BARBARA HUISAMEN

CURRICULUM VITAE

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1. PERSONAL INFORMATION:

Name:	Barbara Huisamen
Title:	Emeritus Professor
Maiden name:	Kotzé
Date of birth:	11 July 1953
Marital status:	Married to Dr. E. Huisamen, 2 children - Dalene and Johan
Address:	15 High Trees Eversdal, Durbanville 7550 South Africa.
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Gender:	Female
Health status:	Excellent

2. FORMAL QUALIFICATIONS:

1971	Matriculated - Bellville High School
1974	B.Sc. - University of Stellenbosch (U.S.), major in Chemistry and Zoology
1975	B.Sc. (Hons.) in Biochemistry (U.S.)
1976	M.Sc. in Medical Sciences (U.S.) with a dissertation on the effect of Iodine on the quaternary structure of Thyroglobulin.
1991	B.Sc. (Hons.) in Pharmacology, Faculty of Medicine, U.S.

1993	Ph.D. (U.S.): Dissertation on The identification, localization and characterization of binding sites specific for inositolphosphates in the myocardium.

3. ADDITIONAL TRAINING:

- Completed a project management diploma - CPUT
- Completed the radiation control course by MECOSA.
- Completed a computer course on PowerPoint
- Attended a course on biostatistics presented by the MRC
- Completed safety and fire fighting course – US
- Completed a course on the utilization of animals in research
- Completed a short course on essential PCR.

4. EMPLOYMENT:

1976-1978	Research assistant for Prof. P. van Jaarsveld, Department of Pharmacology, Faculty of Medicine, U.S. in the field of **protein chemistry**.
1979-1981	Research assistant for Dr. C. Albrecht doing **cancer research** in the same department.

Married to a pastor in 1979. I took up my own career again in 1989.

01/02/1989	Part-time research assistant with Prof. A. Lochner, Research Centre for Molecular and Cellular Biology, Department of Medical Physiology and Biochemistry, Faculty of Medicine, U.S. The research centred on **heart research with specific reference to ischaemia/ reperfusion injury**
01/02/1992	Appointed as full-time Senior Scientific Officer at the MRC/UCT Ischaemic Heart Research Unit. Within the group, my research centred on the **inositolphosphate metabolism.**
01/02/1994	Appointed as Senior Scientific Officer at the MRC Experimental Biology Programme, Tygerberg. I embarked on a study of the diabetic heart, **characterizing two different rat models of Type 2 diabetes to study alterations in signal transduction.**

01/04/1997	Promoted to Specialist Scientist in the same programme
01/04/2004	Promoted to Senior Specialist Scientist in the same Programme
07/08/2006 - current	Appointed as Ass Prof in the Div of Medical Physiology, Tygerberg Campus, University of Stellenbosch.
01/11/2011	Promoted to Chief Specialist Scientist in the Diabetes Discovery Platform, MRC, Tygerberg.
01/01/2013 – 31/07/2018	Appointed as Chief Specialist Scientist in the Biomedical, Research and Innovation Platform of the SA MRC, Tygerberg.
31/07/2018	Retired from the MRC. Currently have emeritus status with the University of Stellenbosch, Faculty of Medicine and Health Sciences.

5. ACTIVITIES AND ACHIEVEMENTS:

Competencies:

- I have built a research group around the clinical problem of cardiovascular complications in Type 2 diabetes, starting with **implementation of suitable models**, progressing through **asking the right questions** and **developing protocols** to answer them, to the successful **publication of the results**.
- I have used this as a platform to **train students** to become scientists and **supervised their research projects** to conclusion.
- I have therefore developed **problem solving and analytical skills** as well as **project management, financial management and people management skills**.
- I have successfully written grant applications to the CDRF and NRF as well as to private pharmaceutical companies to obtain research money, therefore have good **project writing skills as well as negotiating skills.** I have also procured 3 THRIP allocations from the NRF because of this.
- I have successfully **negotiated collaboration** with research groups both nationally and internationally.
- I presented at numerous national and international meetings, therefore have **excellent oral presentation skills**.
- I have written and published numerous papers therefore have **excellent writing skills**
- I have examined numerous theses and reviewed numerous papers for scientific journals therefore have **excellent proof-reading skills**.
- Central to most of the latter is also **skills in suitable statistical methods**. I mainly used GraphPad prism.

