

1. GENERAL INFORMATION**Personal**

Born 25 April 1962 in Reykjavík, Iceland. Lived in Iceland (1962-68 and 1977-82), Sweden (1968-77), USA (1982-86) and has lived in Portugal since 1986. Also lived for shorter periods in The Netherlands, New Zealand, Fiji, Brazil, Guiné-Bissau, São Tomé and Príncipe, France and Mozambique. Portuguese and Icelandic nationalities. Married with two children.

Academic qualifications

- Concluded Secondary Education “STÚDENTSPRÓF” with emphasis on Biological Studies in Menntaskólinn við Hamrahlíð, Reykjavík, Iceland in May 1982.
- Concluded “BACHELOR OF SCIENCE” in Biology at the University of Kansas, Lawrence, USA, with “honors” and “highest distinction” in August 1985.
- Concluded a PHD in Developmental Biology at the University of Utrecht, The Netherlands in October 1995.
- Concluded “AGREGAÇÃO” in Animal Biology at the University of Lisbon in January 2008.

Present professional situation

- Associate Professor in the Department of Animal Biology, Faculty of Sciences, University of Lisbon.
- Full member of the Centre for Ecology, Evolution and Environmental Change, Faculty of Sciences, University of Lisbon (since 1994). Group leader of the “Development and Evolutionary Morphogenesis” research group. Website: <https://sites.google.com/site/cbateam2/>
- Non-resident investigator at the Gulbenkian Institute of Science (since 1999).

Institutional address

Departamento de Biologia Animal
Faculdade de Ciências da Universidade de Lisboa
1749-016 Lisboa, Portugal
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2. RECENT ADMINISTRATIVE/ACADEMIC/SCIENTIFIC ACTIVITIES

- Coordinator of the “Development and Evolutionary Morphogenesis” group of the Centre of Ecology, Evolution and Environmental Change (2009-present).
- Member of coordination commission of the Biology degree (2018-present).
- Coordinator or co-coordinator of the Masters programme in Evolutionary and Developmental Biology (2006-07, 2010-2012, 2015-2018).
- President of the Portuguese Society for Developmental Biology (www.spbd.pt) (2013-2015) and vice-president (2011-2013). Currently in the Communication Committee of SPBD.
- Member of the Board of Directors of the International Society of Differentiation (www.isdifferentiation.org) (2010-2015)

3. TEACHING AND ADVISING ACTIVITIES

Teaching

Has in the past taught courses such as **ANIMAL BIOLOGY, ANIMAL PHYSIOLOGY, HISTOLOGY AND EMBRYOLOGY, EMBRYOLOGY, ORGANISMAL BIOLOGY AND DEVELOPMENTAL BIOLOGY.**

Presently teaches the course **DEVELOPMENTAL BIOLOGY** for 3rd year Biology students (about 80 students), the course **GENES AND MOLECULES IN DEVELOPMENT** which includes a 6 week practical research project, for 1st year Masters students in the Masters of Evolutionary and Developmental Biology (20 students), is co-responsible for the courses **PROJECT** (planning a Masters project) for 2nd year Masters students in the Masters of Evolutionary and Developmental Biology (20 students) and teaches the module "Differentiation and morphogenesis" in the PhD programme Biological Systems - Functional & Integrative Genomics (BioSys, FCUL).

Academic advisor

UNDERGRADUATE THESES

- **Marta Luz.** (2001/2002) "CELL MIGRATION DURING MYOTOME FORMATION IN THE MOUSE".
- **Lara Carvalho.** (2001/2002) "THE ROLE OF FIBRONECTIN DURING SOMITOGENESIS IN THE CHICK EMBRYO". Co-advisor: Isabel Palmeirim.
- **Carlos Silva Pereira.** (2002/2003) " β 1 INTEGRINS DURING PRIMARY MYOGENESIS IN THE MOUSE".
- **Pedro Rifes.** (2003/2004) "POSSIBLE INTERACTIONS BETWEEN FIBRONECTIN AND THE MOLECULAR CLOCK DURING SOMITOGENESIS IN THE CHICK EMBRYO". Co-advisor: Isabel Palmeirim.
- **Pedro Campinho.** (2004/2005) "CELL-MATRIX INTERACTIONS DURING SOMITOGENESIS IN THE CHICK EMBRYO".

