

Title	Authors	Citation	PMID
Multi-view confocal microscopy enables multiple organ and whole organism live-imaging	Leroy O, van Leen E, Girard P, Villedieu A, Hubert C, Bosveld F, Bellaïche Y, Renaud O.	Development. 2022 Jan 24;dev.199760. doi: 10.1242/dev.199760. Online ahead of print.	35072204
Active nematics across scales from cytoskeleton organization to tissue morphogenesis	Balasubramaniam L, Mège RM, Ladoux B.	Curr Opin Genet Dev. 2022 Jan 18	35063879
Articulating the "stem cell niche" paradigm through the lens of non-model aquatic invertebrates	Martinez P, Ballarin L, Ereskovsky AV, Gazave E, Hobmayer B, Manni L, Rottinger E, Sprecher SG, Tiozzo S, Varela-Coelho A, Rinkevich B.	BMC Biol. 2022 Jan 20	35057814
Spatial and Temporal Scaling of Microtubules and Mitotic Spindles	Lacroix B, Dumont J.	Cells. 2022 Jan 12	35053364
Celebrating 20 years of live single-actin-filament studies with five golden rules	Wioland H, Jégou A, Romet-Lemonne G.	Proc Natl Acad Sci U S A. 2022 Jan 18	35042781
Daughter centrioles assemble preferentially towards the nuclear envelope in <i>Drosophila</i> syncytial embryos	Cunningham NHJ, Bouhleb IB, Conduit PT.	Open Biol. 2022 Jan	35042404
Modulated termination of non-coding transcription partakes in the regulation of gene expression	Haidara N, Giannini M, Porrua O.	Nucleic Acids Res. 2022 Jan 17:gkab1304. doi: 10.1093/nar/gkab1304. Online ahead of print.	35037029
Protein Kinase CK2 acts as a molecular brake to control NADPH oxidase 1 activation and colon inflammation	Liu D, Marie JC, Pelletier AL, Song Z, Ben-Khemis M, Boudiaf K, Pintard C, Leger T, Terrier S, Chevreux G, El-Benna J, My-Chan Dang P.	Cell Mol Gastroenterol Hepatol. 2022 Jan 11:S2352-345X(22)00003-0. doi: 10.1016/j.jcmgh.2022.01.003. Online ahead of print.	35031518
The genetic identity of the earliest human-made hybrid animals, the kungas of Syro-Mesopotamia	Bennett EA, Weber J, Bendhafer W, Champlot S, Peters J, Schwartz GM, Grange T, Geigl EM.	Sci Adv. 2022 Jan 14	35030024
Cells under pressure: how yeast cells respond to mechanical forces	Mishra R, Minc N, Peter M.	Trends Microbiol. 2022 Jan 6:S0966-842X(21)00272-9. doi: 10.1016/j.tim.2021.11.006. Online ahead of print.	35000797
Functional midbody assembly in the absence of a central spindle	Hirsch SM, Edwards F, Shirasu-Hiza M, Dumont J, Canman JC.	J Cell Biol. 2022 Mar 7	34994802
Pathogenic "germline" variants associated with myeloproliferative disorders in apparently normal individuals: Inherited or acquired genetic alterations?	Veitia RA, Innan H.	Clin Genet. 2021 Dec 27. doi: 10.1111/cge.14104. Online ahead of print.	34958119
Extracellular domains of E-cadherin determine key mechanical phenotypes of an epithelium through cell- and non-cell-autonomous outside-in signaling	Aladin DMK, Chu YS, Shen S, Robinson RC, Dufour S, Viasnoff V, Borghi N, Thiery JP.	PLoS One. 2021 Dec 22	34937057
Disentangling cadherin-mediated cell-cell interactions in collective cancer cell migration	Zisis T, Brückner DB, Brandstätter T, Siow WX, d'Alessandro J, Vollmar AM, Broedersz CP, Zahler S.	Biophys J. 2022 Jan 4	34890578
Smaug1 membrane-less organelles respond to AMPK and mTOR and affect mitochondrial function	Fernández-Alvarez AJ, Gabriela Thomas M, Pascual ML, Habif M, Pimentel J, Corbat AA, Pessoa JP, La Spina PE, Boscaglia L, Plessis A, Carmo-Fonseca M, Grecco HE, Casado M, Boccaccio GL.	J Cell Sci. 2022 Dec 1	34859817
[Nesprins mechanically discriminate between distinct epithelium-to-mesenchyme transitions]	Sipieter F, Laurent L, Borghi N.	Med Sci (Paris). 2021 Nov	34851273
One Hundred Years of Gene Balance: How Stoichiometric Issues Affect Gene Expression, Genome Evolution, and Quantitative Traits	Birchler JA, Veitia RA.	Cytogenet Genome Res. 2021	34814143
Identification of a new regulation pathway of EGFR and E-cadherin dynamics	Proux-Gillardeaux V, Advedissian T, Perin C, Gelly JC, Viguier M, Deshayes F.	Sci Rep. 2021 Nov 22	34811416
Insight in the quorum sensing-driven lifestyle of the non-pathogenic <i>Agrobacterium tumefaciens</i> 6N2 and the interactions with the yeast <i>Meyerozyma guilliermondii</i>	Bertini EV, Torres MA, Léger T, Garcia C, Hong KW, Chong TM, Castellanos de Figueroa LI, Chan KG, Dessaux Y, Camadro JM, Nieto-Peñalver CG.	Genomics. 2021 Nov	34793950
Glue Genes Are Subjected to Diverse Selective Forces during <i>Drosophila</i> Development	Borne F, Kulathinal RJ, Courtier-Orgogozo V.	Genome Biol Evol. 2021 Dec 1	34788814

Widespread introgression across a phylogeny of 155 <i>Drosophila</i> genomes	Suvorov A, Kim BY, Wang J, Armstrong EE, Peede D, D'Agostino ERR, Price DK, Waddell P, Lang M, Courtier-Orgogozo V, David JR, Petrov D, Matute DR, Schrider DR, Comeault AA.	Curr Biol. 2022 Jan 10	34788634
Physics of liquid crystals in cell biology	Doostmohammadi A, Ladoux B.	Trends Cell Biol. 2022 Feb	34756501
A nuclear pore sub-complex restricts the propagation of Ty retrotransposons by limiting their transcription	Bonnet A, Chaput C, Palmic N, Palancade B, Lesage P.	PLoS Genet. 2021 Nov 1	34723966
Detection of surface forces by the cell-wall mechanosensor Wsc1 in yeast	Neeli-Venkata R, Diaz CM, Celador R, Sanchez Y, Minc N.	Dev Cell. 2021 Oct 25	34666001
Bioelectric signaling and the control of cardiac cell identity in response to mechanical forces	Fukui H, Chow RW, Xie J, Foo YY, Yap CH, Minc N, Mochizuki N, Vermot J.	Science. 2021 Oct 15	34648325
Endocytosis and stress: From mechanisms to cellular physiology	Léon S.	Biol Cell. 2021 Nov	34647637
A pan-metazoan concept for adult stem cells: the wobbling Penrose landscape	Rinkevich B, Ballarin L, Martinez P, Somorjai I, Ben-Hamo O, Borisenko I, Berezikov E, Ereskovsky A, Gazave E, Khnykin D, Manni L, Petukhova O, Rosner A, Röttinger E, Spagnuolo A, Sugni M, Tiozzo S, Hobmayer B.	Biol Rev Camb Philos Soc. 2022 Feb	34617397
Bioengineering methods for organoid systems	Saleh J, Mercier B, Xi W.	Biol Cell. 2021 Dec	34580889
The Nereid on the rise: Platynereis as a model system	Özpolat BD, Randel N, Williams EA, Bezares-Calderón LA, Andreatta G, Balavoine G, Bertucci PY, Ferrier DEK, Gambi MC, Gazave E, Handberg-Thorsager M, Hardege J, Hird C, Hsieh YW, Hui J, Mutemi KN, Schneider SQ, Simakov O, Vergara HM, Vervoort M, Jékely G, Tessmar-Raible K, Raible F, Arendt D.	Evodevo. 2021 Sep 27	34579780
An appeal for an objective, open, and transparent scientific debate about the origin of SARS-CoV-2	van Helden J, Butler CD, Achaz G, Canard B, Casane D, Claverie JM, Colombo F, Courtier V, Ebright RH, Graner F, Leitenberg M, Morand S, Petrovsky N, Segreto R, Decroly E, Halloy J.	Lancet. 2021 Oct 16	34543608
DNA polymerase zeta contributes to heterochromatin replication to prevent genome instability	Ben Yamin B, Ahmed-Seghir S, Tomida J, Despras E, Pouvelle C, Yurchenko A, Goulas J, Corre R, Delacour Q, Droin N, Dessen P, Goidin D, Lange SS, Bhetawal S, Mitjavila-Garcia MT, Baldacci G, Nikolaev S, Cadoret JC, Wood RD, Kannouche PL.	EMBO J. 2021 Nov 2	34533226
GFP-Tagged Protein Detection by Electron Microscopy Using a GBP-APEX Tool in <i>Drosophila</i>	Bernard F, Jouette J, Durieu C, Le Borgne R, Guichet A, Claret S.	Front Cell Dev Biol. 2021 Aug 12	34476234
First identification of ITM2B interactome in the human retina	Wohlschlegel J, Argentini M, Michiels C, Letellier C, Forster V, Condroyer C, He Z, Thuret G, Zeitz C, Léger T, Audo I.	Sci Rep. 2021 Aug 26	34446781
The non-muscle ADF/cofilin-1 controls sarcomeric actin filament integrity and force production in striated muscle laminopathies	Vignier N, Chatzifrangkeskou M, Pinton L, Wioland H, Marais T, Lemaitre M, Le Dour C, Peccate C, Cardoso D, Schmitt A, Wu W, Biferi MG, Naouar N, Macquart C, Beuvin M, Decostre V, Bonne G, Romet-Lemonne G, Worman HJ, Tedesco FS, Jégou A, Muchir A.	Cell Rep. 2021 Aug 24	34433058
Cell division geometries as central organizers of early embryo development	Sallé J, Minc N.	Semin Cell Dev Biol. 2021 Aug 18:S1084-9521(21)00208-1. doi: 10.1016/j.semcd.2021.08.004. Online ahead of print.	34419349
DISCO is key to successful centriole maturation	Gaudin N, Martin Gil P, Azimzadeh J.	J Cell Biol. 2021 Sep 6	34402855

Reply to "An alternative miRISC targets a cancer-associated coding sequence mutation in FOXL2"	Veitia RA, Pilsworth J, Todeschini AL, Huntsman D.	EMBO J. 2021 Aug 16	34396573
Single-cell transcriptomics in the Drosophila visual system: Advances and perspectives on cell identity regulation, connectivity, and neuronal diversity evolution	Simon F, Konstantinides N.	Dev Biol. 2021 Nov	34375653
Genes Encoding Teleost Orthologs of Human Haploinsufficient and Monoallelically Expressed Genes Remain in Duplicate More Frequently Than the Whole Genome	Picolo F, Grandchamp A, Piégu B, Rolland AD, Veitia RA, Monget P.	Int J Genomics. 2021 Jul 29	34368340
DNA methylation atlas and machinery in the developing and regenerating annelid <i>Platynereis dumerilii</i>	Planques A, Kerner P, Ferry L, Grunau C, Gazave E, Vervoort M.	BMC Biol. 2021 Aug 3	34340707
FOXL2 in adult-type granulosa cell tumour of the ovary: oncogene or tumour suppressor gene?	Pilsworth JA, Todeschini AL, Neilson SJ, Cochrane DR, Lai D, Anttonen M, Heikinheimo M, Huntsman DG, Veitia RA.	J Pathol. 2021 Nov	34338304
Massive colonization of protein-coding exons by selfish genetic elements in <i>Paramecium</i> germline genomes	Sellis D, Guérin F, Arnaiz O, Pett W, Lerat E, Boggetto N, Krenek S, Berendonk T, Couloux A, Aury JM, Labadie K, Malinsky S, Bhullar S, Meyer E, Sperling L, Duret L, Duhaucourt S.	PLoS Biol. 2021 Jul 29	34324490
Promoters are key organizers of the duplication of vertebrate genomes	Brossas C, Duriez B, Valton AL, Prioleau MN.	Bioessays. 2021 Oct	34319621
Direct measurement of near-nano-Newton forces developed by self-organizing actomyosin fibers bound α -catenin	Sonam S, Vigouroux C, Jégou A, Romet-Lemonne G, Le Clairche C, Ladoux B, Mège RM.	Biol Cell. 2021 Nov	34287982
Aurora A kinase activation: Different means to different ends	Tavernier N, Sicheri F, Pintard L.	J Cell Biol. 2021 Sep 6	34287649
Cell migration guided by long-lived spatial memory	d'Alessandro J, Barbier-Chebbah A, Cellerin V, Benichou O, Mège RM, Voituriez R, Ladoux B.	Nat Commun. 2021 Jul 5	34226542
Gene-dosage issues: a recurrent theme in whole genome duplication events	Veitia RA, Birchler JA.	Trends Genet. 2022 Jan	34215425
Role of Polycomb in the control of transposable elements	Déléris A, Berger F, Duhaucourt S.	Trends Genet. 2021 Oct	34210514
The Ultimate (Mis)match: When DNA Meets RNA	Palancade B, Rothstein R.	Cells. 2021 Jun 8	34201169
A morphological trait involved in reproductive isolation between <i>Drosophila</i> sister species is sensitive to temperature	Peluffo AE, Hamdani M, Vargas-Valderrama A, David JR, Mallard F, Graner F, Courtier-Ordogozo V.	Ecol Evol. 2021 May 25	34188829
Mechanical plasticity in collective cell migration	Jain S, Ladoux B, Mège RM.	Curr Opin Cell Biol. 2021 Oct	34134013
ALS-linked PFN1 variants exhibit loss and gain of functions in the context of formin-induced actin polymerization	Schmidt EJ, Funes S, McKeon JE, Morgan BR, Boopathy S, O'Connor LC, Bilsel O, Massi F, Jégou A, Bosco DA.	Proc Natl Acad Sci U S A. 2021 Jun 8	34074767
Low Replicative Stress Triggers Cell-Type Specific Inheritable Advanced Replication Timing	Courtot L, Bournique E, Maric C, Guitton-Sert L, Madrid-Mencia M, Pancaldi V, Cadoret JC, Hoffmann JS, Bergoglio V.	Int J Mol Sci. 2021 May 7	34066960
Nuclear Migration in the <i>Drosophila</i> Oocyte	Loh M, Guichet A, Bernard F.	J Vis Exp. 2021 May 13	34057446
Autoinhibition of Cnn binding to γ -TuRCs prevents ectopic microtubule nucleation and cell division defects	Tovey CA, Tsuji C, Egerton A, Bernard F, Guichet A, de la Roche M, Conduit PT.	J Cell Biol. 2021 Aug 2	34042945
Integrity of the short arm of the nuclear pore Y-complex is required for mouse embryonic stem cell growth and differentiation	Gonzalez-Estevéz A, Verrico A, Orniacki C, Reina-San-Martin B, Doye V.	J Cell Sci. 2021 May 15	34037234
Cornelia de Lange syndrome-associated mutations cause a DNA damage signalling and repair defect	Olley G, Pradeepa MM, Grimes GR, Piquet S, Polo SE, FitzPatrick DR, Bickmore WA, Boumendil C.	Nat Commun. 2021 May 25	34035299
Ankyrin G organizes membrane components to promote coupling of cell mechanics and glucose uptake	Salvi AM, Bays JL, Mackin SR, Mege RM, DeMali KA.	Nat Cell Biol. 2021 May	33972734
Replication Stress, Genomic Instability, and Replication Timing: A Complex Relationship	Briu LM, Maric C, Cadoret JC.	Int J Mol Sci. 2021 Apr 30	33946274

