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Dr. Rami Al Batran

Correspondence language: English

Sex: Male

Date of Birth: 1/07

Canadian Residency Status: Permanent Resident

Permanent Residency Start Date: 2017/12/05

Country of Citizenship: Syrian Arab Republic

Contact Information

The primary information is denoted by (*)

Address

Home

609-10550 place de l'Acadie
Montreal Quebec H4N 0B3
Canada

Primary Affiliation (*)

Pavillon Jean-Coutu
2940, chemin de Polytechnique
Faculty of Pharmacy
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Dr. Rami Al Batran

Language Skills

Language	Read	Write	Speak	Understand
Arabic	Yes	Yes	Yes	Yes
English	Yes	Yes	Yes	Yes
French	Yes	Yes	No	Yes

User Profile

Disciplines Trained In: Pharmacology, Pharmacy

Research Disciplines: Molecular Biology, Physiology

Areas of Research: Cardiovascular Diseases, Diabetes, Energy Metabolism, Obesity

Fields of Application: Biomedical Aspects of Human Health, Pathogenesis and Treatment of Diseases

Research Specialization Keywords: Obesity, Insulin Resistance, Energy Metabolism, Ketone Body, Cardiovascular Diseases, Nutrition, Skeletal Muscle, Insulin Signalling, Transgenic Mice, High-Throughput Screening

Degrees

- 2010/10 - 2014/10 Doctorate, Doctor of Philosophy (PhD), Pharmacology, University Technology Mara (UiTM)
Degree Status: Completed
Supervisors: Fouad Albayaty
- 2005/2 - 2009/10 Bachelor's, B.Sc. of Pharmacy, Pharmacy, Arab International University (AIU)
Degree Status: Completed
Supervisors: Maher Alkoutayni

Recognitions

- 2019/9 - 2019/9 EASD Travel Award - 1,200 (Euro)
European Association for the Study of Diabetes
Prize / Award

2019/6 - 2019/6	ALPCO Diabetes Travel Grant - 500 (United States dollar) ALPCO Prize / Award
2019/3 - 2019/3	Keystone Symposia Scholarship - 1,200 (United States dollar) Keystone Symposia Prize / Award
2018/11	Best Oral Presentation - Fakhreddin Jamali Symposium - 500 (Canadian dollar) University of Alberta Distinction
2017/11	Best Overall Presentation Award - 500 (Canadian dollar) Alberta Diabetes Institute Prize / Award
2016/11	Wu Hong Memorial Poster Prize - 500 (Canadian dollar) Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta Distinction

Employment

2020/1	Assistant Professor Faculty of Pharmacy, Faculty of Pharmacy, Université de Montréal
2015/11 - 2019/12	Post-Doctoral Fellow Department of Pharmaceutical Sciences, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta
2015/1 - 2015/10	Post-Doctoral Fellow Department of Pharmacology, Faculty of Medicine, University of Malaya
2010/10 - 2014/12	PhD Candidate Department of Dentistry, Faculty of Medicine and Dentistry, University Technology MARA
2008/5 - 2008/8	Summer Student Department of Pharmacology, Faculty of Pharmacy, Universitat des Saarlandes

Affiliations

The primary affiliation is denoted by (*)

(*) 2020/1 Assistant Professor, Faculty of Pharmacy, Université de Montréal

Research Funding History

Awarded [n=5]

2020/7 - 2026/7	Pharmacotherapy of Ketone Body Metabolism in Obesity
Principal Investigator	Funding Sources:
	2020/6 - 2025/5
	Canada Foundation for Innovation (CFI)
	John R. Evans Leaders Fund
	Total Funding - 402,479 (Canadian dollar)
	Funding Competitive?: Yes
2020/4 - 2026/3	Medium Chain Triglycerides and Ketogenesis
Principal Investigator	

Funding Sources:

2020/4 - 2026/3 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant – Individual
Total Funding - 144,000 (Canadian dollar)
Funding Competitive?: Yes

2020/1 - 2022/12 Start-up Fund

Principal Investigator

Funding Sources:

2020/1 - 2022/12 Université de Montréal
Start-up Package
Total Funding - 150,000 (Canadian dollar)
Funding Competitive?: No

2021/6 - 2022/5

Principal Investigator

Unraveling the Mechanisms of Empagliflozin in NAFLD & NASH

Funding Sources:

2021/6 - 2022/5 Faculté de Pharmacie, Université de Montréal
Fonds de la Relève
Total Funding - 25,000 (Canadian dollar)
Funding Competitive?: Yes

