 23-26 2019, at the National Institutes of Health, Bethesda, MD, USA.
- 2019** New Faculty Orientation and Preparation Programme by STAFF AND EDUCATION DEVELOPMENT ASSOCIATION (SEDA), September 2019, at King Saud University, Riyadh, Saudi Arabia
- 2017** Workshop: Hands-on Experience with Automated Model-based Drug Development: Incorporating population variability into mechanistic prediction of PK and modelling PK-PD, July 2017, San Francisco, CA, USA
- 2015** Training on Brain microdialysis for mice model, 1- 30 July 2015, in Prof.Dr. Jochen Klein's Lab, Goethe University, Frankfurt am main, Germany.

Publication

- Noorani B, Chowdhury EA, **Alqahtani F**, Sajib MS, Ahn Y, Nozohouri E, Patel D, Mikelis C, Mehvar R, Bickel U. A Semi-Physiological Three-Compartment Model Describes Brain Uptake Clearance and Efflux of Sucrose and Mannitol after IV Injection in Awake Mice. *Pharmaceutical Research*. 2022 Feb 10:1-1.
- Ansari MA, Nadeem A, Alshammari MA, Attia SM, Bakheet SA, Khan MR, Albekairi TH, Alasmari AF, Alhosaini K, **Alqahtani F**, Al-Mazroua HA. Cathepsin B inhibitor alleviates Th1, Th17, and Th22 transcription factor signaling dysregulation in experimental autoimmune encephalomyelitis. *Experimental Neurology*. 2022 Feb 2:113997.
- Alasmari F, Assiri MA, Ahamad SR, Aljumayi SR, Alotaibi WH, Alhamdan MM, Alhazzani K, Alharbi M, **Alqahtani F**, Alasmari AF. Serum Metabolomic Analysis of Male Patients with Cannabis or Amphetamine Use Disorder. *Metabolites*. 2022 Feb;12(2):179.
- Samad N, Imran A, Bhatti SA, Imran I, **Alqahtani F**, Alasmari AF, Sivandzade F. Vitamin D2 protects acute and repeated noise stress induced behavioral, biochemical, and histopathological alterations: Possible antioxidant effect. *Saudi journal of biological sciences*. 2022 Jan 1;29(1):601-9.
- AlAsmari AF, Alharbi M, **Alqahtani F**, Alasmari F, AlSwayyed M, Alzarea SI, Al-Alallah IA, Alghamdi A, Hakami HM, Alyousef MK, Sari Y. Diosmin Alleviates Doxorubicin-Induced Liver Injury via Modulation of Oxidative Stress-Mediated Hepatic Inflammation and Apoptosis via NfκB and MAPK Pathway: A Preclinical Study. *Antioxidants*. 2021 Dec;10(12):1998.
- Alqahtani AS, Herqash RN, **Alqahtani F**, Ahamad SR, Nasr FA, Noman OM. GC-MS Method for Quantification and Pharmacokinetic Study of Four Volatile Compounds in Rat Plasma after Oral Administration of Commiphora myrrh (Nees) Engl. Resin and In Vitro Cytotoxic Evaluation. *Separations*. 2021 Dec;8(12):239.
- Perveen N, Ashraf W, **Alqahtani F**, Fawad Rasool M, Samad N, Imran I. Temporal Lobe Epilepsy: What do we understand about protein alterations?. *Chemical Biology & Drug Design*. 2021 Sep;98(3):377-94.
- Sivandzade F, **Alqahtani F**, Cucullo L. Impact of chronic smoking on traumatic brain microvascular injury: An in vitro study. *Journal of Cellular and Molecular Medicine*. 2021 Aug;25(15):7122-34.
- Alali AS, Alshehri AO, Assiri A, Khan S, Alkathiri MA, Almohammed OA, Badoghaish W, AlQahtani SM, Alshammari MA, Mohany M, Alamri FF, AlRuthia Y, **Alqahtani F**. Demographics, comorbidities, and outcomes among young and middle-aged COVID-19 patients in Saudi Arabia. *Saudi Pharmaceutical Journal*. 2021 Aug 1;29(8):833-42.