A survey of the kinome pharmacopeia reveals multiple scaffolds and targets for the development of novel anthelmintics	Knox J, Joly N, Linossi EM, Carmona-Negrón JA, Jura N, Pintard L, Zuercher W, Roy PJ.	Sci Rep. 2021 Apr 28	33911106
[A trio of mechanisms involved in regeneration initiation in animals]	Vullien A, Röttinger É, Vervoort M, Gazave E.	Med Sci (Paris). 2021 Apr	33908852
Exceptional stability of a perilipin on lipid droplets depends on its polar residues, suggesting multimeric assembly	Giménez-Andrés M, Emeršič T, Antoine-Bally S, D'Ambrosio JM, Antonny B, Derganc J, Čopič A.	Elife. 2021 Apr 15	33856341
EpCAM promotes endosomal modulation of the cortical RhoA zone for epithelial organization	Gaston C, De Beco S, Doss B, Pan M, Gauquelin E, D'Alessandro J, Lim CT, Ladoux B, Delacour D.	Nat Commun. 2021 Apr 13	33850145
Addendum: Active superelasticity in three-dimensional epithelia of controlled shape	Latorre E, Kale S, Casares L, Gómez-González M, Uroz M, Valon L, Nair RV, Garreta E, Montserrat N, Del Campo A, Ladoux B, Arroyo M, Trepát X.	Nature. 2021 Apr	33846613
Data from crosslinking and analysis of cDNAs (CRAC) of Nab3 in yeast cells expressing a circular ncRNA decoy	Villa T, Jaszczyszyn Y, Libri D.	Data Brief. 2021 Mar 15	33842679
Co-translational assembly and localized translation of nucleoporins in nuclear pore complex biogenesis	Lautier O, Penzo A, Rouvière JO, Chevreux G, Collet L, Loïdouce I, Taddei A, Devaux F, Collart MA, Palancade B.	Mol Cell. 2021 Jun 3	33838103
Fetal Programming by Methyl Donor Deficiency Produces Pathological Remodeling of the Ascending Aorta	Balint B, Hergalant S, Camadro JM, Blaise S, Vanalderwiert L, Lignièrès L, Guéant-Rodriguez RM, Guéant JL.	Arterioscler Thromb Vasc Biol. 2021 Jun	33827257
The Polycomb landscape in mouse development	Richard Albert J, Greenberg MVC.	Nat Genet. 2021 Apr	33821004
[Discussion about the presentation: "PCR and paleogenetics: for best and for worst"]	Geigl EM.	Bull Acad Natl Med. 2021 Apr	33814550
Quantifying single-cell ERK dynamics in colorectal cancer organoids reveals EGFR as an amplifier of oncogenic MAPK pathway signalling	Ponsioen B, Post JB, Buissant des Amorie JR, Laskaris D, van Ineveld RL, Kersten S, Bertotti A, Sassi F, Sipieter F, Cappe B, Mertens S, Verlaan-Klink I, Boj SF, Vries RGJ, Rehmann H, Vandenaabeele P, Riquet FB, Trusolino L, Bos JL, Snippert HJG.	Nat Cell Biol. 2021 Apr	33795873
Simultaneous readout of multiple FRET pairs using photochromism	Roebroek T, Vandenberg W, Sipieter F, Hugelier S, Stove C, Zhang J, Dedecker P.	Nat Commun. 2021 Mar 31	33790271
Dynamic extrinsic pacing of the HOX clock in human axial progenitors controls motor neuron subtype specification	Mouilleau V, Vaslin C, Robert R, Gribaudo S, Nicolas N, Jarrige M, Terray A, Lesueur L, Mathis MW, Croft G, Daynac M, Rouiller-Fabre V, Wichterle H, Ribes V, Martinat C, Nedelec S.	Development. 2021 Mar 29	33782043
Bora phosphorylation substitutes in trans for T-loop phosphorylation in Aurora A to promote mitotic entry	Tavernier N, Thomas Y, Vigneron S, Maisonneuve P, Orlicky S, Mader P, Regmi SG, Van Hove L, Levinson NM, Gasmi-Seabrook G, Joly N, Poteau M, Velez-Aguilera G, Gavet O, Castro A, Dasso M, Lorca T, Sicheri F, Pintard L.	Nat Commun. 2021 Mar 26	33771996
A reaction-diffusion model of spatial propagation of A[Formula: see text] oligomers in early stage Alzheimer's disease	Andrade-Restrepo M, Ciuperca IS, Lemarre P, Pujo-Menjouet L, Tine LM.	J Math Biol. 2021 Mar 25	33768404
The M-phase regulatory phosphatase PP2A-B55δ opposes protein kinase A on Arpp19 to initiate meiotic division	Lemonnier T, Daldello EM, Poulhe R, Le T, Miot M, Lignièrès L, Jessus C, Dupré A.	Nat Commun. 2021 Mar 23	33758202
The dynamic instability of actin filament barbed ends	Romet-Lemonne G, Jégou A.	J Cell Biol. 2021 Apr 5	33755041
Author Correction: Investigating the nature of active forces in tissues reveals how contractile cells can form extensile monolayers	Balasubramaniam L, Doostmohammadi A, Saw TB, Narayana GHNS, Mueller R, Dang T, Thomas M, Gupta S, Sonam S, Yap AS, Toyama Y, Mège RM, Yeomans JM, Ladoux B.	Nat Mater. 2021 Aug	33750921

Genomic exploration of the targets of FOXL2 and ESR2 unveils their implication in cell migration, invasion, and adhesion	Herman L, Legois B, Todeschini AL, Veitia RA.	FASEB J. 2021 Apr	33749886
[Generating bilateral symmetry from asymmetrical components]	Basquin C, Gaudin N, Azimzadeh J.	Med Sci (Paris). 2021 Mar	33739264
Drosophila glue protects from predation	Borne F, Prigent SR, Molet M, Courtier-Orgogozo V.	Proc Biol Sci. 2021 Mar 31	33726597
Ultraviolet Photoactivation Using Synchrotron Radiation for Tandem Mass Spectrometry of Polysiloxanes	Aloui I, Legros V, Giuliani A, Buchmann W.	J Am Soc Mass Spectrom. 2021 Apr 7	33673733
A comprehensive library of fluorescent constructs of SARS-CoV-2 proteins and their initial characterisation in different cell types	Miserey-Lenkei S, Trajkovic K, D'Ambrosio JM, Patel AJ, Čopič A, Mathur P, Schauer K, Goud B, Albanèse V, Gautier R, Subra M, Kovacs D, Barelli H, Antonny B.	Biol Cell. 2021 Jul	33666950
Publisher Correction: Twinfilin uncaps filament barbed ends to promote turnover of lamellipodial actin networks	Hakala M, Wioland H, Tolonen M, Kotila T, Jegou A, Romet-Lemonne G, Lappalainen P.	Nat Cell Biol. 2021 Apr	33654262
Isoginkgetin derivative IP2 enhances the adaptive immune response against tumor antigens	Darrigrand R, Pierson A, Rouillon M, Renko D, Boulpicante M, Bouyssié D, Mouton-Barbosa E, Marcoux J, Garcia C, Ghosh M, Alami M, Apcher S.	Commun Biol. 2021 Mar 1	33649389
Insights into the pathogenicity of missense variants in the forkhead domain of FOX proteins underlying Mendelian disorders	Bermúdez-Guzmán L, Veitia RA.	Hum Genet. 2021 Jul	33638707
Investigating the nature of active forces in tissues reveals how contractile cells can form extensile monolayers	Balasubramaniam L, Doostmohammadi A, Saw TB, Narayana GHNS, Mueller R, Dang T, Thomas M, Gupta S, Sonam S, Yap AS, Toyama Y, Mège RM, Yeomans JM, Ladoux B.	Nat Mater. 2021 Aug	33603188
Efficient, quick and easy-to-use DNA replication timing analysis with START-R suite	Hadjadj D, Denecker T, Guérin E, Kim SJ, Fauchereau F, Baldacci G, Maric C, Cadoret JC.	NAR Genom Bioinform. 2020 Jun 19	33575597
Functional networks of co-expressed genes to explore iron homeostasis processes in the pathogenic yeast <i>Candida glabrata</i>	Denecker T, Zhou Li Y, Fairhead C, Budin K, Camadro JM, Bolotin-Fukuhara M, Angoulvant A, Lelandais G.	NAR Genom Bioinform. 2020 Apr 20	33575583
Potential application values of a marine red yeast, <i>Rhodospiridium sphaerocarpum</i> YLY01, in aquaculture and tail water treatment assessed by the removal of ammonia nitrogen, the inhibition to <i>Vibrio</i> spp., and nutrient composition	Yun L, Wang W, Li Y, Xie M, Chen T, Hu C, Luo P, Li D.	PLoS One. 2021 Feb 16	33592044
Dynamics of Ku and bacterial non-homologous end-joining characterized using single DNA molecule analysis	Öz R, Wang JL, Guerois R, Goyal G, Kk S, Ropars V, Sharma R, Koca F, Charbonnier JB, Modesti M, Strick TR, Westerlund F.	Nucleic Acids Res. 2021 Mar 18	33590005
Towards plant resistance to viruses using protein-only RNase P	Gobert A, Quan Y, Arrivé M, Waltz F, Da Silva N, Jomat L, Cohen M, Jupin I, Giegé P.	Nat Commun. 2021 Feb 12	33579946
Male genital lobe morphology affects the chance to copulate in <i>Drosophila pachea</i>	Lefèvre BM, Catté D, Courtier-Orgogozo V, Lang M.	BMC Ecol Evol. 2021 Feb 11	33573597
Novel Insights into Quantitative Proteomics from an Innovative Bottom-Up Simple Light Isotope Metabolic (bSLIM) Labeling Data Processing Strategy	Sénécaut N, Alves G, Weisser H, Lignières L, Terrier S, Yang-Crosson L, Poulain P, Lelandais G, Yu YK, Camadro JM.	J Proteome Res. 2021 Mar 5	33573382
Predictable increase in female reproductive window: A simple model connecting age of reproduction, menopause, and longevity	Innan H, Vaiman D, Veitia RA.	Bioessays. 2021 May	33569823
Glycolipid-dependent and lectin-driven transcytosis in mouse enterocytes	Ivashenka A, Wunder C, Chambon V, Sandhoff R, Jennemann R, Dransart E, Podsypanina K, Lombard B, Loew D, Lamaze C, Poirier F, Gröne HJ, Johannes L, Shafaq-Zadah M.	Commun Biol. 2021 Feb 9	33564097
Twinfilin uncaps filament barbed ends to promote turnover of lamellipodial actin networks	Hakala M, Wioland H, Tolonen M, Kotila T, Jegou A, Romet-Lemonne G, Lappalainen P.	Nat Cell Biol. 2021 Feb	33558729

A scaffold lncRNA shapes the mitosis to meiosis switch	Andric V, Nevers A, Hazra D, Auxilien S, Menant A, Graille M, Palancade B, Rougemaille M.	Nat Commun. 2021 Feb 3	33536434
The Arp1/11 minifilament of dynactin primes the endosomal Arp2/3 complex	Fokin AI, David V, Oguievetskaia K, Derivery E, Stone CE, Cao L, Rocques N, Molinie N, Henriot V, Aumont-Nicaise M, Hinckelmann MV, Saudou F, Le Clainche C, Carter AP, Romet-Lemonne G, Gautreau AM.	Sci Adv. 2021 Jan 13	33523880
Animal regeneration in the era of transcriptomics	Bideau L, Kerner P, Hui J, Vervoort M, Gazave E.	Cell Mol Life Sci. 2021 Apr	33515282
Get Out and Stay Out: New Insights Into DNA Methylation Reprogramming in Mammals	Greenberg MVC.	Front Cell Dev Biol. 2021 Jan 7	33490089
Interactions of Viral Proteins from Pathogenic and Low or Non-Pathogenic Orthohantaviruses with Human Type I Interferon Signaling	Gallo G, Caignard G, Badonnel K, Chevreux G, Terrier S, Szemiel A, Roman-Sosa G, Binder F, Gu Q, Da Silva Filipe A, Ulrich RG, Kohl A, Vitour D, Tordo N, Ermonval M.	Viruses. 2021 Jan 19	33478127
DNAModAnnot: a R toolbox for DNA modification filtering and annotation	Hardy A, Matelot M, Touzeau A, Klopp C, Lopez-Roques C, Duharcourt S, Defrance M.	Bioinformatics. 2021 Jan 20	33471071
A reply to: Longitudinal changes in the frequency of mosaic chromosome Y loss in peripheral blood cells of aging men varies profoundly between individuals	Veitia RA.	Eur J Hum Genet. 2021 Sep	33462397
Adhesion-mediated heterogeneous actin organization governs apoptotic cell extrusion	Le AP, Rupprecht JF, Mège RM, Toyama Y, Lim CT, Ladoux B.	Nat Commun. 2021 Jan 15	33452264
Bariatric surgery induces a new gastric mucosa phenotype with increased functional glucagon-like peptide-1 expressing cells	Ribeiro-Parenti L, Jarry AC, Cavin JB, Willemetz A, Le Beyec J, Sannier A, Benadda S, Pelletier AL, Hourseau M, Léger T, Morlet B, Couvelard A, Anini Y, Msika S, Marmuse JP, Ledoux S, Le Gall M, Bado A.	Nat Commun. 2021 Jan 4	33397977
Actin filament oxidation by MICAL1 suppresses protections from cofilin-induced disassembly	Wioland H, Frémont S, Guichard B, Echard A, Jégou A, Romet-Lemonne G.	EMBO Rep. 2021 Feb 3	33393173
Microvascular maturation by mesenchymal stem cells in vitro improves blood perfusion in implanted tissue constructs	Atlas Y, Gorin C, Novais A, Marchand MF, Chatzopoulou E, Lesieur J, Bascetin R, Binet-Moussy C, Sadoine J, Lesage M, Opsal-Vital S, Péault B, Monnot C, Poliard A, Girard P, Germain S, Chaussain C, Muller L.	Biomaterials. 2021 Jan	33387754
Globins in the marine annelid Platynereis dumerilii shed new light on hemoglobin evolution in bilaterians	Song S, Starunov V, Bailly X, Ruta C, Kerner P, Cornelissen AJM, Balavoine G.	BMC Evol Biol. 2020 Dec 29	33371890
Clinical Genetics paving the way to the future	Veitia RA.	Clin Genet. 2021 Feb	33368166
The α -arrestin family of ubiquitin ligase adaptors links metabolism with selective endocytosis	Kahlhofer J, Leon S, Teis D, Schmidt O.	Biol Cell. 2021 Apr	33314196
Forkhead Transcription Factors in Health and Disease	Herman L, Todeschini AL, Veitia RA.	Trends Genet. 2021 May	33303287
A Role for the Mre11-Rad50-Xrs2 Complex in Gene Expression and Chromosome Organization	Forey R, Barthe A, Tittel-Elmer M, Wery M, Barrault MB, Ducrot C, Seeber A, Krietenstein N, Szachnowski U, Skrzypczak M, Ginalski K, Rowicka M, Cobb JA, Rando OJ, Soutourina J, Werner M, Dubrana K, Gasser SM, Morillon A, Pasero P, Lengronne A, Poli J.	Mol Cell. 2021 Jan 7	33278361

Roadmap for the multiscale coupling of biochemical and mechanical signals during development	Lenne PF, Munro E, Heemskerk I, Warmflash A, Bocanegra-Moreno L, Kishi K, Kicheva A, Long Y, Fruleux A, Boudaoud A, Saunders TE, Caldarelli P, Michaut A, Gros J, Maroudas-Sacks Y, Keren K, Hannezo E, Gartner ZJ, Stormo B, Gladfelter A, Rodrigues A, Shyer A, Minc N, Maître JL, Di Talia S, Khamaisi B, Sprinzak D, Tlili S.	Phys Biol. 2021 Apr 14	33276350
An image analysis method to survey the dynamics of polar protein abundance in the regulation of tip growth	Taherally S, Ershov D, Dmitrieff S, Minc N.	J Cell Sci. 2020 Nov 30	33257499
Iron Uptake Mechanisms in Marine Phytoplankton	Sutak R, Camadro JM, Lesuisse E.	Front Microbiol. 2020 Nov 5	33250865
Research on DnaA in the early days	Kohiyama M.	Res Microbiol. 2020 Dec	33245995
Evolution of the centrosome, from the periphery to the center	Azizmzadeh J.	Curr Opin Struct Biol. 2021 Feb	33242728
The PAX-FOXO1s trigger fast trans-differentiation of chick embryonic neural cells into alveolar rhabdomyosarcoma with tissue invasive properties limited by S phase entry inhibition	Gonzalez Curto G, Der Vartanian A, Frarma YE, Manceau L, Baldi L, Prisco S, Elarouci N, Causeret F, Korenkov D, Rigolet M, Aurade F, De Reynies A, Contremoulins V, Relaix F, Faklaris O, Briscoe J, Gilardi-Hebenstreit P, Ribes V.	PLoS Genet. 2020 Nov 11	33175861
Mechanically tuning actin filaments to modulate the action of actin-binding proteins	Jégou A, Romet-Lemonne G.	Curr Opin Cell Biol. 2021 Feb	33160108
The nuclear pore primes recombination-dependent DNA synthesis at arrested forks by promoting SUMO removal	Kramarz K, Schirmeisen K, Boucherit V, Ait Saada A, Lovo C, Palancade B, Freudenreich C, Lambert SAE.	Nat Commun. 2020 Nov 6	33159083
Singular manifolds of proteomic drivers to model the evolution of inflammatory bowel disease status	Morilla I, Léger T, Marah A, Pic I, Zaag H, Ogier-Denis E.	Sci Rep. 2020 Nov 4	33149233
Xrn1 influence on gene transcription results from the combination of general effects on elongating RNA pol II and gene-specific chromatin configuration	Begley V, Jordán-Pla A, Peñate X, Garrido-Godino AI, Challal D, Cuevas-Bermúdez A, Mitjavila A, Barucco M, Gutiérrez G, Singh A, Alepuz P, Navarro F, Libri D, Pérez-Ortín JE, Chávez S.	RNA Biol. 2021 Sep	33138675
Complementary mesoscale dynamics of spectrin and acto-myosin shape membrane territories during mechanoresponse	Ghisleni A, Galli C, Monzo P, Ascione F, Fardin MA, Scita G, Li Q, Maiuri P, Gauthier NC.	Nat Commun. 2020 Oct 9	33037189
PLK-1 promotes the merger of the parental genome into a single nucleus by triggering lamina disassembly	Velez-Aguilera G, Nkomo Nkoula S, Ossareh-Nazari B, Link J, Paouneskou D, Van Hove L, Joly N, Tavernier N, Verbavatz JM, Jantsch V, Pintard L.	Elife. 2020 Oct 8	33030429
In Vitro Reconstitution of Dynein Force Exertion in a Bulk Viscous Medium	Palenzuela H, Lacroix B, Sallé J, Minami K, Shima T, Jegou A, Romet-Lemonne G, Minc N.	Curr Biol. 2020 Nov 16	32946749
Control of Cell Migration Using Optogenetics	Valon L, de Beco S.	Methods Mol Biol. 2021	32939735
Molecular Tension Microscopy of E-Cadherin During Epithelial-Mesenchymal Transition	Canever H, Carollo PS, Fleurisson R, Girard PP, Borghi N.	Methods Mol Biol. 2021	32939728
Ancient DNA shows domestic horses were introduced in the southern Caucasus and Anatolia during the Bronze Age	Guimaraes S, Arbuckle BS, Peters J, Adcock SE, Buitenhuis H, Chazin H, Manaseryan N, Uerpmann HP, Grange T, Geigl EM.	Sci Adv. 2020 Sep 16	32938680
Clustering of strong replicators associated with active promoters is sufficient to establish an early-replicating domain	Brossas C, Valton AL, Venev SV, Chilaka S, Counillon A, Laurent M, Goncalves C, Duriez B, Picard F, Dekker J, Prioleau MN.	EMBO J. 2020 Nov 2	32935369
Immunostaining of Whole-Mount Drosophila Testes for 3D Confocal Analysis of Large Spermatozoa	Raich N, Contremoulins V, Kares RE.	J Vis Exp. 2020 Aug 27	32925873
Migrating Epithelial Monolayer Flows Like a Maxwell Viscoelastic Liquid	Tlili S, Durande M, Gay C, Ladoux B, Graner F, Delanoë-Ayari H.	Phys Rev Lett. 2020 Aug 21	32909763

