**Line**

**ADDRESS:** St, John’s University

College of Pharmacy and Health Sciences

Dept of Pharmaceutical Sciences

8000 Utopia Parkway

Jamaica, NY 11439

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Phone: (718) 990-6677

**POSITIONS**

2022-present **Assistant Professor (Tenure-track)**

Department of Pharmaceutical Sciences

College of Pharmacy and Health Sciences

St. John’s University

Teaching: Anatomy, Physiology, Pathology, Pharmacology, Toxicology

Research:Reproductive Pharmacology and Toxicology

Harnessing herbal medicine for Leydig cell protection

Transporters in metabolic diseases

Safety assessment of biopharmaceuticals

2019-2022 **Assistant Professor (Tenure-track)**

Department of Pharmaceutical Sciences

College of Pharmacy

Rosalind Franklin University of Medicine and Science

Teaching: Pharmacology sequence courses: Fundamentals of Pharmacology, I, II, and III

Research:Endocrine Pharmacology

Reproductive Toxicology

Membrane transporters and diseases

2014-2019 **Postdoctoral Researcher**

Department of Pharmaceutical Sciences

St. John’s University

Research:Safety assessment of biopharmaceutics and drug delivery systems

Paracellular and transcellular drug transport

Modeling of drug intestinal absorption

Membrane transporters and diseases

Endocrine Pharmacology

Reproductive Toxicology

2014-2019 **Adjunct Assistant Professor (Teaching)**

St. John’s University

Department of Biological Sciences & Department of Pharmaceutical Sciences

2010-2014 **Postdoctoral Fellow**

Department of Pathology & Laboratory Medicine

The University of Kansas Medical Center

Research: Pathology, Endocrinology, Reproductive Biology

Genetically engineered mouse models and rodent derived stem cells

**TEACHING EXPERIENCE: In-person & Remote**

**Rosalind Franklin University of Medicine and Science**

***Pharm.D. Courses:***

Pharmacology sequence courses (I, II, and III)

**St. John’s University**

***Undergraduate lecture courses:***

* Fundamentals of Biology II: Molecular and Cell Biology

(General classes: 80-100 students; Honors classes: 24-26 students)

***Undergraduate laboratory courses:***

* Fundamentals of Biology I: Plant and Animal, Evolutionary Biology
* Fundamentals of Biology III: Anatomy and Physiology
* Biochemistry

***Pharm.D. & Physician Assistant (PA) courses*** (as sole instructor or team instructor)**:**

* Pharmacology
* General Pathology
* Anatomy and Physiology
* Biopharmaceutical Chemistry
* Toxicology and Drugs of Abuse

**EDUCATION AND TRAINING**

2010-2014 **Postdoctoral Training**

Department of Pathology and Laboratory Medicine

Institute for Reproductive Health and Regenerative Medicine

University of Kansas Medical Center

Research**:** Pathology, Physiology, Endocrinology, and Reproductive Biology

Characterization of genetically engineered mouse models

2004-2009 **Pre-doctoral training** (Degree: **Ph.D. in Toxicology)**

Department of Pharmacology, Toxicology and Therapeutics

University of Kansas Medical Center, Kansas City, KS, USA

2003-2004 **Pre-doctoral training** (course work of Ph.D. program)

Department of Molecular Biosciences

University of Kansas, Lawrence, KS, USA

2000-2003 **Graduate education** (Degree: **M.S. in Biochemistry & Molecular Biology)**

Institute of Basic Medical Sciences

Peking Union Medial College/ Chinese Academy of Medical Sciences Graduate School

Beijing, China, P. R.

1996-2000 **Undergraduate education** (Degree: **B.S. in Biological Sciences**)

Department of Biological Sciences

Shandong University

Shandong, China, P. R.

**HONORS AND AWARDS**

2015 Travel Award to 2015 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, Orlando, Florida.

2013 Postdoctoral Fellow Travel Award to the 46th SSR Annual Meeting, Montréal, Québec, Canada. Sponsored by Kansas City Postdoctoral Society, Kansas City, Kansas.

2012-2013 National Institute of Environmental Health Sciences (NIEHS) postdoctoral fellowship (T32-ES007079).

2012 Lalor Foundation Merit Award sponsored by the Society for the Study of Reproduction (SSR) and presented at the 45th SSR Annual Meeting, State College, Pennsylvania.

2011 Best Poster Award, 8th Annual Gilbert S. Greenwald Symposium on Reproduction, Kansas City, Kansas.

2007 Graduate Student Travel Award to the American Association of Cancer Research (AACR) Annual Meeting, sponsored by University of Kansas Medical Center.

