

PERSONAL DATA

- Birth place and date: Manresa (Spain). August 2nd 1967
- Current address: Fårhusvägen 23, 58666 Linköping, Sweden
- Marital status: Married. 3 children

ACADEMIC EDUCATION

- 09/85-07/90 B.Sc. Science (Biology) Universitat Autònoma de Barcelona (UAB)
- 01/91-02/95 Ph.D.Biology (Physiology) Universitat de Barcelona (UB)

SCIENTIFIC POSTS HOLD

(starting with most recent)

01/05-present. Docent. IFM. Linköpings Universitet, Sweden

08/02-01/05. Lektor (equivalent to Assistant Professor). IFM. Linköpings Universitet, Sweden

06/01-06/02. Profesor Auxiliar Convocado (equivalent to the level of Assistant Professor).

Fac.Ciências da Saude. Universidade da Beira Interior, Portugal

04/99-05/01. Postdoctoral Fellow of the Marie Curie TMR program of the European Union.

Department of Zoology. University of Göteborg, Sweden.

01/97-03/99. Postdoctoral Fellow of the Danish Research Council. Department of

Zoophysiology. University of Aarhus, Denmark.

08/96-12/96. Lecturer "Human Anatomy and Physiology". Department of Biological Sciences.

University of Nevada Las Vegas, USA.

04/95-07/96. Postdoctoral Fellow of the American Heart Association. Department of Biological

Sciences. University of Nevada Las Vegas, USA.

01/90-12/94. Predoctoral Fellow from the Spanish Science and Education Ministry (FPI

Program). Departament de Biologia Cel.lular i Fisiologia, Universitat Autònoma de Barcelona, Spain.

TEACHING AND PEDAGOGIC MERITS

1. Prizes and Honours

- Nomination to the Teacher of the Year Award of Linköpings Tekniska Högskola (2011). Nominated by the Mathematical and Natural Sciences Section of the Student Union.
- "Årets insats inom IT" price of the Linköpings Tekniska Högskola, Linköpings universitet, 2006
- LiTH High quality course from students evaluations (score >4.2 of 5): NBIC31 Zoophysiology (VT04, VT05 and VT06), NBIC35 Advanced Physiology (HT07, HT08, HT09), NBIC41 Problem based human and animal physiology (HT10, HT11, HT12), NBID21 Molecular Physiology (HT07, HT08, HT10), NBID24 Adaptation (HT07, HT08, HT10), NBID35 Immunological Techniques (VT12), NBIC49 Animal Function and Environmental Adaptation (HT14)

2. Formal pedagogic training

- Steg 3a course (Forskarhandledning) on graduate student supervision. CUL, LiU. 4 credits
- Course on active learning and medical curriculum development (10 h). UBI, Portugal.
- Course on evaluation techniques and docimology (3 h). UBI, Portugal.
- Course on methodology of innovative teaching (4 h). UBI, Portugal.
- Certificate of Pedagogic Aptitude. UAB, Spain. 160 h course that qualifies to work as a High School Teacher in Spain.
- Manager of free educational activities (200 h). Escola Mirall, Spain. Course that qualifies to manage educational outdoor activities with children in non-formal organizations (such as Scout groups and summer camps).
- Leader of free educational activities (100 h). Escola Mirall, Spain. Course that qualifies to guide small group activities with children in non-formal organizations (such as Scout groups and summer camps).

3. Courses Taught

- A full list of teaching duties at Linköpings universitet since the fall semester 2002 is compiled as an attachment (Appendix 1). As a summary:
- LiU Biology Bachelor Program. I have been responsible for two advanced physiology courses uninterruptedly since 2003 (over 400 teaching hours per year), contributed to the basic physiology course (50-100 teaching hours per year) and shorter contributions in other.
- LiU International Master Programs. Course responsible and teacher of three master programs: Applied Biology (2003-2007), Molecular Genetics and Physiology (2008-2013), Experimental and Medical Biosciences (2013-).
- "Cell Biology". UBI, Portugal. 1st year Medical Students. Objective Based Learning (OBL) in small groups (15 students). 64 h. Role as tutor and preparation of the self-learning materials.
- "Communication in Biomedicine". UBI, Portugal. 1st year Medical Students. Objective Based Learning Method (OBL). 12 h. Responsible of the module and tutor of the four groups and preparation of the self-learning materials.
- "Thermal acclimation in reptiles". University of Aarhus, Denmark. C-level course for Biology students. 32 h including lectures, laboratories and seminars. Taught together with Dr.Hans Malte (50% duties each)
- "Human Anatomy and Physiology. Parts I and II". University of Nevada Las Vegas, USA. Undergraduate course. 40 h. Responsible of the lecture part of the course and coordinator of the practical part of the course.

