

Curriculum vitae

Eric J. BELIN de CHANTEMELE, MSc, DSc, FAHA

Professor, Medicine (Cardiology)
 Vascular Biology Center, Medical College of Georgia
 Augusta University, 1460 Laney Walker Blvd, CB-3212B Augusta, GA, 30912
 Tel: +001 706 721 7805, E-mail: ebelindechanteme@augusta.edu

EDUCATION

2005	D.Sc.	Cardiovascular Physiology University Claude Bernard Lyon I, FRANCE Laboratoire de Physiologie de l'Environnement Advisor: Claude GHARIB, MD. Ph.D Thesis: "Effects of a resistive exercise on body fluids and venous properties during a 90-day bed rest study"
2002	M.Sc.	Integrative Physiology, University of Lyon, FRANCE University Claude Bernard Lyon I, FRANCE Laboratoire de Physiologie de l'Environnement
2000	B.S.	Cellular Biology and Physiology University Claude Bernard Lyon I, FRANCE

PROFESSIONAL EXPERIENCE

2021-Present	Professor (with Tenure), Medicine Vascular Biology Center, Medical College of Georgia Augusta University, Augusta, GA.
2017-Present	Associate Professor (with Tenure), Medicine Vascular Biology Center, Medical College of Georgia Augusta University, Augusta, GA.
2016-2017	Assistant Professor, Medicine Vascular Biology Center, Medical College of Georgia Augusta University, Augusta, GA.
2011-2016	Assistant Professor Physiology Department, Medical College of Georgia Augusta University, Augusta, GA.
2010-2011	Assistant Research Scientist Vascular Biology Center, Medical College of Georgia Georgia Regents University, Augusta, GA. (Advisor: David STEPP, Ph.D)

2006-2010	Postdoctoral Fellow Vascular Biology Center, Medical College of Georgia Georgia Regents University, Augusta, GA. (Advisor: David STEPP, Ph.D)
2004-2006	Postdoctoral Fellow Laboratory of Integrated Neurovascular Biology UMR-CNRS 6214 INSERM U771 Faculté de Médecine, Angers, FRANCE (Advisor: Daniel HENRION, Pharm.D, Ph.D)
2003-2004	Graduate Student (Internship) Department of Autonomic Neuroscience Research Institute of Environment Medicine Nagoya University, JAPAN (Advisor: Satoshi IWASE, MD., Ph.D)
2002-2004	Graduate Student Laboratoire de Physiologie de l'Environnement Université Claude Bernard Lyon I, Faculté de Médecine Lyon Grange Blanche (Advisor: Claude GHARIB, MD., Ph.D)

GRANT SUPPORT

ACTIVE

- 1. National Institute of Health, National Heart, Lung and Blood Institute, 1R01HL130301-01**
Start and end dates: 01/01/2016 – 12/31/2021 NCE
Project title: "Aldosterone Contribution to Leptin-mediated Hypertension in Obese Females"
Role: PI
- 2. National Institute of Health, National Heart, Lung and Blood Institute, 1R01HL147639-01A1**
Start and end dates: 01/01/2020 – 12/31/2023
Project title: "Leptin in HIV-associated Vascular Diseases"
Role: PI
- 3. National Institute of Health, National Heart, Lung and Blood Institute, 1R01HL155265-01**
Start and end dates: 12/01/2020 – 11/30/2024
Project title: "Mechanisms of cardiovascular disease in premenopausal women"
Role: PI
- 4. American Heart Association, Established Investigator Award, 19EIA34760167**
Start and end dates: 07/01/2019 – 06/30/2024
Project title: "Novel roles of perivascular adipose tissue in the control of endothelial and

metabolic function”

Role: PI

5. Augusta University Intramural Grant

Start and end dates: 07/01/2020 – 06/30/2022

Project title: "Contribution of the integrase inhibitor dolutegravir to obesity and cardiovascular disease in persons living with HIV and mouse models of HIV”

Role: PI

6. Augusta University Intramural Grant

Start and end dates: 06/01/2021 – 05/31/2022

Project title: " Sex differences in the activation of the leptin-aldosterone-MR axis: study in human samples”

Role: PI

COMPLETED

1. National Institute of Health, National Heart, Lung and Blood Institute, K99 HL140139-01A1

Start and end dates: 07/01/2018 – 06/30/2023

Project title: " Leptin, a therapeutic avenue for the treatment of vascular disease, focus on congenital and antiretroviral therapy-associated lipodystrophies”

Role: Sponsor (Fellow: Thiago Bruder do Nascimento)

2. National Institute of Health, National Heart, Lung and Blood Institute, K99 HL146948-01

Start and end dates: 07/01/2018 – 06/30/2023

Project title: "A novel role for endothelial mineralocorticoid receptors in obesity-associated cardiovascular disease in females”

Role: Sponsor (Fellow: Jessica L. Faulkner)

3. Augusta University Adrenal Center Pilot Grant

Start and end dates: 07/01/2019 – 06/31/2020

Project title: "Female Sex Hormones positively regulates adrenal CYP11B2 expression and predispose to aldosterone-mediated cardiovascular disease”

Role: PI

4. Augusta University Intramural Grant

Start and end dates: 07/01/2019 – 06/30/2020

Project title: "The Role of Aldosterone in High Fat Diet-induced Hypertension in Males and Females”

Role: PI (MPI: Sullivan, Bollag)

5. American Heart Association, National Innovative Research Grant, 16IRG27770047

Start and end dates: 01/01/2016 - 12/31/2017

Project title: " Leptin-induced, Adipocyte-derived Aldosterone Secretion: A New Risk Factor

for Metabolic and Cardiovascular Complication”

Role: PI

6. National Institute of Diabetes and Digestive and Kidney Diseases, Diabetic Complications Consortium, (DiaComp) Pilot & Feasibility Program, DK076169

Start and end dates: 10/01/2014 – 09/30/2015

Project title: “*PTP1B, a Potential New Therapeutic Target for Diabetic Vascular Complications*”

Role: PI

7. Georgia Regents University Research Inc., Translational Cardiovascular Research Pilot Funding

Start and end dates: 09/01/2014 – 08/31/2015

Project title: “Translating Cardiovascular Complications of Diabetes”

Role: co-PI

8. American Heart Association, Scientist Development Grant #11SDG5060006

Start and end dates: 01/01/2011 – 12/31/2014

Project title: “Mechanisms of leptin-induced hypertension”

Role: PI

9. American Heart Association, Health Sciences Fellowship

Start and end dates: 05/01/2013 – 06/30/2013

Role: Sponsor, (PI: Huy Le)

10. American Heart Association, Health Sciences Fellowship

Start and end dates: 05/01/2012 – 06/30/2012

Role: Sponsor, (PI: Joseph B. Norman)

11. American Heart Association, Post -Doctoral Fellowship

Start and end dates: 11/01/2004 – 10/31/2006

Role: PI

12. Centre National d’Etudes Spatiales (French Space Agency), Post -Doctoral Fellowship

Start and end dates: 11/01/2004 – 10/31/2006

Role: PI

13. Japan Society for the Promotion of Science, Invited Researcher Fellowship

Start and end dates: 11/01/2003 – 09/30/2004

Role: PI

EDITORIAL BOARD

2019 – Present	Hypertension
2016 – Present	Frontiers in Physiology
2016 – Present	Journal of Diabetes and its Complications
2015 – 2019	Pharmacological Research
2012 – 2016	Journal of Hypertension

SERVICES

- **Reviewer for:** Circulation, JAMA, Circulation Research, Hypertension, Cardiovascular Research, Journal of Hypertension, American Journal of Physiology, Diabetes Care, Clinical Sciences, Journal of the American Heart Association, Pharmacological Research, Scientific Reports, Journal of Pharmacology and Experimental Therapeutics (JPET), Journal of Pharmacy and Pharmacology, Methods and Findings in Experimental and Clinical Pharmacology, Journal of American College of Nutrition, Vascular Pharmacology.
- **Thesis Committee Member:**
 - **Augusta University Students:**
 - Inger Stallman 2011 - 2013
 - Cameron McCarthy 2010 - 2015
 - Islam Osman, 2013 - 2017
 - Rebekah Tritz, 2017 - Present
 - Caleb Padget 2019 – Present
 - Husam Eldin Bensreti 2020 – Present
 - Hunter Sellers 2020 – Present
 - Drew Speese 2020 – Present
 - Brandee Goo 2020 – Present
 - **Reader:** Jin Qian's Thesis (January 2012).
 - **University of Angers, France Students:**
 - Samuel Legeay (November 2016)
 - **University Claude Bernard Lyon 1, France, University Laval, Quebec:**
 - Sofien Laouafa (May 2018)
- **Director Vascular Biology Center Seminar Series (2018 – Present)**
- **Director Vascular Metabolic Group Meeting (2017 – Present)**

COMMITTEES

2021 – Present	Chair, Vascular Biology Center Faculty Search Committee
2021 – Present	MCG, Inflammaging initiative Faculty Search Committee
2021	Ad Hoc, NIH AVI Study Section
2021	Ad Hoc, NIH SEP/SRG 2021/05 ZRG1 EMNR-H (53) R
2019-Present	Vascular Biology Center Graduate Committee
2019-Present	Vascular Biology Center Postdoctoral Fellows Review Committee
2018-Present	Augusta University Institutional Animal Care and Use Committee
2019-2020	Augusta University Intramural Grant Program
2017-2021	American Physiological Society Awards Committee
2017-2020	Augusta University Promotion & Tenure Committee
2020	Ad Hoc, NIH K99/R00 Study Section
2019	Ad Hoc, NIH Hypertension and Microcirculation Study Section
2019	Vascular Biology Center Faculty Search Committee

2019	VBC pre-tenure committee
2018	External reviewer for the US Department of Defense
2018	External Reviewer for the Danish Science Foundation
2017	External reviewer University of Qatar
2013-2017	Physiology Department Faculty Search Committee
2013-2016	APS Cardiovascular Section Awards Committee
2013-2015	AHA Vascular Bio BP2 Study Section
2010-2013	Trainee Advocacy Committee, Cardiovascular Section, APS
2016-2018	Translation Research Program, Department of Medicine, Augusta University

SCIENTIFIC SOCIETIES

Regular member of: American Physiological Society,
American Heart Association.