MASTERS THESES

- **Luís Marques** (2006/2008) "THE ROLE OF THE PI3K/AKT SIGNALLING PATHWAY IN EPAXIAL MYOTOME FORMATION IN THE MOUSE"
- **Ana Rita Amândio** (2007/2008) "MORPHODYNAMICS OF SOMITE EPITHELIALISATION IN CHICK EMBRYOS". Co-advisor: Gabriel G. Martins.
- **António Temudo** (2007/2008) "MECHANICS AND MECHANISMS DURING VERTEBRATE SOMITOGENESIS". Co-advisor: Gabriel G. Martins.
- **Magnus Val-Flores** (2007/2008) "FUNCTION OF CHONDROITIN SULPHATE PROTEOGLYCANS DURING MESODERM MORPHOGENESIS".
- **Tomás Pais de Azevedo** (2008/2009) "DYNAMICS OF EMBRYO AXIS ELONGATION IN AMNIOTES VS. ANAMNIOTES: THE ROLE OF THE NOTOCHORD". Co-advisor: Gabriel G. Martins.
- **Ana Lina Rodrigues Cabral** (2008/2009) "THE ROLE OF FIBRONECTIN IN MESODERM SEGMENTATION IN THE CHICK EMBRYO. Co-advisor: Isabel Palmeirim.
- **André Gonçalves** (2010/2011) "CELL-EXTRACELLULAR MATRIX INTERACTIONS DURING EPAXIAL MYOCYTE TRANSLOCATION IN THE MOUSE EMBRYO". Co-advisor: Marianne Deries.
- **Patrícia Gomes Almeida** (2010/2011) "THE ROLE OF THE EXTRACELLULAR MATRIX IN THE PATTERNING AND MORPHOGENESIS OF THE SCLEROTOME".
- **Gonçalo Pinheiro** (2013/2014) "SOMITOGENESIS AND FIBRONECTIN: UNITED BY TENSION?".
- **Inês Antunes** (2016/2017) "THE FOETAL MUSCLE ENVIRONMENT: WHY ARE LAMININS NOT ALL EQUAL?". Co-advisor: Andreia Nunes.
- **Ricardo Andrade** (2017/2018) "CARACTERIZAÇÃO DA MIOGÉNESE FETAL EM RATINHOS MODELO DA DISTROFIA MUSCULAR LAMININA 211-DEFICIENTE."

- **Bárbara Caldeira Ruivo** (2018/2019) “DEVELOPMENTAL POTENTIAL OF LAMININ 211-DEFICIENT MUSCLE STEM CELLS ON THEIR NATIVE MYOFIBRES.” (Ongoing).