4. Publications related to teaching activities

ATJ02. P.Milberg, **J.Altimiras**, M.Amundin, K-O.Bergman, P.Jensen and D.Wahlström (2005). Precision i poängsättning av essäfrågor och examensarbeten: implikationer för betyg enligt ECTS. *CUL Rapport* 10:167-185.

ATJ01. M.Axelsson, **J.Altimiras** and K.Pitsillides (2002). TeleHeart. Using telemetry to teach about the function and control of the human heart - from face-to-face to distance education. *Bioscience Explained* 1(1):1-19.

5. Funded projects (in chronological order)

Minor Field Studies (2012-) for student research projects in Bolivia, India or Brazil. Funded by Internationella Programkontoret.

Linnaeus-Palme Teacher and Students Planning and Exchange Grants (2009-) for an educational exchange with Universidad Mayor de San Andrés in La Paz, Bolivia. Funded by Internationella Programkontoret and later by Universitets- och högskolerådet. IPK/2008:3253, 35 tkr. IPK/2009:3511 92tkr, IPK/2010:3794 235tkr, IPK/2011:3803 521tkr, UHR/2013:4167 172tkr.

LabPal a self-evaluation tool of practical laboratory skills in life sciences (2009). Pedagogiska UtvecklingsGruppen from LiTH. 128 tkr

Online Labs for distance education (2004). Funded by TekIT (LiU). 200 tkr

BIOHOPE. Hands on possibilities and experiences in biology Education. (2007-2008). Funded by Wallenberg Global Learning Network. In Consortium with Göteborgs Universitet and Stanford University. 1400 tkr. If interested, visit <http://biohope.stanford.edu/index.htm>

6. Other merits

- Coordinator of the expert committee for the merge of the International Master Programs Molecular Genetics and Physiology (LiTH) and Medical Biosciences (HU) that resulted in the International Master Program in Experimental and Medical Biosciences in 2013
- Linnaeus Exchange Teacher at Universidad Mayor de San Andrés (Bolivia) in November 2010 and March 2013
- Coordinator of the International Master Programme in Molecular Genetics and Physiology (LiU) 2007-08
- Linnaeus Exchange Teacher at Moi University (Kenya) in November 2004

- Interactive demonstration of Online Biolabs at Netlearning 2004 a conference about distance education at Blekinge Tekniska Högskola (May 2004)

RESEARCH SCIENTIFIC MERITS

1. Funding: long term research projects

Welfare of feed-restricted broiler breeders (2013). Funded by FORMAS. 4029 tkr. Dnr.221-2013-293. Beslutsdatum 2013-09-24.

Career Contract (2010). Support for research from LiU Universitet. 1100 tkr per year for 5 years

Strong Research Environment in Animal Welfare (2010). Funded by FORMAS. Co-applicant. Main Responsible: Prof.Linda Keeling (SLU)

Perinatal stress and animal welfare – behaviour, physiology, genomics (2009). Funded by FORMAS. 3600 tkr. Co-applicant. Main Applicant: Prof.Per Jensen

Co-evolution of thermoTRP channels and incubation physiology in birds (2008-2010). Funded by VR-NT. 1500 tkr. Dnr.2007-5707. Beslutsdatum 2007-11-13

Genetic trade-offs in growth selection programs. Physiological mechanisms of lowered cardiorespiratory performance in broilers (2005-07). Funded by FORMAS. 1800 tkr. Dnr.221-2004-1331. Beslutsdatum 2004-11-25

Genetic trade-offs in growth selection programs. Physiological mechanisms of lowered cardiorespiratory performance in broilers (2004). Funded by FORMAS. 270 tkr. Dnr.22.1/2003-0987. Beslutsdatum 2003-11-26

2. Scientific publishing and grant evaluation

- Associate Editor of the Comparative Biochemistry and Physiology A – Integrative and Molecular Physiology since 2014
- Reviewer of scientific Journals:
 - Routinely (>1 paper per year): Journal of experimental Biology, American Journal of Physiology, Comparative Biochemistry and Physiology
 - Occasional: Proceedings of the Royal Society B, Journal of Comparative Physiology B, Life Sciences, Journal of Fish Biology, Experimental Biology Online, High Altitude Medicine & Biology, Brain Research, Journal of Theoretical Biology, Australian Journal of Zoology, Physiological and Biochemical Zoology, Reproduction in Domestic Animals and Trends in Endocrinology and Metabolism
- Granting Agencies:
 - Yearly: Agència d'Avaluació de Universitats i Recerca de Catalunya (AGAUR)
 - Occasional: The Wellcome Trust (UK), the Council for the Earth and Life sciences of the Netherlands Organisation for Scientific Research (NOW), the National Science Foundation (USA)

3. Most relevant Scientific Publications

(starting with most recent)

4. Scientific Publications. Book chapters, review Articles, editorials and letters (REV)

(starting with most recent)

REV05. M.Elfwing, K.Lundengård and **J.Altimiras** (2011). Fetal development of baroreflex sensitivity: The chicken embryo as a case model. *Respiratory Physiology and Neurobiology* 178: 75-83.