ACADEMIC AWARD

- 2021** American Physiological Society Henry Pickering Bowditch Award
- 2019** American Heart Association Established Investigator Award
- 2016** Augusta University Research Institute Virenda B. Mahesh Distinguished Research Award
- 2016** Medical College of Georgia Faculty Senate Award for Young Outstanding Basic Science Faculty
- 2015** Dean Franklin Young Investigator Award, American Physiological Society
- 2012** New Investigator Award, Cardiovascular Section, American Physiology Society
- 2010** Young Investigator Travel, Global Obesity Summit, Jackson, Mississippi
- 2010** Medical College of Georgia Graduate Research Day Award for Best Oral Presentation
- 2009** Medical College of Georgia Graduate Research Day Award for Best Oral Presentation
- 2009** Young Investigator Award, Society for Experimental Biology and Medicine, Experimental Biology Meeting, New Orleans, Louisiana.
- 2008** Forest Pharmaceutical Young Investigator Travel award, Jackson Cardiovascular-Renal Meeting
- 2003** "SUCCESS 2002 Student contest", European Space Agency

INVITED LECTURES

National Conferences:

- 2021** Henry Pickering Bowditch Award Lecture, Experimental Biology Meeting, "Obesity-Associated Cardiovascular Disease: The exposed Secret of the Sexes". April 28th 2021.
- 2019** American Society of Nephrology Kidney Week, Speaker, "Sex Differences in Obesity-Related Hypertension". November 8th 2019.
- 2019** 9th Annual International Conference of Aldosterone and ENaC in Health and Disease: The Kidney and Beyond. Speaker, "The Leptin-Aldosterone-Mineralocorticoid Receptor axis: a major contributor to cardiovascular disease in obese females". October 3rd 2019.

- 2019** Experimental Biology Meeting, Keynote speaker, “Sex specific differences in obesity-induced hypertension Symposium”. April 7th, 2019.
- 2018** APS Conference: Cardiovascular, Renal and Metabolic Diseases—Sex Specific Implications for Physiology, Session 7: Sex and Gender Differences in Physiology and Function: The Vasculature. “Impact of sex on vascular function in cardiovascular and metabolic disorders”. October 3rd, 2018.
- 2018** AHA Hypertension Scientific Sessions, Session 7: Recent Advances in Hypertension: Hot Topic in Hypertension. “Sex Differences in Mechanisms of Hypertension Associated with Obesity”. September 9th, 2018.
- 2018** ENDO2018, Adipose-Adrenal Cross-Talk and Metabolic Regulation Symposium, “Control of Aldosterone by Leptin”. Chicago, March 19th, 2018
- 2017** Healthy Heart for Women Symposium, University of Kentucky. February 3rd 2017
- 2010** Experimental Biology Meeting, Speaker, Cardiovascular Consequences of the Metabolic Syndrome Symposium, Anaheim, CA.

International Presentations:

- 2018** Centre de Recherche Institut Universitaire de Cardiologie et de Pneumologie de Quebec Seminar Series. Universite de Laval, Quebec. “Obesity-Related Cardiovascular Disease: a Sex Specific Story”. May 14th, 2018.
- 2017** New Roles of Aldosterone and Mineralocorticoid Receptors in Cardiovascular Disease: Translational and Sex-Specific Effects Symposium - 38th World Congress of the International Union of Physiological Sciences (Rio de Janeiro, Brazil). “Leptin-mediated aldosterone secretion: a major contributor to cardiovascular disease in obese female mice”. August 3rd, 2017.
- 2017** Pharmacology Department, Medical School of Ribeirao Preto, University of Sao Paulo. “Leptin-Mediated Aldosterone Secretion: A major Contributor to Cardiovascular Disease in Obese Female Mice.” July 30th, 2017.
- 2016** Institut Federatif de le Recherche, Faculte de Medecine, Universite d’Angers, Angers France. “Obesity-Related Cardiovascular Disease: a Sex Specific Story”. November 18th 2016.

Seminar Invitations:

- 2021** Department of Cell and Molecular Biology, University of Mississippi Medical Center. “Sex Differences in the Mechanisms of Cardiovascular Diseases. February 22nd 2021.
- 2019** Cardiovascular Metabolic Disease Program Research Day, University of New Mexico. “Obesity-Related Cardiovascular Disease: The Undisclosed Truth of the Sexes”. October 25th 2019.
- 2019** Department of Medicine Grand Rounds, University of Missouri Columbia. “Progesterone Predisposes Females to Obesity-Associated Cardiovascular Disease”. May 20th, 2019.
- 2019** Clinical Pharmacology Grand Rounds, Vanderbilt University Medical Center. “Novel Roles of Leptin in the Control of Vascular Function, implications to lipodystrophy and HIV”. March 26th, 2019.
- 2018** Department of Pharmacology, Tulane University School of Medicine. “Novel Roles of Leptin in the Control of Vascular Function, implications to lipodystrophy”. December 7th, 2018.
- 2018** Hypertension and Vascular Research Division, Henry Ford Hospital, Detroit. “Sex differences in Blood Pressure Response to Obesity and High Salt”. November 1st 2018.
- 2018** Department of Physiology and Biophysics and the Mississippi Center for Obesity

- Research. University of Mississippi Medical Center. “Novel Roles of Leptin in the Control of Vascular Function” April 4th 2018.
- 2017** Center for Hypertension Research and the AHA SFRN on Hypertension, University of Iowa. “Sex-Differences In Obesity-Mediated Cardiovascular Disease”. May 5th 2017
- 2016** Heart and Cardiovascular Health Grand Rounds, Medical College of Georgia, Augusta University. “Sex-Specific Mechanisms in Obesity-related Cardiovascular Disease”. May 27th 2016.
- 2016** Department of Molecular Pharmacology & Physiology Seminar Series, University of South Florida, Morsani College of Medicine. “Leptin control of the cardiovascular system: A sex-specific story.” April 8th 2016.
- 2016** Pathology Department Seminar Series, Weill Cornell University, New York. “Leptin-mediated aldosterone secretion: a major contributor to cardiovascular disease in obese female mice”. March 3rd 2016.
- 2016** Physiology Department Seminar Series, AU, Augusta. “Sex-Specific Mechanisms in Obesity-related Cardiovascular Disease”. February 25th 2016.
- 2016** Cellular Biology and Anatomy Department Seminar Series, AU, Augusta. “Leptin-mediated aldosterone secretion: a major contributor to cardiovascular disease in obese female mice”. January 21st 2016.
- 2014** Physiology Department Seminar Series, GRU, Augusta. “Control of Vascular Function: From PTP1B and ER Stress to Leptin and Lipodystrophy” October 28th 2014.

CONTRIBUTION TO SCIENTIFIC MEETINGS

- 2018** Chair, Joint Hypertension Scientific Session, Chicago: “Aldosterone, Receptors and Other Hormones”
- 2018** **Chair/ Organizer**, Trainee Symposium, APS Cardiovascular Section, Experimental Biology meeting, San Diego.
- 2017** Chair, Hypertension Scientific Session, San Francisco CA: “Obesity and Diabetes I”
- 2017** **Chair/ Organizer**, Symposium, 38th World Congress of the International Union of Physiological Sciences (IUPS), Rio de Janeiro, Brazil “New roles of Aldosterone and Mineralocorticoid receptors in cardiovascular disease: Translational and Sex-specific effects”
- 2017** **Chair/ Organizer**, Featured Topic, APS Cardiovascular Section, Experimental Biology meeting, Chicago, IL: “Sex differences in obesity and cardiovascular disease”
- 2016** Co-Chair, Hypertension Scientific Session, Orlando FL: “Metabolic Syndrome”
- 2015** Co-Chair, Hypertension Scientific Session, Washington DC: “Obesity and Metabolic Syndrome”
- 2012** **Chair/ Organizer**, Featured Topic, APS Cardiovascular Section, Experimental Biology meeting, San Diego, CA: “Leptin: Metabolic, Cardiovascular and Immune Control. Does it All Come from the Brain?”

