

2018

[Distinct virulence ranges for infection of mice by *Bordetella pertussis* revealed by engineering of the sensor-kinase BvgS](#)

Lesne E, Coutte L, Solans L, Slupek S, Debrie AS, Dhennin V, Froguel P, Hot D, Loch C, Antoine R, Jacob-Dubuisson F

PLOS ONE Volume: 13 Issue: 10 Article Number: e0204861 Published: OCT 11 2018 DOI: 10.1371/journal.pone.0204861

-> Illumina sequencing – auteurs et partie remerciements

[CoDE-seq, an augmented whole-exome sequencing, enables the accurate detection of CNVs and mutations in Mendelian obesity and intellectual disability](#)

Montagne L, Derhourhi M, Piton A, Toussaint B, Durand E, Valliant E, Thuillier D, Gaget S, De Graeve F, Rabearivelo I, Lansiaux A, Lenne B, Sukno S, Desailoud R, Cnop M, Nicolescu R, Cohen L, Zagury JF, Amouyal M, Weill J, Muller J, Sand O, Delobel B, Froguel P, Bonnefond A

MOLECULAR METABOLISM Volume: 13 Pages: 1-9 DOI: 10.1016/j.molmet.2018.05.005 Published: JUL 2018

-> Illumina sequencing – auteurs et partie remerciements

[Generation of an induced pluripotent stem cell iPSC line from a patient with maturity-onset diabetes of the young type 3 MODY3 carrying a hepatocyte nuclear factor 1-alpha HNF1A mutation](#)

Griscelli F, Ezanno H, Soubeyrand M, Feraud O, Oudrhiri N, Bonnefond A, Turhan AG, Froguel P, Bennaceur-Griscelli A

STEM CELL RESEARCH Volume: 29 Pages: 56-59 DOI: 10.1016/j.scr.2018.02.017 Published: MAY 2018

[Jointly Modelling Single Nucleotide Polymorphisms With Longitudinal and Time-to-Event Trait: An Application to Type 2 Diabetes and Fasting Plasma Glucose](#)

Canouil M, Balkau B, Roussel R, Froguel P, Rocheleau G

FRONTIERS IN GENETICS Volume: 9 Article Number: 210 DOI: 10.3389/fgene.2018.00210 Published: JUN 14 2018

[Increased Hepatic PDGF-AA Signaling Mediates Liver Insulin Resistance in Obesity-Associated Type 2 Diabetes](#)

Abderrahmani A, Yengo L, Caiazzo R, Canouil M, Cauchi S, Raverdy V, Plaisance V, Pawlowski V, Lobbens S, Maillet J ; Rolland L, Boutry R, Queniat G, Kwapich M, Tenenbaum M, Bricambert J, Saussenthaler S, Anthony E, Jha P, Derop J, Sand O, Rabearivelo I, Leloire A, Pigeyre M, Daujat-Chavanieu M, Gerbal-Chaloin S, Dayeh T, Lassailly G, Mathurin P, Staels B, Auwerx J, Schurmann A, Postic C, Schafmayer C, Hampe J, Bonnefond A, Pattou F, Froguel P

DIABETES Volume: 67 Issue: 7 Pages: 1310-1321 DOI: 10.2337/db17-1539 Published: JUL 2018

[Cdkn2a deficiency promotes adipose tissue browning](#)

Rabhi N, Hannon SA, Gromada X, Salas E, Yao X, Oger F, Carney C, Lopez-Mejia IC, Durand E, Rabearivelo I, Bonnefond A, Caron E, Fajas L, Dani C, Froguel P, Annicotte JS

MOLECULAR METABOLISM Volume: 8 Pages: 65-76 DOI: 10.1016/j.molmet.2017.11.012 Published: FEB 2018

-> Illumina sequencing – auteurs et partie remerciements

[High Prevalence of Rare Monogenic Forms of Obesity in Obese Guadeloupean Afro-Caribbean Children](#)

Foucan L, Larifla L, Durand E, Rambhojan C, Armand C, Michel CT, Billy R, Dhennin V, De Graeve F, Rabearivelo I, Sand O, Lacorte JM, Froguel P, Bonnefond A.

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-> Illumina sequencing – auteurs et partie remerciements

[Loss-of-function mutations in ADCY3 cause monogenic severe obesity.](#)

Saeed S, Bonnefond A, Tamanini F, Mirza MU, Manzoor J, Janjua QM, Din SM, Gaitan J, Milochau A, Durand E, Vaillant E, Haseeb A, De Graeve F, Rabearivelo I, Sand O, Queniat G, Boutry R, Schott DA, Ayesha H, Ali M, Khan WI, Butt TA, Rinne T, Stumpel C, Abderrahmani A, Lang J, Arslan M, Froguel P.