- Haider MS, Ashraf W, Javaid S, Rasool MF, Rahman HM, Saleem H, Anjum SM, Siddique F, Morales-Bayuelo A, Kaya S, **Alqahtani F**. Chemical characterization and evaluation of the neuroprotective potential of Indigofera sessiliflora through in-silico studies and behavioral tests in scopolamine-induced memory compromised rats. *Saudi Journal of Biological Sciences*. 2021 Aug 1;28(8):4384-98.
- Ali N, AlAsmari AF, Imam F, Ahmed MZ, **Alqahtani F**, Alharbi M, AlSwayyed M, AlAsmari F, Alasmari M, Alshammari A, Fantoukh OI. Protective effect of diosmin against doxorubicin-induced nephrotoxicity. *Saudi Journal of Biological Sciences*. 2021 Aug 1;28(8):4375-83.
- Chowdhury EA, Noorani B, **Alqahtani F**, Bhalerao A, Raut S, Sivandzade F, Cucullo L. Understanding the brain uptake and permeability of small molecules through the BBB: A technical overview. *Journal of Cerebral Blood Flow & Metabolism*. 2021 Aug;41(8):1797-820.
- Alshehri S, Alanazi A, Elzayat EM, Altamimi MA, Imam SS, Hussain A, **Alqahtani F**, Shakeel F. Formulation, In Vitro and In Vivo Evaluation of Gefitinib Solid Dispersions Prepared Using Different Techniques. *Processes*. 2021 Jul;9(7):1210.
- Hussain I, Yousaf N, Haider S, Jalil P, Saleem MU, Imran I, Majeed A, Uzair M, Rasool MF, **Alqahtani F**, Alqhtani H. Assessing Knowledge and Perception Regarding Antimicrobial Stewardship and Antimicrobial Resistance in University Students of Pakistan: Findings and Implications. *Antibiotics*. 2021 Jul;10(7):866.
- Aldosari BN, Almurshedi AS, Alfagih IM, AlQuadeib BT, Altamimi MA, Imam SS, Hussain A, **Alqahtani F**, Alzait E, Alshehri S. Formulation of Gelucire®-based solid dispersions of atorvastatin calcium: in vitro dissolution and in vivo bioavailability study. *AAPS PharmSciTech*. 2021 Jul;22(5):1-3.
- Rasool MF, Ali S, Khalid S, Khalid R, Majeed A, Imran I, Saeed H, Usman M, Ali M, Alali AS, AlAsmari AF, **Alqahtani F**. Development and evaluation of physiologically based pharmacokinetic drug-disease models for predicting captopril pharmacokinetics in chronic diseases. *Scientific reports*. 2021 Apr 21;11(1):1-6.
- Javaid U, Javaid S, Ashraf W, Rasool MF, Noman OM, Alqahtani AS, Majeed A, Shakeel W, Albekairi TH, **Alqahtani F**, Imran I. Chemical Profiling and Dose-Dependent Assessment of Fear Reducing and Memory-Enhancing Effects of Solanum virginianum in Rats. *Dose-Response*. 2021 Mar 3;19(1):1559325821998486.
- Rahman HM, Javaid S, Ashraf W, Rasool MF, Anjum SM, Saleem H, Siddique F, Chtita S, Sivandzade F, **Alqahtani F**, Alotaibi MR. Neuropharmacological investigation, ultra-high performance liquid chromatography analysis, and in silico studies of Phyla nodiflora. *JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY*. 2021;72(4):637-54.
- Rasool MF, Sarwar R, Arshad MS, Imran I, Saeed H, Majeed A, Akbar M, Chaudhry MO, ur Rehman A, Ashraf W, Ahmad T, Badoghaish W, **Alqahtani F**. Assessing the Frequency and Risk Factors Associated with Gastroesophageal Reflux Disease (GERD) in Southern Punjab, Pakistan. *Risk Management and Healthcare Policy*. 2021;14:4619.
- Almutairi MM, Sivandzade F, Albekairi TH, **Alqahtani F**, Cucullo L. Neuroinflammation and Its Impact on the Pathogenesis of COVID-19. *Frontiers in medicine*. 2021;8.