MENTORING

2021-Present	Vishaal MOTLA, Undergraduate Student
2021-Present	Priscilla AJALA, Undergraduate Student
2020-Present	Candee BARRIS, Graduate Student
2020-Present	Reem ATAWIA, Postdoctoral Fellow
2019-Present	Taylor KRESS, Graduate Student
2020-Present	Vinay METHA, Undergraduate Student
2018-2021	Derrian WRIGHT, Undergraduate Student
2016-2021	Jessica FAULKNER, Postdoctoral Fellow
2019-2020	Austin NEWMAN, Undergraduate Student
2019, 2020	Emily LLUCH, 1 st -2 nd year Medical Student
2019	Matthew PEARSON, 1 st year Medical Student
2018	Lenee SHRESHA, Undergraduate Student, STAR Program
2018	Nathaniel TAYLOR, 1 st year Medical Student
2014-2019	Thiago BRUDER do NASCIMENTO, Postdoctoral Fellow
2015-2018	Mina MOMTAHAN, Undergraduate Student, Honor Program
2017	Lily BENDER, Undergraduate Student, STAR Program
2016-2017	Daisy HARWOOD, French Pharm.D exchange student
2016	Samuel LEGEAY, French Pharm.D/ Ph.D exchange student
2016	Jennie COX, Undergraduate Student
2012-2015	Anne-Cécile HUBY, Postdoctoral Fellow
2015	Maegan NEWELL, Pre-matriculate, Medical Student, Summer rotation
2015	P. Thomas MENK, Undergraduate Student, STAR Program
2015	Pierre FAUTRAT, French Pharm.D/ Master student
2015	Ashmita DALWADI, Undergraduate Student
2014	Obioma EKELEDO, Pre-matriculate, Medical Student, Summer rotation
2013	Jacob GROENENDICK, Undergraduate Student, STAR Program
2013	Huy LE, 1 st year Medical Student, Summer rotation
2012, 2013	Benjamin BUTLER, 2 nd year Medical Student, Summer rotation, Research Elective
2011, 2012	J. Blake NORMAN, 1 st , 2 nd year Medical Student, Summer rotation.
2009, 2010	David HERREN, 1 st , 2 nd year Medical Student, Summer rotation
2006	Sébastien CHANOINE, Pharmacy Student, Summer rotation.
2005	Frédéric HONORÉ, Master Student, Internship
2005	Christophe SAINT-ANDRÉ, Medical Student, Summer rotation
2003	Claire MULET-MARQUIS, Medical Student, Summer rotation

TRAINEES FELLOWSHIPS

2021-2024	American Heart Association Career Development Award to Jessica FAULKNER
2021-2023	American Heart Association Post-doctoral fellowship to Reem ATAWIA
2021-2023	American Heart Association Pre-doctoral fellowship to Taylor KRESS
2020-2021	American Physiological Society Postdoctoral fellowship to Reem ATAWIA
2019-2024	NHLBI K99/R00 to Jessica FAULKNER.
2018-2023	NHLBI K99/R00 to Thiago BRUDER DO NASCIMENTO.

- 2018-2021** American Heart Association Career Development Award to Thiago BRUDER DO NASCIMENTO (declined)
- 2017-2020** Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship (F32) awarded to Jessica FAULKNER
- 2017-2019** American Heart Association Postdoctoral Fellowship awarded to Jessica FAULKNER (declined)
- 2017-2019** American Heart Association Postdoctoral Fellowship awarded to Thiago BRUDER DO NASCIMENTO

TRAINEES ACADEMIC AWARDS

- 2021** APS-Cardiovascular Section “Outstanding Trainee Award” awarded to Taylor KRESS
- 2021** Juan Carlos Romero and Water & Electrolyte Homeostasis Section Postdoctoral Research Recognition Award awarded to Jessica FAULKNER
- 2021** APS Cardiovascular Section Research Recognition Award to Candee BARRIS
- 2021** Ji Cheng Memorial & Phi Kappa Phi Award for Excellence in Research by a Biomedical Sciences student in the early years of training to Candee BARRIS
- 2021** Augusta University Award for Excellence in Research by a Postdoctoral Fellow, 1st place (oral) to Reem ATAWIA
- 2021** Augusta University, The Graduate School Award for Excellence in Research by a Graduate Student to Taylor KRESS
- 2021** Augusta University, The Graduate School, “Best In Session Award” by a Graduate Student to Candee BARRIS
- 2021** Augusta University, The Graduate School, “Best In Session Award” by a Graduate Student to Taylor KRESS
- 2020** APS “Dean Franklin Award” awarded to Jessica FAULKNER
- 2020** Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award to Matthew PEARSON (1st year Medical Student)
- 2020** AHA Hypertension 2020 Scientific sessions HTN New Investigator Travel Award awarded to Taylor KRESS
- 2020** AHA Hypertension 2020 Scientific sessions Top Trainee Advocacy Award awarded to Jessica FAULKNER
- 2019** Augusta University Vascular Biology Center Journal Club Excellence Award awarded to Jessica FAULKNER
- 2019** APS “Aldosterone and ENaC in Health and Disease: the Kidney and Beyond” conference travel award awarded to Jessica FAULKNER
- 2019** AHA Council on Hypertension “Stephanie Watts Career Development Award” awarded to Thiago BRUDER DO NASCIMENTO
- 2019** APS-Cardiovascular Section “*Clinical Science* Young Investigator Award” awarded to Jessica FAULKNER
- 2019** APS-Cardiovascular Section “Excellence in Research Award” awarded to Thiago BRUDER DO NASCIMENTO
- 2018** Augusta University Vascular Biology Center Journal Club Excellence Award awarded to Jessica FAULKNER
- 2018** American Physiological Society: Cardiovascular, Renal and Metabolic Diseases: Sex-specific Implications for Physiology Conference Award awarded to Jessica FAULKNER

- 2018 AHA, 2018 Joint Hypertension Scientific Session, Onsite Trainee Poster Award to Thiago BRUDER DO NASCIMENTO
- 2018 APS-Cardiovascular Section “Outstanding Trainee Award” awarded to Jessica FAULKNER
- 2018 APS-Cardiovascular Section “*Clinical Science* Young Investigator Award” awarded to Thiago BRUDER DO NASCIMENTO
- 2017 AHA Hypertension Scientific Session “Membership - Top Poster Award” awarded to Jessica FAULKNER
- 2017 APS-Cardiovascular Section “Outstanding Trainee Award” awarded to Thiago BRUDER DO NASCIMENTO
- 2017 Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award to Jessica FAULKNER (Postdoctoral Fellow)
- 2017 Augusta University Graduate Research Day Award for Best Oral Presentation to Jessica FAULKNER (Postdoctoral Fellow)
- 2016 APS Excellence in Professional Student (MD) Research Travel Awards to attend Experimental Biology (EB) 2016 to Maegan NEWELL (Medical Student)
- 2015 American Physiological Society Central Nervous System Research Recognition Award to Thiago BRUDER DO NASCIMENTO
- 2014 Georgia Regents University Graduate Research Day Award for Best Oral Presentation to Anne-Cécile HUBY
- 2014 APS Excellence in Professional Student (MD) Research Travel Awards to attend Experimental Biology (EB) 2014 to Huy LE (Medical Student)
- 2014 Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award to Anne-Cécile HUBY (Postdoctoral Fellow)
- 2013 Annual High Blood Pressure Research Conference Award for New Investigators to Anne-Cécile HUBY (Postdoctoral Fellow)

TEACHING EXPERIENCE

2020-Present

- Methods in Cardiovascular Research (1 hour)

2017-Present

- Frontiers in Vascular Biology (1 hour)
- Scientific Grant Writing Class BIOM 8130 (**Course Director**)
 - Outline and organize potential experiments - Writing the Specific Aims page - 1 hour
 - Establishing overall application organization - 1 hour
 - How Your Grant is Reviewed - 1 hour
 - Critique Students’ Specific Aims Page – 4 hour

2012-Present

- Scientific Communications class BIOM 8012
 - CV Biosketch and Teaching Portfolio Preparation - 1 hour
 - CV Critique and Discussion - 1 hour
- Integrated System Biology (BIOM 8033)
 - Blood - 2 hours

- Autonomic Control of the Cardiovascular Function – 2 hours
 - Pre-matriculation Physiology Course, MCG, Augusta, GA.
 - Local and Humoral Control of Tissue Blood Flow - 1 hour
 - Nervous and Renal Control of Circulation and Arterial Pressure -1 hour
- 2006** Master « Sciences and Techniques for Health Organization », Université d'Angers, FRANCE
- 2003-2004** Instructor, Faculté de Médecine Lyon Grange Blanche, FRANCE