Evaluating the probability of CRISPR-based gene drive contaminating another species	Courtier-Orgogozo V, Danchin A, Gouyon PH, Boëte C.	Evol Appl. 2020 Apr 17	32908593
Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms	Laussel C, Léon S.	Biochem Pharmacol. 2020 Dec	32890467
Human Microphysiological Models of Intestinal Tissue and Gut Microbiome	Steinway SN, Saleh J, Koo BK, Delacour D, Kim DH.	Front Bioeng Biotechnol. 2020 Jul 31	32850690
Dynamics of Tpm1.8 domains on actin filaments with single-molecule resolution	Bareja I, Wioland H, Janco M, Nicovich PR, Jégou A, Romet-Lemonne G, Walsh J, Böcking T.	Mol Biol Cell. 2020 Oct 15	32845787
A missense in HSF2BP causing primary ovarian insufficiency affects meiotic recombination by its novel interactor C19ORF57/BRME1	Felipe-Medina N, Caburet S, Sánchez-Sáez F, Condezo YB, de Rooij DG, Gómez-H L, Garcia-Valiente R, Todeschini AL, Duque P, Sánchez-Martin MA, Shalev SA, Llano E, Veitia RA, Pendás AM.	Elife. 2020 Aug 26	32845237
Nesprins are mechanotransducers that discriminate epithelial-mesenchymal transition programs	Déjardin T, Carollo PS, Sipieter F, Davidson PM, Seiler C, Cuvelier D, Cadot B, Sykes C, Gomes ER, Borghi N.	J Cell Biol. 2020 Oct 5	32790861
Complementary α -arrestin-ubiquitin ligase complexes control nutrient transporter endocytosis in response to amino acids	Ivashov V, Zimmer J, Schwabl S, Kahlhofer J, Weys S, Gstir R, Jakschitz T, Kremser L, Bonn GK, Lindner H, Huber LA, Leon S, Schmidt O, Teis D.	Elife. 2020 Aug 3	32744498
Can a Population Targeted by a CRISPR-Based Homing Gene Drive Be Rescued?	Rode NO, Courtier-Orgogozo V, Débarre F.	G3 (Bethesda). 2020 Sep 2	32727921
[A new type of active matter explains the mechanism of bacterial aggregation and its impact on meningococcal infection]	Bonazzi D, Lo Schiavo V, Machata S, Djafer-Cherif I, Nivoit P, Manriquez V, Tanimoto H, Husson J, Henry N, Chaté H, Voituriez R, Dumenil G.	C R Biol. 2020 Jun 5	32720484
Spatial control of nucleoporin condensation by fragile X-related proteins	Agote-Aran A, Schmucker S, Jerabkova K, Jmel Boyer I, Berto A, Pacini L, Ronchi P, Kleiss C, Guerard L, Schwab Y, Moine H, Mandel JL, Jacquemont S, Bagni C, Sumara I.	EMBO J. 2020 Oct 15	32706158
The Paramecium histone chaperone Spt16-1 is required for Pgm endonuclease function in programmed genome rearrangements	de Vanssay A, Touzeau A, Arnaiz O, Frapporti A, Phipps J, Duharcourt S.	PLoS Genet. 2020 Jul 23	32702045
Degradation of Non-coding RNAs Promotes Recycling of Termination Factors at Sites of Transcription	Villa T, Barucco M, Martin-Niclos MJ, Jacquier A, Libri D.	Cell Rep. 2020 Jul 21	32698007
Cryo-EM of human Arp2/3 complexes provides structural insights into actin nucleation modulation by ARPC5 isoforms	von Loeffelholz O, Purkiss A, Cao L, Kjaer S, Kogata N, Romet-Lemonne G, Way M, Moores CA.	Biol Open. 2020 Jul 31	32661131
Microtubules originate asymmetrically at the somatic golgi and are guided via Kinesin2 to maintain polarity within neurons	Mukherjee A, Brooks PS, Bernard F, Guichet A, Conduit PT.	Elife. 2020 Jul 13	32657758
The role of single cell mechanical behavior and polarity in driving collective cell migration	Jain S, Cachoux VML, Narayana GHNS, de Beco S, D'Alessandro J, Cellerin V, Chen T, Heuzé ML, Marcq P, Mège RM, Kabla AJ, Lim CT, Ladoux B.	Nat Phys. 2020 Jul	32641972
An exome-wide exploration of cases of primary ovarian insufficiency uncovers novel sequence variants and candidate genes	Alvarez-Mora MI, Todeschini AL, Caburet S, Perets LP, Mila M, Younis JS, Shalev S, Veitia RA.	Clin Genet. 2020 Sep	32613604
Mutations in the Drosophila rough deal gene affecting RZZ kinetochore function	Menant A, Karess RE.	Biol Cell. 2020 Oct	32602944
Ultrastructural and dynamic studies of the endosomal compartment in Down syndrome	Botté A, Lainé J, Xicota L, Heiligenstein X, Fontaine G, Kasri A, Rivals I, Goh P, Faklaris O, Cossec JC, Morel E, Rebillat AS, Nizetic D, Raposo G, Potier MC.	Acta Neuropathol Commun. 2020 Jun 24	32580751
SPIN90 associates with mDia1 and the Arp2/3 complex to regulate cortical actin organization	Cao L, Yonis A, Vaghela M, Barriga EH, Chugh P, Smith MB, Maufront J, Lavoie G, Méant A, Ferber E, Bovellan M, Alberts A, Bertin A, Mayor R, Paluch EK, Roux PP, Jégou A, Romet-Lemonne G, Charras G.	Nat Cell Biol. 2020 Jul	32572169
DHH pathogenic variants involved in 46,XY disorders of sex development differentially impact protein self-cleavage and structural conformation	Elzaïat M, Flatters D, Sierra-Díaz DC, Legois B, Laissue P, Veitia RA.	Hum Genet. 2020 Nov	32504121

A universal method for the rapid isolation of all known classes of functional silencing small RNAs	Greutzinger T, Oberlin S, Schott G, Handler D, Svozil J, Barragan-Borrero V, Humbert A, Duharcourt S, Brennecke J, Voynet O.	Nucleic Acids Res. 2020 Aug 20	32496553
Physiological involvement of presynaptic L-type voltage-dependent calcium channels in GABA release of cerebellar molecular layer interneurons	Rey S, Maton G, Satake S, Llano I, Kang S, Surmeier DJ, Silverman RB, Collin T.	J Neurochem. 2020 Nov	32491217
Caveolae Control Contractile Tension for Epithelia to Eliminate Tumor Cells	Teo JL, Gomez GA, Weeratunga S, Davies EM, Noordstra I, Budnar S, Katsuno-Kambe H, McGrath MJ, Verma S, Tomatis V, Acharya BR, Balasubramaniam L, Templin RM, McMahon KA, Lee YS, Ju RJ, Stebhens SJ, Ladoux B, Mitchell CA, Collins BM, Parton RG, Yap AS.	Dev Cell. 2020 Jul 6	32485139
Homozygous hypomorphic BRCA2 variant in primary ovarian insufficiency without cancer or Fanconi anaemia trait	Caburet S, Heddar A, Dardillac E, Creux H, Lambert M, Messiaen S, Tourpin S, Livera G, Lopez BS, Misrahi M.	J Med Genet. 2020 Jun 1:jmedgenet-2019-106672. doi: 10.1136/jmedgenet-2019-106672. Online ahead of print.	32482800
The Perinuclear ER Scales Nuclear Size Independently of Cell Size in Early Embryos	Mukherjee RN, Sallé J, Dmitrieff S, Nelson KM, Oakey J, Minc N, Levy DL.	Dev Cell. 2020 Aug 10	32473090
Ancient genomes from present-day France unveil 7,000 years of its demographic history	Brunel S, Bennett EA, Cardin L, Garraud D, Barrand Emam H, Beylier A, Boulestin B, Chenal F, Ciesielski E, Convertini F, Dedet B, Desbrosse-Degobertiere S, Desenne S, Dubouloz J, Duday H, Escalon G, Fabre V, Gailledrat E, Gandelin M, Gleize Y, Goepfert S, Guilaine J, Hachem L, Ilett M, Lambach F, Maziere F, Perrin B, Plouin S, Pinard E, Praud I, Richard I, Riquier V, Roure R, Sendra B, Thevenet C, Thiol S, Vauquelin E, Vergnaud L, Grange T, Geigl EM, Pruvost M.	Proc Natl Acad Sci U S A. 2020 Jun 9	32457149
Cell response to substrate rigidity is regulated by active and passive cytoskeletal stress	Doss BL, Pan M, Gupta M, Greci G, Mège RM, Lim CT, Sheetz MP, Voituriez R, Ladoux B.	Proc Natl Acad Sci U S A. 2020 Jun 9	32444491
Nesprin-2 accumulates at the front of the nucleus during confined cell migration	Davidson PM, Battistella A, Déjardin T, Betz T, Plastino J, Borghi N, Cadot B, Sykes C.	EMBO Rep. 2020 Jul 3	32419336
Bi-allelic Variations of SMO in Humans Cause a Broad Spectrum of Developmental Anomalies Due to Abnormal Hedgehog Signaling	Le TL, Sribudiani Y, Dong X, Huber C, Kois C, Baujat G, Gordon CT, Mayne V, Galmiche L, Serre V, Goudin N, Zarhrate M, Bole-Feysot C, Masson C, Nitschké P, Verheijen FW, Pais L, Pelet A, Sadedin S, Pugh JA, Shur N, White SM, El Chehadeh S, Christodoulou J, Cormier-Daire V, Hofstra RMW, Lyonnet S, Tan TY, Attié-Bitach T, Kerstjens-Frederikse WS, Amiel J, Thomas S.	Am J Hum Genet. 2020 Jun 4	32413283
Phosphorylation of the microtubule-severing AAA+ enzyme Katanin regulates <i>C. elegans</i> embryo development	Joly N, Beaumale E, Van Hove L, Martino L, Pintard L.	J Cell Biol. 2020 Jun 1	32412594
Sensitive detection of protein ubiquitylation using a protein fragment complementation assay	Le Boulch M, Brossard A, Le Dez G, Léon S, Rabut G.	J Cell Sci. 2020 Jun 24	32409563
Verotoxin-1-Induced ER Stress Triggers Apoptotic or Survival Pathways in Burkitt Lymphoma Cells	Debernardi J, Pioche-Durieu C, Cam EL, Wiels J, Robert A.	Toxins (Basel). 2020 May 11	32403276

Galectin-3 modulates epithelial cell adaptation to stress at the ER-mitochondria interface	Coppin L, Jannin A, Ait Yahya E, Thuillier C, Villenet C, Tardivel M, Bongiovanni A, Gaston C, de Beco S, Barois N, van Seuningen I, Durand E, Bonnefond A, Vienne JC, Vamecq J, Figeac M, Vincent A, Delacour D, Porchet N, Pigny P.	Cell Death Dis. 2020 May 12	32398681
The Muller's Ratchet and Aging	Govindaraju DR, Innan H, Veitia RA.	Trends Genet. 2020 Jun	32396833
Regulation of the RNA-binding protein Smaug by the GPCR Smoothed via the kinase Fused	Bruzzo L, Argüelles C, Sanial M, Miled S, Alvisi G, Gonçalves-Antunes M, Qasrawi F, Holmgren RA, Smibert CA, Lipshitz HD, Boccaccio GL, Plessis A, Bécam I.	EMBO Rep. 2020 Jul 3	32383557
Direct observation of helicase-topoisomerase coupling within reverse gyrase	Yang X, Garnier F, Débat H, Strick TR, Nadal M.	Proc Natl Acad Sci U S A. 2020 May 19	32371489
Osh6 requires Ist2 for localization to ER-PM contacts and efficient phosphatidylserine transport in budding yeast	D'Ambrosio JM, Albanèse V, Lipp NF, Fleuriot L, Debayle D, Drin G, Čopič A.	J Cell Sci. 2020 Jun 4	32327560
Channeling Effect and Tissue Morphology in a Perfusion Bioreactor Imaged by X-Ray Microtomography	Beauchesne CC, Chabanon M, Smaniotto B, Ladoux B, Goyeau B, David B.	Tissue Eng Regen Med. 2020 Jun	32314312
Endosomal Confinement of Gold Nanospheres, Nanorods, and Nanoraspberries Governs Their Photothermal Identity and Is Beneficial for Cancer Cell Therapy	Plan Sangnier A, Van de Walle A, Aufaure R, Fradet M, Motte L, Guénin E, Lalatonne Y, Wilhelm C.	Adv Biosyst. 2020 Apr	32293165
Comment on "Bad Language": Resolving some Ambiguities about Chirality	Petitjean M.	Angew Chem Int Ed Engl. 2020 May 11	32291868
Ubc13-Mms2 cooperates with a family of RING E3 proteins in budding yeast membrane protein sorting	Renz C, Albanèse V, Tröster V, Albert TK, Santt O, Jacobs SC, Khmelinskii A, Léon S, Ulrich HD.	J Cell Sci. 2020 May 27	32265276
A metabolic switch regulates the transition between growth and diapause in <i>C. elegans</i>	Penkov S, Raghuraman BK, Erkut C, Oertel J, Galli R, Ackerman EJM, Vorkel D, Verbavatz JM, Koch E, Fahmy K, Shevchenko A, Kurzchalia TV.	BMC Biol. 2020 Mar 18	32188449
Epidermal UVA screening capacity measured in situ as an indicator of light acclimation state of leaves of a very plastic alpine plant <i>Soldanella alpina</i> L	Bidel LPR, Meyer S, Talhouët AC, Baudin X, Daniel C, Cazals G, Streb P.	Plant Physiol Biochem. 2020 Jun	32179468
Mixing and Matching Chromosomes during Female Meiosis	Rubin T, Macaisne N, Huynh JR.	Cells. 2020 Mar 12	32178277
The glue produced by <i>Drosophila melanogaster</i> for pupa adhesion is universal	Borne F, Kovalev A, Gorb S, Courtier-Orgogozo V.	J Exp Biol. 2020 Apr 23	32165432
Cytoskeleton Force Exertion in Bulk Cytoplasm	Xie J, Minc N.	Front Cell Dev Biol. 2020 Feb 13	32117991
A helical inner scaffold provides a structural basis for centriole cohesion	Le Guennec M, Klena N, Gambarotto D, Laporte MH, Tassin AM, van den Hoek H, Erdmann PS, Schaffer M, Kovacic L, Borgers S, Goldie KN, Stahlberg H, Bornens M, Azimzadeh J, Engel BD, Hamel V, Guichard P.	Sci Adv. 2020 Feb 14	32110738
Termination of non-coding transcription in yeast relies on both an RNA Pol II CTD interaction domain and a CTD-mimicking region in Sen1	Han Z, Jasnovidova O, Haidara N, Tudek A, Kubicek K, Libri D, Stefl R, Porrua O.	EMBO J. 2020 Apr 1	32107786
Whole embryo culture, transcriptomics and RNA interference identify TBX1 and FGF11 as novel regulators of limb development in the mouse	Tejedor G, Laplace-Builhé B, Luz-Crawford P, Assou S, Barthelaix A, Mathieu M, Kissa K, Jorgensen C, Collignon J, Chuchana P, Djouad F.	Sci Rep. 2020 Feb 27	32107392
Dullard-mediated Smad1/5/8 inhibition controls mouse cardiac neural crest cells condensation and outflow tract septation	Darrigrand JF, Valente M, Comai G, Martinez P, Petit M, Nishinakamura R, Osorio DS, Renault G, Marchiol C, Ribes V, Cadot B.	Elife. 2020 Feb 27	32105214
Galectin 3 Deficiency Alters Chondrocyte Primary Cilium Formation and Exacerbates Cartilage Destruction via Mitochondrial Apoptosis	Hafsia N, Forien M, Renaudin F, Delacour D, Reboul P, Van Lent P, Cohen-Solal M, Lioté F, Poirier F, Ea HK.	Int J Mol Sci. 2020 Feb 22	32098291
The Gene Balance Hypothesis: Epigenetics and Dosage Effects in Plants	Shi X, Chen C, Yang H, Hou J, Ji T, Cheng J, Veitia RA, Birchler JA.	Methods Mol Biol. 2020	32088896
Publisher Correction: Moderate Nucleoporin 133 deficiency leads to glomerular damage in zebrafish	Cianciolo Cosentino C, Berto A, Pelletier S, Hari M, Loffing J, Neuhauss SCF, Doye V.	Sci Rep. 2020 Feb 19	32075994