REV04. **J.Altimiras**, D.Crossley II and E.Villamor (2009). Prenatal development of cardiovascular regulation in avian species. In "Cardio-respiratory control in vertebrates: comparative and evolutionary aspects". ISBN 978-3-540-93984-9. Edited by. S.C.Wood and M.L.Glass. Springer Dordrecht Heidelberg London New York. Pages 397-427.

REV03. **J.Altimiras** and P.Milberg (2005). Letter regarding article by Khan et al. "Predictive adaptive responses to maternal high-fat diet prevent endothelial dysfunction but not hypertension in adult rat offspring". *Circulation* 2005;e166.

REV02. **J.Altimiras** (1999). Understanding autonomic sympathovagal balance from short-term heart rate variations. Are we analyzing noise? *Comparative Biochemistry and Physiology*. - Part A: Physiology 124(4):447-460.

REV01. J.Altimiras, A.Aissaoui and L.Tort (1995). Is the short-term modulation of heart rate in teleost fish physiologically significance? Assessment by spectral analysis techniques *Braz.J.Med.Biol.Res.* 28: 1197-1206.

5. Scientific Publications. Articles in Refereed Journals (ARJ). 41 in total

(starting with most recent)

ARJ47. H.Österman, I.Lindgren, T.Lindström and **J.Altimiras** (2015). Chronic hypoxia during development does not trigger pathologic remodeling of the chicken embryonic heart but reduces cardiomyocyte number. *American Journal of Physiology R.* In press

ARJ46. B.Agnvall, R.Katajamaa, **J.Altimiras** and P.Jensen (2015). Is domestication driven by reduced fear of humans? Boldness, metabolism and serotonin levels in divergently selected Red Junglefowl (*Gallus gallus*). *Biology Letters* 11(9), 20150509. <http://doi.org/10.1098/rsbl.2015.0509>

ARJ45. C.Lindholm, A.Calais, J.Jönsson, N.Yngwe, E.Berndtson, E.Hult and **J.Altimiras** (2015). Slow and steady wins the race? No signs of reduced welfare in smaller broiler breeder hens at four weeks of age. *Animal Welfare.* In press

ARJ44. E.Nyman, I.Lindgren, W.Lövfors, K.Lundengård, I.Cervin, T.Arbring Sjöström, **J.Altimiras** and G.Cedersund (2015). Mathematical modeling improves EC50 estimations from classical dose-response curves. *FEBS Journal.* <http://doi.org/10.1111/febs.13194>

ARJ43. A-C.Svensson-Holm, I.Lindgren, H.Österman and **J.Altimiras** (2014). Thyroid hormone does not induce maturation of embryonic chicken cardiomyocytes *in vitro*. *Physiological Reports*, 2(12):e12182. Doi: 10.14814/phy2.12182

ARJ42. M.Elfwing, A.Fallahshahroudi, I.Lindgren, P.Jensen and **J.Altimiras** (2014). The strong selective sweep candidate gene ADRA2C does not explain domestication related changes in the stress response of chickens. *PLoS ONE* 9(8): e103218. Doi: 10.1371/journal.pone.0103218

ARJ41. I.Lindgren and **J.Altimiras** (2013). Prenatal hypoxia programs changes in b-adrenergic signaling and postnatal cardiac contractile dysfunction. *American Journal of Physiology* 305:R1093-R1101

ARJ40. C.E.Franklin, A.P.Farrell, **J.Altimiras** and M.Axelsson (2013). Thermal dependence of cardiac function in arctic fish: implications of a warming world. *Journal of experimental Biology* 216:4251-4255

ARJ39. A.P.Farrell, **J.Altimiras**, C.E.Franklin and M.Axelsson (2013). Niche expansion of the shorthorn sculpin (*Myoxocephalus Scorpius*) to Arctic waters is supported by a thermal independence of cardiac performance at low temperature. *Canadian Journal of Zoology* 91:573-580

ARJ38. D.A.Crossley and **J.Altimiras** (2012). Effect of selection for commercially productive traits on the plasticity of cardiovascular regulation in chicken breeds during embryonic development. *Poultry Science* 91:2628-2636

ARJ37. B.Bagatto, D.A.Crossley II, **J.Altimiras**, R.M.Elsey and J.W.Hicks (2012). Physiological variability in yearling alligators: clutch differences at rest and during activity. *Comparative Biochemistry and Physiology, Part A.* 162:44-50

ARJ36. I.Lindgren, D.A.Crossley II, E.Villamor and **J.Altimiras** (2011). Hypotension in the chronically hypoxic chicken embryo is related to the β -adrenergic response of chorioallantoic and femoral arteries and not to bradycardia. *American Journal of Physiology* 301(4):R1161-R1168