PHD THESES

- **Ana Sofia Cachaço** (PRAXIS XXI/BD/18152/98) “ β 1 INTEGRINS DURING SKELETAL MUSCLE DEVELOPMENT IN THE MOUSE EMBRYO (*MUS MUSCULUS*)”. Co-advisor: Eduardo G. Crespo. University of Lisbon, 2005.
- **Fernanda Bajanca** (SFRH/BD/1359/2000) “INTEGRIN-EXTRACELLULAR MATRIX INTERACTIONS DURING EARLY SKELETAL MUSCLE DEVELOPMENT IN THE MOUSE EMBRYO (*MUS MUSCULUS*)”. Co-advisor: Eduardo G. Crespo. University of Lisbon, 2006.
- **Pedro Rifes** (SFRH/BD/37423/2007) “FIBRONECTIN CUES DURING SOMITE FORMATION”. Co-advisor: Isabel Palmeirim. University of Lisbon, 2013.
- **Andreia Marcelino Nunes** (SFRH/BD/86985/2012) “CHANGING LAMININ NICHES IN SKELETAL MUSCLE: DISSECTING THEIR ROLE IN DEVELOPMENT AND DISEASE”. Co-advisor: Marianne Deries. University of Lisbon, 2017.
- **Luís Marques** (SFRH/BD/42584/2007) “INTRACELLULAR SIGNALING DOWNSTREAM OF INTEGRINS IN EARLY MOUSE MYOGENESIS”. Ongoing (started in 2009).
- **Patrícia Gomes de Almeida** (SFRH/BD/86980/2012). “NOVEL DYNAMICS AND FUNCTIONS OF FIBRONECTIN IN EARLY VERTEBRATE DEVELOPMENT”. Co-advisors: Raquel P. Andrade and Isabel Palmeirim (Univ. Algarve). University of Lisbon, 2019.
- **André Brás Gonçalves** (SFRH/BD/90827/2012). “CROSSTALK BETWEEN THE MYOTOME AND MUSCLE STEM CELLS DURING THE DEVELOPMENT OF THE SKELETAL MUSCLES OF THE BACK.” Co-advisor: Marianne Deries. University of Lisbon, 2019.

POST-DOCTORAL FELLOWS

- **Gabriel G. Martins** (SFRH/BPD/18907/2004) “CELL DYNAMICS DURING CHICK SOMITOGENESIS: THE ROLE OF FIBRONECTIN AND SMALL GTPASES”. Co-advisor with Isabel Palmeirim, University of Minho, Portugal. (2004-2007)
- **Marianne Deries** (SFRH/BPD/65370/2009) “AXIAL MUSCLE MORPHOGENESIS OF MOUSE EMBRYOS”. (2010-2016).
- **Antonio Cordero** (AFM-Téléthon Postdoctoral fellowship n°21920) “DYSTRO-NET: A NETWORK-BASED APPROACH TOWARDS ILLUMINATING THE GENE REGULATORY LANDSCAPE OF MDC1A”. (2018)

RECENT RESEARCH GRANT HOLDERS (WITHIN PROJECTS FROM 2010 TO PRESENT)

- **Inês Antunes** (technician grant within project AFM-Téléthon contract n° 19959) “UNDERSTANDING THE DEVELOPMENTAL ONSET OF MUSCULAR DYSTROPHY IN A MOUSE MODEL OF MDC1A”. (2018).
- **Andreia Marcelino Nunes** (research grant within project PTDC/SAU-ORG/118297/2010). “MATRICARD - DISSECTION AND RECONSTRUCTION OF THE EXTRACELLULAR MATRIX: A CARDIAC REGENERATIVE NICHE.” Co-advisor: Marianne Deries. (2012-2013).
- **André Brás Gonçalves** (research grant within project PTDC/SAU-BID/120130/2010). “THE LAMININ MATRICES OF EARLY SKELETAL MUSCLE DEVELOPMENT: A CHANGING TISSUE MICROENVIRONMENT REGULATING MYOGENIC DIFFERENTIATION AND MORPHOGENESIS”. Co-advisor: Marianne Deries. (2012-2013).
- **Patrícia Gomes de Almeida** (research grant within project PTDC/SAU-OBID/103771/2008). “CHANGING EXTRACELLULAR MATRIX NETWORKS AS REGULATORS OF TRANSITIONS BETWEEN EPITHELIAL AND MESENCHYMAL FATES DURING EMBRYOGENESIS”. (2012-2013).

- **Gonçalo Pinheiro (research grant within project PTDC/SAU-BID/120130/2010).** “THE LAMININ MATRICES OF EARLY SKELETAL MUSCLE DEVELOPMENT: A CHANGING TISSUE MICROENVIRONMENT REGULATING MYOGENIC DIFFERENTIATION AND MORPHOGENESIS”. (2015).