- Javaid S, Farooq T, Rehman Z, Afzal A, Ashraf W, Rasool MF, **Alqahtani F**, Alsanea S, Alasmari F, Alanazi MM, Alharbi M. Dynamics of Choline-Containing Phospholipids in Traumatic Brain Injury and Associated Comorbidities. *International Journal of Molecular Sciences*. 2021 Jan;22(21):11313.
- Shahid N, Erum A, Zaman M, Tulain UR, Shoaib Q, Majeed A, Rasool MF, Imran I, Alshehri S, Noorani B, **Alqahtani F**. pH-Responsive Nanocomposite Based Hydrogels for the Controlled Delivery of Ticagrelor; In Vitro and In Vivo Approaches. *International Journal of Nanomedicine*. 2021;16:6345.
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- Aldwihi LA, Khan SI, Alamri FF, AlRuthia Y, **Alqahtani F**, Fantoukh OI, Assiri A, Almohammed OA. Patients' Behavior Regarding Dietary or Herbal Supplements before and during COVID-19 in Saudi Arabia. *International Journal of Environmental Research and Public Health*. 2021 Jan;18(10):5086.
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- Imran I, Javaid S, Waheed A, Rasool MF, Majeed A, Samad N, Saeed H, **Alqahtani F**, Ahmed MM, Alaql FA. Grewia asiatica berry juice diminishes anxiety, depression, and scopolamine-induced learning and memory impairment in behavioral experimental animal models. *Frontiers in nutrition*. 2021:327.
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- **Alqahtani F**, Assiri MA, Mohany M, Imran I, Javaid S, Rasool MF, Shakeel W, Sivandzade F, Alanazi AZ, Al-Rejaie SS, Alshammari MA. Coadministration of ketamine and perampanel improves behavioral function and reduces inflammation in acute traumatic brain injury mouse model. *BioMed Research International*. 2020 Dec 10;2020.
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- Noorani B, Chowdhury EA, **Alqahtani F**, Ahn Y, Patel D, Al-Ahmad A, Mehvar R, Bickel U. LC-MS/MS-based in vitro and in vivo investigation of blood-brain barrier integrity by simultaneous quantitation of mannitol and sucrose. *Fluids and Barriers of the CNS*. 2020 Dec;17(1):1-5.
- Nadeem A, Ahmad SF, Al-Harbi NO, Ibrahim KE, **Alqahtani F**, Sobeai HM, Alotaibi MR. Inhibition of interleukin-2-inducible T-cell kinase causes reduction in imiquimod-induced psoriasiform inflammation through reduction of Th17 cells and enhancement of Treg cells in mice. *Biochimie*. 2020 Dec 1;179:146-56.
- Sivandzade F, **Alqahtani F**, Sifat A, Cucullo L. The cerebrovascular and neurological impact of chronic smoking on post-traumatic brain injury outcome and recovery: an in vivo study. *Journal of Neuroinflammation*. 2020 Dec;17(1):1-8.
- Rahman HM, Saghir KA, Haider MS, Javaid U, Rasool MF, **Alqahtani F**, Imran I. Pharmacological Modulation of Smooth Muscles and Platelet Aggregation by Psidium cattleianum. *Evidence-Based Complementary and Alternative Medicine*. 2020 Oct 8;2020.
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- **Alqahtani F**, Imran I, Pervaiz H, Ashraf W, Perveen N, Rasool MF, Alasmari AF, Alharbi M, Samad N, Alqarni SA, Al-Rejaie SS. Non-pharmacological interventions for intractable epilepsy. *Saudi Pharmaceutical Journal*. 2020 Aug 1;28(8):951-62.
- Rasool MF, Khalid R, Imran I, Majeed A, Saeed H, Alasmari F, Alanazi MM, **Alqahtani F**. Investigating the role of altered systemic albumin concentration on the disposition of theophylline in adult and pediatric

