

Ana Sofia Henriques da Costa

Curriculum Vitae

Biographical

Born October 2, 1979 in Santarém, Portugal
Portuguese citizenship

Current address

34 Romsey Road
Cambridge CB1 3DD
United Kingdom

Institutional address

MRC Cancer Unit, Hutchison/MRC Research Centre, Box 197, Cambridge Biomedical Campus
Cambridge CB2 0XZ
United Kingdom

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Languages

Portuguese (native), English (fluent), Spanish (intermediate), Italian (basics), French (basics),
German (basics)

Current position

Research Associate
Dr Christian Frezza Group, MRC Cancer Unit, Hutchison/MRC Research Centre
University of Cambridge
Starting date: 1st September 2015

Education

Degree	PhD <i>summa cum laude</i> in Veterinary Sciences
Institution	Faculty of Veterinary Medicine, University of Lisbon, Portugal
Date	October 2009 to December 2013
Degree	Master in Animal Science
Institution	Faculty of Veterinary Medicine, Technical University Lisbon, Portugal
Date	October 2003 to September 2006
Degree	Bachelor in Animal Science
Institution	University of Trás-os-Montes e Alto Douro
Date	September 1997 to July 2003
Course	High Performance Liquid Chromatography
Institution	SOQUIMICA, Lisbon, Portugal
Duration	21 hours
Date	2009
Course	Animal Welfare
Institution	Instituto Superior de Psicologia Aplicada (ISPA), Lisbon, Portugal
Duration	21 hours

Research Experience

Research Assistant 2014, April – 2015, August
MRC Cancer Unit, Hutchison/MRC Research Centre
University of Cambridge
Supervisor: Dr Christian Frezza

Postdoctoral visiting researcher 2013, October – 2014, March
Albert Renold Travel Fellowship for Young Scientists
Regulation of Lipid Metabolism group
School of Pharmacy, University of Barcelona
Supervisors: Dr Laura Herrero
Dr Dolors Serra

PhD student 2009, October – 2013, September
Faculty of Veterinary Medicine
University of Lisbon
Supervisors: Professor José Prates
Professor Carlos Fontes

Research fellow 2008, September – 2009, September
Faculty of Veterinary Medicine
Technical University of Lisbon
Supervisor: Professor José Prates

MSc student 2004, September – 2006, March
Faculty of Veterinary Medicine
Technical University of Lisbon
Supervisors: Professor Graça Ferreira Dias
Professor Luísa Mateus

Research fellow 2003, December- 2004, March
INIAP - Estação Zootécnica Nacional
Vale de Santarém, Portugal
Supervisor: Doctor José Santos-Silva

Participation in funded R&D projects from public calls

Title of the project: Nutritional strategies to increase bioactive fatty acids proportion in lambs eatable fat.

Project reference: PTDC/CVT/103934/2008

Principal investigator: José Manuel Bento Santos Silva

Keywords: lamb; bioactive fatty acids; conjugated linoleic acid; n-3 fatty acids.

Title of the project: Changes in muscle gene expression as response to selection for high growth and to growth path.

Project reference: PTDC/CVT/111744/2009

Principal investigator: Paulo Jorge Fernandes da Costa

Keywords: muscle growth; gene expression; metabolism; meat quality.

Title of the project: Improving fat partitioning and nutritional quality in pigs: developing feeding strategies and providing insights into genetic and metabolic mechanisms.

Project reference: PTDC/CVT/111744/2009

Principal investigator: José António Mestre Prates

Keywords: pork; meat quality; lipid composition; genetic regulation.

Title of the project: An integrated study of lipid composition and its genetic regulation in bovine meats with Protected Designation of Origin (PDO).

Project reference: PTDC/CVT/2006/66114

Principal investigator: José António Mestre Prates

Keywords: beef; meat quality; lipid composition; genetic regulation.

Title: Contribution to the study of apoptosis and angiogenic activity in the equine corpus luteum and endometrium

Principal investigator: Graça Maria Leitão Ferreira Dias

Title of the project: Angiogenesis in the equine ovary: a physiological model to study vascular growth and regression

Project reference: POCTI/CVT/39519/2001

Principal investigator: Graça Maria Leitão Ferreira Dias

Keywords: angiogenesis; ovary; corpus luteum; mare.