PUBLICATIONS, ORAL COMMUNICATIONS & POSTERS

PEER REVIEWED PUBLICATIONS

1. MA. Custaud, **E. Belin de Chantemèle**, I.M. Larina, I.A. Nichiporuk, A. Grigoriev, M. Duvareille, C. Gharib, G. Gauquelin-Koch. Hormonal changes during long term isolation. (2004) *Eur J Appl Physiol* 91(5-6):508-15.
2. **E. Belin de Chantemèle**, L. Pascaud, M.A. Custaud, A. Capri, F. Louisy, C. Gharib, P. Arbeille. Calf vein cross section and calf volume changes during Stand test after a 90 day HDT with and without exercise counter-measure (Fly-Wheel). (2004). *J. Physiol (London)*, 561.2: 611-622.
3. **E. Belin de Chantemèle**, S. Blanc, N Pellet, M Duvareille, G. Gauquelin-Koch, C. Gharib and MA Custaud. Does Resistance exercise prevent body fluid changes after a 90-d bed rest? (2004). *Eur J Appl Physiol*. 92: 555-564.
4. **E. Belin de Chantemèle**, S. Iwase, H. Takada, M. Hashiguchi, Y. Watanabe. Effect of the ceramic-vapored blanket coverage on thermoregulatory function in the elderly. (2004). *Auton Nerv Syst (Tokyo)* 41(2), 195-199.
5. MA. Custaud, **E. Belin de Chantemèle**, S. Blanc, G. Gauquelin-Koch, Gharib C. Régulation de la volémie au cours d'une simulation d'impesanteur de longue durée. (2005) *Can J Physiol Pharmacol*. 83(12):1147-115.
6. **E. Belin de Chantemèle**, G. Gauquelin-Koch, M. Duvareille, N. Pellet, C. Gharib, M.A. Custaud. Blood volume measurement by pulse dye densitometry, repeatability and Comparison. (2006). *Life Sci* 28;78(14):1564-9.
7. *C Bouvet, ***E Belin de Chantemèle**, A.L. Guihot, E. Vessières, A. Bocquet, O. Dumont, A. Jardel, L. Loufrani, Pierre Moreau, Daniel Henrion. Flow-induced remodeling in resistance arteries from obese Zucker rats is associated with increased endothelial dysfunction. (2007). *Hypertension*. 50(1):248-54. * **These two authors contributed equally to this work**
8. D. Stepp & **E. Belin de Chantemèle**. Structural remodeling in the limb circulation: the impact of obesity and diabetes. (2007). *Microcirculation*. 14(4):311-6.
9. D. Holopherne, M.Y Mallem, E. Le Strat, **EJ. Belin de Chantemèle**, M. Gogny, D. Henrion, J. Noireaud, J.C. Desfontis. CGP12177-induced haemodynamic and vascular effects in normotensive and hypertensive rats. (2008). *Eur J Pharmacol*. 4;591(1-3):196-202.
10. **EJ. Belin de Chantemèle**, K. Retailleau, F. Pinaud, E. Vessières, A Bocquet, A.L. Guihot, B. Lemaire, V. Domenga, C. Baufreton, L. Loufrani, A. Joutel, D. Henrion. *Notch3* is a major regulator of vascular tone in the tail caudal artery. (2008). *Arterioscler Thromb Vasc Biol*. 2008 Dec;28(12):2216-24.
11. Q. Zhang, P. Malik, D. Pandey, S. Gupta, D. Jagnandan, **E. Belin de Chantemèle**, B. Banfi, MB. Marrero, RD. Rudic, DW. Stepp, DJ. Fulton. Paradoxical activation of endothelial nitric oxide synthase by NADPH oxidase. (2008). *Arterioscler Thromb Vasc Biol*. 28(9):1627-33.

12. **EJ. Belin de Chantemèle**, E. Vessières, A.L. Guihot, B. Toutain, M. Maquignau, L. Loufrani, D. Henrion. Type 2 diabetes severely impairs structural and functional adaptation of rat resistance arteries to chronic changes in blood flow. (2009). *Cardiovasc Res.* 1;81(4):788-96.
13. M. Sato, D. Kanikowska, S. Iwase, N. Nishimura, Y. Shimizu, **E. Belin de Chantemele**, T. Matsumoto, Y. Inukai, Y. Taniguchi, A. Ogata, J. Sugeno. Effects of immersion in water containing high concentrations of CO₂ (CO₂-water) at thermoneutral on thermoregulation and heart rate variability in humans. (2009). *Int J Biometeorol.* 53(1):25-30.
14. **EJ. Belin de Chantemèle**, O. Dumont, E. Vessières, A.L. Guihot, L. Loufrani, D. Henrion. Dual role of reactive oxygen species in flow (shear stress)-induced remodeling in rat resistance arteries. (2009). *Microcirculation.* 16(5):391-402.
15. **EJ. Belin de Chantemèle**, K. Muta, J. Mintz, ML. Tremblay, MB. Marrero, DJ. Fulton, DW Stepp. PTP1B - a new link between leptin and blood pressure regulation. (2009). *Circulation.* 120(9):753-6.
 - *Editor's Pic 2011. Most Read Article in Molecular Cardiology.*
 - *Editorial by Allyn L. Mark. Circulation.* 120(9):719-721.
16. **EJ. Belin de Chantemèle**, M.I. Ali, D.W. Stepp. Obesity induced-insulin resistance leads to an endothelial dysfunction but does not affect the vascular response to ischemia in mice hindlimb. (2009). *Basic Research in Cardiology.* 104(6):707-17.
17. M.I. Ali, P. Ketsawatsomkron, **EJ. Belin de Chantemèle**, J. Mintz, K. Muta, C. Doyle, D. Fulton, M.B. Marrero and D.W. Stepp. Deletion of protein tyrosine phosphatase 1B improves peripheral but not hepatic insulin resistance in obese leptin resistant mice. (2009). *Circ Research.* 105(10):1013-22.
18. **EJ. Belin de Chantemèle**, E. Vessières, AL Guihot, B. Toutain, L. Loufrani, D. Henrion. Cyclooxygenase-2 preserves flow-mediated remodeling in old obese Zucker rat mesenteric arteries. (2010). *Cardiovasc Res.* 104(6):707-17.
19. K. Retailleau, **EJ. Belin de Chantemèle**, S. Chanoine, AL. Guihot, E. Vessières, B. Toutain, S. Faure, Z. Bagi, L. Loufrani, D. Henrion. Cyclooxygenase-2 derivatives and reactive oxygen species reduce angiotensin II type 2 receptor-dependent dilation in type 2 diabetic rat resistance arteries (2010). *Hypertension.* 55(2):339-44.
20. E. Vessieres, **EJ Belin de Chantemèle**, B. Toutain, AL Guihot, A. Jardel, L. Loufrani, D. Henrion. Cyclooxygenase-2 inhibition restored endothelium-mediated relaxation in old obese Zucker rat mesenteric arteries (2010). *Front Physiol.* 2;1:145.
21. **EJ. Belin de Chantemèle**, J. Mintz, DW. Stepp. Impact of leptin-mediated sympathoactivation on cardiovascular function in obese mice (2011). *Hypertension.* 58(2):271-9.
22. **EJ. Belin de Chantemèle**, JD. Mintz, WE. Rainey, ML. Tremblay, DJ. Fulton, DW. Stepp. Increasing insulin sensitivity by PTP1B deletion improves control of blood pressure in obesity. (2012) *Hypertension* 60:1273-1279.
 - *Paper recommended by Faculty of 1000*
23. E. Vessières, **EJ. Belin de Chantemèle**, AL. Guihot, A. Jardel, B. Toutain, L. Loufrani, D. Henrion. Cyclooxygenase-2-derived prostanoids reduce inward arterial remodeling induced by blood flow reduction in old obese Zucker rat mesenteric arteries. (2013) *Vascul Pharmacol* 58(5-6):356-62.
24. DW. Stepp, CC. Osakwe, **EJ. Belin de Chantemèle**, JD. Mintz: Vascular effects of deletion of melanocortin-4 receptors in rats. (2013) *Physiological Rep.* 2013; 1(6): e00146.
25. J. Cassuto, H. Dou, I. Czikora, A. Szabo, VS. Patel, V. Kamath, **EJ. Belin de Chantemele**, A. Feher, MJ. Romero, Z. Bagi. Peroxynitrite Disrupts Endothelial Caveolae Leading to eNOS Uncoupling and Diminished Flow-Mediated Dilatation in Coronary Arterioles of Diabetic Patients. (2014), *Diabetes.* 63(4):1381-93

