CURRICULUM VITAE: Norbert Perrimon, Ph.D

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PERSONAL INFORMATION

- Born: 24 October 1958, Bosguerard de Marcouville, France
- Citizenships: France, USA (2005)

EDUCATION

- Undergraduate at University of Paris VI. Maitrise of Biochemistry, 1981
- Graduate Student at University of Paris VI. "These de 3e cycle" Title: "Analyse clonale de l'ovogenese chez *Drosophila melanogaster*". Professor Madeleine Gans, thesis advisor, 1983
- Postdoctoral Research Fellow at Case Western Reserve University in the laboratory of Dr. Anthony P. Mahowald, 1983-1986

APPOINTMENTS

- Assistant Professor, Department of Genetics, Harvard Medical School, 1986-1993
- Assistant Investigator, Howard Hughes Medical Institute, 1986-1993
- Associate Professor, Department of Genetics, Harvard Medical School, 1993-1996
- Associate Investigator, Howard Hughes Medical Institute, 1993 - 1997
- Professor, Department of Genetics, Harvard Medical School, 1996-present
- Investigator, Howard Hughes Medical Institute, 1997-present
- Affiliate Member, Harvard Stem Cell Institute, 2005-present
- Associate Member, Broad Institute, 2006-present
- Adjunct Professor, Molecular and Cellular Biology Department, Harvard University, 2015-Present.
- FlyBase PI. 2015-Present.

AWARDS/HONORS

- Lucille P. Markey Scholar in Biomedical Sciences, 1985
- Investigator, Howard Hughes Medical Institute, 1986-present
- Chaire d'Etat. College de France. Paris, 2003
- George W. Beadle Medal, Genetics Society of America, 2004

- RNAi Innovator Award, Gene Expression Systems, 2009
- Elected, American Academy of Arts and Sciences, 2008
- Elected, American Association for the Advancement of Science, 2009
- Elected, Associate Member of EMBO, 2011
- James Stillman Professor of Developmental Biology, 2011-present
- Elected, National Academy of Sciences, 2013
- Transformative Research Award, NIH, 2018

DISTINGUISHED LECTURES/ KEYNOTES

Keynote: FASEB meeting. Protein Phosphatases, 1994. Keynote: Developmental Biology meeting, 1994. Keynote: French Developmental Biology meeting, Marseille, 2001. Keynote: Ohio University, 2001.Keynote: Japanese Cell Biology meeting, Yokohama, 2002. Boehringer Ingelheim Lecture, IRCM Montreal, 2002. Keynote: Bone and Teeth GRC, 2003. Sloan Kettering, President Lecture, 2003. R. Williams Lecture (Penn), 2004. Richard Akeson Lecture (Cincinnati), 2004. UCSD, Distinguished Lecturer, 2004. Keynote: FASEB meeting on Growth Factor signaling, 2005. Keynote: Keystone meeting on Signaling Networks, 2006. Sterling Lecture, DFCI, 2006. Fox Chase, Distinguished Lecturer, 2008. NCI, Distinguished Lecturer, 2008. Keynote: Lorne Cancer conference, 2008. Keynote: Protein Phosphorylation, Salk, 2008. Keynote: Sheffield Symposium, 2008. Keynote: RNAi Summit Boston, 2009. Society of Fellows, Scripps 2009. Keynote: ICDB retreat, Star Institute Singapore, 2009. Keynote: Recomb 2010, Lisbon. Alma Howard Lecture, McGill, 2011. Keynote: Asian *Drosophila* meeting, Taiwan, 2011. Keynote: Montreal Bioinformatics User Group, 2011. Blaffer lecture MD Anderson, 2011. Keynote: 25th French *Drosophila* Conference, 2011. Sarah Winans Newman lecture, Ann Harbor, 2012. Keynote: Integrative Network Biology 2012, Denmark. Keynote: From stem cells to morphogenesis, Curie Institute, 2012. Keynote: UK Genes & Cancer meeting 2012. Keynote: ICSB, Coppenhagen, 2013. Keynote, FEBS JAK/STAT signaling, Nottingham, 2013. Keynote: 2014 Northwest Developmental Meeting. Keynote: 2014 RNAi/CRISPR meting, San Diego. Keynote: 2014 Model Organism Resources. Keynote: 2015 NTU opening symposium, Singapore. 2015: Annual Kaulenas Lecture. Keynote: 2015 Trans-NIH Developmental Biology Group, NIH. Keynote 45th Annual meeting Brazilian Society of Biochemistry and Molecular Biology, Natal, Brazil. 2017 USIAS Public Lecture, Strasbourg. Keynote: Societe Francaise de Genetique, Montpellier 2017. Keynote: ERATO /CREST/PREST Joint International Symposium “Inter-Organ Communication”, Kyoto 2017. Keynote: “Insect Hormones”, Crete, 2019.