Title of the project: Contribuição para uma Melhor Definição das Normas de Produção do “Borrego do Nordeste Alentejano”

Principal investigator: José Manuel Bento Santos Silva

Keywords: lamb; intramuscular fat; meat quality

Visiting Appointments

Visiting PhD student at the Institute of Bio-Sensing Technology
University of the West of England, United Kingdom
Supervisor: Professor Richard Luxton

2013, July

Fellowships

2013 Albert Renold travel fellowship for young scientists by the European Foundation for the Study of Diabetes

2009 PhD fellowship by the Portuguese Ministry of Education and Science

Techniques

High performance liquid chromatography coupled to mass spectrometry

Real-time quantitative PCR

Western blotting

Bright field and fluorescence microscopy

Immunohistochemistry

RIA and ELISA

Cell culture (monolayer, co-culture, and 3D)

Lentiviral culture

Gene knockdown

Molecular cloning

Statistical analysis

Research interests

Cancer metabolism
Regulation of lipid metabolism
Liquid chromatography tandem-mass spectrometry applied to metabolomics
Statistics and bioinformatics

Publications

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Publications

32. Nunzio Iraci¹, Edoardo Gaude¹, Tommaso Leonardi, **Ana S H Costa**, Chiara Cossetti, Luca Peruzzotti-Jametti, Joshua D Bernstock, Harpreet K Saini, Maurizio Gelati, Angelo Luigi Vescovi, Carlos Bastos, Nuno Faria, Luigi G Occhipinti, Anton J Enright³ Christian Frezza & Stefano Pluchino. Extracellular vesicles are independent metabolic units with asparaginase activity. *Nature Chemical Biology* (accepted for publication)
(1 = authors who contributed equally)

31. Marrit Putker¹, Priya Crosby¹, Kevin A. Feeney, Nathaniel P. Hoyle, **Ana S.H. Costa**, Edoardo Gaude, Christian Frezza, and John S. O'Neill. Mammalian Circadian Period, But Not Phase and Amplitude, Is Robust Against Redox and Metabolic Perturbations. *Antioxidants & Redox Signaling*, 2017. doi: 10.1089/ars.2016.6911
(1 = authors who contributed equally)

30. **Ana S.H. Costa** and Christian Frezza. Metabolic reprogramming and oncogenesis: one hallmark, many organelles. *International Review of Cell and Molecular Biology*, 2017. doi: 10.1016/bs.ircmb.2017.01.001

29. Eric H. Ma, Glenn Bantug, Takla Griss, Stephanie Condotta, Hannah Guak, Bozena Samborska, Maria L. Balmer, Radia M. Johnson, Mark J. Verway, Thomas C. Raissi, Harmony Tsui, Giselle Boukhaleed, **Sofia Henriques da Costa**, Christian Frezza, Connie M. Krawczyk, Martin J. Richer, Christoph Hess, and Russell G. Jones. Serine is an essential metabolite for effector T cell expansion. *Cell Metabolism*, 2017. doi: 10.1016/j.cmet.2016

28. Stephen P. Burr, **Ana S.H. Costa**, Guinevere L. Grice, Richard T. Timms, Ian T. Lobb, Peter Freisinger, Roger B. Dodd, Gordon Dougan, Paul J. Lehner, Christian Frezza, James A. Nathan. Mitochondrial Protein Lipoylation and the 2-Oxoglutarate Dehydrogenase Complex Controls HIF1 α Stability in Aerobic Conditions. *Cell Metabolism*, 2016. doi: 10.1016/j.cmet.2016.09.015

27. Sciacovelli M, Gonçalves E, Johnson TI, Zecchini VR, **da Costa AS**, Gaude E, Drubbel AV, Theobald SJ, Abbo SR, Tran MG, Rajeeve V, Cardaci S, Foster S, Yun H, Cutillas P, Warren A, Gnanapragasam V, Gottlieb E, Franze K, Huntly B, Maher ER, Maxwell PH, Saez-Rodriguez J, Frezza C. Fumarate is an epigenetic modifier that elicits epithelial-to-mesenchymal transition. *Nature*, 2016 doi: 10.1038/nature19353

26. E. L. Mills¹, B. Kelly¹, A Logan, **A. S. H. Costa**, M. Varma, C. E. Bryant, P. Tourlomousis, J. H. M. Däbritz, E. Gottlieb, I. Latorre, S.C. Corr, G. McManus, H.T. Jacobs, M. Szibor, T. Braun, R. J. Xavier, C. Frezza, M. P. Murphy, L. A. O'Neill. Succinate dehydrogenase supports metabolic repurposing of mitochondria to drive inflammatory macrophage. *Cell*, 2016, doi: 10.1016/j.cell.2016.08.064
(1 = authors who contributed equally)