2020/4 - 2021/3

Principal Applicant

Medium Chain Triglycerides and Ketogenesis

Funding Sources:

2020/4 - 2021/3 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Launch Supplement – Individual
Total Funding - 12,500 (Canadian dollar)
Funding Competitive?: Yes

Completed [n=2]

2017/7 - 2019/12

Principal Applicant

Post-Doctoral Fellowship

Funding Sources:

2017/7 - 2020/7 Canadian Institutes of Health Research (CIHR)
Post-Doctoral Fellowship
Total Funding - 135,000 (Canadian dollar)
Funding Competitive?: Yes

2016/7 - 2019/7

Principal Applicant

Post-Doctoral Fellowship

Funding Sources:

2016/7 - 2019/7 Canadian Diabetes Association
Post-Doctoral Fellowship - Personnel Awards
Total Funding - 120,000 (Canadian dollar)
Funding Competitive?: Yes

Student/Postdoctoral Supervision

Master's Thesis [n=2]

Principal Supervisor Zahra Roshenas (In Progress) , Université de Montréal
 Student Degree Start Date: 2021/6
 Student Degree Expected Date: 2023/7
 Present Position: In Progress

Principal Supervisor Stephanie Mourad (In Progress) , Université de Montréal
 Student Degree Start Date: 2021/3
 Student Degree Expected Date: 2023/4
 Present Position: In Progress

Post-doctorate [n=1]

Principal Supervisor Abdualrahman M. Abdualkader (In Progress) , Université de Montréal
 Student Degree Start Date: 2021/5
 Student Degree Expected Date: 2022/5
 Present Position: In Progress

Publications

Journal Articles

- Greenwell AA , Gopal K , Altamimi TR , Saed CT , Wang F , Tabatabaei Dakhili SA , Ho KL , Zhang L , Eaton F , Kruger J , Al Batran R , Lopaschuk GD , Oudit GY , Ussher JR. (2021). Barth syndrome-related cardiomyopathy is associated with a reduction in myocardial glucose oxidation. *American journal of physiology. Heart and circulatory physiology.* 320(6): H2255-H2269.
 Published
 Refereed?: Yes
- Gopal K, Al Batran R, Altamimi T, Greenwell AA, Saed CT, Tabatabaei-Dakhili SA, Dimaano M, Zhang Y, Eaton F, Sutendra G and Ussher JR. (2021). FoxO1 inhibition alleviates type 2 diabetes-related diastolic dysfunction by increasing myocardial pyruvate dehydrogenase activity. *Cell Reports.* 35: 108935.
 Refereed?: Yes
- Byrne NJ , Soni S , Takahara S , Ferdaoussi M , Al Batran R , Darwesh AM , Levasseur JL , Beker D , Vos DY , Schmidt MA , Alam AS , Maayah ZH , Schertzer JD , Seubert JM , Ussher JR , Dyck JRB. (2020). Chronically Elevating Circulating Ketones Can Reduce Cardiac Inflammation and Blunt the Development of Heart Failure. *Circulation. Heart failure.* 13(6): e006573.
 Co-Author
 Published
 Refereed?: Yes
- Eshreif A , Al Batran R , Jamieson KL , Darwesh AM , Gopal K , Greenwell AA , Zlobine I , Aburasayn H , Eaton F , Mulvihill EE , Campbell JE , Seubert JM , Ussher JR. (2020). I-Citrulline supplementation improves glucose and exercise tolerance in obese male mice. *Experimental physiology.* 105(2): 270-281.
 Co-Author
 Published
 Refereed?: Yes