patients with asthma by using the physiologically based pharmacokinetic approach. *Drug Metabolism and Disposition*. 2020 Jul 1;48(7):570-9.

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- Mohany M, Alanazi AZ, **Alqahtani F**, Belali OM, Ahmed MM, Al-Rejaie SS. LCZ696 mitigates diabetic-induced nephropathy through inhibiting oxidative stress, NF- κ B mediated inflammation and glomerulosclerosis in rats. *PeerJ*. 2020 Jun 19;8:e9196.
- Al-Harbi NO, Nadeem A, Ahmad SF, Bakheet SA, El-Sherbeeney AM, Ibrahim KE, Alzahrani KS, Al-Harbi MM, Mahmood HM, **Alqahtani F**, Attia SM. Therapeutic treatment with Ibrutinib attenuates imiquimod-induced psoriasis-like inflammation in mice through downregulation of oxidative and inflammatory mediators in neutrophils and dendritic cells. *European Journal of Pharmacology*. 2020 Jun 15;877:173088.
- Ahmad SF, Ansari MA, Nadeem A, Bakheet SA, **Alqahtani F**, Alhoshani AR, Alasmari F, Alsaleh NB, Attia SM. 5-aminoisoquinolinone attenuates social behavior deficits and immune abnormalities in the BTBR T+ Itpr3tf/J mouse model for autism. *Pharmacology Biochemistry and Behavior*. 2020 Feb 1;189:172859.
- **Alqahtani F**, Mohany M, Alasmari AF, Alanazi AZ, Belali OM, Ahmed MM, Al-Rejaie SS. Angiotensin II receptor Neprilysin inhibitor (LCZ696) compared to Valsartan attenuates Hepatotoxicity in STZ-induced hyperglycemic rats. *International Journal of Medical Sciences*. 2020;17(18):3098.
- Sivandzade F, **Alqahtani F**, Cucullo L. Traumatic brain injury and blood–brain barrier (BBB): underlying pathophysiological mechanisms and the influence of cigarette smoking as a premorbid condition. *International journal of molecular sciences*. 2020 Jan;21(8):2721.
- Rasool MF, Khalid S, Majeed A, Saeed H, Imran I, Mohany M, Al-Rejaie SS, **Alqahtani F**. Development and evaluation of physiologically based pharmacokinetic drug–disease models for predicting rifampicin exposure in tuberculosis and cirrhosis populations. *Pharmaceutics*. 2019 Nov;11(11):578.
- Al-Harbi NO, Nadeem A, Ahmad SF, AlThagfan SS, Alqinyah M, **Alqahtani F**, Ibrahim KE, Al-Harbi MM. Sulforaphane treatment reverses corticosteroid resistance in a mixed granulocytic mouse model of asthma by upregulation of antioxidants and attenuation of Th17 immune responses in the airways. *European Journal of Pharmacology*. 2019 Jul 15;855:276-84.
- Elwan HA, Dawood DH, El-Shafei AE, Mohamed S, Abd El-Rahman AE, Abdel-Latif SA, Mohany M, **Alqahtani F**, Alqahtani S, Al-Rejaie SS. The potential role of citrus limon powder as a natural feed supplement to boost the productive performance, antioxidant status, and blood biochemistry of growing rabbits. *Animals*. 2019 Jul;9(7):426.
- Nadeem A, Ahmad SF, Al-Harbi NO, Attia SM, Bakheet SA, Ibrahim KE, **Alqahtani F**, Alqinyah M. Nrf2 activator, sulforaphane ameliorates autism-like symptoms through suppression of Th17 related signaling and rectification of oxidant-antioxidant imbalance in periphery and brain of BTBR T+ tf/J mice. *Behavioural Brain Research*. 2019 May 17;364:213-24.
- **Alqahtani F**, Chowdhury EA, Bhattacharya R, Noorani B, Mehvar R, Bickel U. Brain uptake of [13C] and [14C] sucrose quantified by microdialysis and whole tissue analysis in mice. *Drug Metabolism and Disposition*. 2018 Nov 1;46(11):1514-8.
- Chowdhury EA, **Alqahtani F**, Bhattacharya R, Mehvar R, Bickel U. Simultaneous UPLC–MS/MS analysis of two stable isotope labeled versions of sucrose in mouse plasma and brain samples as markers of blood-brain barrier permeability and brain vascular space. *Journal of Chromatography B*. 2018 Jan 15;1073:19-26.