25. Koziol MJ, Bradshaw CR¹, Allen GE¹, **Costa ASH**¹, Frezza C, Gurdon JB. Identification of methylated deoxyadenosines in vertebrates reveals diversity in DNA modifications. *Nature Structural & Molecular Biology*, 2015, doi: 10.1038/nsmb.3145
24. Matheson NJ, Sumner J, Wals K, Rapiteanu R, Weekes MP, Vigan R, Weinelt J, Schindler M, Antrobus R, **Costa AS**, Frezza C, Clish CB, Neil SJ, Lehner PJ. Cell Surface Proteomic Map of HIV Infection Reveals Antagonism of Amino Acid Metabolism by Vpu and Nef. *Cell Host Microbe*, 2015, doi: 10.1016/j.chom.2015.09.003
23. Costa P, Simões JA, **Costa AS**, Lemos JP, Navas D, Hocquette JF, Calkins CR, Bessa RJ. Repercussions of growth path on carcass characteristics, meat colour and shear force in Alentejana bulls. *Animal*, 2015, doi: 10.1017/S1751731115000427
22. Edward T Chouchani, Victoria R Pell, Edoardo Gaude, Dunja Aksentijevic, Stephanie Y Sundier, Ellen L Robb, Angela Logan, Sergiy M Nadtochiy, Emily N J Ord, Anthony C Smith, Filmon Eyassu, Rachel Shirley, Chou-hui Hu, Anna J Dare, Andrew M James, Sebastian Rogatti, Richard C Hartley, Simon Eaton, **Ana S. H. Costa**, Paul S Brookes, Sean M Davidson, Michael R Duchon, Kourosh Saeb-parsy, Michael J Shattock, Alan J Robinson, Lorraine M Work, Christian Frezza, Thomas Krieg, Michael P Murphy. Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. *Nature*, 2014, doi: 10.1038/nature13909
21. Paula Mera, Joan Francesc Mir, Gemma Fabriàs, Josefina Casas, **Ana S.H. Costa**, Maria Ida Malandrino, José-Antonio Fernández-López, Xavier Remesar, Su Gao, Shigeru Chohnan, Maria Sol Rodríguez-Peña, Harald Petry, Guillermina Asins, Fausto G. Hegardt, Laura Herrero, Dolors Serra. Long-term increased carnitine palmitoyltransferase 1A expression in ventromedial hypothalamus causes hyperphagia and alters the hypothalamic lipidomic profile. *Plos One*, 2014, doi: 10.1371/journal.pone.0097195
20. **A.S.H. Costa**, R.J.B. Bessa, V.M.R. Pires, R.M.A. Pinto, C.M.G.A. Fontes, J.A.M. Prates. Is hepatic lipid metabolism of beef cattle influenced by breed and dietary silage level? *BMC Veterinary Research*, 2014, doi: 10.1186/1746-6148-10-65
19. P.A. Lopes, **A.S.H. Costa**, P. Costa, V.M.R. Pires, M.S. Madeira, F. Acheqa, R.M.A. Pinto, J.A.M. Prates. Contrasting cellularity on fat deposition in the subcutaneous adipose tissue and longissimus lumborum muscle from lean and fat pigs under dietary protein reduction. *Animal*, 2014, doi: 10.1017/S1751731114000160
18. **Ana Sofia Henriques da Costa**, Virgínia Maria Rico Pires, Carlos Mendes Godinho Andrade Fontes and José António Mestre Prates. Expression of genes controlling fat deposition in two genetically diverse beef cattle breeds, Alentejana and Barrosã, fed high or low silage diets. *BMC Veterinary Research*, 2013, doi: 10.1186/1746-6148-9-118
17. **Ana S. H. Costa**, Marta P. Silva, Cristina P. M. Alfaia, Virgínia M. R. Pires, Carlos M. G. A. Fontes, Rui J. B. Bessa, José A. M. Prates. Genetic background and diet impact beef fatty acid composition and stearoyl-CoA desaturase mRNA expression. *Lipids*, 2013, doi: 10.1007/s11745-013-3776-4
16. **Ana S.H. Costa**, Paulo Costa, Rui J.B.Bessa, José P.C. Lemos, Jorge A. Simões, José Santos-Silva, Carlos M.G.A. Fontes, José A.M. Prates. Carcass fat partitioning and meat quality of Alentejana and Barrosã young bulls fed high or low maize silage diets. *Meat Science*, 2013, doi: 10.1016/j.meatsci.2012.10.010
15. Marta S. Madeira¹, Virgínia R. Pires¹, Cristina M. Alfaia, **Ana S.H. Costa**, Richard Luxton, Olena Doran, Rui J. B. Bessa, José A.M. Prates. Differential effects of reduced protein diets on