5. Al Nebaihi HM , Al Batran R , Ussher JR , Maayah ZH , El-Kadi AOS , Brocks DR. (2020). Dietary-Induced Obesity, Hepatic Cytochrome P450, and Lidocaine Metabolism: Comparative Effects of High-Fat Diets in Mice and Rats and Reversibility of Effects With Normalization of Diet. *Journal of pharmaceutical sciences*. 109(2): 1199-1210.
Co-Author
Published
Refereed?: Yes
6. Al Batran R , Gopal K , Capozzi ME , Chahade JJ , Saleme B , Tabatabaei-Dakhili SA , Greenwell AA , Niu J , Almutairi M , Byrne NJ , Masson G , Kim R , Eaton F , Mulvihill EE , Garneau L , Masters AR , Desta Z , Velázquez-Martínez CA , Aguer C , Crawford PA , Sutendra G , Campbell JE , Dyck JRB , Ussher JR. (2020). Pimozide Alleviates Hyperglycemia in Diet-Induced Obesity by Inhibiting Skeletal Muscle Ketone Oxidation. *Cell metabolism*. 31(5): 909-919.e8.
First Listed Author
Published
Refereed?: Yes
7. Almutairi M , Gopal K , Greenwell AA , Young A , Gill R , Aburasayn H , Al Batran R , Chahade JJ , Gandhi M , Eaton F , Mailloux RJ , Ussher JR. (2020). The GLP-1 Receptor Agonist Liraglutide Increases Myocardial Glucose Oxidation Rates via Indirect Mechanisms and Mitigates Experimental Diabetic Cardiomyopathy. *The Canadian journal of cardiology*. 2020.02.098: 10.1016.
Co-Author
Published
Refereed?: Yes
8. Al Batran R , Gopal K , Aburasayn H , Eshreif A , Almutairi M , Greenwell AA , Campbell SA , Saleme B , Court EA , Eaton F , Light PE , Sutendra G , Ussher JR. (2019). The antianginal ranolazine mitigates obesity-induced nonalcoholic fatty liver disease and increases hepatic pyruvate dehydrogenase activity. *JCI insight*. 4(1): 2379-3708.
First Listed Author
Published
Refereed?: Yes
9. Maayah ZH , McGinn E , Al Batran R , Gopal K , Ussher JR , El-Kadi AOS. (2019). Role of Cytochrome p450 and Soluble Epoxide Hydrolase Enzymes and Their Associated Metabolites in the Pathogenesis of Diabetic Cardiomyopathy. *Journal of cardiovascular pharmacology*. 74(3): 235-245.
Co-Author
Published
Refereed?: Yes
10. Ho KL , Zhang L , Wagg C , Al Batran R , Gopal K , Levasseur J , Leone T , Dyck JRB , Ussher JR , Muoio DM , Kelly DP , Lopaschuk GD. (2019). Increased ketone body oxidation provides additional energy for the failing heart without improving cardiac efficiency. *Cardiovascular research*. 115(11): 1606-1616.
Co-Author
Published
Refereed?: Yes
11. Uddin GM , Zhang L , Shah S , Fukushima A , Wagg CS , Gopal K , Al Batran R , Pherwani S , Ho KL , Boisvenue J , Karwi QG , Altamimi T , Wishart DS , Dyck JRB , Ussher JR , Oudit GY , Lopaschuk GD. (2019). Impaired branched chain amino acid oxidation contributes to cardiac insulin resistance in heart failure. *Cardiovascular diabetology*. 18(1): 86.
Co-Author
Published
Refereed?: Yes

12. Almutairi M , Al Batran R , Ussher JR. (2019). Glucagon-like peptide-1 receptor action in the vasculature. *Peptides*. 111: 26-32.
Co-Author
Published
Refereed?: Yes
13. Al Batran R , Almutairi M , Ussher JR. (2018). Glucagon-like peptide-1 receptor mediated control of cardiac energy metabolism. *Peptides*. 100: 94-100.
First Listed Author
Published
Refereed?: Yes
14. Aburasayn H , Al Batran R , Gopal K , Almutairi M , Eshreif A , Eaton F , Ussher JR. (2018). Female offspring born to obese and insulin-resistant dams are not at increased risk for obesity and metabolic dysfunction during early development. *Canadian journal of physiology and pharmacology*. 96(1): 97-102.
Co-Author
Published
Refereed?: Yes
15. Altamimi TR , Thomas PD , Darwesh AM , Fillmore N , Mahmoud MU , Zhang L , Gupta A , Al Batran R , Seubert JM , Lopaschuk GD. (2018). Cytosolic carnitine acetyltransferase as a source of cytosolic acetyl-CoA: a possible mechanism for regulation of cardiac energy metabolism. *The Biochemical journal*. 475(5): 959-976.
Co-Author
Published
Refereed?: Yes
16. Al Batran R , Gopal K , Martin MD , Ho KL , Almutairi M , Aburasayn H , Eaton F , Campbell JE , Ussher JR. (2018). Skeletal muscle-specific Cre recombinase expression, controlled by the human α -skeletal actin promoter, improves glucose tolerance in mice fed a high-fat diet. *Diabetologia*. 61(8): 1849-1855.
First Listed Author
Published
Refereed?: Yes
17. Gopal K , Almutairi M , Al Batran R , Eaton F , Gandhi M , Ussher JR. (2018). Cardiac-Specific Deletion of Pyruvate Dehydrogenase Impairs Glucose Oxidation Rates and Induces Diastolic Dysfunction. *Frontiers in cardiovascular medicine*. 5: 17.
Co-Author
Published
Refereed?: Yes
18. Gopal K , Saleme B , Al Batran R , Aburasayn H , Eshreif A , Ho KL , Ma WK , Almutairi M , Eaton F , Gandhi M , Park EA , Sutendra G , Ussher JR. (2017). FoxO1 regulates myocardial glucose oxidation rates via transcriptional control of pyruvate dehydrogenase kinase 4 expression. *American journal of physiology. Heart and circulatory physiology*. 313(3): H479-H490.
Co-Author
Published
Refereed?: Yes
19. Al Batran R , Ussher JR. (2017). Revisiting protein acetylation and myocardial fatty acid oxidation. *American journal of physiology. Heart and circulatory physiology*. 313(3): H617-H619.
First Listed Author
Published
Refereed?: Yes

