

Team2 - 2020

Original Articles

- 1 - Toward a better definition of hematopoietic progenitors suitable for B cell differentiation. Dubois F, Gaignerie A, Flippe L, Heslan JM, Tesson L, Chesneau M, Haspot F, Conchon S, David L, Brouard S. **2020** *PloS One*. PMID [33320872](#)
- 2 - Development of automated annotation software for human embryo morphokinetics. Feyeux M, Reignier A, Mocaer M, Lammers J, Meistermann D, Barrière P, Paul-Gilloteaux P, David L, Freour T **2020** *Hum Reprod*. PMID [32163566](#)
- 3 - Female obesity does not impact live birth rate after frozen-thawed blastocyst transfer. Prost E, Reignier A, Leperlier F, Caillet P, Barrière P, Freour T, Lefebvre T **2020** *Hum Reprod*. PMID [32170315](#)
- 4 - Characterization of brain dystrophins absence and impact in dystrophin-deficient Dmdmdx rat model. Caudal D, François V, Lafoux A, Ledevin M, Anegon I, Le Guiner C, Larcher T, Huchet C **2020** *PLoS One*. PMID [32160266](#)
- 5 - Transient antibody targeting of CD45RC inhibits the development of graft-versus-host disease. Boucault L, Lopez Robles MD, Thiolat A, Bezie S, Schmueck-Henneresse M, Braudeau C, Vimond N, Freuchet A, Autrusseau E, Charlotte F, Redjoul R, Beckerich F, Leclerc M, Piaggio E, Josien R, Volk HD, Maury S, Cohen JL, Anegon I, Guillonneau C. **2020** *Blood Adv*. PMID [32511714](#)
- 6 - Comparison of Human and Experimental Pulmonary Venous Occlusive Disease. Manaud G, Nossent EJ, Lambert M, Ghigna MR, Boët A, Vinhas MC, Ranchoux B, Dumas SJ, Courboulain A, Girerd B, Soubrier F, Bignard J, Claude O, Lecerf F, Hautefort A, Florio M, Sun B, Nadaud S, Verleden SE, Remy S, Anegon I, Bogaard HJ, Mercier O, Fadel E, Simonneau G, Vonk Noordegraaf A, Grünberg K, Humbert M, Montani D, Dorfmueller P, Antigny F, Perros F **2020** *Am J Resp Cell Mol*. PMID [32209028](#)
- 7 - Induction of Human Trophoblast Stem Cells from Somatic Cells and Pluripotent Stem Cells. Castel G, Meistermann D, Bretin B, Firmin J, Blin J, Loubersac S, Bruneau A, Chevolleau S, Kilens S, Chariou C, Gaignerie A, Francheteau Q, Kagawa H, Charpentier E, Flippe L, François-Campion V, Haider S, Dietrich B, Knöfler M, Arima T, Bourdon J, Rivron N, Masson D, Fournier T, Okae H, Freour T, David L. **2020** *Cell Rep*. PMID [33238118](#)
- 8 - NOTO Transcription Factor Directs Human Induced Pluripotent Stem Cell-Derived Mesendoderm Progenitors to a Notochordal Fate Colombier P, Halgand B, Chedeville C, Chariou C, François-Campion V, Kilens S, Vedrenne N, Clouet J, David L, Guicheux J, Camus A. **2020** *Cells*. PMID [32102328](#)
- 9 - The myeloid lineage is required for the emergence of a regeneration-permissive environment following Xenopus tail amputation Aztekin C, Hiscock TW, Butler R, De Jesús Andino F, Robert J, Gurdon JB, Jullien J **2020** *Development*. PMID [31988186](#)
- 10 - Aire-dependent genes undergo Clp1-mediated 3'UTR shortening associated with higher transcript stability in the thymus Guyon C, Jmari N, Padonou F, Li YC, Ucar O, Fujikado N, Couplier F, Blanchet C, Root DE, Giraud M **2020** *Elife*. PMID [32338592](#)
- 11 - Overexpression of endothelial b3 -adrenergic receptor induces diastolic dysfunction in rats. Dhot J, Ferron M, Prat V, Persello A, Roul D, Stevant D, Guijarro D, Piriou N, Aillerie V, Erraud A, Toumaniantz G, Erfanian M, Tesse A, Grabherr A, Tesson L, Menoret S, Anegon I, Trochu JN, Steenman M, De Waard M, Rozec B, Lauzier B, Gauthier C. **2020** *ESC Heart Fail*. PMID [33034410](#)
- 12 - A dominant vimentinvariant causes a rare syndrome with premature aging. Cogne B, Bouameur JE, Hayot G, Latypova X, Pattabiraman S, Caillaud A, Si-Tayeb K, Besnard T, Küry S, Chariou C, Gaignerie A, David L, Bordure P, Kaganovich D, Bezieu S, Golzio C, Magin TM, Isidor B. **2020** *Eur J Hum Genet*. PMID [32066935](#)
- 13 - Evolution of serum Anti-Müllerian Hormone (AMH) level in young women treated with chemotherapy for breast cancer according to basal AMH level. Loubersac S, Dezellus A, Lefebvre T, Reignier A, Barriere P, Masson D, Freour T; RESOVA Investigators Group. **2020** *Eur J Obstet Gyn R B*. PMID [32971432](#)