4. EXTERNALLY FUNDED RESEARCH PROJECTS

AS PRINCIPAL INVESTIGATOR

- PRAXIS XXI/PCNA/P/BIA/131/96 (FCT, Portugal) “*Transforming growth factors β (TGF β s) and integrins during skeletal and cardiac muscle development in the mouse*”. 1998-2001.
- POCTI/BCI/40754/2001 (FCT, Portugal). “*Extracellular matrix and somitogenesis: causes and consequences*”. 2002-2004.
- POCTI/BCI/47681/2002 (FCT, Portugal). “*Mouse myotome formation; cell movements and cell-extracellular matrix interactions*”. 2003-2005.
- POCI-PPCDT/BIA-BCM/59201/2004 (FCT, Portugal). “*Integrating signals in morphogenesis; the case of somitogenesis in the chick embryo*”. 2005-2008.
- PTDC/BIA-BCM/67437/2006 (FCT, Portugal). “*More than putting cells into place during development: cell-extracellular matrix interactions in myogenesis*”. 2008-2010.
- PTDC/SAU-OBID/103771/2008 (FCT, Portugal). “*Changing extracellular matrix networks as regulators of transitions between epithelial and mesenchymal fates during embryogenesis*”. 2010-2013.
- PTDC/SAU-BID/120130/2010 (FCT, Portugal). “*The laminin matrices of early skeletal muscle development: a changing tissue microenvironment regulating myogenic differentiation and morphogenesis*”. 2012-2015.
- AFM Téléthron (Association Française contre les Myopathies) contract n° 19959. “*Understanding the developmental onset of muscular dystrophy in a mouse model of MDC1A*.” 2016-2019.

AS TEAM MEMBER

- STRIDE/C/CEN/527/92 (JNICT, Portugal) “*Distribution and function of the $\alpha 6 \beta 1$ integrin during mouse embryonic development*”. Principal investigator: Eduardo G. Crespo. 1993-94.
- PRAXIS XXI/2/2.1/BIA/149/94 (JNICT, Portugal) “*Conservation genetics of endemic species of lower vertebrates*”. Principal investigator: Eduardo G. Crespo. 1995-98.
- POCTI/BCI/42040/2001 (FCT, Portugal). “*New aspects in the developmental coordination of limb development*” Principal investigator: Isabel Palmeirim. 2003-2007.
- PTDC/SAU-BEB/101235/2008 (FCT, Portugal). “*BIOMATRIX - Multifunctional extra-cellular matrix-analogues as biomaterials for bone regeneration*”. Principal investigator: Cristina Barrias (INEB, Porto). 2010-2013.
- PTDC/SAU-ORG/118297/2010 (FCT, Portugal). “*MatriCard - Dissection and reconstruction of the extracellular matrix: A cardiac regenerative niche*”. Principal investigator: Perpetua do Ó (INEB, Porto). 2012-2015.

PARTICIPATION IN NATIONAL NETWORK

- PPBI - Portuguese Platform of BioImaging (ROTEIRO/0076/2013) FCT National Roadmap of Research Infrastructures of Strategic Relevance. Coordination of FCUL node: Rui Malhó. Platform coordinator: Paula Sampaio Fonseca (IBMC-i3S, Porto). 2017-2020.

PARTICIPATION IN EUROPEAN NETWORK

- Member of the Network of Excellence “CELLS INTO ORGANS” (FP6) and co-coordinator of “WORKPACKAGE 7 – SOMITOGENESIS” (with I. Palmeirim). Network coordinator; Tony Durston, University of Leiden, The Netherlands. 2004-2009.
- Delegate of the COST Action CA15214 “AN INTEGRATIVE ACTION FOR MULTIDISCIPLINARY STUDIES ON CELLULAR STRUCTURAL NETWORKS” (H2020). Chair of the Action: Pavel Hozák, Institute of Molecular Genetics, Prague, Czech Republic. 2016-2020.