Conference

Year	Conference	Title
2021	The 32nd Saudi International Dental Conference, (SIDC)	Faleh Alqahtani. " <i>Pharmacodynamic and Pharmacokinetic of Local Anesthetic</i> ". The 32nd Saudi International Dental Conference, (SIDC) 1st – 3rd April 2021. (A keynote Speaker)
2021	The 60 th Society Toxicology (SOT) Virtual Annual meeting	Sivandzade F, Alqahtani F , Cucullo L. " <i>Evaluating the Therapeutic Effectiveness of Antidiabetic Drugs to Reduce Tobacco Smoke-Promoted Cerebrovascular Damage after Traumatic Brain Injury</i> ", Pharmaceutical Safety Assessment: Spotlight session, The 60th Society Toxicology (SOT) Virtual Annual meeting 12-26 Mar 2021. (Awarded Platform Presentation)
2021	Michigan Academy 2021 Conferences	Sivandzade F, Alqahtani F , Cucullo L. " <i>Chronic Smoking: Cerebrovascular and neurological impact on post traumatic brain injury outcome</i> " Michigan Academy 2021 Conferences Biochemistry & Molecular Biology Section, 12 Mar 2021
2020	PHARMSCI 360 of the American Association of Pharmaceutical Scientists (AAPS)	Sivandzade F, Alqahtani F , Cucullo L, " <i>Assessing the Cerebrovascular and Neurological Impact of Chronic Smoking on Post-Traumatic Brain Injury Outcome: An In Vitro Study</i> ", PHARMSCI 360 of the American Association of Pharmaceutical Scientists (AAPS). New Orleans, LA, 26/Oct- 5/Nov 2020.
2020	The 59 th Society Toxicology (SOT) Annual meeting	Sivandzade F, Alqahtani F , A Sifat, Cucullo L. " <i>Cerebrovascular and Neurological Impact of Chronic Smoking on Post-Traumatic Brain Injury Outcome and Recovery: an in Vivo Study</i> ", The 59th Society Toxicology (SOT) Annual meeting, Anaheim, CA, 15-19 Mar 2020.
2020	Student Research Week at TTUHSC, Lubbock, TX	Sivandzade F, Alqahtani F , A Sifat, Cucullo L. " <i>Assessing Cerebrovascular and Neurological Impact of Chronic Smoking on Post-Traumatic Brain Injury Outcome and Recovery</i> " Student Research Week at TTUHSC, Lubbock, TX 10-13 Mar 2020.
2019	American Association of Pharmaceutical Scientists (AAPS)	Behnam Noorani, Ekram Ahmed Chowdhury, Faleh Alqahtani , Dhavalkumar Patel, Reza Mehvar, Ulrich Bickel. " <i>Development of LC-MS/MS-based Method for the Simultaneous Use of Mannitol and Sucrose as Markers of Blood-brain Barrier Integrity</i> " American Association of Pharmaceutical Scientists, San Antonio, TX.; Nov 2019
2019	13th International Conference Cerebral Vascular Biology	Ekram Ahmed Chowdhury, Faleh Alqahtani , Behnam Noorani, Md Sanaullah Sajib, Constantinos M Mikelis, Reza Mehvar, Ulrich Bickel. " <i>Blood-brain Barrier Permeability of [13C] Sucrose in Young Adult and Aged mice</i> ". 13th International Conference, Cerebral Vascular Biology, Miami, FL; June 2019.
2018	American Association of Pharmaceutical Scientists (AAPS)	Faleh Alqahtani , Ekram Ahmed Chowdhury, Raktima Bhattacharya, Reza Mehvar, Ulrich Bickel. " <i>Passive Permeability of Blood-Brain Barrier to [13C] Sucrose Compared in Young Male and Female Mice</i> " American Association of Pharmaceutical Scientists, Washington, D.C.; Nov 2018
2018	American Association of Pharmaceutical Scientists (AAPS)	Ekram Ahmed Chowdhury, Behnam Noorani, Faleh Alqahtani , Nianxi Zhao, Irene La-Beck, Ulrich Bickel. " <i>Increased Blood-Brain Barrier Permeability Associated with Isoflurane Anesthesia may be Mediated by the Alteration of Lipid Membranes</i> ". American Association of Pharmaceutical Scientists, Washington, D.C.; Nov 2018
2017	American Association of Pharmaceutical Scientists	Faleh Alqahtani , Raktima Bhattacharya, Ekram Ahmed Chowdhury, Reza Mehvar, Ulrich Bickel. " <i>Differential Effects of Anesthetic Agents on</i>