26. DJ. Herren, JB. Norman, R. Anderson, ML. Tremblay, AC. Huby and **EJ. Belin de Chantemèle**. Deletion of Protein Tyrosine Phosphatase 1B (PTP1B) Enhances Endothelial Cyclooxygenase 2 Expression and Protects Mice from Type 1 Diabetes-Induced Endothelial Dysfunction. (2015), *PLOS ONE*. 10(5):e0126866.
27. AC. Huby and **EJ. Belin De Chantemèle**. Reviving the use of aldosterone inhibitors in treating hypertension in obesity. (2015) *Am J. Physiol.* 309(9):R1065-7.
28. M. Hamrick, A. Dukes, P. Arounleut, C. Davis, S. Periyasamy-Thandavan, S. Mork, S. Herberg, M.H. Johnson, C.M. Isales, W.D. Hill, L. Otvos, Jr, **EJ. Belin de Chantemèle**: The adipokine leptin mediates muscle- and liver-derived IGF-1 in aged mice. (2015) *Experimental Gerontology*. 26;70:92-96.
29. AC. Huby, G. Antonova, J. Groenendyk, CE. Gomez-Sanchez, WB. Bollag, JA. Filosa, **EJ. Belin de Chantemèle**. The Adipocyte-Derived Hormone Leptin is a Direct Regulator of Aldosterone Secretion, Which Promotes Endothelial Dysfunction and Cardiac Fibrosis. (2015) *Circulation*. 132(22):2134-45.
 - *Paper recommended by Faculty of 1000*
30. Bruder-Nascimento T, Butler BR, Herren DJ, Brands MW, Bence KK, **Belin de Chantemèle EJ**. Deletion of protein tyrosine phosphatase 1b in proopiomelanocortin neurons reduces neurogenic control of blood pressure and protects mice from leptin- and sympatho-mediated hypertension. (2015) *Pharmacol Res.* 102:235-44.
31. Huby AC, Otvos L, **Belin de Chantemèle EJ**. Leptin Induces Hypertension and Endothelial Dysfunction via Aldosterone-Dependent Mechanisms in Obese Female Mice. (2016). *Hypertension*. 67(5):1020-8
32. Bruder-Nascimento T, Bence KK, and **Belin de Chantemèle EJ**. POMC Ptp1b Deletion increases energy expenditure and impairs endothelial function via TNF- α dependent mechanisms. (2016) *Clin Sci.* 130(11):881-93.
33. Bruder-Nascimento T, Ekeledo OJ, Anderson R, Le HB, **Belin de Chantemèle EJ**. Long Term High Fat Diet Treatment: An Appropriate Approach to Study the Sex-Specificity of the Autonomic and Cardiovascular Responses to Obesity in Mice. (2017) *Front. Phys.* 26;8:32.
34. Thompson JA, Larion S, Mintz JD, **Belin de Chantemele EJ**, Fulton DJ, Stepp DW. Genetic Deletion of NADPH Oxidase 1 Rescues Microvascular Function in Mice with Metabolic Disease. (2017) *Circ Res.* 121(5):502-511.
35. Lin HP, Singla B, Ghoshal P, Faulkner JL, Cherian-Shaw M, O'Connor PM, She JX, **Belin de Chantemele EJ**, Csányi G. Identification of novel macropinocytosis inhibitors using a rational screen of Food and Drug Administration-approved drugs. (2018) *Br J Pharmacol.* 175(18) :3640-3655.
36. Horimatsu T, Patel AS, Prasad R, Reid LE, Benson TW, Zarzour A, Ogbi M, Bruder do Nascimento T, **Belin de Chantemele E**, Stansfield BK, Lu XY, Kim HW, Weintraub NL. Remote Effects of Transplanted Perivascular Adipose Tissue on Endothelial Function and Atherosclerosis. (2018) *Cardiovasc Drugs Ther.* 32(5):503-510.
37. Faulkner JL, Harwood D, Bender L, Shrestha L, Brands MW, Morwitzer MJ, Kennard S, Antonova G, **Belin de Chantemèle EJ**. Lack of suppression of aldosterone production leads to salt sensitive hypertension in female but not male Balb/C mice. (2018) *Hypertension*. 72:1397-1406.
38. Bruder-Nascimento T, Callera, GC, Montezano, AC. **Belin de Chantemèle EJ**, Tostes RC, Touyz, RM. Atorvastatin inhibits pro-inflammatory actions of aldosterone in vascular smooth muscle cells by reducing oxidative stress. (2019) *Life Sciences*. 15;221:29-34.
39. Faulkner JL, Kennard S, Huby AC, Antonova G, Lu Q, Jaffe IZ, Patel VS, Fulton DJR, **Belin de Chantemèle EJ**. Progesterone predisposes females to obesity-associated leptin-mediated

- endothelial dysfunction via upregulating endothelial mineralocorticoid receptor expression. (2019) *Hypertension*. 74(3):678-686.
40. Bruder-Nascimento T, Kennard S, Faulkner JL, Antonova G, Haigh S, Patel VS, Fulton DJR, Chen W, **Belin de Chantemèle EJ**. Leptin replacement therapy restores endothelial function, vascular adrenergic contractility and heart rate in a mouse model of congenital generalized lipodystrophy (CGL). (2019) *Hypertension*, 74(6):1399-1408. PMID: 31656096 PMCID: PMC6886673
 41. Legeay S, Fautrat P, Norman JB, Antonova G, Kennard S, Bruder-Nascimento T, Patel VS, Faure S, **Belin de Chantemèle EJ**. Selective deficiency in endothelial PTP1B protects from diabetes and endoplasmic reticulum stress-associated endothelial dysfunction *via* preventing endothelial cell apoptosis. *Biomed Pharmacother*. 2020 Jul;127:110200. PMID: 32417688
 42. Tritz R, Benson T, Harris V, Hudson FZ, Mintz J, Zhang H, Kennard S, Chen W, Stepp DW Csanyi G, **Belin de Chantemèle EJ**, Weintraub N, Stansfield BK. Nf1 Heterozygous Mice Recapitulate the Anthropometric and Metabolic Features of Human Neurofibromatosis Type 1. *Transl Res*. 2020 Aug 8:S1931-5244(20)30197-3 PMID: 32781282
 43. Bruder-Nascimento T, Kress TC, Kennard S, **Belin de Chantemèle EJ**. The HIV protease inhibitor Ritonavir impairs endothelial function via reduction in adipose mass and endothelial leptin receptor-dependent increases in Nox1, CCR5 and inflammation. *J Am Heart Assoc*. 2020 Oct 20;9(19):e018074 PMID: 33003981
 44. Faulkner JL, Lluch E, Kennard S, Antonova G, Jaffe IZ, **Belin de Chantemèle EJ**. Selective deletion of endothelial mineralocorticoid receptor protects from vascular dysfunction in sodium restricted female mice. *Biol Sex Differ*. 2020 Nov 23;11(1):64. PMID: 33228767
 45. Faulkner JL, Harwood, D, Lluch E, Kennard S, Antonova G, Clere N, **Belin de Chantemèle EJ**. Dietary sodium restriction sex-specifically impairs endothelial function via mineralocorticoid receptor-dependent reduction in NO bioavailability in Balb/C mice. *Am J Physiol Heart Circ Physiol*. 2021 Jan 1;320(1):H211-H220. PMID: 33095056
 46. Yang Q, Xu J, Ma Q, Liu Z, Zhou Y, Cai Y, Da Q, Hong M, Weintraub NL, Fulton DJ, Stepp D, **Belin de Chantemèle EJ**, Huo Y. Endothelial AMPK α 1/PRKAA1 facilitates excess nutrient-induced inflammation and contributes to HFD-induced metabolic syndrome in mice. (2020) *Metabolism Submitted*
 47. Larion S, Mintz JD, Thompson JA, Butcher JT, **Belin de Chantemèle EJ**, Haigh S, Khurana S, Fulton DJ, and Stepp DW. Increased muscle mass prevents hepatic steatosis in obese mice via NADPH oxidase 1. (2020) *Antioxydants and Redox Signaling*, *In Revision*

BOOK CHAPTERS AND REVIEWS

1. Ketsawatsomkron, P., Stepp, D. W., & **Belin de Chantemele, E.** (2013). PTP1B in Obesity-Related Cardiovascular Function. In K. K. Bence (Ed.), *Protein Tyrosine Phosphatase Control of Metabolism* (pp. 129-146). New York, NY: Springer.
2. **EJ. Belin de Chantemèle**, DW. Stepp Influence of obesity and metabolic dysfunction on the endothelial control in the coronary circulation (2011). *J Mol Cell Cardiol*. 52(4):840-7
3. **Belin de Chantemele, EJ**. Sex Differences in Leptin Control of Cardiovascular Function in Health and Metabolic Diseases. In F. Mauvais-Jarvis (Ed.), *Sex and Gender Factors Affecting Metabolic Homeostasis, Diabetes and Obesity*. (2017) *Adv Exp Med Biol*. 1043:87-111.
4. Faulkner JL, **Belin de Chantemèle EJ**. Sex Differences in Mechanisms of Hypertension Associated with Obesity. (2018) *Hypertension*. 71(1):15-21.
5. Davel AP, Jaffe IZ, Tostes RC, Jaisser F, **Belin de Chantemèle EJ**. New Roles of Aldosterone and Mineralocorticoid Receptors in Cardiovascular Disease: Translational and Sex-Specific Effects. (2018) *Am J Physiol Heart Circ Physiol*. 315(4):H989-H999.

