

Curriculum Vitae

Personal information **Belaïd Sekkali**

Work experience

1. Employer: Federal Agency for Medicines and Health Products
 - Start date: 112010
 - End date:
 - Position: Quality assessor of ATMPs
 - Activities: _ Quality Assessment of clinical trial applications and MAA
 - -Provision of scientific and technical advice (National and European)
 - Peer_review of CTAs and MAA (National and European)
 - _ Provision of opinion on classification of cell and gene_based product (National and European)
 - _ Assessment of Hospital exemption applications
 - _ Writing and updating guidelines
 - Country: Belgium
2. Employer: University of Louvain Medical School
 - Start date: 102006
 - End date: 102010
 - Position: Senior research associate
 - Activities: Research in the field of Cardiac stem cells differentiation and heart regeneration.
 - Country: Belgium
3. Employer: Ghent University
 - Start date: 052002
 - End date: 062006
 - Position: Research Associate
 - Activities: Research in the field of developmental Biology (improvement of gene expression during transgenesis and monitoring of Wnt signalling pathway during xenopus development)
 - Country: Belgium
4. Employer: National Institute for Medical Research
 - Start date: 051998
 - End date: 042002
 - Position: Research Associate
 - Activities: Research in the field of transgenesis and chromatin reorganisation (Chromosomal position effect variegation in transgenic mice)
 - Country: United Kingdom

Education and training

1. Subject: University of Liege
 - Start date: 031991
 - End date: 041998
 - Qualification: Ph.D in Biochemistry
 - Organisation: Cloning, characterisation, and regulation of Oreochromis Mosambicus growth hormone gene using in vitro and in vivo tools.
 - Country: Belgium
2. Subject: Free university of Brussels
 - Start date: 091988
 - End date: 061990
 - Qualification: Special degree (Master degree) in Molecular Biology and Biotechnology
 - Organisation:
 - Country: Belgium
3. Subject: Free university of Brussels
 - Start date: 091987
 - End date: 061988
 - Qualification: Special degree in Biological Analysis Sciences
 - Organisation:
 - Country: Belgium
4. Subject: University of Lille
 - Start date: 091985
 - End date: 061987
 - Qualification: Licence (or Master) in Biochemistry
 - Organisation:
 - Country: France
5. Subject: University of Amiens
 - Start date: 091983
 - End date: 061985
 - Qualification: Master in Nature and Life Sciences
 - Organisation:
 - Country: France
6. Subject: University of Lille
 - Start date: 091982
 - End date: 061983
 - Qualification: First year degree in Medical Sciences
 - Organisation:
 - Country: France

Publications

Publications: Articles published in Internationals reviews:

- 1/_ De Pauw A, Andre E, Sekkali B, Bouzin C, Esfahani H, Barbier N, Lorient A, De Smet C, Vanhoutte L, Moniotte S, Gerber B, di Mauro V, Catalucci D, Feron O, Hilfiker_Kleiner D, Balligand JL. (2017). Dnmt3a mediated inhibition of Wnt in cardiac progenitor cells improves differentiation and remote remodeling after infarction. *Journal of Clinical Investigation Insight*. 15;2(12).
 - 2/_ Aurelia De Pauw, Paul Massion, Belaïd Sekkali, Caroline Dubroca, Jana Kmecova, Caroline Bouzin, Emilie Andre, Ann Friart, Catherine Sibille, Delphine Demulder, Peter Brouckaert, Stefan Janssens, Jean_Luc Balligand (2016). Paracrine Nitric Oxide potentiates differentiation of Sca1POS cardiac progenitor cells to cardiomyocytes through sGC/cGMP. *Cardiovascular Research* 112(1): 478_490.
 - 3/_ Borday C, Cabochette P, Parain K, Mazurier N, Janssens S, Tran HT, Sekkali B, Bronchain O, Vleminckx K, Locker M, Perron M. (2012). Antagonistic cross_regulation between Wnt and Hedgehog signalling pathways controls post_embryonic retinal proliferation. *Development* 139(19):3499_509.
 - 4/_ Hoch M, Fischer P, Stapel B, Missol_Kolka E, Sekkali B, Scherr M, Favret F, Braun T, Eder M, Schuster_Gossler K, Gossler A, Hilfiker A, Balligand JL, Drexler H, Hilfiker_Kleiner D. (2011). Erythropoietin Preserves the Endothelial Differentiation Capacity of Cardiac Progenitor Cells and Reduces Heart Failure during Anticancer Therapies. *Cell Stem Cell*. 5; 9(2):131_43.
 - 5/_ Lobysheva I, Rath G, Sekkali B, Bouzin C, Feron O, Gallez B, Dessy C, Balligand JL (2011). Moderate Caveolin_1 Downregulation Prevents NADPH Oxidase_Dependent Endothelial Nitric Oxide Synthase Uncoupling by Angiotensin II in Endothelial Cells. *Arterioscler Thromb Vasc Biol*. 31(9):2098_105.
 - 6/_ Hong Thi Tran, Belaïd Sekkali, Griet Van Imschoot, Sylvie Janssens and Kris Vleminckx (2010). Wnt/□_catenin signaling is involved in the induction and maintenance of primitive hematopoiesis in the vertebrate embryo. *Proc Natl Acad Sci U S A* 14; 107(37):16160_5.
 - 7/_ Laura C. Zelarayana, Belaïd Sekkali, Claudia Noack, Jana Kmecova, Christina Gehrkec, Anke Rengera, Maria_Patapia Zafirioua, Roel van der Nageld, Rainer Dietz, Leon J. de Windt, Jean_Luc Balligand, and Martin W. Bergmann (2008). β_Catenin downregulation attenuates ischemic cardiac remodeling through enhanced resident precursor cell differentiation. *Proc Natl Acad Sci U S A* 105 (50): 19762–19767.
 - 8/_ Belaïd Sekkali, Hong Thi TRAN, Christophe De Beule, Frans Van Roy and Kris Vleminckx (2008). Chicken β_globin insulator overcomes variegation of transgenes in Xenopus embryos. *FASEB Journal* (07)_098_111.
 - 9/_ Desjardins F, Sekkali B, Verreth W, Pelat M, De Keyser D, Mertens A, Smith G, Herregods MC, Holvoet P, Balligand JL (2008). Rosuvastatin increases vascular endothelial PPARgamma expression and corrects blood pressure variability in obese dyslipidaemic mice. *Eur Heart J*. 29(1):128_37.
 - 10/_ Moniotte S, Belge C, Sekkali B, Massion PB, Rozec B, Dessy C, Balligand JL (2007). Sepsis is associated with an upregulation of functional beta3 adrenoceptors in the myocardium. *Eur J Heart Fail*. 9(12):1163_71.
 - 11/_ Belaïd Sekkali, Ewa Szabat, Eleni Ktistaki, Mauro Tolaini, Kathleen Roderick, Nicky Harker, Amisha Patel, Keith Williams, Trisha Norton, and Dimitris Kioussis (2005). Human High Mobility Group Box Transcription Factor 1 Affects Thymocyte Development and Transgene Variegation. *Journal of Immunol*. 15;175(8):5203_12.
 - 12/_ Festenstein R., Pagakis SN, Hiragami K, Lyon D, Verreaut A, Sekkali B. and Kioussis D (2003). Modulation of heterochromatin protein 1 dynamics in primary Mammalian cells. *Science* 31;299(5607):719_21.