Nat Genet. doi: 10.1038/s41588-017-0023-6, FEB 2018

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[The unique clinical spectrum of maturity onset diabetes of the young type 3](#)

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2017

[Cofactors As Metabolic Sensors Driving Cell Adaptation in Physiology and Disease](#)

Rabhi N; Hannou SA; Froguel P; Annicotte JS.

FRONTIERS IN ENDOCRINOLOGY doi: 10.3389/fendo.2017.00304 2017 NOV

[Early metabolic markers identify potential targets for the prevention of type 2 diabetes](#)

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[A novel *NEUROG3* mutation in neonatal diabetes associated with a neuro-intestinal syndrome. *Pediatr Diabetes*](#)

Hancili S, Bonnefond A, Philippe J, Vaillant E, De Graeve F, Sand O, Busiah K, Robert JJ, Polak M, Froguel P, Güven A, Vaxillaire M.

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-> Illumina sequencing – auteurs et partie remerciements

[Resource: Stem Cell Line Generation of an induced pluripotent stem cell \(iPSC\) line from a patient with maturity-onset diabetes of the young type 13 \(MODY13\) with a the potassium inwardly-rectifying channel, subfamily J, member 11 \(KCNJ11\) mutation](#)

Griscelli F; Feraud O; Ernault T; Oudrihri N; Turhan AG.; Bonnefond A; Froguel P; Bennaceur-Griscelli A.

STEM CELL RESEARCH 10.1016/j.scr.2017.07.023 2017 AUG

[Low-dose exposure to bisphenols A, F and S of human primary adipocyte impacts coding and non-coding RNA profiles](#)

Verbanck M, Canouil M, Leloire A, Dhennin V, Coumoul X, Yengo Y, Froguel P, Poulain-Godefroy O.

PLoS One <https://doi.org/10.1371/journal.pone.0179583>, 2017 JUN

-> global data processing and qPCR – auteurs et partie remerciements

[Expression and functional assessment of candidate type 2 diabetes susceptibility genes identify four new genes contributing to human insulin secretion](#)

Ndiaye FK, Ortalli A, Canouil M, Huyvaert M, Salazar-Cardozo C, Lecoer C, Verbanck M, Pawlowski V, Boutry R, Durand E, Rabearivelo I, Sand O, Marselli L, Kerr-Conte J, Chandra V, Scharfmann R, Poulain-Godefroy O, Marchetti P, Pattou F, Abderrahmani A, Froguel P, Bonnefond A.

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-> NanoString, Illumina sequencing – auteurs et partie remerciements

[Epigenetics Links Hyperinsulinemia with Liver Overproduction of Fibrosis Marker PDGFA and to Hepatic Insulin Resistance](#)

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[Characterization of a Bvg-regulated fatty acid methyl-transferase in *Bordetella pertussis*](#)

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-> Illumina sequencing (NextSeq 500) – auteurs et partie remerciements

[Shared genetic predisposition in rheumatoid arthritis-interstitial lung disease and familial pulmonary fibrosis](#)

Juge PA ; Borie R; Kannengiesser C; Gazal S; Revy P; Wemeau-Stervinou L; Debray MP; Ottaviani S; Marchand-Adam S; Nathan N; Thabut G; Richez C; Nunes H; Callebaut I; Justet A; Leulliot N; Bonnefond A; Salgado D; Richette P; Desvignes JP; Liote H; Froguel P; Allanore Y; Sand O; Dromer C; Flipo RM; Clement A; Beroud C; Sibia J; Coustet B; Cottin V; Boissier MC; Wallaert B; Schaefferbeke T; Le Moal F; Dastot-Frazier A; Menard C; Soubrier M; Saidenberg N; Valeyre D; Amselem S; Boileau C; Crestani B; Dieude P.

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[Reversion of antibiotic resistance in *Mycobacterium tuberculosis* by spiroisoxazoline SMART-420](#)

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[High-density genetic map and identification of QTLs for responses to temperature and salinity stresses in the model brown alga *Ectocarpus*](#)

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[CtrA controls cell division and outer membrane composition of the pathogen *Brucella abortus*](#)

Francis N; Poncin K; Fioravanti A; Vassen V; Willemart K; Thi Anh PO; Rappet L; Letesson JJ; Biondi EG; De Bolle X.

MOLECULAR MICROBIOLOGY doi : 10.1111/mmi.13589, 2017 MAR

[Relationship between salivary/pancreatic amylase and body mass index: a systems biology approach.](#)

Bonnefond A, Yengo L, Dechaume A, Canouil M, Castelain M, Roger E, Allegaert F, Caiazzo R, Raverdy V, Pigeyre M, Arredouani A, Borys JM, Lévy-Marchal C, Weill J, Roussel R, Balkau B, Marre M, Pattou F, Brousseau T, Froguel P.