5. EDITORIAL/REVIEWER ACTIVITIES

- “Guest Editor”, with Fernanda Bajanca (“Leading Guest Editor”), Eric Theveneau and Dominique Alfandari of *Developmental Biology Special Issue on “Mechanisms of Cell Adhesion in Development”* (<http://www.sciencedirect.com/science/journal/00121606/401/1>) 2015.
- Reviewer for the following journals: *Development* (2006, 2009, 2010, 2016), *Developmental Dynamics* (2005, 2013), *International Journal of Developmental Biology* (2006, 2007, 2010), *Biology of the Cell* (2007), *Experimental Cell Research* (2008), *Gene Expression Patterns* (2013), *PLoS One* (2013, 2015), *Cell and Tissue Research* (2016), *Journal of Visualized Experiments* (2015, 2016) and *Frontiers in Cell and Developmental Biology* (2017).

6. CONFERENCES IN CONGRESSES/WORKSHOPS

AS INVITED SPEAKER (SINCE 2012):

“Extracellular matrix organization and remodeling during axial muscle development in the mouse.” *Myomatrix 2012: Where muscle meets the extracellular matrix*. University of Nevada School of Medicine, Reno, USA, 23 April 2012.

“Extracellular matrix organization and remodelling during axial muscle development in the mouse embryo”. *International Society of Differentiation Conference: Stem Cells, Development and Regulation*. Amsterdam, The Netherlands, 6 November 2012.

“Cell-cell and cell-matrix communication events shape epaxial skeletal muscle development – a story of laminins”. *XX SEBD Meeting jointly with SPBD*, Madrid, Spain. 13 October 2014.

“What can embryonic development tell us about disease mechanisms? The case of skeletal muscle.” *Encontro Scientia*, FCUL, 19 november 2015.

“From development to disease: towards understanding the onset of congenital muscular dystrophy”. *BioSys/BioISI Research Seminar*, FCUL, 1 June 2017.

“From development to disease: towards understanding the onset of congenital muscular dystrophy.” Universidade do Algarve, Faro, 8 February 2018.

“Laminin niches in skeletal muscle development and disease.” *SPBD Development in Action (DiA) Meeting*, Universidade do Algarve, Faro, 22 June 2018.

“Somite formation: critical observations in the chick embryo”, Mini-symposium on *Physical Aspects of Embryonic Development*, University of Amsterdam Medical Centers, Amsterdam, 23 October 2018.

Has also co-authored 4 oral communications and more than 30 posters presented at various meetings since 2012.

7. PUBLICATIONS

BOOK CHAPTERS:

CHUVA DE SOUSA LOPES S.M., MUMMERY C.L. & THORSTEINSDÓTTIR S. (2006) Implantation and placentation. In "Cell signalling and growth factors in development: from molecules to organogenesis" pp. 73-105. (Unsicker K. & Kriegstein K., eds.), Wiley-VCH Publishers, Weinheim (ISBN 3-527-31034-7).

MARTINS G.G., RIFES P., AMÂNDIO R., CAMPINHO P., PALMEIRIM I. & THORSTEINSDÓTTIR S. (2007) 3D visualization and analysis of cell-matrix transformations in whole-mount and live embryos using confocal and multi-photon microscopy. pp. 426-433. In A. Méndez-Vilas, J. Díaz (Eds.) *Modern Research and Educational Topics in Microscopy*. Microscopy Series nº 3, Vol. 1. Formatex, Badajoz, Spain. (ISBN-13:978-84-611-9419-3).

DERIES M*, GONÇALVES A.B.* & THORSTEINSDÓTTIR S. (*in press*). Skeletal muscle development - from stem cells to body movement. In G. Rodrigues & B.A.J. Roelen (Eds). *Springer Learning Series: "Concepts and Applications of Stem Cell Biology: a Guide for Students"*. (*equal contribution)

ARTICLES:

THORSTEINSDÓTTIR S. & FROST S.K. (1986) Pigment cell differentiation: The relationship between pterin content, allopurinol treatment and the melanoid gene in the axolotl. *Cell Differentiation*, 19:161-172

FROST S.K., BORCHERT M.E. & THORSTEINSDÓTTIR S. (1986) A rapid and sensitive TLC assay procedure for measuring xanthine dehydrogenase activity from tissue extracts. *Journal of Chromatography*, 382:314-320.