	(AAPS)	<i>Blood Brain Barrier Integrity as Determined by the Hydrophilic Marker [13C]Sucrose". American Association of Pharmaceutical Scientists, San Diego, CA; November 2017.</i>
2017	Sixteenth Annual Research Days, TTUHSC School of Pharmacy	Faleh Alqahtani , Raktima Battacharya, Ekram Ahmed Chowdhury, Reza Mehvar, Ulrich Bickel. <i>"Refining the method of studying BBB permeability of [13C] sucrose and the evaluation of BBB integrity under different anesthetic agents". Sixteenth Annual Research Days, TTUHSC School of Pharmacy Amarillo, TX; June 2017. (Podium Presentation)</i>
2016	American Association of Pharmaceutical Scientists (AAPS)	Faleh Alqahtani , Ekram Ahmed Chowdhury, Raktima Bhattacharya, Reza Mehvar and Ulrich Bickel. <i>"Intracerebral Microdialysis Technique for comparing [14C] Sucrose and [13C] Sucrose in Mouse Brain."</i> American Association of Pharmaceutical Scientists, Denver, CO; November 2016.
2016	Fifteenth Annual Research Days, TTUHSC School of Pharmacy	Faleh Alqahtani , Ekram Ahmed Chowdhury, Reza Mehvar, Ulrich Bickel. <i>"Microdialysis Technique for Measuring [13C12] Sucrose and Metabolites in Brain Extracellular Fluid."</i> Fifteenth Annual Research Days, TTUHSC School of Pharmacy, Amarillo, TX; June 2016.
2015	Fourteenth Annual Research Days, School of Pharmacy	Faleh Alqahtani , Jee Hyun Park, Raktima Bhattacharya, Ulrich Bickel. <i>"Isolation of Human Tumor Xenografts from Mouse Brain"</i> . Fourteenth Annual Research Days, School of Pharmacy, TTUHSC, Amarillo, TX; June 2015.

Grant

The Main PI

- 2019** Researcher Supporting Project (**RSP-2019/131**) by Distinguish Scientist Fellowship Program for amount of (30,000 Saudi Riyal)
- 2020** Fast Track Program for COVID-19 fund, the grant number (**5-20-01-001-0058**) by King AbdulAziz city for Science & Technology (KACST) for amount of (339,200 Saudi Riyal)
- 2020** Researcher Supporting Project (**RSP-2020/131**) by Distinguish Scientist Fellowship Program for amount of (30,000 Saudi Riyal)
- 2020** Research Group Program (**RG-1441-340**) by Deanship of Scientific Research at King Saud University for amount of (150,000 Saudi Riyal)

The Co- PI

- 2018** Research Group Program (**RG-1440-085**) by Deanship of Scientific Research at King Saud University for amount of (150,000 Saudi Riyal)
- 2020** Fast Track Program for COVID-19 fund, the grant number (**5-20-01-016-0002**) by King AbdulAziz City for Science & Technology (KACST) for amount of (410,432 Saudi Riyal)