2006 Graduate Student Travel Award sponsored by Central States Society of Toxicology (CS-SOT).

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

2007- Society of Toxicology (SOT)

2019- American Association of Colleges of Pharmacy (AACP)

2019- Midwest Chapter of Society of Toxicology (MC-SOT)

2016-2019 Mid-Atlantic Chapter of Society of Toxicology (MA-SOT)

2015-2017 American Association of Pharmaceutical Scientists (AAPS)

2011-2014 The Society for the Study of Reproduction (SSR)

2008-2009 American Association of Cancer Research (AACR)

2006-2009 Central States Chapter of Society of Toxicology (CS-SOT)

**PROFESSIONAL LEADERSHIP**

2006-2007 Student representative, Central States Chapter of Society of Toxicology (CSSOT)

2005-2007 President, Chinese Students and Scholars Association,

University of Kansas Medical Center, Kansas City, KS, USA

**SERVICE/VOLUNTEERING/EDUCATIONAL OUTREACH**

**Assessment and Evaluation Committee,** Rosalind Franklin University of Medicine and Science

**Curriculum Committee,** Rosalind Franklin University of Medicine and Science

**Program Committee**, Mid-Atlantic Chapter of Society of Toxicology (MASOT)

**Faculty adviser**, *Medical Roots Project*, St. John’s University Student Chapter

**EDITORIAL REVIEWER SERVICE**

Ad hoc reviewer for

* **GENE** (ELS)
* **Journal of Pharmacy and Pharmacology**
* **Journal of Nutrition, Food and Lipid Science**
* **International Journal of Food Properties**
* **Mitochondrial DNA**
* **Oxidative Medicine and Cellular Longevity** (Hindawi | Impact factor 4.87)
* **Surgery Oncology** (Elsevier | Impact factor 3.00)
* **Chemosphere** (Elsevier | Impact factor 5.78)
* **Molecules** (MDPI | Impact factor 3.27)
* **Acta Pharmaceutica Sinica B** (Impact factor 7.09)
* **Materials** (MDPI | Impact factor 3.62)
* **Antioxidants** (MDPI | Impact factor 6.31)
* **International Journal of Environmental Research and Public Health** (MDPI | Impact factor 2.85)
* **Toxics** (MDPI | Impact factor 4.15)
* **Biomedicines** (MDPI | Impact factor 6.08)
* **Cells** (MDPI | Impact factor 6.60)
* **Food and Chemical Toxicology** (Elsevier | Impact factor 5.6)

**REVIEWER SERVICE FOR GRANT AGENCIES**

* + 2021, Panelist, National Science Foundation (NSF), SBIR/STTR Phase I Review Panel, ***Therapeutic Molecules,*** three sessions.
  + 2020, Panelist, National Science Foundation (NSF), SBIR/STTR Phase I Review Panel, ***Pharmaceutical Tech Drug Discovery, Delivery, and Manufacturing,*** two sessions.

**PEER-REVIEWED PUBLICATIONS**

1. Ganieva U, Schneiderman S, **Bu P**, Beaman K, Svetlana Dambaeva. *IL-22 regulates endometrial regeneration by enhancing tight junctions and orchestrating extracellular matrix*. ***Frontiers in Immunology*** (2022) PMID:
2. Zhang Y, Le Y, **Bu P**, Cheng X. *Regulation of Hox and ParaHox genes by perfluorochemicals in mouse liver*. ***Toxicology*** (2020) PMID: 32534105
3. Desai H, **Bu P**, Shah A, Cheng X, and Serajuddin ATM. *Evaluation of cytotoxicity of self-emulsifying formulations containing long-chain lipids using Caco-2 cell model: superior performance of long-chain lipids compared to medium-chain lipids*. ***Journal of Pharmaceutical Sciences*** (2020) PMID: 32035926
4. **Bu P**, Nagar S, Bhagwat M, Shah A, Zeng J, and Vancura A. *DNA damage response activates respiration and thereby enlarges dNTP pools to promote cell survival in budding yeast*. ***Journal of Biological Chemistry*** (2019) PMID: 31073026.
5. Vancura A, **Bu P**, Bhagwat M, Zeng J, and Vancurova I. *Metformin as an anticancer agent*. ***Trends in Pharmacological Sciences*** (2018) PMID: 30150001.
6. Vancura A, Nagar S, Kaur P, **Bu P**, Bhagwat M, Vancurova I. *Reciprocal Regulation of AMPK/SNF1 and Protein Acetylation*. ***International Journal of Molecular Sciences*** (2018) PMID:30366365.
7. Le Y, Chen L, Zhang Y, **Bu P**, Dai G, and Cheng X. *Epalrestat induced hepatic oxidative stress and liver fibrosis*. ***Toxicological Sciences*** (2018) PMID: 28204799.
8. **Bu P**, Yagi S, Shiota K, Alam S, Vivian J, Wolfe MW, Rumi M, Chakraborty D, Kubota K, Dhakal P and Soares MJ. *Origin of a rapidly evolving homeostatic control system programming testis function*. ***Journal of Endocrinology*** (2017)PMID: 28576872.