6. Faulkner JL, Bruder-Nascimento T, **Belin de Chantemèle EJ**. The regulation of aldosterone secretion by Leptin – Implications in obesity related cardiovascular disease. (2018) *Curr Opin Nephrol Hypertens*. 27(2): 63-69.
7. Faulkner JL, **Belin de Chantemèle EJ**. Leptin and Aldosterone. (2019) *Vitam Horm*. 109:265-284.
8. Faulkner JL, **Belin de Chantemèle EJ**. Sex hormones, aging and cardiometabolic syndrome. (2019) *Biol Sex Differ*. 10(1):30.
9. Kim HW, **Belin de Chantemèle EJ**, Weintraub, NL. Perivascular adipocytes in vascular disease. (2019) *Arterioscler Thromb Vasc Biol*. 39(11):2220-2227.
10. Faulkner JL, **Belin de Chantemèle EJ**. Mineralocorticoid Receptor and endothelial dysfunction in hypertension. (2019) *Current Hypertension Reports*. 21(10):78.
11. Bruder-Nascimento T, Kress TC, **Belin de Chantemèle EJ**. Recent advances in understanding lipodystrophy: a focus on lipodystrophy-associated cardiovascular disease and potential effects of leptin therapy on cardiovascular function. (2019) *F1000. F1000 Faculty Rev-1756*.
12. Faulkner JL, **Belin de Chantemèle EJ**. Female sex, a major risk factor for salt sensitive hypertension. *Curr Hypertens Rep*. 2020 Oct 21;22(12):99. PMID: 33089375
13. Ushio-Fukai M, Ash D, Nagarkoti S, **Belin Chantemele EJ**, Fulton DJR, Fukai T. Interaction between ROS/RNS and Metabolism in Vascular Biology and Disease. (2021) *Antioxidants and Redox Signaling. Antioxid Redox Signal*. 2021 Jun 1;34(16):1319-1354. PMID: 33899493

COMMUNICATIONS & POSTERS

2003

- **E. Belin de Chantemèle**, N. Pellet, AM. Allevard, M. Duvareille, C. Gharib, G. Gauquelin-Koch, MA. Custaud. Effets d'un exercice musculaire en résistance sur la volémie et sa régulation au cours d'une simulation d'impesanteur de longue durée. Colloque de « Biologie de l'Exercice Musculaire », Mai 2003, Sousse, TUNISIE. *Poster*

2004

- **E. Belin de Chantemèle**, H. Takada, M.A. Custaud, C. Gharib, T. Mano, S. Iwase. Simultaneous recording of MSNA and SSNA during heat / cold tilt-tests. EURO-BAVAR, June 2004, Angers, FRANCE. *Oral communication*
- **E. Belin de Chantemèle**, M.A. Custaud, G. Gauquelin-Koch, C. Gharib. Blood volume determination: Repetability of the pulse dye densitometry measurements (DDG). Application to space physiology. 25th Annual International Gravitational Physiology Meeting, June 2004, Moscow, RUSSIA. *Poster*

2005

- **E. Belin de Chantemèle**, A. Pavy-Le Traon, G. Gauquelin-Koch, G. Ferretti, C. Gharib, MA. Custaud. Autonomic response to stand-tests after a 90-day bed rest study with or without resistive exercise countermeasure. Human in Space Symposium, May 2005, Graz, AUSTRIA. *Oral Communication*
- MA. Custaud, **E. Belin de Chantemèle**, C. Gharib, JL. Saumet, T. Mano, S. Iwase. Body fluids changes induced by 20-day head down bed rest with and without exercise + centrifugation. Human in Space Symposium, May 2005, Graz, AUSTRIA. *Oral communication*
- **E. Belin de Chantemèle**, I. Larina, D Henrion, JL. Saumet, C. Gharib, MA. Custaud. Arterial reactivity to hormones after 14 days hindlimb suspension in rats. Annual International Gravitational Physiology Meeting, June 2005, Cologne, GERMANY. *Oral communication*

2006

- **E. Belin de Chantemèle**, F. Pinaud, A. Bocquet, V. Domenga, L. Loufrani, A. Joutel, D. Henrion. Rôle du récepteur Notch3 dans le contrôle de la mécanotransduction vasculaire. *Arch Mal. Cœur et Vaisseaux*, 99, 379. GRRC, Toulouse. *Poster*
- **E. Belin de Chantemèle**, A. Bocquet, I. Larina, D. Henrion, C. Gharib, MA. Custaud. Carotid reactivity after 14 days hindlimb suspension. *Arch Mal. Cœur et Vaisseaux*, 99, 379. GRRC, Toulouse. *Poster*

2007

- **E. Belin de Chantemèle**, F. Pinaud, A. Bocquet, V. Domenga, L. Loufrani, A. Joutel, D. Henrion. Involvement of Notch3 receptor in the control of vascular mechano-transduction. (Abstract) Experimental Biology meeting, Washington, 2007. *Poster, The FASEB Journal*. 2007;21:740.13.
- **E. Belin de Chantemèle**, E. Vessières, S. Chanoine, O. Dumont, L. Loufrani, D. Henrion. Resistance arteries remodeling induced in vivo by a chronic increase in blood flow is severely altered in type 2 diabetes. Experimental Biology meeting, Washington DC. *Poster, The FASEB Journal*. 2007;21:897.12.
- **E. Belin de Chantemèle**, Vessieres E, Guihot AL, Chanoine S, Dumont O, Loufrani L, Henrion D Reactive oxygen species have a central role in flow (shear stress)-induced remodelling in rat mesenteric resistance arteries. European Council of Cardiovascular Research, La Colle Sur Loup, FRANCE. *Oral communication, Hypertension*, 2007; 50(4): 801.

2008

- **E. Belin de Chantemèle**, P. Ketsawatsomkron, M. Marrero, D. Stepp. Protein Tyrosine Phosphatase 1B is a negative regulator of alpha-adrenergic vasoconstriction in mouse aorta. *Poster, Experimental Biology meeting, San Diego, CA, USA. The FASEB Journal*. 2008;22:744.8
- **E. Belin de Chantemèle**, J Mintz, M. Marrero, D. Stepp. Increase insulin sensitivity by PTP1B deletion abolished obesity-induced hypertension in Mice, *Poster, 62nd High Blood Pressure Research Conference, Atlanta, GA, USA. Hypertension; 52:e105.*
- **E. Belin de Chantemèle**, A.L. Guihot, E. Vessieres, B. Toutain, L. Loufrani, D. Henrion. Cox-2 Inhibition restored endothelial function of old obese Zucker rats. *Poster, 62nd High Blood Pressure Research Conference, Atlanta, GA, USA. Hypertension; 52:e94.*
- **E. Belin de Chantemèle**, E. Vessieres, A.L. Guihot, B. Toutain, L. Loufrani, D. Henrion. A chronic increase in local blood flow improves endothelium dependent tone in type II diabetic rat resistance arteries only if associated with antioxidant treatment. *Poster, 62nd High Blood Pressure Research Conference, Atlanta, GA, USA. Hypertension; 52:e95.*
- **E. Belin de Chantemèle**, M. Marrero, K. Muta, B. Lilly, E. Inscho, D. Fulton, D. Stepp. Protein Tyrosine Phosphatase 1B (PTP1B) is a major regulatory pathway for leptin-mediated control of cardiovascular function. *Oral Presentation, Jackson cardiovascular-renal meeting 2008, Jackson, MS, USA.*
- **E. Belin de Chantemèle**, M.I. Ali, J. Mintz, D. Stepp. Obesity induced-insulin resistance causes endothelial dysfunction without reducing the vascular response to hindlimb ischemia. *Poster, Jackson cardiovascular-renal meeting 2008, Jackson, MS, USA.*
- **E. Belin de Chantemèle**, E. Vessieres, AL. Guihot, B. Toutain, L. loufrani, D. Henrion. Severe defect in structural and functional adaptation to chronic blood flow changes in vivo in type 2 diabetic rat resistance arteries. *European Council for Cardiovascular Research. La Colle Sur Loup, FRANCE. Abstract, Hypertension 2008; 52:755.*

2009

- **EJ. Belin de Chantemèle**, MB. Marrero, K. Muta, B. Lilly, EW. Inscho, D. Fulton, DW. Stepp. Protein tyrosine phosphatase 1B (PTP1B): a major regulator of leptin-mediated control of cardiovascular function. *Poster, Experimental Biology meeting, New Orleans LA. FASEB J. 2009 23:1017.4.*
- **EJ. Belin de Chantemèle**, MI. Ali, J. Mintz, DW. Stepp. Obesity induced-insulin resistance causes endothelial dysfunction without reducing the vascular response to hindlimb ischemia. *Poster, Experimental Biology meeting, New Orleans LA. FASEB J. 2009 23:592.3*
- **EJ. Belin de Chantemèle** and DW. Stepp. Selective Leptin Resistance after 28 weeks of High Fat Diet in Mice. *Poster, 63rd High Blood Pressure Research Conference, Chicago IL, USA. Hypertension; 54:e106.*

2010

- D. Herren, ML. Tremblay, MB Marrero, DW. Stepp, **EJ. Belin de Chantemèle**. Deletion of protein tyrosine phosphatase 1B (PTP1B) prevents type 1 diabetes-induced endothelial dysfunction. *Poster, Experimental Biology meeting, Anaheim CA. FASEB J. 24:1037.7.*
- **EJ. Belin de Chantemèle**, JD. Mintz, MB. Marrero, ML. Tremblay, DW. Stepp. Leptin-induced hypertension requires a Th2 responder background. *Oral Presentation. 2010 APS Conference: Inflammation, Immunity and Cardiovascular Disease.*
- **EJ. Belin de Chantemèle**, James D. Mintz, David W. Stepp. Impact of Leptin-Mediated Sympathoactivation on Cardiovascular Function in Obese Mice. *Poster, 64th High Blood Pressure Research Conference, Washington, DC. Hypertension: 56(5), e97, P200*
- **EJ. Belin de Chantemèle**, JD. Mintz, MB. Marrero, ML. Tremblay, David W. Stepp. Sex Differences in the Cardiovascular Response to Leptin and Protein Tyrosine Phosphatase 1B Deletion in Mice. *Poster, 64th High Blood Pressure Research Conference, Washington, DC. Hypertension: 56(5), e91, P175.*
- **EJ. Belin de Chantemèle**, JD. Mintz, MB. Marrero, ML. Tremblay, DW. Stepp. Leptin-induced hypertension requires a Th2 responder background. *Oral Presentation. 2010 Global Obesity Summit, Jackson, MS.*