Lecturing:

- I presented pharmacology practical classes to medical students on cardiovascular function to demonstrate effects of different pharmaceutical substances
- I lectured to medical students on endocrinology
- I annually lecture to post-graduate students on insulin signalling, glucose metabolism, mitochondria and mitochondrial functioning

Extracurricular:

- I have been actively involved in the annual Tygerberg Research day in the past . I have acted as chairperson for the responsible committee for this event, negotiated financial sponsorship from the industry and organised the poster sessions as well as the basic sciences scientific sessions.
- I was a Safety officer in the Div of Medical Physiology and have completed courses in health and safety as well as fire fighting.
- I am the acting Radiation Protection Officer of the Div Medical Physiology and have completed external courses in the handling of Radio-labelled materials in Research.
- I sit on the board of Coram Deo Congregation where I have the portfolio of General Manager of the Congregation.
- I am also actively involved in the gospel music ministry.

6. DISTINCTIONS:

1992	Awarded the Wyndham prize for the best address by a young scientist at the Annual congress of the Physiology Society of S.A.
1993	Awarded a grant for the best address by a young scientist over a four year period, at the Annual congress of the Physiology Society of S.A. by the International Union of Physiological Sciences, to attend the XXXII Congress in Glasgow, Scotland.
1994	Awarded the Francie van Zijl medal for the best address at the Tygerberg Academic Day.
1994	Nominated as one of six papers to compete for the outstanding investigators award at the XIX congress of the Southern Africa Cardiac Society.
1995.	Awarded a Servier Investigator Award for a poster at the Satellite Symposium of XVth World Congress of the

ISHR on Signal transduction in Normal and Diseased Myocardium in Rotterdam, The Netherlands.

2000	Received the A.J. Brink trophy for an outstanding address at the Tygerberg Academic Day
2001	Awarded a prize for the best publication in the field of basic research in Diabetes at the annual SEMDSA conference.
2002	Again awarded the prize for the best publication in the field of basic research in Diabetes at the annual SEMDSA conference.
2003	Third consecutive year awarded prize for the best publication in the field of basic research in Diabetes at the annual SEMDSA conference.
2004	Received the A.J. Brink trophy for an outstanding address at the Tygerberg Academic Day
2005	Awarded prize for the best publication in the field of basic research in Diabetes at the annual SEMDSA conference
2006	Shared the Pfizer prize for best paper presented in cardiovascular research – basic sciences – at the annual Tygerberg Academic Day.
2007	Received the JN de Klerk trophy as prize for an outstanding poster – presented at the annual Tygerberg Academic Day.
2008	Received a prize for the best poster presentation at the Tygerberg Academic Day as well as at the annual Physiology conference of SA.
2015	Conferred the rank of Honorary Fellow of the Physiology Society of Southern Africa.
2017	Received a Research Award for exceptional achievement from the Vice-Rector: Research, Innovation and Postgraduate Studies of the University of Stellenbosch
2019	Awarded the Havenga Prize for Health Sciences by the SA Academy of Science and Arts.

7. NRF Rating:

Category C1

8. PROJECT LEADER:

M.Sc. 17

Ph.D.: 17

Postdoctoral students: 3

9. DIVERSE ACADEMIC INVOLVEMENT

- Associate Editor of Cardiovascular Drugs & Therapy
- Regular review of research articles because of expertise in the field of diabetes: Science Reports, Cardiovascular Drugs & Therapy, Diabetes, Obesity & Metabolism, BMC Cardiovascular disorders and PLOS one.
- Review of NRF project applications.
- Part of NRF SARChi review committee
- Part of MRC grant allocation committee
- Review of Ph.D. protocols
- External Examiner – Ph.D & MSc theses