*Journal of Endocrinology* is the official journal of the Society for Endocrinology.

1. Zhang T, **Bu P**, Zeng J and Vancura A. *Heme induces metabolic switch from fermentation to respiration through activation of Hap1p and the HAP complex*. ***Journal of* *Biological Chemistry*** (2017) PMID: 28830930.
2. Zou Y, Uddin MM, Padmanabhan S, Zhu Y, **Bu P**, Vancura A, and Vancurova I. *The proto-oncogene Bcl3 induces immune checkpoint PD-L1 expression, mediating proliferation of ovarian cancer cells*. ***Journal of Biological Chemistry*** (2017) PMID: 28167529.
3. **Bu P**, Le Y, Zhang Y, Zhang Y, and Cheng X. *Inactivation of Stat5 signaling by Berberine induced mouse and human sodium-taurocholate cotransporting polypeptide (Ntcp/NTCP) expression*. ***Journal of* *Biological Chemistry*** (2017) PMID: 28154180.
4. Vispute SG, **Bu P**, Le Y, Chen L, and Cheng X. *Fibroblast growth factor (Fgf) 21 is a target gene of Glucocorticoid Receptor.* ***Toxicology*** (2017) PMID: 28088388.
5. Gatla HR, Zou Y, Uddin MM, Singha B, **Bu P**, Vancura A, and Vancurova I. *Histone deacetylase (HDAC) inhibition induces IκB Kinase (IKK)-dependent interleukin-8/CXCL8 expression in ovarian cancer cells*. ***Journal of* *Biological Chemistry*** (2017)PMID: 28167529.
6. **Bu P,** LeY, Zhang Y, and Cheng X.*Hormonal and chemical regulation of Glut9 transporter in mice*. ***Journal of Pharmacology and Experimental Therapeutics (JPET)***(2016)PMID: 27807007.

*Journal of Pharmacology and Experimental Therapeutics (JPET)* is the official journal of the AmericanSociety forPharmacology and Experimental Therapeutics(ASPET).

1. **Bu P**,Ji Y,Narayanan S, Dalrymple D, Cheng X, and Serajuddin ATM.*Assessment of cell viability and permeation enhancement in presence of lipid-based self-emulsifying drug delivery systems using Caco-2 cell model: Polysorbate 80 as the surfactant*.***European Journal of Pharmaceutical Sciences***(2016) PMID: 28024890.

*European Journal of Pharmaceutical Sciences* is the official journal of the EuropeanFederation forPharmaceutical Sciences(EUFEPS).

1. **Bu P**,Narayanan S, Dalrymple D, Cheng X, and Serajuddin ATM.*Cytotoxicity assessment of lipid-based self-emulsifying drug delivery system in Caco-2 cell model: Cremophor EL as the surfactant*. ***European Journal of Pharmaceutical Sciences***(2016)PMID:27328127.
2. **Bu P**, Alam SMK, Dhakal P, Vivian JL and Soares MJ. *A prolactin family paralog regulates placental adaptations to a physiological stressor*. ***Biology of Reproduction*** (2016) PMID: 26985002.

*Biology of Reproduction* is the official journal of the Society for the Study of Reproduction.

1. Xie M, **Bu P**, Li F, Lan S, Wu H, Yuan L, and Wang Y. *Neonatal Bisphenol A exposure induces meiotic arrest and apoptosis of spermatogenic cells*. ***Oncotarget*** (2016) PMID: 26863571.
2. Soares MJ, Chakraborty D, Renaud SJ, Kubota K, **Bu P**, and Rumi MAK. *Regulatory pathways controlling the endovascular invasive trophoblast cell lineage*. ***Journal of Reproduction and Development*** (2012) PMID: 22790871.
3. Konno T, Graham AR, Rempel LA, Ho-Chen JK, Alam SMK, **Bu P**, Rumi MAK, and Soares MJ. *Subfertility linked to combined luteal insufficiency and uterine progesterone resistance*. ***Endocrinology*** (2010) PMID: 20660062.
4. Yang H, Bushue N, **Bu P**, and Wan YJ. *Induction and intracellular localization of Nur77 dictate fenretinide-induced apoptosis of human liver cancer cells*. ***Biochemical Pharmacology*** (2010) PMID:19912993.
5. Dai G, He L, **Bu P**, and Wan YJ. *Pregnane X receptor is essential for normal progression of liver regeneration*. ***Hepatology*** (2008) PMID: 18167061.
6. **Bu P** and Wan YJ. *Fenretinide-induced apoptosis of Huh-7 hepatocellular carcinoma is retinoic acid receptor beta dependent*. ***BMC Cancer*** (2007) PMID: 18166136.
7. **Bu P**, Wang DM, Chen H, and Huang BR. *Ectopic expression of epidermal growth factor-adenovirus e4orf4 fusion protein in tumor cells and characterization of its cytotoxicity*. ***Cancer*** (2005) PMID: 15642197.
8. Enoksson M, Robertson JD, Gogvadze V, **Bu P**, Kropotov A, Zhivotovsky B, and Orrenius S. *Caspase-2 permeabilizes the outer mitochondrial membrane and disrupts the binding of cytochrome c to anionic phospholipids*. ***Journal of* *Biological Chemistry*** (2004) PMID:15475367.
9. **Bu P** and Chen H. *Possible mechanisms of apoptosis induced by a protein factor adenovirus protein E4orf4*. ***Microbiology Fascicule of Foreign Medical Science*** (2002).