fatty acid composition and gene expression in muscle and subcutaneous adipose tissue of Alentejana purebred and Large White × Landrace × Pietrain crossbred pigs. *British Journal of Nutrition*, 2013, doi: 10.1017/S0007114512004916

(1 = authors who contributed equally)

14. José M. Pestana, **Ana S. H. Costa**, Cristina M. Alfaia, Paulo Costa, Susana V. Martins, Susana P. Alves, Rui J. B. Bessa, José A. M. Prates. Lipid composition and nutritional quality of intramuscular fat in Charneca-PDO beef. *European Food Research and Technology*, 2012, doi: 10.1007/s00217-011-1625-3

13. José M. Pestana, **Ana S. H. Costa**, Susana P. Alves, Susana V. Martins, Cristina M. Alfaia, Rui J. B. Bessa, José A. M. Prates. Seasonal changes and muscle type effect on the nutritional quality of intramuscular fat in Mirandesa-PDO veal. *Meat Science*, 2012, doi: 10.1016/j.meatsci.2011.11.023

12. **Ana S.H. Costa**¹, Paula A. Lopes¹, Marta Estevão, Susana V. Martins, Susana P. Alves, Rui M. A. Pinto, Hugo Pissarra, Jorge J. Correia, Mário Pinho, Carlos M.G.A. Fontes, José A.M. Prates. Contrasting cellularity and fatty acid composition in fat depots from Alentejana and Barrosã bovine breeds fed high and low forage diets. *International Journal of Biological Sciences*, 2012, doi: 10.7150/ijbs.8.214

(1 = authors who contributed equally)

11. P. Costa¹, J.P.C. Lemos¹, P.A. Lopes, C.M. Alfaia, **A.S.H. Costa**, R.J.B. Bessa, J.A.M. Prates. Effect of low- and high-forage diets on meat quality and fatty acid composition of Alentejana and Barrosã beef breeds. *Animal*, 2012, doi: 10.1017/S1751731111002722

(1 = authors who contributed equally)

10. José M. Pestana, **Ana S. H. Costa**, Susana I. V. Martins, Cristina M. Alfaia, Susana P. Alves, Paula A. Lopes, Rui J. B. Bessa, José A. M. Prates. Effect of slaughter season and muscle type on the fatty acid composition, including conjugated linoleic acid isomers and nutritional value of intramuscular fat in organic beef. *Journal of the Science of Food and Agriculture*, 2012, doi: 10.1002/jsfa.5648

9. AP Martins¹, PA Lopes¹, **ASH Costa**, SV Martins, NC santos, JAM Prates, TF Moura, G Soveral. Differential mesenteric fat deposition in bovines fed on silage or concentrate is independent of glycerol membrane permeability. *Animal*, 2011, doi: 10.1017/S1751731111001091

(1 = authors who contributed equally)

8. Graça Ferreira-Dias, **Ana S. Costa**, Luísa Mateus, Anna J. Korzekwa, António Galvão, Dale A. Redmer, Karolina Lukasik, Anna Z. Szóstek, Izabela Woclawek-Potocka, Dariusz J. Skarzynski. Nitric oxide stimulates progesterone and prostaglandin E₂ secretion as well as angiogenic activity in the equine corpus luteum. *Domestic Animal Endocrinology*, 2011, doi: 10.1016/j.domaniend.2010.08.001

7. Cristina MM Alfaia, Susana P Alves, Anabela F Lopes, Maria JE Fernandes, **Ana SH Costa**, Carlos MGA Fontes, Matilde LF Castro, Rui JB Bessa, José AM Prates. Effect of cooking methods on fatty acids, conjugated isomers of linoleic acid and nutritional quality of beef intramuscular fat. *Meat Science*, 2010, doi: 10.1016/j.meatsci.2009.11.014