ARJ35. J.Eme, **J.Altimiras**, J.W.Hicks and D.A.Crossley II (2011). Hypoxic alligator embryos: chronic hypoxia, catecholamine levels and autonomic responses of in ovo alligators. *Comparative Biochemistry and Physiology, Part A.* 160:412-420

ARJ34. I.Lindgren and **J.Altimiras** (2011). Sensitivity of organ growth to chronically low oxygen levels during incubation in Red Junglefowl and domesticated chicken breeds. *Poultry Science* 90:126-135

ARJ33. I.Lindgren, B.Zoer, **J.Altimiras** and E.Villamor (2010). Reactivity of chicken chorioallantoic arteries, avian homologue of human fetoplacental arteries. *Journal of Physiology and Pharmacology* 61(5):619-628

ARJ32. I.Lindgren and **J.Altimiras** (2009). Chronic prenatal hypoxia sensitizes b-adrenoceptors in the embryonic heart but causes postnatal desensitization. *American Journal of Physiology. Regulatory, Integrative and Comparative Physiology* 297:R258-R264

- ARJ31.** J.Altimiras, G.Claireaux, E.Sandblom, A.P.Farrell, D.J.McKenzie and M.Axelsson (2008). Gastrointestinal blood flow and postprandial metabolism in swimming sea bass *Dicentrarchus labrax*. *Physiological and Biochemical Zoology* 81(5):663-672
- ARJ30.** A.Gräns and J.Altimiras (2007). Ontogeny of vocalizations and movements in response to cooling in chickens fetuses. *Physiology & Behavior* 91:229-239 (<http://dx.doi.org/10.1016/j.physbeh.2007.03.002>)
- ARJ29.** A.P.Farrell, M.Axelsson, J.Altimiras, E.Sandblom and G.Claireaux (2007). Maximum cardiac performance and adrenergic sensitivity of the sea bass *Dicentrarchus labrax* at high temperatures. *Journal of experimental Biology* 210:1216-1224
- ARJ28.** E.Sandblom, Anthony P.Farrell, J.Altimiras, M.Axelsson and G.Claireaux (2005). Cardiac preload and venous return in swimming sea bass (*Dicentrarchus labrax* L.). *Journal of experimental Biology* 208:1927-1935
- ARJ27.** D.A.Crossley II and J.Altimiras (2005). Cardiovascular development in embryos of the American alligator *Alligator mississippiensis*: effects of chronic and acute hypoxia. *Journal of experimental Biology* 208:31-39
- ARJ26.** J.Altimiras and M.Axelsson (2004). Intrinsic autoregulation of cardiac output in rainbow trout (*Oncorhynchus mykiss*) at different heart rates. *Journal of experimental Biology* 207:195-201
- ARJ25.** D.A.Crossley II, J.W.Hicks and J.Altimiras (2003). Ontogeny of baroreflex control in the American alligator *Alligator mississippiensis*. *Journal of experimental Biology* 206:2895-2902
- ARJ24.** T.Wang, J.Altimiras, W.Klein and M.Axelsson (2003). Ventricular hemodynamics in *Python molurus*: separation of pulmonary and systemic pressures. Cardiovascular regulation during hypoxia in embryos of the domestic chicken *Gallus gallus*. *Journal of experimental Biology* 206:4241-4245
- ARJ23.** D.A.Crossley II, W.W.Burggren and J.Altimiras (2003). Cardiovascular regulation during hypoxia in embryos of the domestic chicken *Gallus gallus*. *American Journal of Physiology* 284:R219-R226
- ARJ22.** J.Hansen, H.Gesser and J.Altimiras (2002). Mechanical efficiency of the heart during volume and pressure-loading. Metabolic implications of the stiffness of the ventricular tissue. *Journal of Comparative Physiology B* 172:477-484
- ARJ21.** M.Axelsson, J.Altimiras and G.Claireaux (2002). Post-prandial blood flow to the gastrointestinal tract is not compromised during hypoxia in the sea bass *Dicentrarchus labrax*. *Journal of experimental Biology* 205:2891-2896
- ARJ20.** T.Wang, J.Altimiras and M.Axelsson (2002). Intracardiac flow and pressure separation in the heart of the Burmese python *Python molurus*. *Journal of experimental Biology* 205:2715-2723
- ARJ19.** C.Mercier, M.Axelsson, N.Imbert, G.Claireaux, C.Lefrancois, J.Altimiras and A.P.Farrell (2002). *In vitro* cardiac performance in triploid brown trout (*Salmo trutta*) at two acclimation temperatures. *Journal of Fish Biology* 60(1):117-133
- ARJ18.** J.Altimiras, M.Axelsson, G.Claireaux, C.Lefrancois, C.Mercier and A.P.Farrell (2002). Cardiorespiratory status of triploid brown trout (*Salmo trutta*) during swimming at two acclimation temperatures. *Journal of Fish Biology* 60(1):102-116
- ARJ17.** P.R.Territo and J.Altimiras (2001). Morphometry and estimated bulk oxygen diffusion in larvae of *Xenopus laevis* under chronic carbon monoxide exposure. *Journal of Comparative Physiology B*. 171:145-153.
- ARJ16.** D.A.Crossley II and J.Altimiras (2000). Ontogeny of autonomic control of cardiovascular function in the domestic chicken *Gallus gallus*. *American Journal of Physiology*. 279:R1091-R1098.
- ARJ15.** S.Frische, A.Fago and J.Altimiras (2000). Respiratory responses to short term hypoxia in the snapping turtle, *Chelydra serpentina*. *Comparative Biochemistry and Physiology A*. 126:223-231.
- ARJ14.** J.Altimiras and E.Larsen (2000). Non-invasive recording of heart rate and ventilation rate in rainbow trout during rest and swimming. Fish go wireless! *Journal of Fish Biology*. 57:197-209.
- ARJ13.** D.A.Crossley II, T.Wang and J.Altimiras (2000). Role of nitric oxide in the systemic and pulmonary circulation of anaesthetized turtles (*Trachemys scripta*). *Journal of experimental Zoology*. 286(7):683-689.