Sen1 Is Recruited to Replication Forks via Ctf4 and Mrc1 and Promotes Genome Stability	Appanah R, Lones EC, Aiello U, Libri D, De Piccoli G.	Cell Rep. 2020 Feb 18	32075754
Special issue on "Molecular genetics of aging and longevity": a critical time in the field of geroscience	Benayoun BA, Veitia RA.	Hum Genet. 2020 Mar	32052140
The coding loci of evolution and domestication: current knowledge and implications for bio-inspired genome editing	Courtier-Orgogozo V, Martin A.	J Exp Biol. 2020 Feb 7	32034045
Actin reduction by MsrB2 is a key component of the cytokinetic abscission checkpoint and prevents tetraploidy	Bai J, Wioland H, Advedissian T, Cuvelier F, Romet-Lemonne G, Echard A.	Proc Natl Acad Sci U S A. 2020 Feb 25	32029597
Desmosomal Junctions Govern Tissue Integrity and Actomyosin Contractility in Apoptotic Cell Extrusion	Thomas M, Ladoux B, Toyama Y.	Curr Biol. 2020 Feb 24	32004454
Formation of <i>S. pombe</i> Erh1 homodimer mediates gametogenic gene silencing and meiosis progression	Hazra D, Andrić V, Palancade B, Rougemaille M, Graille M.	Sci Rep. 2020 Jan 23	31974447
Blood contains circulating cell-free respiratory competent mitochondria	Al Amir Dache Z, Otandault A, Tanos R, Pastor B, Meddeb R, Sanchez C, Arena G, Lasorsa L, Bennett A, Grange T, El Messaoudi S, Mazard T, Prevostel C, Thierry AR.	FASEB J. 2020 Mar	31957088
When Separation Strengthens Ties	Canever H, Sipieter F, Borghi N.	Trends Cell Biol. 2020 Mar	31954602
Yeast lipids	Čopič A, Petrovič U.	Yeast. 2020 Jan	31943346
Author Correction: Moderate Nucleoporin 133 deficiency leads to glomerular damage in zebrafish	Cianciolo Cosentino C, Berto A, Pelletier S, Hari M, Loffing J, Neuhauss SCF, Doye V.	Sci Rep. 2020 Jan 15	31937913
Conventional and unconventional interactions of the transcription factor FOXL2 uncovered by a proteome-wide analysis	Penrad-Mobayed M, Perrin C, Herman L, Todeschini AL, Nigon F, Cosson B, Caburet S, Veitia RA.	FASEB J. 2020 Jan	31914586
Activity-dependent death of transient Cajal-Retzius neurons is required for functional cortical wiring	Riva M, Genescu I, Habermacher C, Orduz D, Ledonne F, Rijli FM, López-Bendito G, Coppola E, Garel S, Angulo MC, Pierani A.	Elife. 2019 Dec 31	31891351
Molecular Chirality in Classical Spacetime: Solving the Controversy about the Spinning Cone Model of Rotating Molecules	Petitjean M.	Chemistry. 2020 Aug 21	31867762
The many implications of actin filament helicity	Jegou A, Romet-Lemonne G.	Semin Cell Dev Biol. 2020 Jun	31862222
Geometrical Constraints Greatly Hinder Formin mDia1 Activity	Suzuki EL, Chikireddy J, Dmitrieff S, Guichard B, Romet-Lemonne G, Jégou A.	Nano Lett. 2020 Jan 8	31797667
hVFL3/CCDC61 is a component of mother centriole subdistal appendages required for centrosome cohesion and positioning	Pizon V, Gaudin N, Poteau M, Cifuentes-Diaz C, Demdou R, Heyer V, Reina San Martin B, Azimzadeh J.	Biol Cell. 2020 Jan	31789463
The adaptive response to iron involves changes in energetic strategies in the pathogen <i>Candida albicans</i>	Duval C, Macabiou C, Garcia C, Lesuisse E, Camadro JM, Auchère F.	Microbiologyopen. 2020 Feb	31788966
A novel variant m.8561C>T in the overlapping region of MT-ATP6 and MT-ATP8 in a child with early-onset severe neurological signs	Fragaki K, Chausseot A, Serre V, Acquaviva C, Bannwarth S, Rouzier C, Chabrol B, Paquis-Flucklinger V.	Mol Genet Metab Rep. 2019 Nov 21	31788426
Purification and In Vitro Analysis of the Exosome Cofactors Nrd1-Nab3 and Trf4-Air2	Porrúa O.	Methods Mol Biol. 2020	31768982
Molecular scaffolds: when DNA becomes the hardware for single-molecule investigations	Gosse C, Strick TR, Kostrz D.	Curr Opin Chem Biol. 2019 Dec	31759266
Scavenger Receptor Cysteine-Rich domains of Lysyl Oxidase-Like2 regulate endothelial ECM and angiogenesis through non-catalytic scaffolding mechanisms	Umana-Diaz C, Pichol-Thievend C, Marchand MF, Atlas Y, Salza R, Malbouyres M, Barret A, Teillon J, Ardidie-Robouant C, Ruggiero F, Monnot C, Girard P, Guilluy C, Ricard-Blum S, Germain S, Muller L.	Matrix Biol. 2020 Jun	31759052

Mechanism of synergistic actin filament pointed end depolymerization by cyclase-associated protein and cofilin	Kotila T, Wioland H, Enkavi G, Kogan K, Vattulainen I, Jégou A, Romet-Lemonne G, Lappalainen P.	Nat Commun. 2019 Nov 22	31757941
The advantages of microfluidics to study actin biochemistry and biomechanics	Wioland H, Suzuki E, Cao L, Romet-Lemonne G, Jegou A.	J Muscle Res Cell Motil. 2020 Mar	31749040
Dynamic Polarization of the Multiciliated Planarian Epidermis between Body Plan Landmarks	Vu HT, Mansour S, Kücken M, Blasse C, Basquin C, Azimzadeh J, Myers EW, Bruschi L, Rink JC.	Dev Cell. 2019 Nov 18	31743666
Emergence of a Bilaterally Symmetric Pattern from Chiral Components in the Planarian Epidermis	Basquin C, Ershov D, Gaudin N, Vu HT, Louis B, Papon JF, Orfila AM, Mansour S, Rink JC, Azimzadeh J.	Dev Cell. 2019 Nov 18	31743665
The reverse gyrase TopR1 is responsible for the homeostatic control of DNA supercoiling in the hyperthermophilic archaeon Sulfolobus solfataricus	Couturier M, Gadelle D, Forterre P, Nadal M, Garnier F.	Mol Microbiol. 2020 Feb	31713907
Acute Kidney Injury Induces Remote Cardiac Damage and Dysfunction Through the Galectin-3 Pathway	Prud'homme M, Coutrot M, Michel T, Boutin L, Genest M, Poirier F, Launay JM, Kane B, Kinugasa S, Prakoura N, Vandermeersch S, Cohen-Solal A, Delcayre C, Samuel JL, Mehta R, Gayat E, Mebazaa A, Chadjichristos CE, Legrand M.	JACC Basic Transl Sci. 2019 Oct 28	31709320
In vivo generation of haematopoietic stem/progenitor cells from bone marrow-derived haemogenic endothelium	Yvernogeu L, Gautier R, Petit L, Houry H, Relaix F, Ribes V, Sang H, Charbord P, Souyri M, Robin C, Jaffredo T.	Nat Cell Biol. 2019 Nov	31685991
The Interactome analysis of the Respiratory Syncytial Virus protein M2-1 suggests a new role in viral mRNA metabolism post-transcription	Bouillier C, Cosentino G, Léger T, Rincheval V, Richard CA, Desquesnes A, Sitterlin D, Blouquit-Laye S, Eléouët JF, Gault E, Rameix-Welti MA.	Sci Rep. 2019 Oct 24	31649314
MIRAGE Syndrome: Phenotypic Rescue by Somatic Mutation and Selection	Veitia RA.	Trends Mol Med. 2019 Nov	31624021
Evolutionary Gain of Dbx1 Expression Drives Subplate Identity in the Cerebral Cortex	Arai Y, Cwetsch AW, Coppola E, Cipriani S, Nishihara H, Kanki H, Saillour Y, Freret-Hodara B, Dutriaux A, Okada N, Okano H, Dehay C, Nardelli J, Gressens P, Shimogori T, D'Onofrio G, Pierani A.	Cell Rep. 2019 Oct 15	31618633
Transportin-1 binds to the HIV-1 capsid via a nuclear localization signal and triggers uncoating	Fernandez J, Machado AK, Lyonnais S, Chamontin C, Gärtner K, Léger T, Henriquet C, Garcia C, Portilho DM, Pugnieri M, Chaloin L, Muriaux D, Yamauchi Y, Blaise M, Nisole S, Arhel NJ.	Nat Microbiol. 2019 Nov	31611641
The unstructured linker arms of MutL enable GATC site incision beyond roadblocks during initiation of DNA mismatch repair	Mardenborough YSN, Nitsenko K, Laffeber C, Duboc C, Sahin E, Quessada-Vial A, Winterwerp HHK, Sixma TK, Kanaar R, Friedhoff P, Strick TR, Lebbink JHG.	Nucleic Acids Res. 2019 Dec 16	31598722
LGP2 binds to PACT to regulate RIG-I- and MDA5-mediated antiviral responses	Sanchez David RY, Combredet C, Najburg V, Millot GA, Beauclair G, Schwikowski B, Léger T, Camadro JM, Jacob Y, Bellalou J, Jouvenet N, Tangy F, Komarova AV.	Sci Signal. 2019 Oct 1	31575732
A modular DNA scaffold to study protein-protein interactions at single-molecule resolution	Kostrz D, Wayment-Steele HK, Wang JL, Follenfant M, Pande VS, Strick TR, Gosse C.	Nat Nanotechnol. 2019 Oct	31548690
Gephebase, a database of genotype-phenotype relationships for natural and domesticated variation in Eukaryotes	Courtier-Orgogozo V, Arnoult L, Prigent SR, Wiltgen S, Martin A.	Nucleic Acids Res. 2020 Jan 8	31544935
Morphology of the Denisovan phalanx closer to modern humans than to Neanderthals	Bennett EA, Crevecoeur I, Viola B, Derevianko AP, Shunkov MV, Grange T, Maureille B, Geigl EM.	Sci Adv. 2019 Sep 4	31517046
Biophysical Insight on the Membrane Insertion of an Arginine-Rich Cell-Penetrating Peptide	Jobin ML, Vamparys L, Deniau R, Grélard A, Mackereth CD, Fuchs PFJ, Alves ID.	Int J Mol Sci. 2019 Sep 9	31505894
Importin- β /karyopherin- β 1 modulates mitotic microtubule function and taxane sensitivity in cancer cells via its nucleoporin-binding region	Verrico A, Rovella P, Di Francesco L, Damizia M, Staid DS, Le Pera L, Schininà ME, Lavia P.	Oncogene. 2020 Jan	31492900

Myosin II isoforms play distinct roles in adherens junction biogenesis	Heuzé ML, Sankara Narayana GHN, D'Alessandro J, Cellerin V, Dang T, Williams DS, Van Hest JC, Marcq P, Mège RM, Ladoux B.	Elife. 2019 Sep 5	31486768
The induction of HAD-like phosphatases by multiple signaling pathways confers resistance to the metabolic inhibitor 2-deoxyglucose	Defenouillère Q, Verraes A, Laussel C, Friedrich A, Schacherer J, Léon S.	Sci Signal. 2019 Sep 3	31481524
An electrostatic switching mechanism to control the lipid transfer activity of Osh6p	Lipp NF, Gautier R, Magdeleine M, Renard M, Albanèse V, Čopič A, Drin G.	Nat Commun. 2019 Sep 2	31477717
7th Euro Evo Devo meeting: Report on the "Evolution of regeneration in Metazoa" symposium	Gazave E, Röttinger E.	J Exp Zool B Mol Dev Evol. 2021 Mar	31461214
Impact of magnetic nanoparticle surface coating on their long-term intracellular biodegradation in stem cells	Plan Sangnier A, Van de Walle AB, Curcio A, Le Borgne R, Motte L, Lalatonne Y, Wilhelm C.	Nanoscale. 2019 Sep 21	31453605
Redox modifications of cysteine-containing proteins, cell cycle arrest and translation inhibition: Involvement in vitamin C-induced breast cancer cell death	El Banna N, Hatem E, Heneman-Masurel A, Léger T, Baille D, Vernis L, Garcia C, Martineau S, Dupuy C, Vagner S, Camadro JM, Huang ME.	Redox Biol. 2019 Sep	31412312
A standardized nomenclature and atlas of the male terminalia of <i>Drosophila melanogaster</i>	Rice G, David JR, Kamimura Y, Masly JP, Mcgregor AP, Nagy O, Noselli S, Nunes MDS, O'Grady P, Sánchez-Herrero E, Siegal ML, Toda MJ, Rebeiz M, Courtier-Orgogozo V, Yassin A.	Fly (Austin). 2019 Mar-Dec	31401934
Myosin IIA and formin dependent mechanosensitivity of filopodia adhesion	Alieva NO, Efremov AK, Hu S, Oh D, Chen Z, Natarajan M, Ong HT, Jégou A, Romet-Lemonne G, Groves JT, Sheetz MP, Yan J, Bershadsky AD.	Nat Commun. 2019 Aug 9	31399564
Opposing chromatin remodelers control transcription initiation frequency and start site selection	Kubik S, Bruzzone MJ, Challal D, Dreos R, Mattarocci S, Bucher P, Libri D, Shore D.	Nat Struct Mol Biol. 2019 Aug	31384063
Label-free quantitative proteomics in <i>Candida</i> yeast species: technical and biological replicates to assess data reproducibility	Lelandais G, Denecker T, Garcia C, Danila N, Léger T, Camadro JM.	BMC Res Notes. 2019 Aug 1	31370875
Micropattern-based platform as a physiologically relevant model to study epithelial morphogenesis and nephrotoxicity	Bosch-Fortea M, Rodriguez-Fraticelli AE, Herranz G, Hachimi M, Barea MD, Young J, Ladoux B, Martin-Belmonte F.	Biomaterials. 2019 Oct	31326655
Enhanced cell-cell contact stability and decreased N-cadherin-mediated migration upon fibroblast growth factor receptor-N-cadherin cross talk	Nguyen T, Duchesne L, Sankara Narayana GHN, Boggetto N, Fernig DD, Uttamrao Murade C, Ladoux B, Mège RM.	Oncogene. 2019 Aug	31312021
Loss of Cubilin, the intrinsic factor-vitamin B12 receptor, impairs visceral endoderm endocytosis and endodermal patterning in the mouse	Perea-Gomez A, Cases O, Lelièvre V, Pulina MV, Collignon J, Hadjantonakis AK, Kozyraki R.	Sci Rep. 2019 Jul 15	31308417
Sustained Oscillations of Epithelial Cell Sheets	Peyret G, Mueller R, d'Alessandro J, Begnaud S, Marcq P, Mège RM, Yeomans JM, Doostmohammadi A, Ladoux B.	Biophys J. 2019 Aug 6	31307676
Differential Requirements for Centrioles in Mitotic Centrosome Growth and Maintenance	Cabral G, Laos T, Dumont J, Dammermann A.	Dev Cell. 2019 Aug 5	31303441
Silver nanoparticle-adjuvanted vaccine protects against lethal influenza infection through inducing BALT and IgA-mediated mucosal immunity	Sanchez-Guzman D, Le Guen P, Villeret B, Sola N, Le Borgne R, Guyard A, Kemmel A, Crestani B, Sallenave JM, Garcia-Verdugo I.	Biomaterials. 2019 Oct	31279103
BMP4 patterns Smad activity and generates stereotyped cell fate organization in spinal organoids	Duval N, Vaslin C, Barata TC, Frarma Y, Contremoulins V, Baudin X, Nedelec S, Ribes VC.	Development. 2019 Jul 25	31239243
Systematic mapping of cell wall mechanics in the regulation of cell morphogenesis	Davi V, Chevalier L, Guo H, Tanimoto H, Barrett K, Couturier E, Boudaoud A, Minc N.	Proc Natl Acad Sci U S A. 2019 Jul 9	31235592