2011

- **EJ. Belin de Chantemèle**, JD. Mintz, MB. Marrero, ML. Tremblay and DW. Stepp. Increasing insulin sensitivity by PTP1B deletion abolished obesity-induced hypertension in mice. *Oral Presentation. FASEB J March 17, 2011 25:822.1*
- **EJ. Belin de Chantemèle**, JD. Mintz, W, WE. Rainey, ML. Tremblay and DW. Stepp. Leptin-Mediated Increase In Blood Pressure Involves The Renin-Angiotensin System And The JAK2 Signaling Pathway. *Poster, 65th High Blood Pressure Research Conference, Orlando, FL. Hypertension: 58, e79, P175.*

2012

- **EJ. Belin de Chantemèle**. Increasing leptin sensitivity increases blood pressure in mice on a TH2 responsive background only. *Oral Communication, Experimental Biology Meeting 2012 (San Diego, CA) FASEB J March 29, 2012 26:1128.6*
- J. Blake Norman, D. Herren, ML. Tremblay, DW Stepp, **EJ. Belin de Chantemèle**. Deletion of protein tyrosine phosphatase 1B (PTP1B) prevents type 1 diabetes-induced vascular dysfunction. *Poster, Experimental Biology Meeting 2012 (San Diego, CA). FASEB J March 29, 2012 26:866.18*
- **EJ. Belin de Chantemèle**, KK. Bence, LK. Hill. Increasing Leptin Sensitivity in Proopiomelanocortin Neurons Does not Sensitize the Cardiovascular System to Leptin. *Oral Communication, 66th High Blood Pressure Research Conference, Washington, DC.*

Hypertension. 2012; 60:A23. Top 10% Abstracts selected for presentation at the 2012 AHA Scientific Sessions, Los Angeles.

2013

- JB. Norman, D. Herren, BR. Butler, ML. Tremblay, **EJ. Belin de Chantemèle**. Deletion of Protein Tyrosine Phosphatase 1B protects against Endoplasmic Reticulum Stress-induced Endothelial Dysfunction. *Poster, Experimental Biology Meeting 2013 (Boston). FASEB J. April 9, 2013 27 :929.5*
- BR. Butler, JB. Norman, ML. Tremblay, **EJ. Belin de Chantemèle**. Increasing leptin sensitivity via PTP1B deletion does not increase blood pressure through an increased sympathetic tone in mice on a Balb/C Background. *Poster, Experimental Biology Meeting 2013 (Boston). FASEB J. April 9, 2013 27: 1118.30*
- AC. Huby, ML. Tremblay, **EJ. Belin de Chantemèle**. Antagonistic effects of mineralocorticoid receptor (MR) blockade on the vascular reactivity of male and female leptin-sensitized mice. *Poster, Experimental Biology Meeting 2013 (Boston). FASEB J. April 9, 2013 27: 1131.16*
- AC. Huby, H. Zhu, ML. Tremblay, WE. Bollag, Y. Dong, **EJ. Belin de Chantemèle**. Leptin-mediated cardiovascular disease involves aldosterone in female mice and adolescent women. *Poster, 67th High Blood Pressure Research Conference, New-Orleans, LA. Hypertension. 2013; 62:A248. Top 10% Abstracts selected for presentation at the 2012 AHA Scientific Sessions, Dallas.*

2014

- AC. Huby, **EJ. Belin de Chantemèle**. Leptin-induced hypertension is independent of the sympathetic nervous system in obese female agouti mice. *Experimental Biology Meeting 2014 (San Diego). FASEB J April 2014 28:680.12*
- HB. Le, AC. Huby, R. Anderson and **EJ. Belin de Chantemèle**. Female mice are more sensitive to obesity-induced vascular dysfunction than males. *Experimental Biology Meeting 2014 (San Diego) FASEB J April 2014 28:680.14*
- **EJ. Belin de Chantemèle**, R. Anderson, JB. Norman, ML. Tremblay, A. Huby, Vijay S. Patel. PTP1B, a link between ER stress and Endothelial Dysfunction. 68th High Blood Pressure Research Conference. San Francisco, CA. *Hypertension. 2014; 64: A429*

2015

- JB. Norman, DJ. Herren, R. Anderson, AC. Huby and **EJ. Belin de Chantemèle**. PTP1B Deletion Enhances Endothelial Cyclooxygenase 2 Expression and Protects Mice from Type 1 Diabetes-Induced Endothelial Dysfunction. *Experimental Biology Meeting 2015 (Boston). FASEB J April 2015 29:802.2*
- T. Bruder-Nascimento, B. Buttler, KK. Bence, **EJ. Belin de Chantemèle**. Deletion of Protein Tyrosine Phosphatase 1b (Ptp1b) in Proopiomelanocortin (POMC) Neurons Reduces Sympathetic Tone and Protects Mice from Leptin-Induced High Blood Pressure. *Experimental Biology Meeting 2015 (Boston). FASEB J April 2015 29:984.18*
- T. Bruder-Nascimento, KK. Bence, **EJ. Belin de Chantemèle**. Increased Energy expenditure induced by Ptp1b deletion in proopiomelanocortin (POMC) neurons leads to inflammation and endothelial dysfunction. *Experimental Biology Meeting 2015 (Boston). FASEB J April 2015 29:626.3*
- AC. Huby, M. Cortez-Cooper, J. Cannon and **EJ. Belin de Chantemèle**. Leptin-induced Hypertension is Aldosterone Dependent in Obese Females. *Experimental Biology Meeting 2015 (Boston). FASEB J April 2015 29:811.18*

- **EJ. Belin de Chantemèle**, M. Cortez-Cooper, J. Cannon and AC. Huby. Leptin-Mediated Aldosterone Secretion Causes Hypertension in Obese Females. *Council on Hypertension 2015 Scientific Sessions, Washington DC. Hypertension. 2015; 66: A132*
- AC. Huby, M. Cortez-Cooper, J. Cannon and **EJ. Belin de Chantemèle**. Leptin-Mediated Aldosterone Secretion Causes Hypertension in Obese Females. *Cardiovascular, Renal and Metabolic Diseases: Physiology and Gender. Annapolis, MD. November 17-20, 2015.*

2016

- AC. Huby, G. Antonova, J. Groenendyk, CE. Gomez-Sanchez, WB. Bollag, JA. Filosa, **EJ. Belin de Chantemèle**. The Adipocyte-Derived Hormone Leptin Is a Direct Regulator of Aldosterone Secretion, Which Promotes Endothelial Dysfunction and Cardiac Fibrosis. *41st International Aldosterone Conference 2016, Boston, MA.*
- T Bruder-Nascimento, OJ. Ekeledo, R. Anderson, HB. Le, **EJ. Belin de Chantemèle**. Obesity-Associated Impairments in Autonomic Control of Blood Pressure and Heart Rate are Sex-Specific. *Experimental Biology Meeting 2016 (San Diego). FASEB J (30) Suppl. 1: 738.*
- M. Newell, M. Momtahan, S. Kennard, **EJ. Belin de Chantemèle**. Leptin-Mediated Increases in Sympathetic Tone Decreases Alpha(1D)-Adrenergic Receptor Expression in Arteries and Adrenals. *Experimental Biology Meeting 2016 (San Diego). FASEB J (30) Suppl. 1: 964.15.*
- **EJ. Belin de Chantemèle**, AC. Huby, PT. Menk, W. Chen, B. Lane, G. Antonova. Leptin: A Regulator of Aldosterone Synthase Expression & Aldosterone Secretion in Visceral Adipocytes, in Mice. *Council on Hypertension 2016 Scientific Sessions, Orlando FL. Hypertension. 2016; 68: A128*
- JL. Faulkner and **EJ. Belin de Chantemèle**. Leptin and High Salt Diet Induce Greater Increases in Blood Pressure in Female than Male Mice. *Council on Hypertension 2016 Scientific Sessions, Orlando FL. Hypertension. 2016; 68: A096*

2017

- T. Bruder-Nascimento, S. Kennard, W. Chen, **EJ. Belin de Chantemèle**. Leptin replacement therapy restores endothelial function in mouse models of congenital and acquired lipodystrophy by reducing NOX1 and NOX4-derived reactive oxygen species. *Experimental Biology Meeting 2017 (Chicago). FASEB J (31) Suppl. 1: 1013.2*
- JL. Faulkner, T. Bruder-Nascimento, IZ. Jaffe, **EJ. Belin de Chantemèle**. Suppression of Aldosterone Production via High Salt Diet and Deficiency in Endothelial Mineralocorticoid Receptors Prevents Leptin-Mediated Endothelial Dysfunction Exclusively in Female Mice. *Experimental Biology Meeting 2017 (Chicago). FASEB J (31) Suppl. 1: 691.1*
- T. Bruder-Nascimento, S. Kennard, JL. Faulkner, W. Chen, **EJ. Belin de Chantemèle**. Leptin replacement therapy restores endothelial function in mouse models of lipodystrophy by reducing endothelial oxidative stress. *38th World Congress of the International Union of Physiological Sciences (IUPS) Rhythms of Life. Rio de Janeiro, Brazil 2017.*
- T. Bruder-Nascimento, DW. Stepp, W. Chen, **EJ. Belin de Chantemèle**. Leptin treatment attenuates vascular dysfunction and inflammation in mouse models of acquired lipodystrophy via reducing Nox1-derived ROS. *Council on Hypertension 2017 Scientific Sessions, San Francisco CA. Hypertension. 2017; 70: A008*
- JL. Faulkner, S. Kennard, D. Harwood, G. Antonova, J. Morwitzer, **EJ. Belin de Chantemèle**. Mineralocorticoid Receptor Inhibition Abolishes Sex-Specific, Renin Angiotensin Aldosterone System-Associated Salt Sensitivity in Female Mice. *Council on Hypertension 2017 Scientific Sessions, San Francisco CA. Hypertension. 2017; 70: AP153*