10. COLLABORATION WITH RESEARCH GROUPS:

- *International collaborative studies with:*
  1. Prof J Glatz and Dr Miranda Nabben, Maastricht
  2. Profs Stan Botchway and Tony Parker, Rutherford Appleton Laboratories, Oxfordshire.
  3. Prof Karl Herrup, Hong Kong University of Technology

- *National collaborative studies with:*
  1. Dr. H Strijdom, Div Medical Physiology, Faculty of Health Sciences, US.
  2. Dr E Marais, Div Medical Physiology, Faculty of Health Sciences, US
  3. Dr D Blackhurst, Lipid Clinic, Cape Heart Centre, UCT.
  4. Dr R Johnson, BRIP, MRC, Tygerberg
  5. Dr C Pheiffer, BRIP MRC, Tygerberg
  6. Dr H Musarurwa, Walter Sisulu University, Mthatha, SA.

11. COMMUNITY INVOLVEMENT:

1998: Manned a stall at the YEAST outreach, Waterfront, Cape Town

1999 – 2002: Participated in the Autumn School held by the Faculty of Health Sciences, University of Stellenbosch to specifically reach Grade 12 pupils from

traditionally underprivileged schools, interested in a medical career (GESOG)

12. MEMBERSHIP OF SCIENTIFIC BODIES:

- Chairperson of the committee for the use of animals in research (CEAR) - Faculty of Health Sciences, University of Stellenbosch – 2005-2009
- Member of the committee for the use of animals in research (ECRA) – MRC – 2004-2019.
- Executive member of the Physiology Society of South Africa
- Member of the organising committee of the International Society for Heart Research Satellite meeting in South Africa, 2004.
- Member in good standing of the International Society for Heart Research
- Member of the Society for Endocrinology, Metabolism and Diabetes of South Africa
- Member of the SA Heart association
- Member of the Society for Heart and Vascular Metabolism
- Member of the Working groups on Atherosclerosis and Vascular Biology as well as on Cellular Biology of the Heart of the European Society of Cardiology

13. CONFERENCE PRESENTATIONS:

International:

1. Van Jaarsveld PP, **Kotzé B,** Van der Walt BJ. Evidence that thyroglobulin contains non-identical half molecules. Anales D Endocrinologie, 38 (5), A69.
2. Mouton R, **Huisamen B**, Jordaan AM, Lochner A. Stimulation of phosphatidylinositol metabolism during α_1-adrenergic stimulation and reperfusionof ischaemic rat heart. XI Meeting of the ISHR (European Section), Glasgow, Scotland, 1990.
3. Mouton R, Genade S, **Huisamen B**, Lochner A. The effect of ischaemia-reperfusion on $InsP_3$ levels in cardiac atria and ventricles. XIV World Congress of the ISHR, Kobe, Japan, 1992.Abstract: J Mol Cell Cardiol 24 (Suppl 1), S142, 1992.
4. Lochner A, **Huisamen B**, Genade S, Mouton R. Demonstration of a specific saturable inositol-1,4,5-trisphosphate ($InsP_3$) binding site in heart muscle. XIV World Congress of the ISHR, Kobe, Japan, 1992. Abstract: J Mol Cell Cardiol 24 (Suppl 1), S239, 1992.
5. **Huisamen B**, Lochner A, Opie LH. Demonstration and regulation of an inositoltrisphosphate receptor population in the rat heart and comparison between the atria and ventricles. XXXII Congress of the International Union of Physiological Sciences, Glasgow, Scotland, 1993.
6. **Huisamen B**, Ellis E, Lochner A. Inositolpolyphosphate binding to myocardial membranes. Signal Transduction Symposium, Rotterdam, The Netherlands, 1995.
7. **Huisamen B**, Upton J, Lochner A. cGMP levels during anoxia-reperfusion in rat papillary muscle. Febs Special Meeting on Cell signalling mechanisms, Amsterdam, The Netherlands, 1997. FEBS Abstracts P2-042, 1997.

8. **Huisamen B**, Van Dyk M, Lochner A. The ß-adrenergic signalling system in insulin independent diabetes (NIDDM). XVIII European Section Meeting of the ISHR, Versailles, France, 1997. Abstract: J Mol Cell Cardiol 29: A132.