The Polycomb protein Ezh1 mediates H3K9 and H3K27 methylation to repress transposable elements in Paramecium	Frapporti A, Miró Pina C, Arnaiz O, Holoch D, Kawaguchi T, Humbert A, Eleftheriou E, Lombard B, Loew D, Sperling L, Guitot K, Margueron R, Duharcourt S.	Nat Commun. 2019 Jun 20	31221974
Ectodysplasin-A signaling is a key integrator in the lacrimal gland-cornea feedback loop	Kuony A, Ikkala K, Kalha S, Magalhães AC, Pirttiniemi A, Michon F.	Development. 2019 Jul 16	31221639
Reciprocal regulation of actomyosin organization and contractility in nonmuscle cells by tropomyosins and alpha-actinins	Hu S, Grobe H, Guo Z, Wang YH, Doss BL, Pan M, Ladoux B, Bershadsky AD, Zaidel-Bar R.	Mol Biol Cell. 2019 Jul 22	31216217
FBXW5 Promotes Tumorigenesis and Metastasis in Gastric Cancer via Activation of the FAK-Src Signaling Pathway	Yeo MS, Subhash VV, Suda K, Balcioglu HE, Zhou S, Thuya WL, Loh XY, Jammula S, Peethala PC, Tan SH, Xie C, Wong FY, Ladoux B, Ito Y, Yang H, Goh BC, Wang L, Yong WP.	Cancers (Basel). 2019 Jun 17	31213005
Correlative single-molecule localization microscopy and electron tomography reveals endosome nanoscale domains	Franke C, Repnik U, Segeletz S, Brouilly N, Kalaidzidis Y, Verbavatz JM, Zerial M.	Traffic. 2019 Aug	31206952
Extracellular Pax6 Regulates Tangential Cajal-Retzius Cell Migration in the Developing Mouse Neocortex	Kaddour H, Coppola E, Di Nardo AA, Le Poupon C, Mailly P, Wizenmann A, Volovitch M, Prochiantz A, Pierani A.	Cereb Cortex. 2020 Mar 21	31206158
Transcription-Coupled Repair: From Cells to Single Molecules and Back Again	Strick TR, Portman JR.	J Mol Biol. 2019 Sep 20	31175845
Bacterial Lipid II Analogs: Novel In Vitro Substrates for Mammalian Oligosaccharyl Diphosphodolichol Diphosphatase (DLODP) Activities	Massarweh A, Bosco M, Chantret I, Léger T, Jamal L, Roper DI, Dowson CG, Busca P, Bouhss A, Gravier-Pelletier C, Moore SEH.	Molecules. 2019 Jun 6	31174247
DNA Content, Cell Size, and Cell Senescence	Veitia RA.	Trends Biochem Sci. 2019 Aug	31160123
Causes and effects of haploinsufficiency	Johnson AF, Nguyen HT, Veitia RA.	Biol Rev Camb Philos Soc. 2019 Oct	31149781
Protein interacting with Amyloid Precursor Protein tail-1 (PAT1) is involved in early endocytosis	Dilsizoglu Senol A, Tagliaferro L, Gorisse-Hussonnois L, Rebeillard F, Huguët L, Geny D, Contremoulins V, Corlier F, Potier MC, Chasseigneaux S, Darmon M, Allinquant B.	Cell Mol Life Sci. 2019 Dec	31139847
Insights into the loss of the Y chromosome with age in control individuals and in patients with age-related macular degeneration using genotyping microarray data	Grassmann F		31134332
Repeated evolution of asymmetric genitalia and right-sided mating behavior in the <i>Drosophila</i> nannoptera species group	Acurio AE, Rhebergen FT, Paulus S, Courtier-Orgogozo V, Lang M.	BMC Evol Biol. 2019 May 27	31132984
Dynamic acclimation to sunlight in an alpine plant, <i>Soldanella alpina</i> L	Talhouët AC, Meyer S, Baudin X, Streb P.	Physiol Plant. 2020 Mar	31090072
Chromatin condensation fluctuations rather than steady-state predict chromatin accessibility	Audugé N, Padilla-Parra S, Tramier M, Borghi N, Coppey-Moisan M.	Nucleic Acids Res. 2019 Jul 9	31081027
Lipid droplet biogenesis	Jackson CL.	Curr Opin Cell Biol. 2019 Aug	31075519

Taxonomy of the order Bunyavirales: update 2019	Abudurexiti A, Adkins S, Alioto D, Alkhovsky SV, Avšič-Županc T, Ballinger MJ, Bente DA, Beer M, Bergeron É, Blair CD, Briese T, Buchmeier MJ, Burt FJ, Calisher CH, Cháng C, Charrel RN, Choi IR, Clegg JCS, de la Torre JC, de Lamballerie X, Dèng F, Di Serio F, Digiaro M, Drebot MA, Duàn X, Ebihara H, Elbeaino T, Ergünay K, Fulhorst CF, Garrison AR, Gão GF, Gonzalez JJ, Groschup MH, Günther S, Haenni AL, Hall RA, Hepojoki J, Hewson R, Hú Z, Hughes HR, Jonson MG, Junglen S, Klempa B, Klingström J, Kòu C, Laenen L, Lambert AJ, Langevin SA, Liu D, Lukashevich IS, Luò T, Lǚ C, Maes P, de Souza WM, Marklewitz M, Martelli GP, Matsuno K, Mielke-Ehret N, Minutolo M, Mirazimi A, Moming A, Mühlbach HP, Naidu R, Navarro B, Nunes MRT, Palacios G, Papa A, Pauvolid-Corrêa A, Pawęska JT, Qiáo J, Radoshitzky SR, Resende RO, Romanowski V, Sall AA, Salvato MS, Sasaya T, Shěn S, Shí X, Shirako Y, Simmonds P, Sironi M, Song JW, Spengler JR, Stenglein MD, Sū Z, Sūn S, Táng S, Turina M, Wáng B, Wáng C, Wáng H, Wáng J, Wèi T, Whitfield AE, Zerbini FM, Zhāng J, Zhāng L, Zhāng Y, Zhang YZ, Zhāng Y, et al.	Arch Virol. 2019 Jul	31065850
Adsorption of Proteins on m-CPPD and Urate Crystals Inhibits Crystal-induced Cell Responses: Study on Albumin-crystal Interaction	Renaudin F, Sarda S, Campillo-Gimenez L, Séverac C, Léger T, Charvillat C, Rey C, Lioté F, Camadro JM, Ea HK, Combes C.	J Funct Biomater. 2019 Apr 25	31027151
A truncating MEIOB mutation responsible for familial primary ovarian insufficiency abolishes its interaction with its partner SPATA22 and their recruitment to DNA double-strand breaks	Caburet S, Todeschini AL, Petrillo C, Martini E, Farran ND, Legois B, Livera G, Younis JS, Shalev S, Veitia RA.	EBioMedicine. 2019 Apr	31000419
High-throughput Exploration of the Network Dependent on AKT1 in Mouse Ovarian Granulosa Cells	Elzaia M, Herman L, Legois B, Léger T, Todeschini AL, Veitia RA.	Mol Cell Proteomics. 2019 Jul	30992313
Large-scale curvature sensing by directional actin flow drives cellular migration mode switching	Chen T, Callan-Jones A, Fedorov E, Ravasio A, Brugués A, Ong HT, Toyama Y, Low BC, Trepax X, Shemesh T, Voituriez R, Ladoux B.	Nat Phys. 2019 Apr	30984281
Genomic Balance and Speciation	Birchler JA, Veitia RA.	Epigenet Insights. 2019 Mar 31	30968064
The mRNA export adaptor Yra1 contributes to DNA double-strand break repair through its C-box domain	Infantino V, Tutucci E, Yeh Martin N, Zihlmann A, Garcia-Molinero V, Silvano G, Palancade B, Stutz F.	PLoS One. 2019 Apr 5	30951522
NDUFS6 related Leigh syndrome: a case report and review of the literature	Rouzier C, Chaussonot A, Fragaki K, Serre V, Ait-El-Mkadem S, Richelme C, Paquis-Flucklinger V, Bannwarth S.	J Hum Genet. 2019 Jul	30948790
Single-molecule characterization of extrinsic transcription termination by Sen1 helicase	Wang S, Han Z, Libri D, Porrua O, Strick TR.	Nat Commun. 2019 Apr 4	30948716
Pixel: a content management platform for quantitative omics data	Denecker T, Durand W, Maupetit J, Hébert C, Camadro JM, Poulain P, Lelandais G.	PeerJ. 2019 Mar 27	30944779
Dual control of Kinesin-1 recruitment to microtubules by Ensconsin in Drosophila neuroblasts and oocytes	Métivier M, Monroy BY, Gallaud E, Caous R, Pascal A, Richard-Parpaillon L, Guichet A, Ori-McKenney KM, Giet R.	Development. 2019 Apr 17	30936181

Replication dynamics of individual loci in single living cells reveal changes in the degree of replication stochasticity through S phase	Duriez B, Chilaka S, Bercher JF, Hercul E, Prioleau MN.	Nucleic Acids Res. 2019 Jun 4	30926993
Embryogenesis of the peristaltic reflex	Chevalier NR, Dacher N, Jacques C, Langlois L, Guedj C, Faklaris O.	J Physiol. 2019 May	30924929
Evolution of replication origins in vertebrate genomes: rapid turnover despite selective constraints	Massip F, Laurent M, Brossas C, Fernández-Justel JM, Gómez M, Prioleau MN, Duret L, Picard F.	Nucleic Acids Res. 2019 Jun 4	30916335
Moderate Nucleoporin 133 deficiency leads to glomerular damage in zebrafish	Cianciolo Cosentino C, Berto A, Pelletier S, Hari M, Loffing J, Neuhauss SCF, Doye V.	Sci Rep. 2019 Mar 18	30894603
Influence of proliferation on the motions of epithelial monolayers invading adherent strips	Gauquelin E, Tlili S, Gay C, Peyret G, Mège RM, Fardin MA, Ladoux B.	Soft Matter. 2019 Apr 7	30888391
Local adaptation, dispersal evolution, and the spatial eco-evolutionary dynamics of invasion	Andrade-Restrepo M, Champagnat N, Ferrière R.	Ecol Lett. 2019 May	30887688
Evolution of sexually-transferred steroids and mating-induced phenotypes in Anopheles mosquitoes	Pondeville E, Puchot N, Lang M, Cherrier F, Schaffner F, Dauphin-Villemant C, Bischoff E, Bourgouin C.	Sci Rep. 2019 Mar 15	30874601
Comparative study of commercially available and homemade anti-VAMP7 antibodies using CRISPR/Cas9-depleted HeLa cells and VAMP7 knockout mice	Verraes A, Cholley B, Galli T, Nola S.	F1000Res. 2018 Oct 16	30815249
Four Major Channels Detected in the Cytochrome P450 3A4: A Step toward Understanding Its Multispecificity	Benkaidali L, André F, Moroy G, Tangour B, Maurel F, Petitjean M.	Int J Mol Sci. 2019 Feb 25	30823507
Darwinian selection within an individual or somatic selection: facts and models	Veitia RA.	J Mol Cell Biol. 2019 Aug 19	30806666
In Vitro interaction between yeast frataxin and superoxide dismutases: Influence of mitochondrial metals	Han THL, Camadro JM, Barbault F, Santos R, El Hage Chahine JM, Ha-Duong NT.	Biochim Biophys Acta Gen Subj. 2019 May	30797804
Following Anterograde Transport of Phosphatidylserine in Yeast in Real Time	D'Ambrosio JM, Albanèse V, Čopič A.	Methods Mol Biol. 2019	30790247
Cell shape and substrate stiffness drive actin-based cell polarity	Gupta M, Doss BL, Kocgozlu L, Pan M, Mège RM, Callan-Jones A, Voituriez R, Ladoux B.	Phys Rev E. 2019 Jan	30780372
Auranofin/Vitamin C: A Novel Drug Combination Targeting Triple-Negative Breast Cancer	Hatem E, Azzi S, El Banna N, He T, Heneman-Masurel A, Vernis L, Baïlle D, Masson V, Dingli F, Loew D, Azzarone B, Eid P, Baldacci G, Huang ME.	J Natl Cancer Inst. 2019 Jun 1	30779852
MemBright: A Family of Fluorescent Membrane Probes for Advanced Cellular Imaging and Neuroscience	Collot M, Ashokkumar P, Anton H, Boutant E, Faklaris O, Galli T, Mély Y, Danglot L, Klymchenko AS.	Cell Chem Biol. 2019 Apr 18	30745238
Modeling Embryonic Cleavage Patterns	Ershov D, Minc N.	Methods Mol Biol. 2019	30737705
Dual role of DMXL2 in olfactory information transmission and the first wave of spermatogenesis	Gobé C, Elzaïat M, Meunier N, André M, Sellem E, Congar P, Jouneau L, Allais-Bonnet A, Naciri I, Passet B, Pailhoux E, Pannetier M.	PLoS Genet. 2019 Feb 8	30735494
N-homocysteinylation of tau and MAP1 is increased in autopsy specimens of Alzheimer's disease and vascular dementia	Bossenmeyer-Pourié C, Smith AD, Lehmann S, Deramecourt V, Sablonnière B, Camadro JM, Pourié G, Kerek R, Helle D, Umoret R, Guéant-Rodriguez RM, Rigau V, Gabelle A, Sequeira JM, Quadros EV, Daval JL, Guéant JL.	J Pathol. 2019 Jul	30734924
Evolution of salivary glue genes in Drosophila species	Da Lage JL, Thomas GWC, Bonneau M, Courtier-Orgogozo V.	BMC Evol Biol. 2019 Jan 29	30696414
Torsional stress generated by ADF/cofilin on cross-linked actin filaments boosts their severing	Wioland H, Jegou A, Romet-Lemonne G.	Proc Natl Acad Sci U S A. 2019 Feb 12	30692249
Further quantitative insights into the decrease of heteroplasmy of m.3243A>G with age in leukocytes	Veitia RA.	Clin Genet. 2019 Apr	30690711
Dynein-mediated transport and membrane trafficking control PAR3 polarised distribution	Jouette J, Guichet A, Claret SB.	Elife. 2019 Jan 23	30672465

Taxonomy of the order Bunyavirales: second update 2018	Maes P, Adkins S, Alkhovsky SV, Avšič-Županc T, Ballinger MJ, Bente DA, Beer M, Bergeron É, Blair CD, Briese T, Buchmeier MJ, Burt FJ, Calisher CH, Charrel RN, Choi IR, Clegg JCS, de la Torre JC, de Lamballerie X, DeRisi JL, Digiario M, Drebot M, Ebihara H, Elbeaino T, Ergünay K, Fulhorst CF, Garrison AR, Gão GF, Gonzalez JJ, Groschup MH, Günther S, Haenni AL, Hall RA, Hewson R, Hughes HR, Jain RK, Jonson MG, Junglen S, Klempa B, Klingström J, Kormelink R, Lambert AJ, Langevin SA, Lukashovich IS, Marklewitz M, Martelli GP, Mielke-Ehret N, Mirazimi A, Mühlbach HP, Naidu R, Nunes MRT, Palacios G, Papa A, Paweńska JT, Peters CJ, Plyusnin A, Radoshitzky SR, Resende RO, Romanowski V, Sall AA, Salvato MS, Sasaya T, Schmaljohn C, Shí X, Shirako Y, Simmonds P, Sironi M, Song JW, Spengler JR, Stenglein MD, Tesh RB, Turina M, Wèi T, Whitfield AE, Yeh SD, Zerbini FM, Zhang YZ, Zhou X, Kuhn JH.	Arch Virol. 2019 Mar	30663021
Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes	Klein HL, Ang KKH, Arkin MR, Beckwitt EC, Chang YH, Fan J, Kwon Y, Morten MJ, Mukherjee S, Pambos OJ, El Sayyed H, Thrall ES, Vieira-da-Rocha JP, Wang Q, Wang S, Yeh HY, Biteen JS, Chi P, Heyer WD, Kapanidis AN, Loparo JJ, Strick TR, Sung P, Van Houten B, Niu H, Rothenberg E.	Microb Cell. 2019 Jan 7	30652106
A computational model of the early stages of acentriolar meiotic spindle assembly	Letort G, Bennabi I, Dmitrieff S, Nedelec F, Verlhac MH, Terret ME.	Mol Biol Cell. 2019 Mar 21	30650011
AFF3: a new player in maintaining XIST monoallelic expression	Veitia RA.	J Mol Cell Biol. 2019 Sep 19	30629198
Mitotic Cell Division in <i>Caenorhabditis elegans</i>	Pintard L, Bowerman B.	Genetics. 2019 Jan	30626640
Transcription-dependent regulation of replication dynamics modulates genome stability	Blin M, Le Tallec B, Nähse V, Schmidt M, Brossas C, Millot GA, Prioleau MN, Debatisse M.	Nat Struct Mol Biol. 2019 Jan	30598553
Probing Polarity and Heterogeneity of Lipid Droplets in Live Cells Using a Push-Pull Fluorophore	Collot M, Bou S, Fam TK, Richert L, Mély Y, Danglot L, Klymchenko AS.	Anal Chem. 2019 Feb 5	30592219
In Silico Design of New Inhibitors Against Hemagglutinin of Influenza	Perrier A, Eluard M, Petitjean M, Vanet A.	J Phys Chem B. 2019 Jan 24	30590925
Plk1/Polo Phosphorylates Sas-4 at the Onset of Mitosis for an Efficient Recruitment of Pericentriolar Material to Centrosomes	Ramani A, Mariappan A, Gottardo M, Mandad S, Urlaub H, Avidor-Reiss T, Riparbelli M, Callaini G, Debec A, Feederle R, Gopalakrishnan J.	Cell Rep. 2018 Dec 26	30590037
General Regulatory Factors Control the Fidelity of Transcription by Restricting Non-coding and Ectopic Initiation	Challal D, Barucco M, Kubik S, Feuerbach F, Candelli T, Geoffroy H, Benaksas C, Shore D, Libri D.	Mol Cell. 2018 Dec 20	30576657
Mechanical forces in cell monolayers	Chen T, Saw TB, Mège RM, Ladoux B.	J Cell Sci. 2018 Dec 20	30573527
Functional and Physical Interaction between the Arf Activator GBF1 and Hepatitis C Virus NS3 Protein	Lebsir N, Goueslain L, Farhat R, Callens N, Dubuisson J, Jackson CL, Rouillé Y.	J Virol. 2019 Mar 5	30567983
Asymmetric division through a reduction of microtubule centering forces	Sallé J, Xie J, Ershov D, Lacassin M, Dmitrieff S, Minc N.	J Cell Biol. 2019 Mar 4	30563876
Pervasive transcription fine-tunes replication origin activity	Candelli T, Gros J, Libri D.	Elife. 2018 Dec 17	30556807
BUB-1 promotes amphitelic chromosome biorientation via multiple activities at the kinetochore	Edwards F, Maton G, Gareil N, Canman JC, Dumont J.	Elife. 2018 Dec 14	30547880