- ARJ12.** A.Aissaoui, L.Tort and **J.Altimiras** (2000). Circadian heart rate changes and light-dependence in the mediterranean sea bream *Sparus aurata*. *Fish Biochem.Physiol.* 22(1): 89-94.
- ARJ11.** **J.Altimiras** and D.A.Crossley II (2000). Control of blood pressure mediated by baroreflex changes of heart rate in the chicken embryo (*Gallus gallus*). *American Journal of Physiology.* 278:R980-R986.
- ARJ10.** **J.Altimiras** and L.Phu (2000). Lack of physiological plasticity in the early chicken embryo exposed to acute hypoxia. *J.exp.Zool.* 286:450-456.
- ARJ09.** **J.Altimiras**, L.Hove-Madsen and H.Gesser (1999). Calcium uptake in the sarcoplasmic reticulum from the systemic heart of octopod cephalopods. *J.exp.Biol.* 202(18):2531-2537.
- ARJ08.** D.A.Crossley II, **J.Altimiras** and T.Wang (1998). Hypoxia elicits an increase in pulmonary vascular resistance in anaesthetized turtles (*Trachemys scripta*). *J.exp.Biol.* 201(24):3367-3375.
- ARJ07.** A.Aissaoui, **J.Altimiras** and L.Tort (1998). Cardiac conduction times in teleost fish *Sparus aurata* at different heart rates. Influence of body weight. *J.Fish Biol.*52:1154-1164.
- ARJ06.** **J.Altimiras**, C.E.Franklin and M.Axelsson (1998). Relationships between blood pressure and heart rate in the saltwater crocodile *Crocodylus porosus*. *J.exp.Biol.* 201:2235-2242.
- ARJ05.** P.R.Territo and **J.Altimiras** (1998). The ontogeny of cardio-respiratory function under chronically altered gas compositions in *Xenopus laevis*. *Respir.Physiol.* 111:311-323.
- ARJ04.** **J.Altimiras**, A.Aissaoui, L.Tort and M.Axelsson (1997). Cholinergic and adrenergic tones in the control of heart rate in teleosts. How should they be calculated? *Comp.Biochem.Physiol. A* 118A(1):131-139.
- ARJ03.** T.Roig, J.Sanchez, L.Tort, **J.Altimiras** and J.Bermúdez (1997). Adrenergic stimulation of sea bream (*Sparus aurata*) red blood cells in normoxia and in anoxia: Effects on metabolism and on oxygen-carrying capacity of haemoglobin. *J.exp.Biol.* 200:953-961.
- ARJ02.** **J.Altimiras**, A.D.F.Johnstone, M.C.Lucas and I.G.Priede (1996). Sex differences in the heart rate variability spectrum of free-swimming Atlantic salmon (*Salmo salar* L.) during the spawning season *Physiol.Zool.* 69(4):770-784.
- ARJ01.** **J.Altimiras**, M.Feliu, A.Aissaoui and L.Tort (1994). Computing heart rate variability using spectral analysis techniques: HRVUAB, a ready-to-use program *CABIOS* 10(5):559-562.

6. Scientific Publications. Articles in Non Refereed Journals (ANR)

- L.Tort, P.Landri and **J.Altimiras** (1994). Physiological and metabolic changes of sea bream *Sparus aurata* to short-term acclimation at low salinity *Comp.Biochem.Physiol. A* 108A(1):75-80.
- J.Altimiras**, S.R.Champion, M.Puigcerver and L.Tort (1994). Physiological responses of the gilthead sea bream *Sparus aurata* to hypoosmotic shock *Comp.Biochem.Physiol. A* 108A(1):81-85.