9. **Huisamen B**, Van Dyk M, Lochner A. Myocardial α-adrenergic receptor population in two rat models of NIDDM. XVI World Congress of the ISHR, Rhodes, Greece, 1998 Abstract: J Mol Cell Cardiol 30:A109.

10. **Huisamen B**, Donthi R, Lochner A. Effect of Vanadate and insulin on glucose uptake and PKB activation in NIDDM hearts. XXII Annual Meeting of the American Section of the ISHR, Louisville, Kentucky, USA, 2000. Abstract: J Mol Cell Cardiol 32:F2.

11. **Huisamen B**, Upton J, Keyser A. Modulation of insulin signaling by exercise training - normal vs NIDDM. XXII Annual Meeting of the American Section of the ISHR, Louisville, Kentucky, USA, 2000. Abstract: J Mol Cell Cardiol 32:F16.

12. .**Huisamen B**, Donthi R, Lochner A. The effect of Vanadate on glucose uptake and PKB activation in cardiomyocytes from normal and NIDDM rats. 60th Scientific Sessions of the ADA, San Antonio, Texas, USA, 2000. Abstract: Diabetes 49S1:1376-P.

13. **Huisamen B**, Upton J, Keyser A, Lochner A. The effect of exercise training on insulin signaling in the NIDDM myocardium. 60th Scientific Sessions of the ADA, San Antonio, Texas, USA, 2000. Abstract: Diabetes 49S1:1377-P.

14. **Huisamen B,**Upton J, Donthi R, Lochner A. Exercise training and the myocarduim – differences between normal and non-insulin dependent diabetes mellitus. Third International Congress of the African Association of Physiological Sciences/Quadrennial Official Regional Congress of the International Union of Physiological Sciences. Pretoria, South Africa, 2000.

15. Keyser A, Van Zyl M, **Huisamen B,** Lochner A. Glucose uptake, Glut 4 translocation and PKB activation in the myocardium of two rat models of NIDDM. Third International Congress of the African Association of Physiological Sciences/Quadrennial Official Regional Congress of the International Union of Physiological Sciences. Pretoria, South Africa, 2000.

16. Marais E, Genade S, Bailey L, Keyser A, **Huisamen B,** Moolman JA, Lochner A. Pharmacological attenuation of p38 mitogen activated protein kinase (MAPK) during ischaemic-reperfusion is associated with myocardial protection. Third International Congress of the African Association of Physiological Sciences/Quadrennial Official Regional Congress of the International Union of Physiological Sciences. Pretoria, South Africa, 2000.

17. Upton J, **Huisamen B,** Lochner A. Changes in contractility during anoxia-reoxygenation in normal and NIDDM myocardium. Third International Congress of the African Association of Physiological Sciences/Quadrennial Official Regional Congress of the International Union of Physiological Sciences. Pretoria, South Africa, 2000.

18. **B. Huisamen,** JJ Upton, A Lochner. Effects of alpha-adrenergic receptor overexpression in the type 2 diabetic heart. Satellite meeting of the XVII World Congress of the ISHR, Banff, Canada, 2001.

19. **B. Huisamen,** R Donthi, A Keyser A Lochner. Protein Kinase B in the diabetic heart. XVII World Congress of the ISHR, Winnipeg Canada, 2001.