Galectin-8 Favors the Presentation of Surface-Tethered Antigens by Stabilizing the B Cell Immune Synapse	Obino D, Fetler L, Soza A, Malbec O, Saez JJ, Labarca M, Oyanadel C, Del Valle Batalla F, Goles N, Chikina A, Lankar D, Segovia-Miranda F, Garcia C, Léger T, Gonzalez A, Espéli M, Lennon-Duménil AM, Yuseff MI.	Cell Rep. 2018 Dec 11	30540943
[The irruption of mechanics in the chemistry of life]	Mège RM, Ladoux B.	Med Sci (Paris). 2018 Nov	30526840
The Challenges of Genome-Wide Studies in a Unicellular Eukaryote With Two Nuclear Genomes	Duharcourt S, Sperling L.	Methods Enzymol. 2018	30502938
Quantitative Variations with pH of Actin Depolymerizing Factor/Cofilin's Multiple Actions on Actin Filaments	Wioland H, Jegou A, Romet-Lemonne G.	Biochemistry. 2019 Jan 8	30499293
Slx5-Slx8 ubiquitin ligase targets active pools of the Yen1 nuclease to limit crossover formation	Talhaoui I, Bernal M, Mullen JR, Dorison H, Palancade B, Brill SJ, Mazón G.	Nat Commun. 2018 Nov 27	30479332
Auranofin/Vitamin C: A Novel Drug Combination Targeting Triple-Negative Breast Cancer	Hatem E, Azzi S, El Banna N, He T, Heneman-Masurel A, Vernis L, Baïlle D, Masson V, Dingli F, Loew D, Azzarone B, Eid P, Baldacci G, Huang ME.	J Natl Cancer Inst. 2018 Nov 20. doi: 10.1093/ije/djy149. Online ahead of print.	30462268
GBF1 and Arf1 interact with Miro and regulate mitochondrial positioning within cells	Walch L, Pellier E, Leng W, Lakisic G, Gautreau A, Contremoulins V, Verbavatz JM, Jackson CL.	Sci Rep. 2018 Nov 20	30459446
Morphological, cellular and molecular characterization of posterior regeneration in the marine annelid <i>Platynereis dumerilii</i>	Planques A, Malem J, Parapar J, Vervoort M, Gazave E.	Dev Biol. 2019 Jan 15	30445055
Neuroprotection with the Endozepine Octadecaneuropeptide, ODN	Masmoudi-Kouki O, Hamdi Y, Ghouili I, Bahdoudi S, Kaddour H, Leprince J, Castel H, Vaudry H, Amri M, Vaudry D, Tonon MC.	Curr Pharm Des. 2018	30417780
Active superelasticity in three-dimensional epithelia of controlled shape	Latorre E, Kale S, Casares L, Gómez-González M, Uroz M, Valon L, Nair RV, Garreta E, Montserrat N, Del Campo A, Ladoux B, Arroyo M, Trepast X.	Nature. 2018 Nov	30401836
FLIRT: fast local infrared thermogenetics for subcellular control of protein function	Hirsch SM, Sundaramoorthy S, Davies T, Zhuravlev Y, Waters JC, Shirasu-Hiza M, Dumont J, Canman JC.	Nat Methods. 2018 Nov	30377360
Ancient DNA: The quest for the best	Geigl EM, Grange T.	Mol Ecol Resour. 2018 Nov	30375193
Correlated Evolution of Two Copulatory Organs via a Single cis-Regulatory Nucleotide Change	Nagy O, Nuez I, Savaisaar R, Peluffo AE, Yassin A, Lang M, Stern DL, Matute DR, David JR, Courtier-Orgogozo V.	Curr Biol. 2018 Nov 5	30344115
Mad1 influences interphase nucleoplasm organization and chromatin regulation in <i>Drosophila</i>	Raich N, Mahmoudi S, Emre D, Karess RE.	Open Biol. 2018 Oct 17	30333236
A Positive Feedback between Growth and Polarity Provides Directional Persistency and Flexibility to the Process of Tip Growth	Haupt A, Ershov D, Minc N.	Curr Biol. 2018 Oct 22	30318352
A Mechanosensitive RhoA Pathway that Protects Epithelia against Acute Tensile Stress	Acharya BR, Nestor-Bergmann A, Liang X, Gupta S, Duszyc K, Gauquelin E, Gomez GA, Budnar S, Marcq P, Jensen OE, Bryant Z, Yap AS.	Dev Cell. 2018 Nov 19	30318244
Kalman Inversion Stress Microscopy	Nier V, Peyret G, d'Alessandro J, Ishihara S, Ladoux B, Marcq P.	Biophys J. 2018 Nov 6	30301513
VOPP1 promotes breast tumorigenesis by interacting with the tumor suppressor WWOX	Bonin F, Taouis K, Azorin P, Petitalot A, Tariq Z, Nola S, Bouteille N, Tury S, Vacher S, Bièche I, Rais KA, Pierron G, Fuhrmann L, Vincent-Salomon A, Formstecher E, Camonis J, Lidereau R, Lallemand F, Driouch K.	BMC Biol. 2018 Oct 2	30285739
Biomechanical Control of Lysosomal Secretion Via the VAMP7 Hub: A Tug-of-War between VARP and LRRK1	Wang G, Nola S, Bovio S, Bun P, Coppey-Moisan M, Lafont F, Galli T.	iScience. 2018 Jun 29	30240735

Decoding the Regulatory Logic of the Drosophila Male Stem Cell System	Tamirisa S, Papagiannouli F, Rempel E, Ermakova O, Trost N, Zhou J, Mundorf J, Brunel S, Ruhland N, Boutros M, Lohmann JU, Lohmann I.	Cell Rep. 2018 Sep 11	30208329
Regulation of Cenp-F localization to nuclear pores and kinetochores	Berto A, Doye V.	Cell Cycle. 2018	30198378
Biological Tissues as Active Nematic Liquid Crystals	Saw TB, Xi W, Ladoux B, Lim CT.	Adv Mater. 2018 Nov	30156334
A unified view of spatio-temporal control of mitotic entry: Polo kinase as the key	Pintard L, Archambault V.	Open Biol. 2018 Aug	30135239
On the loss of human sex chromosomes in lymphocytes with age: a quantitative treatment	Veitia RA.	Eur J Hum Genet. 2018 Dec	30097617
Physical Forces Determining the Persistency and Centering Precision of Microtubule Asters	Tanimoto H, Sallé J, Dodin L, Minc N.	Nat Phys. 2018 Aug	30079097
[How mechanotransduction between adhesion complexes results in β -catenin pathway activation]	Gayraud C, Borghi N.	Med Sci (Paris). 2018 Jun-Jul	30067197
Functional patchworking at the plasma membrane	Léon S, Teis D.	EMBO J. 2018 Aug 15	30061314
PackMem: A Versatile Tool to Compute and Visualize Interfacial Packing Defects in Lipid Bilayers	Gautier R, Bacle A, Tiberti ML, Fuchs PF, Vanni S, Antony B.	Biophys J. 2018 Aug 7	30055754
Socioenvironmental stressors encountered during spaceflight partially affect the murine TCR- β repertoire and increase its self-reactivity	Fonte C, Kaminski S, Vanet A, Lanfumey L, Cohen-Salmon C, Ghislin S, Fripiat JP.	FASEB J. 2019 Jan	30052484
Tubular microscaffolds for studying collective cell migration	Xi W, Sonam S, Lim CT, Ladoux B.	Methods Cell Biol. 2018	30037465
Cell-intrinsic and -extrinsic mechanisms promote cell-type-specific cytokinetic diversity	Davies T, Kim HX, Romano Spica N, Lesea-Pringle BJ, Dumont J, Shirasu-Hiza M, Canman JC.	Elife. 2018 Jul 20	30028292
PRP-19, a conserved pre-mRNA processing factor and E3 ubiquitin ligase, inhibits the nuclear accumulation of GLP-1/Notch intracellular domain	Gutnik S, Thomas Y, Guo Y, Stoecklin J, Neagu A, Pintard L, Merlet J, Ciosk R.	Biol Open. 2018 Jul 16	30012553
A Requirement for Zic2 in the Regulation of Nodal Expression Underlies the Establishment of Left-Sided Identity	Dykes IM, Szumska D, Kuncheria L, Puliyadi R, Chen CM, Papanayotou C, Lockstone H, Dubourg C, David V, Schneider JE, Keane TM, Adams DJ, Brown SDM, Mercier S, Odent S, Collignon J, Bhattacharya S.	Sci Rep. 2018 Jul 11	29992973
Intermediate filaments control collective migration by restricting traction forces and sustaining cell-cell contacts	De Pascalis C, Pérez-González C, Seetharaman S, Boëda B, Vianay B, Burute M, Leduc C, Borghi N, Trepas X, Etienne-Manneville S.	J Cell Biol. 2018 Sep 3	29980627
The Many Faces of Amphipathic Helices	Giménez-Andrés M, Čopič A, Antony B.	Biomolecules. 2018 Jul 5	29976879
Modification of Extracellular Vesicles by Fusion with Liposomes for the Design of Personalized Biogenic Drug Delivery Systems	Piffoux M, Silva AKA, Wilhelm C, Gazeau F, Taresté D.	ACS Nano. 2018 Jul 24	29975503
Using Microfluidics Single Filament Assay to Study Formin Control of Actin Assembly	Romet-Lemonne G, Guichard B, Jégou A.	Methods Mol Biol. 2018	29971713
Live imaging of C. elegans oocytes and early embryos	Laband K, Lacroix B, Edwards F, Canman JC, Dumont J.	Methods Cell Biol. 2018	29957205
Further characterization of the Maillard deglycase DJ-1 and its prokaryotic homologs, deglycase 1/Hsp31, deglycase 2/YhbO, and deglycase 3/YajL	Richarme G, Abdallah J, Mathas N, Gautier V, Dairou J.	Biochem Biophys Res Commun. 2018 Sep 5	29932913
Dosage effects in morphogenetic gradients of transcription factors: insights from a simple mathematical model	Veitia RA.	J Genet. 2018 Jun	29932055
Membrane Trafficking: A Little Flexibility Helps Vesicles Get into Shape	Jackson CL.	Curr Biol. 2018 Jun 18	29920265
Processing Schmidtea mediterranea for Transmission Electron Microscopy: Classical and Microwave Techniques	Brubacher JL, Vieira AP, Azimzadeh J.	Methods Mol Biol. 2018	29916176
Inheritance of the Golgi Apparatus and Cytokinesis Are Controlled by Degradation of GBF1	Magliozzi R, Carrero ZI, Low TY, Yuniati L, Valdes-Quezada C, Kruiswijk F, van Wijk K, Heck AJR, Jackson CL, Guardavaccaro D.	Cell Rep. 2018 Jun 12	29898406

Collective cell migration without proliferation: density determines cell velocity and wave velocity	Tlili S, Gauquelin E, Li B, Cardoso O, Ladoux B, Delanoë-Ayari H, Graner F.	R Soc Open Sci. 2018 May 2	29892428
Cyclin A-cdk1-Dependent Phosphorylation of Bora Is the Triggering Factor Promoting Mitotic Entry	Vigneron S, Sundermann L, Labbé JC, Pintard L, Radulescu O, Castro A, Lorca T.	Dev Cell. 2018 Jun 4	29870721
Penetration of the Human Pulmonary Epithelium by Aspergillus fumigatus Hyphae	Fernandes J, Hamidi F, Leborgne R, Beau R, Castier Y, Mordant P, Boukkerou A, Latgé JP, Pretolani M.	J Infect Dis. 2018 Sep 8	29846638
Modulation of formin processivity by profilin and mechanical tension	Cao L, Kerleau M, Suzuki EL, Wioland H, Jouet S, Guichard B, Lenz M, Romet-Lemonne G, Jegou A.	Elife. 2018 May 25	29799413
Nup133 Is Required for Proper Nuclear Pore Basket Assembly and Dynamics in Embryonic Stem Cells	Souquet B, Freed E, Berto A, Andric V, Audugé N, Reina-San-Martin B, Lacy E, Doye V.	Cell Rep. 2018 May 22	29791854
Microtubule Dynamics Scale with Cell Size to Set Spindle Length and Assembly Timing	Lacroix B, Letort G, Pitayu L, Sallé J, Stefanutti M, Maton G, Ladouceur AM, Canman JC, Maddox PS, Maddox AS, Minc N, Nédélec F, Dumont J.	Dev Cell. 2018 May 21	29787710
Dissection of DNA double-strand-break repair using novel single-molecule forceps	Wang JL, Duboc C, Wu Q, Ochi T, Liang S, Tsutakawa SE, Lees-Miller SP, Nadal M, Tainer JA, Blundell TL, Strick TR.	Nat Struct Mol Biol. 2018 Jun	29786079
Intermittent Pili-Mediated Forces Fluidize Neisseria meningitidis Aggregates Promoting Vascular Colonization	Bonazzi D, Lo Schiavo V, Machata S, Djafer-Cherif I, Nivoit P, Manriquez V, Tanimoto H, Husson J, Henry N, Chaté H, Voituriez R, Duménil G.	Cell. 2018 Jun 28	29779947
Endocytosis-mediated siderophore uptake as a strategy for Fe acquisition in diatoms	Kazamia E, Sutak R, Paz-Yepes J, Dorrell RG, Vieira FRJ, Mach J, Morrissey J, Leon S, Lam F, Pelletier E, Camadro JM, Bowler C, Lesuisse E.	Sci Adv. 2018 May 16	29774236
A Combinatorial Lipid Code Shapes the Electrostatic Landscape of Plant Endomembranes	Platre MP, Noack LC, Doumane M, Bayle V, Simon MLA, Maneta-Peyret L, Fouillen L, Stanislas T, Armengot L, Pejchar P, Caillaud MC, Potocký M, Čopič A, Moreau P, Jaillais Y.	Dev Cell. 2018 May 21	29754803
A role for SOX9 in post-transcriptional processes: insights from the amphibian oocyte	Penrad-Mobayed M, Perrin C, L'Hôte D, Contremoulins V, Lepasant JA, Boizet-Bonhoure B, Poulat F, Baudin X, Veitia RA.	Sci Rep. 2018 May 8	29740094
Cortical developmental death: selected to survive or fated to die	Causeret F, Coppola E, Pierani A.	Curr Opin Neurobiol. 2018 Dec	29738999
Transcription-Coupled Repair and Complex Biology	Portman JR, Strick TR.	J Mol Biol. 2018 Oct 26	29733857
Advances in the Molecular Pathophysiology, Genetics, and Treatment of Primary Ovarian Insufficiency	Huhtaniemi I, Hovatta O, La Marca A, Livera G, Monniaux D, Persani L, Heddar A, Jarzabek K, Laisk-Podar T, Salumets A, Tapanainen JS, Veitia RA, Visser JA, Wieacker P, Wolczynski S, Misrahi M.	Trends Endocrinol Metab. 2018 Jun	29706485
A SUMO-dependent feedback loop senses and controls the biogenesis of nuclear pore subunits	Rouvière JO, Bulfoni M, Tuck A, Cosson B, Devaux F, Palancade B.	Nat Commun. 2018 Apr 25	29695777
Mechanosensation Dynamically Coordinates Polar Growth and Cell Wall Assembly to Promote Cell Survival	Davi V, Tanimoto H, Ershov D, Haupt A, De Belly H, Le Borgne R, Couturier E, Boudaoud A, Minc N.	Dev Cell. 2018 Apr 23	29689193
Chromatin conformation regulates the coordination between DNA replication and transcription	Almeida R, Fernández-Justel JM, Santa-María C, Cadoret JC, Cano-Aroca L, Lombraña R, Herranz G, Agresti A, Gómez M.	Nat Commun. 2018 Apr 23	29686321

Taxonomy of the family Arenaviridae and the order Bunyavirales: update 2018	Maes P, Alkhovsky SV, Bào Y, Beer M, Birkhead M, Briese T, Buchmeier MJ, Calisher CH, Charrel RN, Choi IR, Clegg CS, de la Torre JC, Delwart E, DeRisi JL, Di Bello PL, Di Serio F, Digiaro M, Dolja VV, Drosten C, Druciarek TZ, Du J, Ebihara H, Elbeaino T, Gergerich RC, Gillis AN, Gonzalez JJ, Haenni AL, Hepojoki J, Hetzel U, Hồ T, Hóng N, Jain RK, Jansen van Vuren P, Jin Q, Jonson MG, Junglen S, Keller KE, Kemp A, Kipar A, Kondov NO, Koonin EV, Kormelink R, Korzyukov Y, Krupovic M, Lambert AJ, Laney AG, LeBreton M, Lukashevich IS, Marklewitz M, Markotter W, Martelli GP, Martin RR, Mielke-Ehret N, Mühlbach HP, Navarro B, Ng TFF, Nunes MRT, Palacios G, Pawęska JT, Peters CJ, Plyusnin A, Radoshitzky SR, Romanowski V, Salmenperä P, Salvato MS, Sanfaçon H, Sasaya T, Schmaljohn C, Schneider BS, Shirako Y, Siddell S, Sironen TA, Stenglein MD, Storm N, Sudini H, Tesh RB, Tzanetakis IE, Uppala M, Vapalahti O, Vasilakis N, Walker PJ, Wáng G, Wáng L, Wáng Y, Wèi T, Wiley MR, Wolf YI, Wolfe ND, Wú Z, Xú W, Yang L, Yāng Z, Yeh SD, Zhāng YZ, Zhèng Y, Zhou X, Zhū C, Zirkel F, Kuhn JH.	Arch Virol. 2018 Aug	29680923
Mechanical Tension Drives Elongational Growth of the Embryonic Gut	Chevalier NR, de Witte TM, Cornelissen AJM, Dufour S, Proux-Gillardeaux V, Asnacios A.	Sci Rep. 2018 Apr 16	29662083
The heptad repeat domain 1 of Mitofusin has membrane destabilization function in mitochondrial fusion	Daste F, Sauvanet C, Bavdek A, Baye J, Pierre F, Le Borgne R, David C, Rojo M, Fuchs P, Taresté D.	EMBO Rep. 2018 Jun	29661855
[R-loop-associated genetic instability: why introns matter?]	Palancade B.	Med Sci (Paris). 2018 Apr	29658469
Activators and Effectors of the Small G Protein Arf1 in Regulation of Golgi Dynamics During the Cell Division Cycle	Jackson CL.	Front Cell Dev Biol. 2018 Mar 26	29632863
Disentangling the molecular determinants for Cenp-F localization to nuclear pores and kinetochores	Berto A, Yu J, Morchoisne-Bolhy S, Bertipaglia C, Vallee R, Dumont J, Ochsenbein F, Guerois R, Doye V.	EMBO Rep. 2018 May	29632243
A giant amphipathic helix from a perilipin that is adapted for coating lipid droplets	Čopič A, Antoine-Bally S, Giménez-Andrés M, La Torre Garay C, Antonny B, Manni MM, Pagnotta S, Guihot J, Jackson CL.	Nat Commun. 2018 Apr 6	29626194
How cells sense their own shape - mechanisms to probe cell geometry and their implications in cellular organization and function	Haupt A, Minc N.	J Cell Sci. 2018 Mar 26	29581183
Meet-U: Educating through research immersion	Abdollahi N, Albani A, Anthony E, Baud A, Cardon M, Clerc R, Czernecki D, Conte R, David L, Delaune A, Djerroud S, Fourgoux P, Guiglielmoni N, Laurentie J, Lehmann N, Locharde C, Montagne R, Myrodiá V, Opuu V, Parey E, Polit L, Privé S, Quignot C, Ruiz-Cuevas M, Sissoko M, Sompairac N, Vallerix A, Verrecchia V, Delarue M, Guérois R, Ponty Y, Sacquin-Mora S, Carbone A, Froidevaux C, Le Crom S, Lespinet O, Weigt M, Abboud S, Bernardes J, Bouvier G, Dequeker C, Ferré A, Fuchs P, Lelandais G, Poulain P, Richard H, Schweke H, Laine E, Lopes A.	PLoS Comput Biol. 2018 Mar 15	29543809