**PRESENTATIONS AT REGIONAL AND NATIONAL MEETINGS**

2021 Patel H, Buolamwini JK, Dambaeva S, Beaman KD, and **Bu P**. *Herbicide atrazine disturbs steroidogenesis in Leydig cell in vitro models*. Poster presentation, the Society of the Study for Reproduction (SSR) 54th Annual Meeting 2021. Poster presentation.

2021 Schneiderman S, Katukurundage D, **Bu, P,** Riehl V, Fernandez E, Germain A, Kwak-Kim J, Beaman K, and Dambaeva S. *IL-22 plays an important role in endometrial regeneration*. American Society for Reproductive Immunology (ASRI) Annual Meeting 2021. Poster presentation.

2020 **Bu P**, Zheng C, and Allah TF. *Bisphenol A induced steroidogenic enzyme Hsd17b2 through activation of orphan nuclear receptor Err gamma V1*. Society of Toxicology (SOT) Annual Meeting 2020. Poster presentation.

1. Nagar S, Bhagwat M, Kaur P, **Bu P**, and Vancura A. *DNA Damage Response Activates Respiration to Elevate dNTP Levels and Promote Cell Survival in Budding Yeast.* Experimental Biology 2019 Meeting. Poster presentation.

2018 **Bu P,** Shah A, Zeng J, Bhagwat MS, Nagar S, and Vancura A. *Checkpoint kinase rad53p activation alters chromatin structure, induces respiration and elevates cellular ATP level.* 2018 Experimental Biology (EB) Annual Meeting, San Diego, California. Abstract selected for ***spotlight oral presentation***in addition to a poster presentation.

2016 **Bu P**,Ji Y,Narayanan S, Dalrymple D, Cheng X, and Serajuddin ATM. *Assessment of cell viability and permeation enhancement in presence of lipid-based self-emulsifying drug delivery systems using Caco-2 cell model: Polysorbate 80 as the surfactant.* 2016 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, Denver, Colorado. Poster presentation.

2015 **Bu P**, Narayanan S, Dalrymple D, Cheng X, and Serajuddin ATM. *Toxic or not: Effect of lipid, surfactant and lipid-surfactant mixture on viability of Caco-2 cells.* 2015 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, Orlando, Florida. Poster presentation.

2013 **Bu P**, Rumi MAK, and Soares MJ. *Prolactin-like protein-J biology in Leydig cells: intracellular targeting and evolutionary origins.* The 46th Annual Meeting of the Society for the Study of Reproduction, Montréal, Québec, Canada. Poster presentation.

2012 **Bu P**, Alam SMK, Yagi S, Shiota K, Vivian JL, Rumi MAK, and Soares MJ. *Origin of a Species-Specific Rheostat Controlling Testicular Growth and Steroidogenesis.* ***Selected platform presentation*** at the 45th Annual Meeting of the Society for the Study of Reproduction, State College, Pennsylvania.

2011 **Bu P**, Ohboshi S**,** Vivian JL, and Soares MJ. *Identification of a placental-hepatic axis regulating pregnancy-dependent adaptations to hypoxia.* The 8th Annual Gilbert S. Greenwald Symposium on Reproduction, Kansas City, Kansas. Poster presentation.

2010 **Bu P**, Alam SMK, Vivian JL, and Soares MJ. *Biology of prolactin-like protein N at the mouse placentation site.* Gordon Research Conference – Reproductive Tract Biology, Proctor Academy, Andover, New Hampshire. Poster presentation.

2008 **Bu P** and Wan YJ. *Nuclear receptors-mediated hepatic retinoids signaling.* ***Oral presentation*** at Annual Student Research Forum (SRF), University of Kansas Medical Center. Kansas City, Kansas.

2007 **Bu P** and Wan YJ.*Expression of the retinoic acid receptor β gene is essential for fenretinide-induced apoptosis in human hepatoma cells.* American Association of Cancer Research (AACR) Annual Meeting, Los Angeles, California. Poster presentation.

Graphical user interface, text, application

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