7. Conference Proceedings. Refereed Abstracts

- J.Altimiras**, L.M.Giraldo Deck and A.Garitano-Zavala (2103). The small heart of the Ornate Tinamou is compatible with endothermy and flight but compromises aerobic metabolism and thermoregulation during recovery from exhaustive activity. *The FASEB Journal* 27, 1149.18
- H.Österman, A.Ekström, A.Garitano-Zavala and **J.Altimiras** (2013). Myocardial gene expression of the tinamou reflects the physiological challenges of having a small heart. *The FASEB Journal* 27, 1189.7
- A-C.Svensson-Holm, I.Lindgren, H.Österman and **J.Altimiras** (2013). IGF-1 induces proliferation and T 3 causes maturation of cultured embryonic chicken cardiomyocytes. *The FASEB Journal* 27, 1187.7
- J.Altimiras** and I.Lindgren (2013). Prenatal hypoxia triggers maladaptive alterations in the heart of very late but not in late chicken embryos. *The FASEB Journal* 25, 1112.2

I.Lindgren, G.C.Badosa and **J.Altimiras** (2009). Prenatal hypoxia programs an altered beta (1)/beta (2) adrenoceptor subtype ratio in the heart of adult broiler chickens. The FASEB Journal

J.Altimiras and S.Jafari (2009). ThermoTRP channels are upregulated during incubation in the skin of the brood patch in junglefowl hens. The FASEB Journal

J.Altimiras and I.Lindgren (2007). Effect of chronic hypoxia on beta-adrenoceptor density and cardiac contractile response to agonists during the last week of incubation in chicken fetuses. *FASEB J* 21: (6) A1208-A1208

J.Altimiras and D.A.Crossley (2007). Attenuation of baroreflex gain in a growth restriction model in broiler chickens. *FASEB J* 21: (6) A876-A876.

Agren P, Van Der Weerden M, Kessels CG, **Altimiras J**, De Mey JG, Blanco CE, Villamor E (2005) Developmental contractile response in the chicken embryo ductus arteriosus in vitro. *Pediat.Res.* 58(2): 354

Agren P, Van Der Weerden M, Kessels CG, **Altimiras J**, De Mey JG, Blanco CE, Villamor E Response of chicken embryo ductus arteriosus to NO/cyclic GMP- and cyclic AMP-mediated relaxation. *Pediat.Res.* 58(2): 354

J.Altimiras, J.W.Hicks and D.Crossley (2002). Cardiovascular regulation in chronically hypoxic alligator embryos. *J.Physiol.* 547P:C59.

J.Altimiras and D.Crossley (2001). Involvement of α - and β -adrenergic receptors in the cardiovascular response to hypoxia in chicken embryos. *J.Physiol. Suppl.*

D.A.Crossley, B.P.Bagatto, J.W.Hicks and **J.Altimiras** (2000). Changes in cardiovascular control mechanisms during the embryonic development of the American alligator, Alligator mississippiensis *American Zoologist* 40: (6)985.

D.A.Crossley, **J.Altimiras** and W.W.Burggren (1999). Cardiovascular responses to hypoxic stress in embryos of the domestic chicken (*Gallus gallus*). *American Zoologist* 39: (5)69A-69A

D.Crossley, T.Wang and **J.Altimiras** (1998). Hypoxia elicits pulmonary vasoconstriction in anaesthetized turtles *FASEB J* 12: (5) A678-A678 Part 2 Suppl. S MAR 20 1998.

8. Conference Proceedings. Non Refereed Abstracts (please request if interested)

9. Supervision of master students, PhD students and postdoctoral fellows

- ✓ Postdoctoral fellows
 - 2012-2013. Dr.Anne-Charlotte Svensson-Holm. Currently research engineer at Linköpings universitet
 - 2011-2013. Dr.Isa Lindgren. Currently research fellow at Oregon Health Sciences University, USA
 - 2005. Dr.Dane A.Crossley II. Currently Assistant Professor at the University of North Texas, USA
- ✓ PhD
 - 2013 -. Caroline Lindholm (Linköpings universitet, Sweden). Main supervisor
 - 2012-. Pia Katrine Løtvedt (Linköpings Universitet, Sweden). Co-supervisor
 - 2011-. Hanna Österman (Linköpings universitet, Sweden). Main supervisor
 - 2010-15. Magnus Elfving (Linköpings Universitet, Sweden). Main supervisor
 - 2005-10. Dr.Isa Lindgren (Linköpings universitet, Sweden). Main supervisor
 - 1991-98. Dr.Abbas Aissaoui (UAB, Spain). Co-supervision with Dr.Lluis Tort
- ✓ MSc
 - 2014. Åsa Näsström, Andreas Calais and Johan Jonsson (LiU, Sweden)
 - 2013. Sergiy Kovtun (LiU, Sweden)
 - 2012. Shehla Irrum and Syeda Huma Zahra Naqvi (LiU, Sweden).
 - 2011. Andreas Ekström, Isabella Gasparini, Joel Edin, Girish Ramesh, Javed Ziauddin and Pravin Ravichandran (LiU, Sweden). Lina M.Giraldo (UMSA, Bolivia)
 - 2010. Karin Lundengård (LiU, Sweden)
 - 2009. Nabil Rashdan and Alexandra Lee (LiU, Sweden)
 - 2008. Caroline Svärd, Shadi Jafari and Yves Nindorera (LiU, Sweden)
 - 2006. Magnus Elfving (LiU, Sweden)
 - 2005. Albin Gräns and Elisabeth Iversen (LiU, Sweden)
 - 2004. Martin Hansen and Pia Ågren (LiU, Sweden)
 - 1999. Jesper Hansen (University of Aarhus, Denmark)