- 14 - Association between blastocyst morphology and maternal first trimester serum markers in ongoing pregnancies obtained after single fresh blastocyst transfer. Perennec A, Reignier A, Goronflot T, Gourraud PA, Masson D, Barrière P, Freour T, Lefebvre T. **2020** *Eur J Obstet Gyn R B*. PMID [33421812](#)
- 15 - Rapid and Reproducible Differentiation of Hematopoietic and T Cell Progenitors From Pluripotent Stem Cells Flippe L, Gaignerie A, Serazin C, Baron O, Saulquin X, Themeli M, Guillonneau C, David L. **2020** *Front Cell Dev Biol*. PMID [33195214](#)
- 16 - IL-34 Actions on FOXP3+ Tregs and CD14+ Monocytes Control Human Graft Rejection. Bezie S, Freuchet A, Serazin C, Salama A, Vimond N, Anegon I, Guillonneau C. **2020** *Front Immunol*. PMID [32849510](#)
- 17 - Le Diagnostic Pre-Implantatoire: comparaison des strategies de biopsie embryonnaire au stade clive et au stade blastocyste (Pre-implantation Genetic Testing: comparison between cleavage stage and blastocyst biopsy). Bacus J, Lammers J, Loubersac S, Lefebvre T, Leperlier F, Barriere P, Freour T, Reignier A. **2020** *Gynecol Obstet Fertil*. PMID [33232814](#)
- 18 - Good practice recommendations for the use of time-lapse technology ESHRE Working group on Time-lapse technology, Apter S, Ebner T, Freour T, Guns Y, Kovacic B, Le Clef N, Marques M, Meseguer M, Montjean D, Sfontouris I, Sturmey R, Coticchio G **2020** *Hum Reprod*. PMID [32206731](#)
- 19 - Human MuStem Cell Grafting into Infarcted Rat Heart Attenuates Adverse Tissue Remodeling and Preserves Cardiac Function Rannou A, Toumaniantz G, Larcher T, Leroux I, Ledevin M, Hivonnait A, Babarit C, Fleurisson R, Dubreil L, Menoret S, Anegon I, Charpentier F, Rouger K, Guevel L **2020** *Mol Ther Methods Clin Dev*. PMID [32695846](#)
- 20 - Genetic engineering of human and mouse CD4+ and CD8+ Tregs using lentiviral vectors encoding chimeric antigen receptors. Vimond N, Lasselin J, Anegon I, Guillonneau C, Bezie S. **2020** *Mol Ther Methods Clin Dev*. PMID [33376756](#)
- 21 - STING-dependent paracrinysshapes apoptotic priming of breast tumors in response to anti-mitotic treatment. Lohard S, Bourgeois N, Maillot L, Gautier F, Fetiveau A, Lasla H, Nguyen F, Vuillier C, Dumont A, Moreau-Aubry A, Frapin M, David L, Loussouarn D, Kerdraon O, Campone M, Jezequel P, Juin PP, Barille-Nion S. **2020** *Nat Commun*. PMID [31937780](#)
- 22 - Reprogramming roadmap reveals route to human induced trophoblast stem cells. Liu X, Ouyang JF, Rossello FJ, Tan JP, Davidson KC, Valdes DS, Schröder J, Sun YBY, Chen J, Knaupp AS, Sun G, Chy HS, Huang Z, Pflueger J, Firas J, Tano V, Buckberry S, Paynter JM, Larcombe MR, Poppe D, Choo XY, O'Brien CM, Pastor WA, Chen D, Leichter AL, Naeem H, Tripathi P, Das PP, Grubman A, Powell DR, Laslett AL, David L, Nilsson SK, Clark AT, Lister R, Nefzger CM, Martelotto LG, Rackham OJL, Polo JM. **2020** *Nature*. PMID [32939092](#)
- 23 - Initiation of a conserved trophectoderm program in human, cow and mouse embryos. Gerri C, McCarthy A, Alanis-Lobato G, Demtschenko A, Bruneau A, Loubersac S, Fogarty NME, Hampshire D, Elder K, Snell P, Christie L, David L, Van de Velde H, Fouladi-Nashta AA, Niakan KK. **2020** *Nature*. PMID [32968278](#)
- 24 - Maternal Protein Restriction in Rats Alters the Expression of Genes Involved in Mitochondrial Metabolism and Epitranscriptomics in Fetal Hypothalamus. Frapin M, Guignard S, Meistermann D, Grit I, Moulle VS, Paille V, Parnet P, Amarger V. **2020** *Nutrients*. PMID [32438566](#)
- 25 - Real-world effectiveness of Fertistartkit treatment in women undergoing ART in French clinical practice: a retrospective multicentre study. Languille S, Massin N, Santulli P, Ozanon C, Kazdar N, Lechat X, Soriano E, Frantz-Blancpain S, Callec R, Guerif F, Anahory T, Rongières C, Chevalier N, Barriere P **2020** *Reprod Biomed Online*. PMID [32201114](#)
- 26 - Otoferrin gene editing in sheep via CRISPR-assisted ssODN-mediated Homology Directed Repair Menchaca A, Dos Santos-Neto PC, Souza-Neves M, Cuadro F, Mulet AP, Tesson L, Chenouard V, Guiffès A, Heslan JM, Gantier M, Anegón I, Crispo M. **2020** *Sci Rep*. PMID [32265471](#)
- 27 - CCDC61/VFL3 Is a Paralog of SAS6 and Promotes Ciliary Functions Ochi T, Quarantotti V, Lin H, Jullien J, Rosa E Silva I, Boselli F, Barnabas DD, Johnson CM, McLaughlin SH, Freund SMV, Blackford AN, Kimata Y, Goldstein RE, Jackson SP, Blundell TL, Dutcher SK, Gergely F, van Breugel M **2020** *Structure*. PMID [32375023](#)
- 28 - Modification of late human embryo development after blastomere removal on day 3 for preimplantation genetic testing. Lammers J, Reignier A, Loubersac S, Chtourou S, Lefebvre T, Barrière P, Freour T. **2020** *Syst Biol Reprod Med*. PMID [33148055](#)