20. Lochner A, Marais E, Genade S, **Huisamen B**, Moolman JA. β-Adrenergic receptor-induced protection of the ischaemic myocardium: A putative role for P38 MAPK**.** XVII World Congress of the ISHR, Winnipeg Canada, 2001. Abstract: J Mol Cell Cardiol 33: A70
21. **B. Huisamen,** JJ Upton, A Lochner. Effects of alpha-adrenergic receptor overexpression in the type 2 diabetic heart. International immunopharmacology congress, Pretoria, 2001.
22. S. Hartley, J. Moolman, **B. Huisamen,** A. Lochner, Necrosis and apoptosis of adult cardiomyocytes: effects of ischaemia and β-adrenergic receptor preconditioning. International immunopharmacology congress, Pretoria, 2001.
23. Moolman J, Hartley S, Genade SJ, **Huisamen B**, Lochner A. Beta-adrenergic receptor stimulated preconditioning may protect against necrosis and apoptosis via inhibition of p38 MAP kinase. European Society of Cardiology Congress, Berlin, Germany, 2002.
24. **B. Huisamen,** I Webster, A Lochner. Pharmacological manipulation of AMP Kinase in cardiomyocytes. Heart Failure 2003 meeting together with European Section of the ISHR, Strassbourg, France, June 2003. Abstract: Basic Research in Cardiology 98(3):195, 2003.
25. **B. Huisamen,** S. Genade, A. Lochner. Effects of GLP-1 on the isolated, perfused rat heart. Society for Heart and vascular metabolism, Freiburg, Germany, June 2003.
26. **B. Huisamen,** A Lochner. PKB/Akt Phosphorylation vs glucose uptake in the diabetic heart. Keystone Symposium on obesity and diabetes – Banff, Canada, March 2004.
27. **B. Huisamen,** S. Genade, A. Lochner. Glucagon-like peptide-1 protects the heart by activating glycolysis. XVIII World Congress of the ISHR, Kruger Park, SA. Cardiovasc J SA 15:15, 2004.
28. Lopes J, **Huisamen B,** Lochner A. A role for cAMP and adenylate cyclase in the protective effects of insulin? XVIII World Congress of the ISHR, Kruger Park, SA. Cardiovasc J SA 15, 14, 2004.
29. **B. Huisamen,** S Genade, A Lochner. GLP-1 directly protects the heart by activating PI-3-kinase and glycolysis. 25th European Section meeting of the ISHR, Tromsø, Norway, J Mol Cell Cardiol 38: 1030, 2005.
30. Lecour S, Engerer A, Hattingh S, **Huisamen B**, Lochner A, Opie LH. TNF_{α} - induced cardioprotection is independent of classical pro-survival kinases activation (PI3K.Akt and ERK). 25th European Section meeting of the ISHR, Tromsø, Norway, J Mol Cell Cardiol 38:1040, 2005
31. **B. Huisamen,** S. Genade, A Lochner . Differential signalling of GLP-1 in the heart. 3rd meeting of the Society for heart and vascular metabolism, Oxford, June 2005.
32. **B. Huisamen,** S Genade, I Webster, A Lochner. Differential effects of Glucagon-like 1 signalling in the heart. Scientific Sessions of the American Heart Association, Dallas Tx. Circulation 112(17):II282; 2005.
33. Lopes J, **Huisamen B,** Lochner A. Does Insulin mediate cardiac protection via cAMP? 26th European Section meeting of the ISHR, Manchester UK, J Mol Cell Cardiol 40(6):998; 2006.

34. **Huisamen B,** Genade S, Lochner A. GLP-1 signalling events leading to myocardial protection. 19th world diabetes congress, Cape Town, SA. Diabetic Medicine 23:480; 2006.

35. **Lopes J, Lochner A, Huisamen B.** Glucose is a prerequisite for insulin to protect the ischemic heart via a wortmannin-insensitive pathway. XVIIII World conference of the ISHR, Bologna, Italy, 2007.Journal of Molecular and Cellular Cardiology 42:S191, 2007

36. **Huisamen B.** D Dietrich, S Genade, A Lochner. The Disasterous effects of 8 weeks of overindulgence: early effects of diet induced obesity on myocardial function. 5th Annual Conference of the Society for Heart and Vascular Metabolism, Maastricht, The Netherlands . June 2007. Cardiovasc Drugs Ther 22:143, 2008.

37. **Huisamen B,** Pêrel S, Friedrich S, Strijdom H, Lochner A. The effect of inhibition of the AngII receptor on insulin signalling and nitric oxide production in the insulin resistant rat heart. 6th Annual Conference of the Society for Heart and Vascular Metabolism, Boston, Massachusetts. June 2008.