BMC Med. doi: 10.1186/s12916-017-0784-x. 2017 FEB

-> ddPCR (BioRad), iScan

[The Impact of Open Pollination on the Structural Evolutionary Dynamics, Meiotic Behavior, and Fertility of Resynthesized Allotetraploid *Brassica napus* L.](#)

Rousseau-Gueutin M ; Morice J; Coriton O; Huteau V; Trotoux G; Negre S; Falentin C; Deniot G; Gilet M; Eber F; Pele A; Vautrin S; Fourment J; Lode M; Berges H; Chevre AM.

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-> iScan

2016

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Pelé A., Trotoux G, Eber F, Lodé M, Gilet M, Deniot G, Falentin C, Nègre S, Morice J, Rousseau-Gueutin M , Chèvre AM.

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-> iScan – Partie remerciements

[DNA damage and the activation of the p53 pathway mediate alterations in metabolic and secretory functions of adipocytes.](#)

Vergoni B, Cornejo PJ, Gilleron J, Dedjani M, Ceppo F, Jacquelin A, Bouget G, Ginet C, Gonzalez T, Maillet J, Dhennin V, Verbanck M, Auberger P, Froguel P, Tanti JF, Cormont M.

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-> iScan

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Philippe J, Derhourhi M, Durand E, Vaillant E, Dechaume A, Rabearivelo I, Dhennin V, Vaxillaire M, De Graeve F, Sand O, Froguel P, Bonnefond A.

PLoS One. 2015 Nov 23;10(11)

-> RainDance / Illumina sequencing (HiSeq 2000)

[Cell Cycle Control by the Master Regulator CtrA in *Sinorhizobium meliloti*.](#)

Pini F, De Nisco NJ, Ferri L, Penterman J, Fioravanti A, Brilli M, Mengoni A, Bazzicalupo M, Viollier PH, Walker GC, Biondi EG.

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Mejía-Benítez MA*, Bonnefond A*, Yengo L, Huyvaert M, Dechaume A, Peralta-Romero J, Klünder-Klünder M, García Mena J, El-Sayed Moustafa JS, Falchi M, Cruz M, Froguel P.

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-> Biomark Fluidigm

2014

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Vaxillaire M, Yengo L, Lobbens S, Rocheleau G, Eury E, Lantieri O, Marre M, Balkau B, Bonnefond A, Froguel P.

Diabetologia 2014; 57(8):1601-10

-> iScan

[RFX6 Regulates Insulin Secretion by Modulating Ca²⁺ Homeostasis in Human \$\beta\$ Cells.](#)

Chandra V, Albagli-Curiel O, Benoit Hastoy B, Piccand J, Randriamampita C, Vaillant E, Cavé H, Busiah K, Froguel P, Vaxillaire M, Rorsman P, Polak M, Scharfmann R.

Cell Reports 2014, 9(6):2206-18

-> iScan

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[Low copy number of the salivary amylase gene predisposes to obesity.](#)

Falchi M, El-Sayed Moustafa JS, Takousis P*, Pesce F*, Bonnefond A*, Andersson-Assarsson JC, Sudmant PH, Dorajoo R, Al-Shafai MN, Bottolo L, *25 authors*, McPherson R, Lee J, Tai ES, Sladek R, Carlsson LM, Walley A, Eichler EE, Pattou F, Spector TD, Froguel P.

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-> Biomark Fluidigm

[Highly sensitive diagnosis of 43 monogenic forms of diabetes or obesity, through one step PCR-based enrichment in combination with next-generation sequencing.](#)

Bonnefond A, Philippe J, Durand E, Muller J, Saeed S, Arslan M, Martínez R, De Graeve F, Dhennin V, Rabearivelo I, Polak M, Cavé H, Castaño L, Vaxillaire M, Mandel JL, Sand O, Froguel P.

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2013

[Association between large detectable clonal mosaicism and type 2 diabetes with vascular complications](#)

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-> iScan

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2012

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-> Agilent capture / Illumina sequencing (HiSeq 2000)

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-> Odissey LI-COR

[Molecular diagnosis of neonatal diabetes mellitus using next-generation sequencing of the whole exome.](#)

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[A variant near MTNR1B is associated with increased fasting plasma glucose levels and type 2 diabetes risk](#)

Bouatia-Naji N*, Bonnefond A*, Cavalcanti-Proença C, Sparsø T, Holmkvist J, Marchand M, Delplanque J, Lobbens S, Rocheleau G, 22 authors, Lévy-Marchal C, Pattou F, Meyre D, Blakemore AI, Jarvelin MR, Walley AJ, Hansen T, Dina C, Pedersen O, Froguel P.

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