 - 13/_ Zhuma T, Tyrrell R, Sekkali B, Skavdis G, Saveliev A, Tolaini M, Roderick K, Norton T, Smerdon S, Sedgwick S, Festenstein R, Kioussis D (1999c). Human HMG box transcription factor HBP1: a role in hCD2 LCR function. *EMBO J*. 15;18(22):6396_406.
 - 14/_ Sekkali B, Belayew A, Bortolussi M, Martial JA, Muller M (1999b). Pit_1 mediates cell_specific and cAMP_induced transcription of the tilapia GH gene. *Mol Cell Endocrinol* 25; 152(1_2):111_23.
 - 15/_ Sekkali B, Brim H, Muller M, Argenton F, Bortolussi M, Colombo L, Belayew A, Martial JA (1999a). Structure and functional analysis of a tilapia (*Oreochromis mossambicus*) growth hormone gene: activation and repression by pituitary transcription factor Pit_1. *DNA Cell Biol* 18(6):489_502.
 - 16/_ Volckaert FA, Hellemans BA, Galbusera P, Ollevier F, Sekkali B, Belayew A (1994). Replication, expression, and fate of foreign DNA during embryonic and larval development of the African catfish (*Clarias gariepinus*). *Mol Mar Biol Biotechnol*. 3(2):57_69.
 - 17/_ B. Sekkali, B.A. Hellemans, A. Belayew, J.A. Martial, F. Ollevier and F.A. Volckaert (1994). A comparative study of reporter gene activities in fish cells and embryos. *Mol. Mar. Biol. Biotechnol*. 3(1): 30_34.
 - 18/_ Swennen D, Poncelet AC, Sekkali B, Rentier_Delrue F, Martial JA, Belayew A (1992). Structure of the tilapia (*Oreochromis mossambicus*) prolactin I gene. *DNA Cell Biol* 11(9):673_84.
 - 19/_ Belaïd Sekkali, Christophe De Beule, Hong Thi Tran, Griet Van Imschoot, Bram De Craene, Geert Berx, Frans Van Roy and Kris Vleminckx. High Mobility Group Box Transcription Factor 1 is a target gene of the Wnt signalling pathway (manuscript in preparation).
- Abstracts published in international reviews:
- 1/_ A. De Pauw, H. Ding, B. Sekkali, A. Friart, D. Catalucci, J.L. Balligand. Early upregulation of miR_29a mediates differentiation of cardiac stem cells into cardiomyocytes through inhibition of endogenous Wnt/beta_catenin. *European Heart Journal* . August 2013).
 - 2/_ A De Pauw, B. Sekkali, A Lorient, C De Smet, D Catalucci, D Hilfiker_Kleiner, J_L Balligand. P587MiR_29a controls cardiac stem cells differentiation through Dnmt3a_mediated extinction of Wnt/beta_catenin. *Cardiovascular Research*. June 2014.
 - 3/_ Irina Lobysheva; Geraldine Rath; Belaïd Sekkali; Olivier Feron; Chantal Dessy; Bernard Gallez; and Jean_Luc Balligand. Caveolin_1 Downregulation Reduces NADPH Oxidase Assembly and Reverses eNOS Uncoupling. *Circulation*. 2009;120:S1109.
 - 4/_ Martin W Bergmann; Laura Zelarayan; Claudia Noack; Belaïd Sekkali; Leon de Windt; Jean_Luc Balligand; and Rainer Dietz. Modulation Of Beta_catenin Enhances Endogenous Myocardial Repair After Experimental Infarct. *Circulation*. 2008;118:S 322.
 - 5/_ Fanny Desjardins; Belaïd Sekkali; Wim Verreth; Graham Smith; Astra Zeneca; Paul Holvoet; and Jean_Luc Balligand. Rosuvastatin Restores NO_dependent Endothelial Function by Increasing Vascular PPARγ and SOD1 Expression. *Circulation*. 2007;116:II_80.
 - 6/_ Catharina Belge; Belaïd Sekkali; Geneviève Tavernier; Anne_Catherine Pouleur; Luc Bertrand; Jean_Louis Vanoverschelde; Denise Hilfiker_Kleiner; Dominique Langin; and Jean_Luc Balligand. Cardiomyocyte_specific

Overexpression Of Beta3 adrenoceptors Attenuates The Hypertrophic Response To Catecholamines In Vivo. Circulation. 2007;116:II_148.

Books:

1/_ D. Swennen, B. Sekkali, A._C. Poncelet, F. Rentier_Delrue, JA Martial and A. Belayew. Molecular Biology of Tilapia Prolactins D. Aquaculture: Fundamental and Applied Research; Molecular Biology in aquaculture 1993; p241_254.

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