- ✓ Magister
 - 2014. Caroline Ovrén
 - 2006. Sebastian Hedlund, Petter Larsson
 - 2005. Tord Jonsson (Aortic changes in the 19d old chicken foetus due to hypoxic incubation conditions), Henric Bergman
 - 2004. Isa Lindgren, Lina Enell
- ✓ Honours (kandidatarbete)
 - 2013. Camilla Lövgren, Veronika Karczmarz, Panagiotis Karalekas, Cecilia Söderberg
 - 2012. Åsa Näsström, Naomi Aira, Emma Backlund
 - 2011. Cassandra Ekman
 - 2010. Sofia Klubb, Anna Södergren, Malin Silverå-Ejneby
 - 2009. Fanny Herhold, Lovisa Österlund, Karin Lundengård, Sofia Fried, Sofia Hammarberg, Sonia Bialowas, Hanna Hasanagic, Johan Beltecky,
 - 2008. Caroline Wendel, Hanna Österman, Helena Jonsson, Kristin Klarström Engström, Linnea Röhr, Rada Chakarova

10. Examiner for graduate student thesis

- 2012. Member of the Dissertation Committee for Albin Gräns. Title of the thesis: "The effects of temperature on gut blood flow and gut motility in fish". Department of Biological and Environmental Sciences. University of Gothenburg.
- 2012. Member of the Dissertation Committee for Carina Ulvklo. Title of the thesis: "Genetic mechanisms controlling cell specification and cell numbers in the *Drosophila* CNS". Hälsouniversitet. Linköpings Universitet.
- 2011. Member of the Dissertation Committee for Sara Börjesson. PhD dissertation. Hälsouniversitet. Linköpings Universitet.
- 2010. Member of the Dissertation Committee for Pia Ågren. Title of the thesis: "The chicken embryo as a model for ductus arteriosus developmental biology". MUMC+ Maastricht University.
- 2010. Member of the Dissertation Committee for Bea Zoer. Title of the thesis: "Oxygen stress. Effect on pre- and perinatal development and vascular reactivity. MUMC+ Maastricht University.
- 2009. Member of the Dissertation Committee for Peter Gunnarsson. Title of the thesis: "α₁-acid glycoprotein modulates the function of human neutrophils and platelets". Hälsouniversitet. Linköpings Universitet.
- 2007. Member of the Dissertation Committee for Amir Broomand. Title of the thesis: "Molecular aspects on voltage-sensor movement". Hälsouniversitet. Linköpings universitet.
- 2005. Chairman of the Dissertation Committee (ledamöter i betygsnämnden) for Jenny Turesson's. Title of the thesis: "Oxygen chemoreflexes in fish with emphasis on glutamatergic control mechanisms in the medulla". Department of Zoology. Göteborgs universitet.
- 1999. Opponent to Jesper Hansen's MSc thesis. University of Aarhus, Denmark

11. Funding: short term research projects

Minor Field Studies Reseplanering grant (2012). 20 tkr.

ELFAs Forskningsstiftelse. "Metabolic limitations in fetuses. System extension for the measurement of fetal well-being". (2006). 25 tkr.

SIDA-SAREC Planning grant. "Breeding biology of the lesser flamingo in East Africa: effects on recruitment and population dynamics". (2005). 62 tkr. Dnr.SWE-2004-P86.

ELFAs Forskningsstiftelse. "Metabolic limitations in fetuses. Construction of an automatic system for field studies". (2005). 30 tkr.

ELFAs Forskningsstiftelse. "Metabolic limitations and organ growth in fetuses. Construction of an automatic recording system". (2004). 12 tkr.

12. Organization of Scientific Meetings

Organizer of session "Fetal Cardiovascular Regulation" at the International Congress of Comparative Physiology and Biochemistry (Mt.Buller, Australia), 2003.