38. **Huisamen B,** Hill C, Dietrich D, Lochner A. Diavite™ has insulin secreting, anti-hypertensive and cardioprotective effects in rat models of pre-diabetes and type 1 diabetes. 3rd International Congress on Prediabetes and the Metabolic Syndrome, Nice, France, April 2009. Journal of Diabetes 1(1):A235, 2009.

39. I Webster, **B Huisamen,** EF du Toit**.** The effect of dietary creatine supplementation on exercised and sedentary rat hearts. Heart Failure, June 2009, Nice France. Eur J Heart Failure 8(2), 2009.

40. Lochner A, Fan W-J, Huisamen B. The interaction between PKB/Akt, JNK and PTEN during ischaemia/reperfusion of insulin resistant heart. Scientific sessions, American Heart Association, Orlando, Florida, Nov 2009

41. Fan W-J, Lochner A, Huisamen B. Interactions between PKB/Akt, JNK and PTEN during ischaemia/reperfusion: effects of obesity and insulin resistance. International Society for Heart Research World congress, Kyoto, Japan, May 2010: Jnl Mol Cell Cardiol 48:S100, 2010.

42. **Huisamen B,** B Flepisi, A Lochner. Pre-diabetic changes in GSK-3 signalling in the insulin resistant rat heart. 8th Annual Meeting of the Society for Heart and Vascular Metabolism, Kananaskis, Canada, August 2010.

43. **Huisamen B,** Genis A, Lochner A. Pre-treatment with a DPP-4 inhibitor imporves glucose homeostasis and is cardioprotective in insulin resistant rats. 8th Annual Meeting of the Society for Heart and Vascular Metabolism, Kananaskis, Canada, August 2010.

44. **Huisamen B.** Signalling in the heart in Diabetes. Winter BSCR/SASCAR Workshop, Plenary Speaker. London, December 2010,

45. **Huisamen B,** Genis A, Marais E, Lochner A. Treatment of obese, insulin resistant rats with a DPP-4 inhibitor is cardioprotective and improves glucose homeostasis. 4th International congress on Prediabetes and the metabolic syndrome. Madrid, April 2011.

46. **Huisamen B,** Fan W-J, Mallmin U, Bezuidenhout N, Lochner A. A profile of the myocardial metabolic changes associated with a rat model of diet-induced obesity. 9th

Annual Scientific Sessions of the Society for Heart and Vascular Metabolism, Brussels, Belgium. June 2011.

47. Webster I, Lochner A, **Huisamen B.** Elucidating the role of MKP-1 in insulin-mediated cardioprotection of the rat heart. 9th Annual Scientific Sessions of the Society for Heart and Vascular Metabolism, Brussels, Belgium. June 2011.

48. Webster I, **Huisamen B,** Du Toit EF. The effect of creatine supplementation on myocardial metabolism and function in sedentary and exercised rats. 9th Annual Scientific Sessions of the Society for Heart and Vascular Metabolism, Brussels, Belgium. June 2011.

49. **B Huisamen**, A Genis, E Marais, A Lochner. DPP-4 inhibition is cardioprotective and improves glucose homeostasis in pre-diabetic rats. 10th Annual Scientific Sessions of the Society for Heart and Vascular Metabolism, Oxford, UK, June 2012.

50. **B Huisamen**, C George, D Dietrich, A Lochner. Cardioprotective and anti-hypertensive effects of *Prosopus glandulosa* in a rat model of pre-diabetes. 10th Annual Scientific Sessions of the Society for Heart and Vascular Metabolism, Oxford, UK, June 2012.

51. **B Huisamen.** Invited presentation at a workshop on non-communicable diseases in Africa entitled: Basic and molecular aspects of Diabetes. Cape Town August 2012.

52. **B Huisamen,** B Flepisi, T Lubelwana-Hafver. Glycogen kinase-3 Inhibition: good or bad for the heart? 6th World Congress on Pediatric Cardiology and Cardiac Surgery. Cape Town, February 2013. CVJA 24(1):284

53. **B Huisamen,** B Flepisi, T Lublewana-Hafver. Glycogen kinase-3 inhibition: good or bad for the heart? 5th International Congress on Prediabetes and the Metabolic Syndrome. Vienna, April 2013. Journal of Diabetes 5(1):12

54. Lochner A, Flepisi B, **Huisamen B.** Glycogen synthase kinase-3 – Good or bad for the heart? Annual Scientific Sessions of the American Heart Association, November 2013, Dallas Texas.