FROST S.K., ROBINSON S.J., CARSON M.K., THORSTEINSDÓTTIR S. & GIESLER J. (1987) Effects of exogenous guanosine on chromatophore differentiation in the axolotl. *Pigment Cell Research*, 1:37-43.

CIDADÃO A.J., THORSTEINSDÓTTIR S. & DAVID-FERREIRA J.F. (1988) Immunocytochemical study of fibronectin distribution in tissues: A re-evaluation of fibronectin-collagen interactions. *Journal of Histochemistry and Cytochemistry*, 36:639-648.

CIDADÃO A.J., THORSTEINSDÓTTIR S. & DAVID-FERREIRA J.F. (1990) Immunocytochemical study of tissue distribution and hormonal control of chondroitin-, dermatan- and keratan sulfates from rodent uterus. *EUROPEAN JOURNAL OF CELL BIOLOGY*, 52:105-116.

THORSTEINSDÓTTIR S. (1992) Basement membrane and fibronectin matrix are distinct entities in the developing mouse blastocyst. *Anatomical Record*, 232:141-149.

HIERCK B., THORSTEINSDÓTTIR S., NIESSEN C., FREUND E., IPEREN L., FEYEN A., HOGERVORST F., POELMANN R., MUMMERY C.L. & SONNENBERG A. (1993) Variants of the $\alpha 6 \beta 1$ laminin receptor in early murine development: distribution, molecular cloning and chromosomal localization of the mouse integrin $\alpha 6$ subunit. *Cell Adhesion and Communication*, 1:33-53.

THORSTEINSDÓTTIR S., ROELEN B.A.J., FREUND E., GASPAR A.C., SONNENBERG A. & MUMMERY C.L. (1995) Expression patterns of laminin receptor splice variants $\alpha 6 A \beta 1$ and $\alpha 6 B \beta 1$ suggests different roles in mouse development. *Developmental Dynamics*, 204:240-258.

van der Flier A., Gaspar A.C., Thorsteinsdóttir S., Baudoin C., Groeneveld E., Mummery C.L. & Sonnenberg A. (1997) Spatial and temporal expression of the $\beta 1 D$ integrin during mouse development. *Developmental Dynamics*, 210:472-486.

THORSTEINSDÓTTIR S., ROELEN B.A.J., GOUMANS M.-J., WARD-VAN OOSTWAARD D., GASPAR A.C. & MUMMERY C.L. (1999) Expression of the $\alpha 6 A$ integrin splice variant in developing mouse embryonic stem cell aggregates and correlation with cardiac muscle differentiation. *Differentiation*, 64:173-184.

VAN DER NEUT R., CACHAÇO A.S., THORSTEINSDÓTTIR S., JANSSEN H., PRINS D., BULTHUIS J., VAN DER VALK M., CALAFAT J. & SONNENBERG A. (1999) Rescue of epithelial phenotype in integrin $\beta 4$ null mice by a keratin-5 promoter driven human integrin $\beta 4$ transgene. *Journal of Cell Science*, 112:3911-3922.