29 - Humanization of Immunodeficient Animals for the Modeling of Transplantation, Graft Versus Host Disease and Regenerative Medicine. Adigbli G, Menoret S, Cross AR, Hester J, Issa F, Anegon I. **2020** *Transplantation*. PMID [32068660](#)

Review, Editorial, Comments

1 - Data sharing: using blockchain and decentralized data technologies to unlock the potential of artificial intelligence: What can assisted reproduction learn from other areas of medicine? Hickman CFL, Alshubbar H, Chambost J, Jacques C, Pena CA, Drakeley A, Freour T. **2020** *Fertil Steril*. PMID [33160515](#)

2 - Predictive modeling in reproductive medicine: Where will the future of artificial intelligence research take us? Curchoe CL, Malmsten J, Bormann C, Shafiee H, Flores-Saiffe Farias A, Mendizabal G, Chavez-Badiola A, Sigaras A, Alshubbar H, Chambost J, Jacques C, Pena CA, Drakeley A, Freour T, Hajirasouliha I, Hickman CFL, Elemento O, Zaninovic N, Rosenwaks Z. **2020** *Fertil Steril*. PMID [33160516](#)

3 - Should artificial shrinkage be performed prior to blastocyst vitrification? A systematic review of the literature and meta-analysis. Boyard J, Reignier A, Chtourou S, Lefebvre T, Barrière P, Freour T. **2020** *Hum Fertil*. PMID [31973647](#)

4 - The Impact of COVID-19 on the State of Clinical and Laboratory Research Globally in Transplantation in May 2020. Bromberg J, Baan C, Chapman J, Anegon I, Brennan DC, Chakera A, Chong AS, Geissler EK, Guillonneau C, Heaton N, Hesselink DA, Jassem W, Jones CM, Josien R, Kaplan B, Kaufman CL, Lim W, Ma Y, Massey E, Ostrander DB, Slaughter MS, Tullius S, Witkowski P, Wong G. **2020** *Transplantation*. PMID [32541558](#)