2018

- JL. Faulkner, D. Harwood, L. Bender, J. Morwitzer, M. Brands, S. Kennard, G. Antonova, **EJ. Belin de Chantemèle**. Female Balb/C Mice Develop Salt-sensitive Hypertension and Endothelial Dysfunction in Association with Activation of the Renin-Angiotensin Aldosterone System. *Experimental Biology Meeting 2018 (San Diego)*. *FASEB J (32) Suppl. 1: 904.5*
- JL. Faulkner, S. Kennard, IZ. Jaffe, **EJ. Belin de Chantemèle**. Leptin-Induced Endothelial Dysfunction is Mediated by Endothelial Mineralocorticoid Receptor Epithelial Sodium Channel Activation in Female Mice. *Experimental Biology Meeting 2018 (San Diego)*. *FASEB J (32) Suppl. 1: 704.7*
- T. Bruder do Nascimento, JL. Faulkner, W. Chen, **EJ. Belin de Chantemèle**. Leptin Restores Endothelial Function, Reduces Vascular Inflammation But Not Vascular Remodeling In Mouse Models Of Congenital And Acquired Lipodystrophy Via Anti-Oxidant Properties. *Experimental Biology Meeting 2018 (San Diego)*. *FASEB J (32) Suppl. 1: 718.9*
- T. Bruder do Nascimento, JL. Faulkner, S. Kennard, W. Chen, **EJ. Belin de Chantemèle**. Leptin Supplementation Restores Endothelial Function and Vascular Adrenergic Tone via Direct Endothelial Mechanisms and Sympatho-activation Respectively, In a Mouse Model of Congenital Lipodystrophy. *Joint 2018 Hypertension Scientific Sessions, Chicago, IL*. *Hypertension. 72:AP140*
- JL. Faulkner, S. Kennard, G. Antonova, Z. Bagi, IZ. Jaffe, VS. Patel, **EJ. Belin de Chantemèle**. Progesterone Upregulates Endothelial Mineralocorticoid Receptor Expression which Predisposes Female Mice to Obesity-induced Endothelial Dysfunction. *Joint 2018 Hypertension Scientific Sessions, Chicago, IL*. *Hypertension. 2018;72:A096*
- JL. Faulkner, S. Kennard, G. Antonova, Z. Bagi, IZ. Jaffe, VS. Patel, **EJ. Belin de Chantemèle**. Progesterone Upregulates Endothelial Mineralocorticoid Receptor Expression which Predisposes Female Mice to Obesity-induced Endothelial Dysfunction. *APS 2018 Cardiovascular, Renal and Metabolic Diseases: Sex Implications for Physiology*. Knoxville, TN.

2019

- T. Bruder-Nascimento, S. Kennard, G. Antonova, VS. Patel, W. Chen, **EJ. Belin de Chantemèle**. Reduction in Endothelial Leptin Signaling in Congenital Lipodystrophy Leads to Endothelial Dysfunction via PPAR γ -mediated increases in Nox1 in the vasculature. *Experimental Biology Meeting 2019 (Orlando, FL)*. *FASEB J (33) Suppl. 1: 828.9*
- JL. Faulkner, S. Kennard, G. Antonova, IZ. Jaffe, VS. Patel, **EJ. Belin de Chantemèle**. Leptin-induced Endothelial Dysfunction is Mediated by Endothelial Mineralocorticoid Receptor Activation in Premenopausal and Pregnant Females. *Experimental Biology Meeting 2019 (Orlando, FL)*. *FASEB J (33) Suppl. 1: 830.3*
- JL. Faulkner, S. Kennard, IZ. Jaffe, **EJ. Belin de Chantemèle**. Endothelial Mineralocorticoid Receptors are Increased by Pregnancy in Mice and Mediate Obesity-Associated, Leptin-Induced Endothelial Dysfunction in Pregnancy. *Hypertension. 2019; 74: A007*
- T. Bruder-Nascimento, JL. Faulkner, S. Kennard, G. Antonova, W. Chen, **EJ. Belin de Chantemèle**. Leptin Restores Endothelial Function, Diminishes Vascular Adrenergic Contractility, but Does Not Alter Arterial Stiffness and Blood Pressure, in a Mouse Model of Congenital Generalized Lipodystrophy. *Hypertension. 2019; 74: A121*
- Faulkner JL, Kennard S, Jaffe I, Lucas R, **Belin de Chantemele EJ**. “ENaC- α agonism can induce endothelial dysfunction in control female mice only independently of endothelial mineralocorticoid receptors”. *9th Annual International Conference of Aldosterone and ENaC in Health and Disease: The Kidney and Beyond*.

- Faulkner JL, Harwood D, Antonova G, Sullivan J, Bollag W, Faure S, Clere N, **Belin de Chantemele EJ**. “Female mice exhibit higher increases in aldosterone synthase expression and aldosterone production than males in response to low-salt diet”. *9th Annual International Conference of Aldosterone and ENaC in Health and Disease: The Kidney and Beyond*.

2020

- Faulkner JL, Harwood D, Lluch E, Kennard S, Antonova G, **Belin de Chantemèle EJ**. Low Salt Diet Elevates Aldosterone Levels and Induces Endothelial Impairment in a Sex- and Strain-Dependent Manner in Mice. *FASEB J (34) Suppl. 1: 05755*
- Faulkner JL, Wright D, Kennard S, Antonova G, Jaffe IZ, **Belin de Chantemèle EJ**. Endothelial Mineralocorticoid Receptor Deletion Abrogates Leptin-Induced Endothelial Dysfunction in Pregnant Mice. *FASEB J (34) Suppl. 1: 05928*
- Bruder-Nascimento T, **Belin de Chantemèle EJ**. Protease inhibition with Ritonavir impairs endothelial function and promotes vascular smooth cell proliferation via RANTES/C-C chemokine receptor type 5 and Nox1-derived reactive oxygen species in mice. *FASEB J (34) Suppl. 1: 06068*
- Lluch E, Kennard S, **Belin de Chantemèle EJ**, Faulkner JL. Progesterone reduces endothelial function without increasing endothelial mineralocorticoid receptor expression in male C57Bl/6 mice. *FASEB J (34) Suppl. 1: 06068*
- Pearson M, Bruder-Nascimento T, Chen W, **Belin de Chantemèle EJ**. Metreleptin restores vascular endothelial function in a mouse model of acquired congenital lipodystrophy likely via PPAR γ -dependent reduction in reactive oxygen species. *FASEB J (34) Suppl. 1: 02214*
- Kress TC, Bruder Nascimento T, Kennard S, Wright D, Faulkner JL, **Belin de Chantemèle EJ**. HIV increases basal metabolic rate, impairs endothelial function and elevates blood pressure in male and female mice. *FASEB J (34) Suppl. 1: 06242*
- Batori R, Bordan Z, Bruder-Nascimento T, Padgett C, Huo Y, Stepp D, **Belin de Chantemèle EJ**, David Fulton. Novel roles of PFKFB3 in mediating endothelial dysfunction in obesity. *FASEB J (34) Suppl. 1: 05669*
- Faulkner JL, Wright D, Kennard S, Antonova G, Jaffe IZ, **Belin de Chantemele EJ**. Endothelial Mineralocorticoid Receptor Deletion Abrogates Leptin-induced Endothelial Dysfunction And Fetal Growth Restriction In Pregnant Mice. *Hypertension. Oct 2020:76(4) Suppl. 1: MP14*

2021

- Barris C, Faulkner JL, **Belin de Chantemèle EJ**. Loss of Female Sex Hormones Does Not Induce a Mechanistic Switch for Development of Hypertension in Obese Female Mice. *FASEB J (35) Suppl. 1: 04280*
- Kress T, Bruder-Nascimento T, Faulkner J, Kennard S, **Belin de Chantemèle EJ**. HIV-Associated Hypertension is TNF α -Dependent and Involves Increased Vascular Nox1 Expression in Mice. *FASEB J (35) Suppl. 1: 00357*
- Faulkner J, Wright D, Kennard S, Antonova G, Jaffe I, **Belin de Chantemèle EJ**. Endothelial mineralocorticoid receptor deletion ablates leptin-induced cardiovascular and fetal growth preeclampsia characteristics in pregnant mice. *FASEB J (35) Suppl. 1: 01700*
- Atawia R, Bruder-Nascimento T, Horimatsu T, Li X, Kennard S, Antonova G, Chen W, Patel V, Weintraub N, Fulton D, Kim HW, **Belin de Chantemèle EJ**. Perivascular adipose tissue (PVAT)-derived leptin improves aortic endothelial function via attenuating endothelial glycolysis in a mouse model of lipodystrophy. *FASEB J (35) Suppl. 1: 02518*