20. Al-Obaidi MM , Al-Bayaty FH , Al Batran R , Ibrahim OE , Daher AM. (2016). Ellagic Acid Increases Osteocalcin and Alkaline Phosphatase After Tooth Extraction in Nicotinic-Treated Rats. *Current pharmaceutical design*. 22(16): 2403-10.
Co-Author
Published
Refereed?: Yes
21. Aburasayn H , Al Batran R , Ussher JR. (2016). Targeting ceramide metabolism in obesity. *American journal of physiology. Endocrinology and metabolism*. 311(2): E423-35.
Co-Author
Published
Refereed?: Yes

Conference Publications

1. Rami Al Batran, Keshav Gopal, S. Amirhossein Tabatabaei-Dakhili, Jadin Chahade, Amanda A. Greenwell, Malak Almutairi, Nikole J. Byrne, Grant Masson, Farah Eaton, Carlos A. Velázquez-Martínez, Peter A. Crawford, Jason R.B. Dyck, and John R. Ussher. (2019). Skeletal muscle ketone body oxidation as a novel target for improving obesity–induced dysglycemia in mice. *European Association for the Study of Diabetes Abstract*
First Listed Author
Published, Invited?: No
2. Rami Al Batran, Keshav Gopal, Jadin Chahade, and John R. Ussher. (2019). Maladaptive Increases in Skeletal Muscle Ketone Body Oxidation Contribute to Dysglycemia in Mice Subjected to Experimental Obesity. *American Diabetes Association Abstract*
First Listed Author
Published, Invited?: Yes
3. Rami Al Batran, Keshav Gopal, S. Amirhossein Tabatabaei-Dakhili, Jadin Chahade, Amanda A. Greenwell, Malak Almutairi, Nikole J. Byrne, Grant Masson, Farah Eaton, Carlos A. Velázquez-Martínez, Peter A. Crawford, Jason R.B. Dyck, and John R. Ussher. (2019). Skeletal muscle ketone body oxidation as a novel target for improving obesity–induced dysglycemia in mice . *Keystone Symposia - Diabetes: Innovations, Outcomes and Personalized Therapies (X3) Abstract*
First Listed Author
Published, Invited?: No
4. Keshav Gopal, Rami Al Batran, B. Saleme, H. Aburasayn, A. Eshreif, K. L. Ho, W. K. Ma, M. Almutairi, F. Eaton, M. Gandhi, E. A. Park, G. Sutendra, and John R. Ussher. (2017). FoxO1 regulates myocardial glucose oxidation rates via transcriptional control of pyruvate dehydrogenase kinase 4 expression. *Society for Heart and Vascular Metabolism (SHVM) Abstract*
Co-Author
Published, Invited?: No
5. Rami Al Batran, Keshav Gopal, Hanin Abursayn, Amina Eshreif, Wayne Ma, Farah Eaton, and John R. Ussher. (2017). Ranolazine treatment improves glycemia and decreases body weight in obese and insulin resistant mice. *Keystone Symposia - Diabetes, Obesity and Adipose Tissue Biology Abstract*
First Listed Author
Published, Invited?: No

Intellectual Property

Patents

1. Pimozide alleviates obesity-induced dysglycemia. United States. 2018054 (US Prov) WO 4124. 2019/01/28.
Patent Status: Granted/Issued
Year Issued: 2019