The yeast arrestin-related protein Bul1 is a novel actor of glucose-induced endocytosis	Hovsepian J, Albanèse V, Becuwe M, Ivashov V, Teis D, Léon S.	Mol Biol Cell. 2018 May 1	29514933
How the most common mitochondrial DNA mutation (m.3243A>G) vanishes from leukocytes: a mathematical model	Veitia RA.	Hum Mol Genet. 2018 May 1	29474538
Natural and molecular history of prolactinoma: insights from a Prlr(-/-) mouse model	Bernard V, Villa C, Auguste A, Lamothe S, Guillou A, Martin A, Caburet S, Young J, Veitia RA, Binart N.	Oncotarget. 2017 Dec 27	29464061
Mapping molecular assemblies with fluorescence microscopy and object-based spatial statistics	Lagache T, Grassart A, Dallongeville S, Faklaris O, Sauvonnet N, Dufour A, Danglot L, Olivo-Marin JC.	Nat Commun. 2018 Feb 15	29449608
Ultrabright and Fluorogenic Probes for Multicolor Imaging and Tracking of Lipid Droplets in Cells and Tissues	Collot M, Fam TK, Ashokkumar P, Faklaris O, Galli T, Danglot L, Klymchenko AS.	J Am Chem Soc. 2018 Apr 25	29446627
Gene Expression Dominance in Allopolyploids: Hypotheses and Models	Bottani S, Zabet NR, Wendel JF, Veitia RA.	Trends Plant Sci. 2018 May	29433919
Quantitative and Statistical Study of the Dynamics of Clathrin-Dependent and -Independent Endocytosis Reveal a Differential Role of EndophilinA2	Bertot L, Grassart A, Lagache T, Nardi G, Basquin C, Olivo-Marin JC, Sauvonnet N.	Cell Rep. 2018 Feb 6	29425511
Impaired Transferrin Receptor Palmitoylation and Recycling in Neurodegeneration with Brain Iron Accumulation	Drecourt A, Babdor J, Dussiot M, Petit F, Goudin N, Garfa-Traoré M, Habarou F, Bole-Feysot C, Nitschké P, Ottolenghi C, Metodiev MD, Serre V, Desguerre I, Boddart N, Hermine O, Munnich A, Rötig A.	Am J Hum Genet. 2018 Feb 1	29395073
Small-molecule flunarizine increases SMN protein in nuclear Cajal bodies and motor function in a mouse model of spinal muscular atrophy	Sapaly D, Dos Santos M, Delers P, Biondi O, Quérol G, Houdebine L, Khoobarry K, Girardet F, Burlet P, Armand AS, Chanoine C, Bureau JF, Charbonnier F, Lefebvre S.	Sci Rep. 2018 Feb 1	29391529
Three-dimensional genome architecture in health and disease	Quimette JF, Rougeulle C, Veitia RA.	Clin Genet. 2019 Feb	29377081
Downregulation of Membrane Trafficking Proteins and Lactate Conditioning Determine Loss of Dendritic Cell Function in Lung Cancer	Caronni N, Simoncello F, Stafetta F, Guarnaccia C, Ruiz-Moreno JS, Opitz B, Galli T, Proux-Gillardeaux V, Benvenuti F.	Cancer Res. 2018 Apr 1	29363545
Silver Nanoparticles Impair Retinoic Acid-Inducible Gene I-Mediated Mitochondrial Antiviral Immunity by Blocking the Autophagic Flux in Lung Epithelial Cells	Villeret B, Dieu A, Straube M, Solhonne B, Miklavc P, Hamadi S, Le Borgne R, Maillieux A, Norel X, Aerts J, Diallo D, Rouzet F, Dietl P, Sallenave JM, Garcia-Verdugo I.	ACS Nano. 2018 Feb 27	29357226
High-resolution transcription maps reveal the widespread impact of roadblock termination in yeast	Candelli T, Challal D, Briand JB, Boulay J, Porrua O, Colin J, Libri D.	EMBO J. 2018 Feb 15	29351914
Quantitative proteomics in Friedreich's ataxia B-lymphocytes: A valuable approach to decipher the biochemical events responsible for pathogenesis	Télot L, Rousseau E, Lesuisse E, Garcia C, Morlet B, Léger T, Camadro JM, Serre V.	Biochim Biophys Acta Mol Basis Dis. 2018 Apr	29329987
Identification and Molecular Characterization of the Chloroplast Targeting Domain of Turnip yellow mosaic virus Replication Proteins	Moriceau L, Jomat L, Bressanelli S, Alcaide-Loridan C, Jupin I.	Front Plant Sci. 2017 Dec 19	29312393
Src- and confinement-dependent FAK activation causes E-cadherin relaxation and β -catenin activity	Gayraud C, Bernaudin C, Déjardin T, Seiler C, Borghi N.	J Cell Biol. 2018 Mar 5	29311227
A hypothesis-driven approach identifies CDK4 and CDK6 inhibitors as candidate drugs for treatments of adrenocortical carcinomas	Hadjadi D, Kim SJ, Denecker T, Ben Driss L, Cadoret JC, Maric C, Baldacci G, Fauchereau F.	Aging (Albany NY). 2017 Dec 26	29283884
Force-dependent binding of vinculin to α -catenin regulates cell-cell contact stability and collective cell behavior	Seddiki R, Narayana GHNS, Strale PO, Balcioglu HE, Peyret G, Yao M, Le AP, Teck Lim C, Yan J, Ladoux B, Mège RM.	Mol Biol Cell. 2018 Feb 15	29282282
Reading and editing the Pleurodeles waltl genome reveals novel features of tetrapod regeneration	Elewa A, Wang H, Talavera-López C, Joven A, Brito G, Kumar A, Hameed LS, Penrad-Mobayed M, Yao Z, Zamani N, Abbas Y, Abdullayev I, Sandberg R, Grabherr M, Andersson B, Simon A.	Nat Commun. 2017 Dec 22	29273779
[G-quadruplex: key controllers of human genome duplication]	Poulet-Benedetti J, Valton AL, Prioleau MN.	Med Sci (Paris). 2017 Dec	29261494

Galectin-7 in Epithelial Homeostasis and Carcinomas	Advedissian T, Deshayes F, Viguier M.	Int J Mol Sci. 2017 Dec 19	29257082
TopA, the Sulfolobus solfataricus topoisomerase III, is a decatenase	Bizard AH, Yang X, Débat H, Fogg JM, Zechiedrich L, Strick TR, Garnier F, Nadal M.	Nucleic Acids Res. 2018 Jan 25	29253195
Cell lineage and cell cycling analyses of the 4d micromere using live imaging in the marine annelid Platynereis dumerilii	Özpolat BD, Handberg-Thorsager M, Vervoort M, Balavoine G.	Elife. 2017 Dec 12	29231816
A homozygous FANCM mutation underlies a familial case of non-syndromic primary ovarian insufficiency	Fouquet B, Pawlikowska P, Caburet S, Guigon C, Mäkinen M, Tanner L, Hietala M, Urbanska K, Bellutti L, Legois B, Bessieres B, Gougeon A, Benachi A, Livera G, Rosselli F, Veitia RA, Misrahi M.	Elife. 2017 Dec 12	29231814
Eml1 loss impairs apical progenitor spindle length and soma shape in the developing cerebral cortex	Bizzotto S, Uzquiano A, Dingli F, Ershov D, Houllier A, Arras G, Richards M, Loew D, Minc N, Croquelois A, Houdusse A, Francis F.	Sci Rep. 2017 Dec 11	29229923
E-cadherin dynamics is regulated by galectin-7 at epithelial cell surface	Advedissian T, Proux-Gillardeaux V, Nkosi R, Peyret G, Nguyen T, Poirier F, Viguier M, Deshayes F.	Sci Rep. 2017 Dec 6	29213102
Is Aggregate-Dependent Yeast Aging Fortuitous? A Model of Damage Segregation and Aggregate Dynamics	Andrade-Restrepo M.	Biophys J. 2017 Dec 5	29212000
Mutations in TUBB4B Cause a Distinctive Sensorineural Disease	Luscan R, Mechaussier S, Paul A, Tian G, Gérard X, Defoort-Dellhemmes S, Loundon N, Audo I, Bonnin S, LeGargasson JF, Dumont J, Goudin N, Garfa-Traoré M, Bras M, Pouliet A, Bessièrès B, Boddaert N, Sahel JA, Lyonnet S, Kaplan J, Cowan NJ, Rozet JM, Marlin S, Perrault I.	Am J Hum Genet. 2017 Dec 7	29198720
Type IA DNA Topoisomerases: A Universal Core and Multiple Activities	Garnier F, Debat H, Nadal M.	Methods Mol Biol. 2018	29177730
PBxplorer: a tool to analyze local protein structure and deformability with Protein Blocks	Barnoud J, Santuz H, Craveur P, Joseph AP, Jallu V, de Brevern AG, Poulain P.	PeerJ. 2017 Nov 20	29177113
The mechanism of variability in transcription start site selection	Yu L, Winkelman JT, Pukhrambam C, Strick TR, Nickels BE, Ebright RH.	Elife. 2017 Nov 23	29168694
Emergent patterns of collective cell migration under tubular confinement	Xi W, Sonam S, Beng Saw T, Ladoux B, Teck Lim C.	Nat Commun. 2017 Nov 15	29142242
Chromosome segregation occurs by microtubule pushing in oocytes	Laband K, Le Borgne R, Edwards F, Stefanutti M, Canman JC, Verbavatz JM, Dumont J.	Nat Commun. 2017 Nov 14	29133801
A mobile loop near the active site acts as a switch between the dual activities of a viral protease/deubiquitinase	Jupin I, Ayach M, Jomat L, Fieulaine S, Bressanelli S.	PLoS Pathog. 2017 Nov 8	29117247
Nuclear pore complex plasticity during developmental process as revealed by super-resolution microscopy	Sellés J, Penrad-Mobayed M, Guillaume C, Fuger A, Auvray L, Faklaris O, Montel F.	Sci Rep. 2017 Nov 7	29116248
Mechanobiology of collective cell behaviours	Ladoux B, Mège RM.	Nat Rev Mol Cell Biol. 2017 Dec	29115298
Identification of GBF1 as a cellular factor required for hepatitis E virus RNA replication	Farhat R, Ankavay M, Lebsir N, Gouttenoire J, Jackson CL, Wychowski C, Moradpour D, Dubuisson J, Rouillé Y, Cocquerel L.	Cell Microbiol. 2018 Jan	29112323
Binding to RNA regulates Set1 function	Luciano P, Jeon J, El-Kaoutari A, Challal D, Bonnet A, Barucco M, Candelli T, Jourquin F, Lesage P, Kim J, Libri D, Géli V.	Cell Discov. 2017 Oct 24	29071121
Channel Nucleoporins Recruit PLK-1 to Nuclear Pore Complexes to Direct Nuclear Envelope Breakdown in C. elegans	Martino L, Morchoisne-Bolhy S, Cheerambathur DK, Van Hove L, Dumont J, Joly N, Desai A, Doye V, Pintard L.	Dev Cell. 2017 Oct 23	29065307
Nucleus positioning within Drosophila egg chamber	Bernard F, Lepesant JA, Guichet A.	Semin Cell Dev Biol. 2018 Oct	29056490
Crowd-Sourcing of Membrane Fission: How crowding of non-specialized membrane-bound proteins contributes to cellular membrane fission	Manni MM, Derganc J, Čopič A.	Bioessays. 2017 Dec	29052840

Development of a Sensitive Microarray Platform for the Ranking of Galectin Inhibitors: Identification of a Selective Galectin-3 Inhibitor	Dion J, Advedissian T, Storozhylova N, Dahbi S, Lambert A, Deshayes F, Viguier M, Tellier C, Poirier F, Téletchéa S, Dussouy C, Tateno H, Hirabayashi J, Grandjean C.	ChemBiochem. 2017 Dec 14	29024281
GBF1 and Arf1 function in vesicular trafficking, lipid homeostasis and organelle dynamics	Kaczmarek B, Verbavatz JM, Jackson CL.	Biol Cell. 2017 Dec	28985001
C-terminal lysine repeats in Streptomyces topoisomerase I stabilize the enzyme-DNA complex and confer high enzyme processivity	Strzalka A, Szafran MJ, Strick T, Jakimowicz D.	Nucleic Acids Res. 2017 Nov 16	28981718
A landscape genetic analysis of important agricultural pest species in Tunisia: The whitefly <i>Bemisia tabaci</i>	Ben Abdelkrim A, Hattab T, Fakhfakh H, Belkadhi MS, Gorsane F.	PLoS One. 2017 Oct 3	28972992
Interplay between dengue virus and Toll-like receptors, RIG-I/MDA5 and microRNAs: Implications for pathogenesis	Urcuqui-Inchima S, Cabrera J, Haenni AL.	Antiviral Res. 2017 Nov	28965915
Anteroposterior polarity and elongation in the absence of extra-embryonic tissues and of spatially localised signalling in gastruloids: mammalian embryonic organoids	Turner DA, Girgin M, Alonso-Crisostomo L, Trivedi V, Baillie-Johnson P, Glodowski CR, Hayward PC, Collignon J, Gustavsen C, Serup P, Steventon B, P Lutolf M, Arias AM.	Development. 2017 Nov 1	28951435
[The congenital tufting enteropathy, or when the intestine is under low cellular tension]	Gaston C, Salomon J, Goulet O, Delacour D.	Med Sci (Paris). 2017 Aug-Sep	28945548
Biophysical characterisation of the novel zinc binding property in Suppressor of Fused	Jabrani A, Makamte S, Moreau E, Gharbi Y, Plessis A, Bruzzone L, Sanial M, Biou V.	Sci Rep. 2017 Sep 11	28894158
Helicases as transcription termination factors: Different solutions for a common problem	Han Z, Porrua O.	Transcription. 2018	28886303
Spatially Different Tissue-Scale Diffusivity Shapes ANGUSTIFOLIA3 Gradient in Growing Leaves	Kawade K, Tanimoto H, Horiguchi G, Tsukaya H.	Biophys J. 2017 Sep 5	28877493
Ubiquitination-dependent control of sexual differentiation in fission yeast	Simonetti F, Candelli T, Leon S, Libri D, Rougemaille M.	Elife. 2017 Aug 25	28841135
Simulating Bilayers of Nonionic Surfactants with the GROMOS-Compatible 2016H66 Force Field	Senac C, Urbach W, Kurtisovski E, Hünenberger PH, Horta BAC, Taulier N, Fuchs PFJ.	Langmuir. 2017 Oct 3	28832154
A Single-Cell Biochemistry Approach Reveals PAR Complex Dynamics during Cell Polarization	Dickinson DJ, Schwager F, Pintard L, Gotta M, Goldstein B.	Dev Cell. 2017 Aug 21	28829947
Gene Duplicates: Agents of Fragility? - A Reply to Landry and Diss	Veitia RA.	Trends Genet. 2017 Oct	28823576
A Simple Light Isotope Metabolic Labeling (SLIM-labeling) Strategy: A Powerful Tool to Address the Dynamics of Proteome Variations In Vivo	Léger T, Garcia C, Collomb L, Camadro JM.	Mol Cell Proteomics. 2017 Nov	28821603
Using CRISPR-based gene drive for agriculture pest control	Courtier-Orgogozo V, Morizot B, Boëte C.	EMBO Rep. 2017 Sep	28784604
Histone H4K20 tri-methylation at late-firing origins ensures timely heterochromatin replication	Brustel J, Kirstein N, Izard F, Grimaud C, Prorok P, Cayrou C, Schotta G, Abdelsamie AF, Déjardin J, Méchali M, Baldacci G, Sardet C, Cadoret JC, Schepers A, Julien E.	EMBO J. 2017 Sep 15	28778956
Introns Protect Eukaryotic Genomes from Transcription-Associated Genetic Instability	Bonnet A, Grosso AR, Elkaoutari A, Coleno E, Presle A, Sridhara SC, Janbon G, Géli V, de Almeida SF, Palancade B.	Mol Cell. 2017 Aug 17	28757210
Mechanisms of Mendelian dominance	Veitia RA, Caburet S, Birchler JA.	Clin Genet. 2018 Mar	28755412
Microtopographical cues promote peripheral nerve regeneration via transient mTORC2 activation	Thomson SE, Charalambous C, Smith CA, Tsimbouri PM, Déjardin T, Kingham PJ, Hart AM, Riehle MO.	Acta Biomater. 2017 Sep 15	28754648
Finite-time and finite-size scalings in the evaluation of large-deviation functions: Numerical approach in continuous time	Guevara Hidalgo E, Nemoto T, Lecomte V.	Phys Rev E. 2017 Jun	28709321