6. José M. Pestana, Susana I.V. Martins, Cristina M.M. Alfaia, Paula A. Lopes, **Ana S.H. Costa**, Rui J.B. Bessa, Matilde L.F. Castro, José A.M. Prates. Content and distribution of conjugated linoleic acid isomers in bovine milk, cheese and butter from Azores. *Dairy Science and Technology*, 2009, doi:10.1051/dst/2008040

5. Cristina P.M. Alfaia, Susana P. Alves, Susana I.V. Martins, **Ana S.H. Costa**, Carlos M.G.A. Fontes, José P.C. Lemos, Rui J.B. Bessa, José A.M. Prates. Effect of the feeding system on intramuscular fatty acids and conjugated linoleic acid isomers of beef cattle, with emphasis on their nutritional value and discriminatory ability. *Food Chemistry*, 2009, doi: 10.1016/j.foodchem.2008.10.041
4. Rosário P. Roberto da Costa, **Ana S. Costa**, Anna J. Korzekwa, Rafal Platek, Marta Siemieniuch, António Galvão, Dale A. Redmer, José Robalo Silva, Dariusz J. Skarzynski, Graça Ferreira-Dias. Actions of a nitric oxide donor on prostaglandin production and angiogenic activity in the equine endometrium. *Reproduction, Fertility and Development*, 2008, doi: 10.1071/RD08015
3. Ferreira-Dias G., Mateus L., **Costa A.S.**, Solá S., Ramalho R.M., Castro R.E., Rodrigues C.M.P. Progesterone and caspase-3 activation in equine cyclic corpora lutea. *Reproduction in Domestic Animals*, 2007, doi: 10.1111/j.1439-0531.2006.00795.x
2. Ferreira-Dias G., **Costa A.S.**, Mateus L., Korzekwa A., Redmer D.A., Skarzynski D.J. Proliferative processes within the equine corpus luteum may depend on paracrine progesterone actions. *Journal of Physiology and Pharmacology*, 2006, PMID: 17242479
1. **Costa, A.S.**, Mateus, L., Redmer D., Skarzynski, D.J., Ferreira-Dias, G. Is progesterone a paracrine regulator of endothelial cell proliferation in equine corpora lutea? *Reproduction in Domestic Animals*, 2006, doi: 10.1111/j.1439-0531.2006.00728_3.x

Protocols by Ana S. H. Costa

1. Koziol MJ, Bradshaw CR, Allen GE, Costa ASH, Frezza C. Identification of methylated deoxyadenosines by DNA immunoprecipitation. *Bio-Protocol*, 2016

Oral Communications

6. **Costa, A.S.H.**, Bessa, R.J.B., Alfaia, C.P.M., Pires, V.M.R., Fontes, C.M.G.A., Prates, J.A.M. Effect of breed and diet on beef cattle fatty acid profile and SCD mRNA expression. 63rd Annual Meeting of the European Association for Animal Production - August 27th – 31st 2012, Bratislava, Slovakia

5. **Costa, A.S.H.**, Costa, P., Bessa, R.J.B., Lemos, J.P.C., Simões, J.A., Santos-Silva, J., Fontes, C.M.G.A., Prates, J.A.M. Productive and carcass traits of Alentejana and Barrosã bulls fed high or low silage diets. 63rd Annual Meeting of the European Association for Animal Production - August 27th – 31st 2012, Bratislava, Slovakia

4. Lopes, P.A.; Costa, P.; Pires, V.; Madeira, M.S.; Acheva, F.; **Costa, A.S.H.**; Prates, J.A.M. Assessing fat deposition between subcutaneous fat tissue and muscle in lean and obese pigs fed on reduced protein diets. 10th Euro Fed Lipid Congress, Cracow, Poland, 23th – 26th September 2012

3. **Ana S. H. Costa**, Paula A. Lopes, Marta Estevão, Susana V. Martins, Susana P. Alves, Rui M. A. Pinto, Hugo Pissarra, Jorge J. Correia, Mário Pinho, Carlos M.G.A. Fontes, José A.M. Prates. Differential cellularity and fatty acid profile in subcutaneous and mesenteric fat depots from Portuguese bovine breeds. 57th International Congress of Meat Science and Technology, Ghent, Belgium, 7th – 12th August 2011