55. **Huisamen B,** Genis A, Marais E, Strijdom H. DPP-4 inhibition is cardioprotective and restores pancreatic function in obese, insulin resistant rats. 3rd Meeting of the ESC Council on Basic Cardiovascular Science, Barcelona, 2014. P507 Cardiovasc Res. 2014 Jul 15;103 Suppl 1:S93. doi: 10.1093/cvr/cvu091.180. Epub 2014 Jun 27.

56. **Huisamen B**, Flepisi B. Chronic GSK-3 inhibition may be good for diabetes, but is bad for the heart. 3rd Meeting of the ESC Council on Basic Cardiovascular Science, Barcelona, 2014 P757 Cardiovasc Res. 2014 Jul 15;103 Suppl 1:S138-9. doi: 10.1093/cvr/cvu098.176. Epub 2014 Jun 27.

57. **Huisamen B**, Strijdom H, Collop N, Espach Y. possible role for the ATM protein in the myocardial pathology associated with obesity and insulin resistance. 3rd Meeting of the ESC Council on Basic Cardiovascular Science, Barcelona, 2014 P649A Cardiovasc Res. 2014 Jul 15;103 Suppl 1:S118. doi: 10.1093/cvr/cvu098.75. Epub 2014 Jun 27.

58. **Huisamen B**, Strijdom H, Collop N, Espach Y. A possible role for the ATM protein in the myocardial pathology associated with obesity and insulin resistance. 15th Annual SA Heart congress in collaboration with the ESC. Durban, South Africa. October 2014. SA Heart 11(4):183.

59. **Huisamen B.** The ATM protein and myocardial mitochondria. Invited Speaker at the 7th Mitochondrial Physiology School, Cape Town, South Africa. March 2015.

60. Espach Y, **Huisamen B.** Myocardial functioning and response to ischemia/reperfusion injury following manipulation of the atm protein kinase. 33rd Meeting of the ISHR-ES, July 1-4, 2015, Bordeaux, France. Journal of Mol and Cell Cardiology 86:S43, 2015

61. PV Dludla, E Joubert, J Louw, C Muller, **B Huisamen**, MF Essop and R Johnson. A phenylpropenoic acid glucoside (PPAG) of Aspalathus linearis protects H9c2 cardiomyocytes against hyperglycemia-induced cell apoptosis. International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research. Budapest, Hungary. 23 to 27 August 2015

62. PV Dludla, E Joubert, J Louw, CJF Muller, **B Huisamen**, MF Essop and R Johnson. Aspalathin protects H9c2 cardiomyocytes against hyperglycemia induced oxidative injury. The IDF World Diabetes Congress 2015 Vancouver. Vancouver, Canada. 30 November to 4 December 2015.

63. **B Huisamen**, M van Vuuren, Y Espach, E Marais, A Lochner. A role for the ATM protein in insulin resistance associated with obesity. Meeting on PI3K-like Protein Kinases, Milan, November 2015

64. **B Huisamen,** M van Vuuren, Y Espach, E Marais, A Lochner. Is low ATM protein responsible for myocardial insulin resistance associated with obesity? 4th Meeting of the ESC Council on Basic Cardiovascular Science, Florence, 2016. Cardiovasc Res (2016) 111 (suppl 1): S88-S89 DOI: http://dx.doi.org/10.1093/cvr/cvw147 First published online: 1 July 2016

65. **B Huisamen**, D Dietrich, J Lopes. A Preclinical evaluation of the effects of an aqueous extract of Agathosma on the development of hypertension. 4th Meeting of the ESC Council on Basic Cardiovascular Science, Florence, 2016. Cardiovasc Res (2016) 111 (suppl 1): S92-S116 DOI: http://dx.doi.org/10.1093/cvr/cvw150 First published online:1.

