

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
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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 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-OB/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 Téléthon (Association Française contre les Myopathies) contract n^o 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 $\alpha 6A\beta 1$ and $\alpha 6B\beta 1$ 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 $\beta 1D$ 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 $\alpha 6A$ 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 β 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., TAJBAKHS S., BUCKINGHAM M. & THORSTEINSDÓTTIR S. (2006) Integrin α 6 β 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 α 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.

DERIES M. & THORSTEINSDÓTTIR S. (2016) Axial and limb muscle development: dialogue with the neighbourhood. *Cellular and Molecular Life Sciences* 73:4415-4431.

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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