2. R.P. Roberto da Costa, **A.S. Costa**, A. Korzewka, R. Platek, D.A. Redmer, D.J. Skarzynski, G. Ferreira-Dias, 2007. Effect of TNF α on prostaglandin F_{2 α} and E₂ release and

endothelial cell proliferation by equine endometria. 4th International Expert Workshop on Equine Reproductive Medicine - the barren mare, Leipzig, Germany, 22nd – 25th November 2007

1. G. Ferreira-Dias, **A. S. Costa**, L. Mateus, D.A. Redmer, D.J. Skarzynski. Proliferative processes within equine corpus luteum may depend on paracrine actions. XXI Congress of the Polish Physiological Society "Physiology without limits", Department of Physiological Sciences, Warsaw Agricultural University, Warsaw, Poland 14th – 16th September 2006

Poster Communications

9. Pestana, J.M., **Costa, A.S.H.**, Martins, S.V., Alfaia, C.M., Alves, S.P., Lopes, P.A., Bessa, R.J.B., Prates, J.A.M. Lipid composition and nutritional quality of intramuscular fat in organic beef. XI Congresso de Nutrição e Alimentação, Oporto, Portugal, 24th – 25th May 2012.

8. **Ana S.H. Costa**, Paulo Costa, Cristina M. Alfaia, Paula A. Lopes, José Pedro C. Lemos, José A. M. Prates. Meat quality and sensory attributes of two Portuguese bovine breeds, Alentejana and Barrosã, under distinct feeding regimens. 57th International Congress of Meat Science and Technology, Ghent, Belgium, 7th – 12th August 2011.

7. Virgínia M.R. Pires, **Ana S.H. Costa**, Carlos M.G.A. Fontes, José A. M. Prates. Expression of SCD and LPL genes and fatty acid composition in subcutaneous adipose tissue of two portuguese cattle breeds. International Congress of Meat Science and Technology, Ghent, Belgium, 7th – 12th August 2011.

6. Paula A. Lopes, Ana P. Martins, **Ana S.H. Costa**, Susana V. Martins, Nuno C. Santos, José A. M. Prates, Teresa F. Moura, Graça Soveral. Contrasting mesenteric fat deposition in bovines fed on silage or concentrate is independent of membrane permeability to glycerol. . 9th Euro Fed Lipid Congress. Rotterdam, Netherlands, 18th – 21st September 2011.

5. José M. Pestana, **Ana S.H. Costa**, Eliana Jerónimo, Cristina M. M. Alfaia, Mafalda M. Nascimento, Paulo Costa, Paula A. Lopes, José A. M. Prates, José Santos-Silva, Rui J. B. Bessa. Effect of propylene glycol and linseed oil supplementation on intramuscular fatty acids of lamb meat. International Conference on Food Innovation, FoodInnova. Valencia, Spain, 25th – 29th October, 2010.

4. Marta S. Madeira, Cristina M. Alfaia, **Ana S.H. Costa**, Rui J. B. Bessa, José A. M. Prates. Contents of total cholesterol and lipid-soluble antioxidant vitamins in edible swine by-products. 8th Euro Fed Lipid Congress. Munich, Germany, 21st – 24th November 2010.

3. José M. Pestana, Susana I.V. Martins, Cristina M.M. Alfaia, Paula A. Lopes, **Ana S.H. Costa**, Matilde L.F. Castro, Rui J.B. Bessa, José A.M. Prates, 2009. Fatty acid composition and related nutritional indexes of commercial Azorean butters. 9th Meeting of Food Chemistry, Angra do Heroísmo, Terceira, Azores, 29th April – 2nd May 2009

2. **A.S. Costa**, L. Mateus, D.A. Redmer, D.J. Skarzynski, G. Ferreira-Dias, 2006. Effects of TNF and nitric oxide donor on equine luteal production of factor(s) that stimulate endothelial cell proliferation. 10th Jubilee Conference of European Society for Domestic Animal Reproduction, Portoroz-Lipica, Slovenia, 7th – 9th September 2006

1. **A.S. Costa**, L. Mateus, D.A. Redmer, D.J. Skarzynski, G. Ferreira-Dias, 2006. Is progesterone a paracrine regulator of endothelial cell proliferation in equine corpora lutea? 10th Jubilee Conference of European Society for Domestic Animal Reproduction, Portoroz-Lipica, Slovenia, 7th – 9th September 2006