66. **B Huisamen,** M van Vuuren, M Blignaut, A Lochner. A link between low ATM, myocardial insulin resistance and mitochondrial dysfunction in obesity. ATW2017 Ataxia-Telangiectasia Workshop, Milan, March 2017.

67. M Blignaut, **B Huisamen,** A Lochner. ATM protein kinase influences oxidative phosphorylation in mitochondria. Keystone Symposium on: Mitochondria, Metabolism and Heart, May 2017, Santa Fe, New Mexico, USA.

68. **B Huisamen,** M Blignaut, Y Espach, MA van Vuuren, H Strijdom, A Lochner. Is low Ataxia Telangiectasia Mutated (ATM) expression involved in myocardial insulin resistance associated with obesity? 34th Annual meeting of the European section of the ISHR, July 2017, Hamburg Germany.

69. **B Huisamen,** M Blignaut, A Lochner. ATM regulates cardiac mitochondrial oxidative phosphorylation potential. Meeting of the Frontiers in Cardiovascular Biology, April 2018, Vienna, Austria. Cardiovascular Research, Volume 114, Issue suppl_1, 1 April 2018, Pages S22, https://doi.org/10.1093/cvr/cvy060.046

70. A Lochner, K Dhanalaban, **B Huisamen**. Cardioprotective effects of melatonin are characterized by reduction in mitochondrial fission. American Heart 2018.

71. **B Huisamen,** M Blignaut, A-M Engelbrecht, A Lochner, ATM regulates cardiac mitophagy. 18th International Ataxia Telangiectasia Workshop, Housten Tx, 2019

72. M Blignaut, B Loos, SW Botchway, AW Parker, **B Huisamen.** Ataxia-Telangiectasia Mutated is located in cardiac mitochondria and impacts oxidative phosphorylation. 18th International Ataxia Telangiectasia Workshop, Housten Tx, 2019.

73. **B Huisamen,** M Blignaut, A Lochner. ATM regulates cardiac mitochondrial oxidative phosphorylation potential. Society for Heart and Vascular Metabolism, Amsterdam, The Netherlands, 2019

74. **B Huisamen,** M Van Vuuren, S Smit, S Kotzé, J Layman, S Windvogel, E Marais, A Lochner. Effects of a green Aspalathus linearis extract on obesity-related co-morbidities. Society for Heart and Vascular Metabolism, Amsterdam, The Netherlands, 2019.

National:

1. Mouton R, **Huisamen B**, Lochner A. Enhanced phosphatidylinositol turnover in cardiac muscle during α_1-adrenergic stimulation and intracellular Ca^{++} overload. S.A. Cardiac Society, Bloemfontein, 1990.
2. Mouton R, **Huisamen B**, Lochner A. Fosfatidielinositol metabolisme en Ca^{2+}-oor-belading tydens herperfusie van die iskemiese hart. S.A. Fisiologie Kongres, Gordonsbaai, 1990.
3. Mouton R, **Huisamen B**, Lochner A. Verhoogde fosfatidiel-inositolomset in hartspier tydens α_1-adrenerge stimulasie en intrasellulêre Ca^{2+} -oorbelading.. Akademiese Jaardag, Fakulteit Geneeskunde, U.S., 1990.
4. **Huisamen B**, Mouton R, Lochner A. Bewyse vir die bestaan van ‘n inositoltrisfosfaatreseptor in hartspier. Akademiese Jaardag, Fakulteit Geneeskunde, U.S., 1991.

5. **Huisamen B**, Lochner A, Opie LH. Demonstration of a specific inositoltrisphosphate ($InsP_3$) binding site in rat heart and comparison between the receptor populations of atria and ventricles. UCT Research Day, 1992.
6. **Huisamen B**, Lochner A, Opie LH. Regulation of the inositoltrisphosphate receptor population in rat heart atria and ventricles. S.A. Physiology Congress, Langebaan, 1992.
7. **Huisamen B**, Lochner A. Demonstration of binding sites specific for inositol-polyphosphates in the myocardium. S.A. Biochemistry Congress, Stellenbosch, 1994.
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