13. Invited Speaker

- ✓ Invited speaker at the 2011 Meeting of the Incubation and Fertility Research Group of the World's Poultry Science Association (WPSA Working Group 6 Reproduction) in Ede-Wageningen
- ✓ Seminars:
 - University of Nevada Las Vegas, University of British Columbia, University of Southern Denmark, University of Aarhus, University of Göteborg, University of Copenhagen, Center for Medical Image Science and Visualization (CMIV), Linköpings Universitet, Forum Scientium (Linköpings Universitet)
- ✓ PhD courses:
 - GROW Institute (Maastrich University Medical Center)

14. Membership in Scientific Societies

Society of Experimental Biology, American Physiological Society, European Society of Comparative Biochemistry and Physiology, Marie Curie Fellowship Association, Asociación para el Avance de la Ciencia y la Tecnología en España

15. Travel grants and minor awards

- Resebidrag from VR "International collaboration to study the determinants of embryonic and extraembryonic vasomotor tone in a model of fetal programming" Grand Forks, North Dakota, USA. 47.3tkr. Dnr.2007-294. Beslutsdatum 2007-02-23.
- Resebidrag from FORMAS to attend the Annual Meeting of the Society for Experimental Biology (Barcelona, Spain), 2005. 15tkr. Dnr.204-2005-2088. Beslutsdatum 2005-07-12.
- Resebidrag from Vetenskapsrådet to participate in a research collaboration at CREMA l'Homeau, France. 2004. 37tkr. Dnr.624-2004-3970. Beslutsdatum 2004-05-18
- Travel grant from the Wennergren foundation (6tkr) to attend the 31st Annual Meeting of the Fetal and Neonatal Physiological Society (Castelvechio-Pascoli, Italy), 2004.
- Resebidrag from Vetenskapsrådet to attend the International Congress of Comparative Physiology and Biochemistry (Mt.Buller, Australia). 2003. 29tkr. Dnr.629-2002-8531. Beslutsdatum 2003-01-07.
- Resebidrag from Vetenskapsrådet to participate in a research expedition to Disko Bay (Greenland). 2002. 39tkr. Dnr.629-2002-7333. Beslutsdatum 2002-07-12.
- Travel Award from the Dan Charitable Trust Fund for Research in the Biological Sciences (Nippon Trust Bank) to attend the meeting "International Symposium on Cardiac Rhythms in Animals" hold in Muroran (Japan) in 1998
- Travel Award (CIRIT) to attend the meeting "International Congress on Research for Aquaculture: Fundamental and Applied Aspects" celebrated in Antibes-Juan les Pins (France) in 1991

15. Courses and other merits

- SciLifeLab course "Introduction to Bioinformatics using NGS data". April 2014.
- Course on Heart Rate Variability Analysis. St.George Hospital (London) June 1994
- Certificate of Training "Animal Care and Use". University of Nevada Las Vegas. 1995

ADMINISTRATIVE DUTIES

- Biträdande avdelningschef of the Biology Division, IFM, LiU. 2012-2014
- Ämnesföreträdare of the Zoology Division, IFM Biology, LiU 2007-2011
- Ordinarie ledamöte from the utbildnings programnämnd KB, LiTH. From 2012
- Föreståndare for activities related to animal research. IFM Biology, LiU since 2008
- Coordinator of the SOCRATES exchange program for Biology students (LiU). 2004-2007
- Secretary of the Executive Committee of the Department of Medical Sciences (UBI, Portugal). 2001-2002
- Member of the Human Resources Committee of the Department of Medical Sciences (UBI, Portugal). 2001-2002

PUBLIC KNOWLEDGE OF SCIENCE ACTIVITIES

- Open lecture "What can a bird do with a small heart?" in the public education program of Naturskyddsforeningen Linköping. 28th October 2014

- Inspiration lecture "What is it to work as a biologist in Academia?" to Jubileumsveckan of MatNat sektionen, LiU on the 20th Anniversary. 15th October 2013
- Conference at Populärvetenskaplig dag 2009 (14th October), LiU. "Egg incubation. Insights into the function of a natural heater"
- Contribution to the Exhibit "Djurisk" at the Visualization Centre in Norrköping from January to October 2011
- Interview for SR P4 Östergötland radio (2012/05/10) on incubation physiology in birds and the zebrafinch breeding colony

PROFESSIONAL TRAINING

- Chefsutbildningkurs, LiU, 2008
- Course in Laboratory Animal Sciences (5 credits) at the Faculty of Health Sciences, LiU, 2007
- Course on Radiation protection (Strålskyddsutbildning), Radiophysics Department, IMV, LiU, 2006
- Course on CardioPulmonary Resuscitation, Previa, Linköping, 2005
- Course on First Aid, Previa, Linköping, 2005
- Training course to become a member of the Fire Alarm Evacuation Team at IFM, LiU, 2005.