- VENTERS S., THORSTEINSDÓTTIR S. & DUXSON M.J. (1999) Early development of the myotome in the mouse. *Developmental Dynamics*, 216:219-232.
- BAJANCA F. & THORSTEINSDÓTTIR S. (2002) Integrin expression patterns during early limb muscle development in the mouse. *Mechanisms of Development*, 119(suppl 1): S131-S134.
- CACHAÇO A.S., CHUVA DE SOUSA LOPES S.M., KUIKMAN I., BAJANCA F., ABE K., BAUDOIN C., SONNENBERG A., MUMMERY C.L. & THORSTEINSDÓTTIR S. (2003) Knock-in of integrin $\beta 1D$ affects primary but not secondary myogenesis in mice. *Development* 130:1659-1671.
- BAJANCA F., LUZ M., DUXSON M.J. & THORSTEINSDÓTTIR S. (2004) Integrins in the mouse myotome: developmental changes and differences between the epaxial and hypaxial lineage. *Developmental Dynamics* 231:402-415.
- CACHAÇO A.S., PEREIRA C.S., PARDAL R.G., BAJANCA F. & THORSTEINSDÓTTIR S. (2005) The integrin repertoire on myogenic cells changes during the course of primary myogenesis in the mouse. *Developmental Dynamics* 232:1069-1078.
- BAJANCA F., LUZ M., RAYMOND K., MARTINS G.G., SONNENBERG A., TAJBAKHSH S., BUCKINGHAM M. & THORSTEINSDÓTTIR S. (2006) Integrin $\alpha 6\beta 1$ -laminin interactions regulate early myotome formation in the mouse embryo. *Development* 133:1635-1644.
- PASCOAL S., CARVALHO C., RODRIGUEZ-LEÓN J., DELPHINI M.C., DUPREZ D., THORSTEINSDÓTTIR S. & PALMEIRIM I. (2007) A molecular clock operates during chick autopod proximal-distal outgrowth. *Journal of Molecular Biology* 368:303-309.
- RIFES P.*, CARVALHO L.*, LOPES C. ANDRADE R., RODRIGUES G., PALMEIRIM I. & THORSTEINSDÓTTIR S. (2007) Redefining the role of ectoderm in somitogenesis: a player in the formation of the fibronectin matrix of presomitic mesoderm. *Development* 134:3155-3165. (*equal contribution)
- PALMEIRIM J.M., CHAMPION A., NAIKATINI A., NIUKULA J., TUIWAWA M., FISHER M., YABAKI-GOUNDER M., THORSTEINSDÓTTIR S., QALOVAKI S. & DUNN T. (2007) Distribution, status, and conservation of bats in the Fiji Islands. *Oryx* 41:1-11
- PALA I., KLÜVER N., THORSTEINSDÓTTIR S., SCHARTL M. & COELHO M.M. (2008) Expression pattern of anti-Müllerian hormone (*amh*) in the hybrid fish complex of *Squalius alburnoides*. *Gene* 410:249-258.
- PALA I., SCHARTL M., THORSTEINSDÓTTIR S. & COELHO M.M. (2009) Sex determination in the *Squalius alburnoides* complex: an initial characterization of sex cascade elements in the context of a hybrid polyploid genome. *PLoS One* 4(7):e6401.
- ANDERSON C., THORSTEINSDÓTTIR S. & BORYCKI A.-G. (2009) Sonic hedgehog-dependent synthesis of Laminin $\alpha 1$ controls basement membrane assembly in the myotome. *Development* 136: 3495-3504.
- FOURNIER-THIBAUT C., BLAVET C., JAROV A., BAJANCA F., THORSTEINSDÓTTIR S. & DUBAND J.-L. (2009) Sonic hedgehog regulates integrin activity, cadherin contacts and cell polarity to orchestrate neural tube morphogenesis. *Journal of Neuroscience* 29:12506-12520.
- MARTINS G.G., RIFES P., AMÂNDIO R., RODRIGUES G., PALMEIRIM I. & THORSTEINSDÓTTIR S. (2009) Dynamic 3D cell rearrangements guided by a fibronectin matrix underlie somitogenesis. *PLoS ONE* 4(10): e7429.
- THORSTEINSDÓTTIR S., RODRIGUES G. & CRESPO E.G. (2009) Teaching and research on Developmental Biology in Portugal. *International Journal of Developmental Biology* 53: 1235-1243.
- SATO T., ROCANCOURT D., MARQUES L., THORSTEINSDÓTTIR S. & BUCKINGHAM M. (2010) A Pax3/Dmrt2/Myf5 regulatory cascade functions at the onset myogenesis. *PLoS Genetics* 6(4): e1000897.
- THORSTEINSDÓTTIR S., DERIES M., CACHAÇO A.S. & BAJANCA F. (2011) The extracellular matrix dimension of skeletal muscle development. *Developmental Biology* 354: 191–207. Erratum in: *Dev Biol.* 62:114, 2012.