A novel variant of DHH in a familial case of 46,XY disorder of sex development: Insights from molecular dynamics simulations	Paris F, Flatters D, Caburet S, Legois B, Servant N, Lefebvre H, Sultan C, Veitia RA.	Clin Endocrinol (Oxf). 2017 Nov	28708305
The Cytochrome P450 3A4 has three Major Conformations: New Clues to Drug Recognition by this Promiscuous Enzyme	Benkaidali L, André F, Moroy G, Tangour B, Maurel F, Petitjean M.	Mol Inform. 2017 Oct	28685969
Improved methods and resources for paramecium genomics: transcription units, gene annotation and gene expression	Arnaiz O, Van Dijk E, Bétermier M, Lhuillier-Akakpo M, de Vanssay A, Duharcourt S, Sallet E, Gouzy J, Sperling L.	BMC Genomics. 2017 Jun 26	28651633
Pax3- and Pax7-mediated Dbx1 regulation orchestrates the patterning of intermediate spinal interneurons	Gard C, Gonzalez Curto G, Frarma YE, Chollet E, Duval N, Auzié V, Auradé F, Vigier L, Relaix F, Pierani A, Causeret F, Ribes V.	Dev Biol. 2017 Dec 1	28625870
ADF/Cofilin Accelerates Actin Dynamics by Severing Filaments and Promoting Their Depolymerization at Both Ends	Wioland H, Guichard B, Senju Y, Myram S, Lappalainen P, Jégou A, Romet-Lemonne G.	Curr Biol. 2017 Jul 10	28625781
The CCAAT-Binding Complex Controls Respiratory Gene Expression and Iron Homeostasis in Candida Glabrata	Thiébaud A, Delaveau T, Benchouaia M, Boeri J, Garcia M, Lelandais G, Devaux F.	Sci Rep. 2017 Jun 14	28615656
Guanine glycation repair by DJ-1/Park7 and its bacterial homologs	Richarme G, Liu C, Mihoub M, Abdallah J, Leger T, Joly N, Liebart JC, Jurkunas UV, Nadal M, Bouloc P, Dairou J, Lamouri A.	Science. 2017 Jul 14	28596309
Advances on the Transfer of Lipids by Lipid Transfer Proteins	Wong LH, Čopič A, Levine TP.	Trends Biochem Sci. 2017 Jul	28579073
Metabolomic and proteomic investigations of impacts of titanium dioxide nanoparticles on Escherichia coli	Planchon M, Léger T, Spalla O, Huber G, Ferrari R.	PLoS One. 2017 Jun 1	28570583
Cavity Versus Ligand Shape Descriptors: Application to Urokinase Binding Pockets	Cerisier N, Regad L, Triki D, Camproux AC, Petitjean M.	J Comput Biol. 2017 Nov	28570103
ER-plasma membrane contact sites contribute to autophagosome biogenesis by regulation of local PI3P synthesis	Nascimbeni AC, Giordano F, Dupont N, Grasso D, Vaccaro MI, Codogno P, Morel E.	EMBO J. 2017 Jul 14	28550152
A homozygous donor splice-site mutation in the meiotic gene MSH4 causes primary ovarian insufficiency	Carlosama C, Elzaïat M, Patiño LC, Mateus HE, Veitia RA, Laissue P.	Hum Mol Genet. 2017 Aug 15	28541421
The ribosome-bound quality control complex: from aberrant peptide clearance to proteostasis maintenance	Defenouillère Q, Fromont-Racine M.	Curr Genet. 2017 Dec	28528489
Agricultural pest control with CRISPR-based gene drive: time for public debate: Should we use gene drive for pest control?	Courtier-Orgogozo V, Morizot B, Boëte C.	EMBO Rep. 2017 Jun	28512121
Spindle pole cohesion requires glycosylation-mediated localization of NuMA	Magescas J, Sengmanivong L, Viau A, Mayeux A, Dang T, Burtin M, Nilsson UJ, Leffler H, Poirier F, Terzi F, Delacour D.	Sci Rep. 2017 May 3	28469279
Multilevel regulation of an α -arrestin by glucose depletion controls hexose transporter endocytosis	Hovsepian J, Defenouillère Q, Albanèse V, Váchová L, Garcia C, Palková Z, Léon S.	J Cell Biol. 2017 Jun 5	28468835
Ancient genomic changes associated with domestication of the horse	Librado P, Gamba C, Gaunitz C, Der Sarkissian C, Pruvost M, Albrechtsen A, Fages A, Khan N, Schubert M, Jagannathan V, Serres-Armero A, Kuderna LFK, Povolotskaya IS, Seguin-Orlando A, Lepetz S, Neuditschko M, Thèves C, Alquraishi S, Alfarhan AH, Al-Rasheid K, Rieder S, Samashev Z, Francfort HP, Benecke N, Hofreiter M, Ludwig A, Keyser C, Marques-Bonet T, Ludes B, Crubézy E, Leeb T, Willerslev E, Orlando L.	Science. 2017 Apr 28	28450643
Distinct molecular cues ensure a robust microtubule-dependent nuclear positioning in the Drosophila oocyte	Tissot N, Lepesant JA, Bernard F, Legent K, Bosveld F, Martin C, Faklaris O, Bellaïche Y, Coppey M, Guichet A.	Nat Commun. 2017 Apr 27	28447612

Flow cytometry sorting of nuclei enables the first global characterization of Paramecium germline DNA and transposable elements	Guérin F, Arnaiz O, Boggetto N, Denby Wilkes C, Meyer E, Sperling L, Duharcourt S.	BMC Genomics. 2017 Apr 26	28446146
Gene Duplicates: Agents of Robustness or Fragility?	Veitia RA.	Trends Genet. 2017 Jun	28434610
Centrin diversity and basal body patterning across evolution: new insights from Paramecium	Aubusson-Fleury A, Balavoine G, Lemullois M, Bouhouche K, Beisson J, Koll F.	Biol Open. 2017 Jun 15	28432105
New insights into the tetraspanin Tspan5 using novel monoclonal antibodies	Saint-Pol J, Billard M, Dornier E, Eschenbrenner E, Danglot L, Boucheix C, Charrin S, Rubinstein E.	J Biol Chem. 2017 Jun 9	28428248
Taming the late Quaternary phylogeography of the Eurasiatic wild ass through ancient and modern DNA	Bennett EA, Champlot S, Peters J, Arbuckle BS, Guimaraes S, Pruvost M, Bar-David S, Davis SJM, Gautier M, Kaczensky P, Kuehn R, Mashkour M, Morales-Muñiz A, Pucher E, Tournepiche JF, Uerpman HP, Bălăşescu A, Germonpré M, Gündem CY, Hemami MR, Moullé PE, Ötzan A, Uerpman M, Walzer C, Grange T, Geigl EM.	PLoS One. 2017 Apr 19	28422966
Sen1 has unique structural features grafted on the architecture of the Upf1-like helicase family	Leonaitė B, Han Z, Basquin J, Bonneau F, Libri D, Porrua O, Conti E.	EMBO J. 2017 Jun 1	28408439
Topological defects in epithelia govern cell death and extrusion	Saw TB, Doostmohammadi A, Nier V, Kocgozlu L, Thampi S, Toyama Y, Marcq P, Lim CT, Yeomans JM, Ladoux B.	Nature. 2017 Apr 12	28406198
Interdigitation between Triglycerides and Lipids Modulates Surface Properties of Lipid Droplets	Bacle A, Gautier R, Jackson CL, Fuchs PFJ, Vanni S.	Biophys J. 2017 Apr 11	28402884
Spastin regulates VAMP7-containing vesicles trafficking in cortical neurons	Plaud C, Joshi V, Marinello M, Pastré D, Galli T, Curmi PA, Burgo A.	Biochim Biophys Acta Mol Basis Dis. 2017 Jun	28392418
Emerging roles of MICAL family proteins - from actin oxidation to membrane trafficking during cytokinesis	Frémont S, Romet-Lemonne G, Houdusse A, Echard A.	J Cell Sci. 2017 May 1	28373242
Dysfunction of mitochondrial Lon protease and identification of oxidized protein in mouse brain following exposure to MPTP: Implications for Parkinson disease	Bulteau AL, Mena NP, Auchère F, Lee I, Prigent A, Lobsiger CS, Camadro JM, Hirsch EC.	Free Radic Biol Med. 2017 Jul	28365360
Dose-dependent transduction of Hedgehog relies on phosphorylation-based feedback between the G-protein-coupled receptor Smoothed and the kinase Fused	Sanial M, Bécam I, Hofmann L, Behague J, Argüelles C, Gourhand V, Bruzzone L, Holmgren RA, Plessis A.	Development. 2017 May 15	28360132
Acclimation of a low iron adapted <i>Ostreococcus</i> strain to iron limitation through cell biomass lowering	Botebol H, Lelandais G, Six C, Lesuisse E, Meng A, Bittner L, Lecrom S, Sutak R, Lozano JC, Schatt P, Vergé V, Blain S, Bouget FY.	Sci Rep. 2017 Mar 23	28336917
CYK-4 regulates Rac, but not Rho, during cytokinesis	Zhuravlev Y, Hirsch SM, Jordan SN, Dumont J, Shirasu-Hiza M, Canman JC.	Mol Biol Cell. 2017 May 1	28298491
Inhibition of ectopic microtubule assembly by the kinesin-13 KLP-7 prevents chromosome segregation and cytokinesis defects in oocytes	Gigant E, Stefanutti M, Laband K, Gluszek-Kustusz A, Edwards F, Lacroix B, Maton G, Canman JC, Welburn JPI, Dumont J.	Development. 2017 May 1	28289130
Understanding bias in DNA repair	Strick TR, Savery NJ.	Proc Natl Acad Sci U S A. 2017 Mar 14	28265102
Galectin-3 is a non-classic RNA binding protein that stabilizes the mucin MUC4 mRNA in the cytoplasm of cancer cells	Coppin L, Vincent A, Frénois F, Duchêne B, Lahdaoui F, Stechly L, Renaud F, Villenet C, Van Seuning I, Leteurte E, Dion J, Grandjean C, Poirier F, Figeac M, Delacour D, Porchet N, Pigny P.	Sci Rep. 2017 Mar 6	28262838
A New Strategy to Reduce Influenza Escape: Detecting Therapeutic Targets Constituted of Invariance Groups	Lao J, Vanet A.	Viruses. 2017 Mar 2	28257108
Why would you like to publish in Biology of the Cell	Mège RM.	Biol Cell. 2017 Mar	28248426

The ER Stress Sensor PERK Coordinates ER-Plasma Membrane Contact Site Formation through Interaction with Filamin-A and F-Actin Remodeling	van Vliet AR, Giordano F, Gerlo S, Segura I, Van Eygen S, Molenberghs G, Rocha S, Houcine A, Derua R, Verfaillie T, Vangindertael J, De Keersmaecker H, Waelkens E, Tavernier J, Hofkens J, Annaert W, Carmeliet P, Samali A, Mizuno H, Agostinis P.	Mol Cell. 2017 Mar 2	28238652
Oxidation of F-actin controls the terminal steps of cytokinesis	Frémont S, Hammich H, Bai J, Wioland H, Klinkert K, Rocancourt M, Kikuti C, Stroebel D, Romet-Lemonne G, Pylypenko O, Houdusse A, Echard A.	Nat Commun. 2017 Feb 23	28230050
Emergence and development of gut motility in the chicken embryo	Chevalier NR, Fleury V, Dufour S, Proux-Gillardeaux V, Asnacios A.	PLoS One. 2017 Feb 21	28222167
Low Efficiency Upconversion Nanoparticles for High-Resolution Coalignment of Near-Infrared and Visible Light Paths on a Light Microscope	Sundaramoorthy S, Garcia Badaracco A, Hirsch SM, Park JH, Davies T, Dumont J, Shirasu-Hiza M, Kummel AC, Canman JC.	ACS Appl Mater Interfaces. 2017 Mar 8	28221018
Biochemical characterization of the helicase Sen1 provides new insights into the mechanisms of non-coding transcription termination	Han Z, Libri D, Porrua O.	Nucleic Acids Res. 2017 Feb 17	28180347
Modulation of the specific glutathionylation of mitochondrial proteins in the yeast <i>Saccharomyces cerevisiae</i> under basal and stress conditions	Gergondey R, Garcia C, Marchand CH, Lemaire SD, Camadro JM, Auchère F.	Biochem J. 2017 Mar 15	28167699
Lactosamine-Based Derivatives as Tools to Delineate the Biological Functions of Galectins: Application to Skin Tissue Repair	Dion J, Deshayes F, Storozhylova N, Advedissian T, Lambert A, Viguier M, Tellier C, Dusouy C, Poirier F, Grandjean C.	Chembiochem. 2017 Apr 18	28166391
Reliance of <i>Wolbachia</i> on High Rates of Host Proteolysis Revealed by a Genome-Wide RNAi Screen of <i>Drosophila</i> Cells	White PM, Serbus LR, Debec A, Codina A, Bray W, Guichet A, Lokey RS, Sullivan W.	Genetics. 2017 Apr	28159754
A Global Approach for Quantitative Super Resolution and Electron Microscopy on Cryo and Epoxy Sections Using Self-labeling Protein Tags	Müller A, Neukam M, Ivanova A, Sönmez A, Münster C, Kretschmar S, Kalaidzidis Y, Kurth T, Verbavatz JM, Solimena M.	Sci Rep. 2017 Feb 2	28154417
The Notch pathway in the annelid <i>Platynereis</i> : insights into chaetogenesis and neurogenesis processes	Gazave E, Lemaître QI, Balavoine G.	Open Biol. 2017 Feb	28148821
Towards the understanding of cytoskeleton fluidisation-solidification regulation	López-Menéndez H, Rodríguez JF.	Biomech Model Mechanobiol. 2017 Aug	28132108
Integration of Cadherin Adhesion and Cytoskeleton at Adherens Junctions	Mège RM, Ishiyama N.	Cold Spring Harb Perspect Biol. 2017 May 1	28096263
The Conservation of the Germline Multipotency Program, from Sponges to Vertebrates: A Stepping Stone to Understanding the Somatic and Germline Origins	Fierro-Constain L, Schenkelaars Q, Gazave E, Haguenaer A, Rocher C, Ereskovsky A, Borchiellini C, Renard E.	Genome Biol Evol. 2017 Mar 1	28082608
Parkinsonism-associated protein DJ-1 is a bona fide deglycase	Richarme G, Dairou J.	Biochem Biophys Res Commun. 2017 Jan 29	28013050
Soluble N-ethylmaleimide-sensitive factor attachment protein receptors required during <i>Trypanosoma cruzi</i> parasitophorous vacuole development	Cueto JA, Vanrell MC, Salassa BN, Nola S, Galli T, Colombo MI, Romano PS.	Cell Microbiol. 2017 Jun	27992096
Viruses of parasites as actors in the parasite-host relationship: A "ménage à trois"	Gómez-Arreaza A, Haenni AL, Dunia I, Avilán L.	Acta Trop. 2017 Feb	27876650
A Fresh Look at 'Aging' Proteins	Veitia RA.	Trends Biochem Sci. 2017 Feb	27856135
CML8, an Arabidopsis Calmodulin-Like Protein, Plays a Role in <i>Pseudomonas syringae</i> Plant Immunity	Zhu X, Robe E, Jomat L, Aldon D, Mazars C, Galaud JP.	Plant Cell Physiol. 2017 Feb 1	27837097
A phenomenological model of cell-cell adhesion mediated by cadherins	Mancini S, Mège RM, Sarels B, Strale PO.	J Math Biol. 2017 Jun	27783151
Enhanced Abventricular Proliferation Compensates Cell Death in the Embryonic Cerebral Cortex	Freret-Hodara B, Cui Y, Griveau A, Vigier L, Arai Y, Touboul J, Pierani A.	Cereb Cortex. 2017 Oct 1	27620979
The genetic make-up of ovarian development and function: the focus on the transcription factor FOXL2	Elzaïat M, Todeschini AL, Caburet S, Veitia RA.	Clin Genet. 2017 Feb	27604691

Experimental conditions improving in-solution target enrichment for ancient DNA	Cruz-Dávalos DI, Llamas B, Gaunitz C, Fages A, Gamba C, Soubrier J, Librado P, Seguin-Orlando A, Pruvost M, Alfarhan AH, Alquraishi SA, Al-Rasheid KAS, Scheu A, Beneke N, Ludwig A, Cooper A, Willerslev E, Orlando L.	Mol Ecol Resour. 2017 May	27566552
NR5A1 is a novel disease gene for 46,XX testicular and ovotesticular disorders of sex development	Baetens D, Stoop H, Peelman F, Todeschini AL, Rosseel T, Coppieters F, Veitia RA, Looijenga LH, De Baere E, Cools M.	Genet Med. 2017 Apr	27490115
A cost-effective high-throughput metabarcoding approach powerful enough to genotype ~44 000 year-old rodent remains from Northern Africa	Guimaraes S, Pruvost M, Daligault J, Stoetzel E, Bennett EA, Côté NM, Nicolas V, Lalis A, Denys C, Geigl EM, Grange T.	Mol Ecol Resour. 2017 May	27374145
Hill function-based models of transcriptional switches: impact of specific, nonspecific, functional and nonfunctional binding	Bottani S, Veitia RA.	Biol Rev Camb Philos Soc. 2017 May	27061969