- DERIES M., GONÇALVES A.B.*, VAZ R.*, MARTINS G.G., RODRIGUES G. & THORSTEINSDÓTTIR S. (2012) Extracellular matrix remodelling accompanies axial muscle development and morphogenesis in the mouse. *Developmental Dynamics* 241:350–364. (*equal contribution)
- Vaz R., Martins G.G., Thorsteinsdóttir S. & Rodrigues G. (2012) Fibronectin promotes migration, alignment and fusion in an in vitro myoblast cell model. *Cell and Tissue Research* 348:569–578.
- RIFES P. & THORSTEINSDÓTTIR S. (2012) Extracellular matrix assembly and 3D organization during paraxial mesoderm development in the chick embryo. *Developmental Biology*, 368:370–381.
- RUTKOWSKI A., BONNEMANN C., BROWN S., THORSTEINSDÓTTIR S., DOMINOV J., RUEGG M.A., MATTER M.L., GUTTRIDGE D., CROSBIE-WATSON R.H., KARDON G., NAGARAJU K. & BURKIN D.J. (2013) Meeting report: Report on the Myomatrix Conference April 22–24, 2012, University of Nevada, Reno, Nevada, USA. *Neuromuscular Disorders*, 23:188–191.
- MARQUES L. & THORSTEINSDÓTTIR S. (2013) Dynamics of Akt activation during mouse embryo development: distinct subcellular patterns distinguish proliferating versus differentiating cells. *Differentiation*, 86:48–56.
- AZEVEDO A.R., PINHO M.J., SILVA J., SÁ R., THORSTEINSDÓTTIR S., BARROS A. & SOUSA M. (2014) Molecular cytogenetics of human single pronucleated zygotes. *Reproductive Sciences*, 21:1472–1482
- BAJANCA F., ALFANDARI D., THORSTEINSDÓTTIR S. & THÉVENEAU E. (2015) Editorial: Cell adhesion in development. *Developmental Biology* 401:1.
- DE MELO BERNARDO A., THORSTEINSDÓTTIR S. & MUMMERY C.L. (2015) Advantages of the avian model for human ovarian cancer (Review). *Molecular and Clinical Oncology* 3:1191–1198.
- GONÇALVES A.B., THORSTEINSDÓTTIR S. & DERIES M. (2016) Rapid and simple method for in vivo ex utero development of mouse embryo explants. *Differentiation* 91:57–67.
- GOMES DE ALMEIDA P., PINHEIRO G., NUNES A.M.*, GONÇALVES A.B.* & THORSTEINSDÓTTIR S. (2016) Fibronectin assembly during early embryo development: a versatile communication system between cells and tissues. *Developmental Dynamics* 245:520–535. (*equal contribution)
- SILVA A.C., RODRIGUES S.C., CALDEIRA J., NUNES A.M., SAMPAIO-PINTO V., RESENDE T.P., OLIVEIRA M.J., BARBOSA M.A., THORSTEINSDÓTTIR S., NASCIMENTO D.S. & PINTO-DO-Ó P. (2016) Three-dimensional scaffolds of fetal decellularized hearts exhibit enhanced potential to support cardiac cells in comparison to the adult. *Biomaterials*, 104:52–64.
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- NUNES A.M., WUEBBLES R.D., SARATHY A., FONTELONGA T.M., DERIES M., BURKIN D.J. & THORSTEINSDÓTTIR S. (2017) Impaired fetal muscle development and JAK-STAT activation mark disease onset and progression in a mouse model for merosin-deficient congenital muscular dystrophy. *Human Molecular Genetics*, 26(11): 2018–2033.
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8. LINKS AND METRICS

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h index = **18** (Web of Science)