PANELS, COMMITTEES, SCIENTIFIC ADVISORY BOARDS

Past: NSF.Review Panel. Biological Instrumentation and Resources, 1991-1992.NSF, Academic Research Infrastructure, 1992. NCI, NIH. Member Special Study Section, 1994 -1995.NINDS, NIH. AdHoc reviewer, 1997.NSF, Developmental Mechanisms Review Panel, 1993-1998. CNRS, Marseille, Scientific Review Committee, 1999. *Drosophila* Developmental Biology Meeting Committee. Drosophila Crete meeting committee, 1995-2008. CNRS review committee, Curie UMR-144, 2002. EMBL, Scientific Review Committee, 2003. MDCN-5, NIH. Study Section, 2003. HFSP Fellowship review committee, 2004-2007. ZRG1 FO5 NIH Fellowships Study Section,

2004-2006.Carnegie Institute, Scientific Review Committee, 2004. MGB, NIH. Study Section, 2005. Cell Biology Keystone Symposia Study Group, 2005. Scientific Review Group ZNS1 SRB, 2006. ZRG1 FO5 NIH Fellowships Study Section, 2004-2006. NSF SBIR Panel. 2007. GATC, NIH. Study Section, 2008. ERC reviewer, 2009. NIBS, Beijing - Scientific Advisory Board. 2007-2009. Harvard Medical School Scientific advisory committee on siRNA technology, 2003-2010. Labex-France 2011. Damon Runyon Scientific Advisory Committee, 2007-2011. TSC- Department of Defense, 2012. NINDS review panel, 2013. NIH study section Development, 2013. Charles A. King Trust Postdoctoral Research Fellowship Program. 2012-2015. Tuberous Sclerosis writing group 2015. Norwegian Centres of Excellence selection committee, 2017. DFG Centres of Excellence selection committee, 2017. HFSP writing group on life science and biomedical databases, 2016. Crick Institute, review committee, 2018. CRUK, review panel. 2018, 2019. CIFAR, review panel, 2018. NIH panel, resource. EMBL Scientific Review Committee, 2019.
Current: U.S. *Drosophila* Stock Center Advisory Board, 1996-present. IGBMC, Strasbourg - Scientific Advisory Board, 2006-present. Max Planck Institute for Biology of Aging (Cologne) - Scientific Advisory Board, 2011-present. ERC Horizon 2020, 2015-2020. Venitian Institute of Molecular Medicine - Scientific Advisory Board, 2016-present. Alliance for Genomics Research (AGR) Scientific Advisory Board, 2016-present. Scientific Advisory Board of the TATA Institute of Genetics and Society, 2018-present.

SEMINARS, RESEARCH PRESENTATIONS, MEETINGS (last 5 years)

2013: Yale University. University of Virginia. HMS, retreat. RNAi workshop, HMS. HHMI meeting, Bethesda. TALEN workshop, Janelia Farm. Neuronal Development Symposium, Baylor. Keystone meeting Snowbird, Cardiac remodeling. Cell Polarity, London. ICR, London. Univ. Colorado, Denver. Broad, Cell Circuitry. AACR, Seattle. Gordon Research Conference Myogenesis, Italy. EXROP, Boston. Cell polarity FASEB, Steamboat. ICSB, Coppenhagen. JAK/STAT, Nottingham. STARR, CSHL. Skirball Symposium, NYU. Stanford. University of Chicago. University of Utah, SLC.

2014: Keystone meeting on aging, Steamboat. Rigel pharmaceuticals. NYU Abu Dhabi. Northwest Developmental Meeting, Friday Harbor Labs. Stem cell Symposium, University of Washington. Ohio State University. HHMI meeting. NAS, Washington DC.
Smithies Symposium, Madison. CCSB symposium, Boston. ncRNA meting, San Diego. Wellcome Drosophila course, England. WoodsHole course, aging. NIH, model organisms. Renato Paro Symposium, Basel. NCI workshop, Houston. Wiley, New Jersey. Boston Genome. Broad Institute, Boston. Jackson Lab. HTS symposium, Curie Institute. DFCI Cancer retreat. Burnham, San Diego.

2015: Keystone meeting on cell signaling, Steamboat. Dow Pharmaceuticals. Nanocourse RNAi, HMS. Boston University. HMS, Department of Genetics Retreat. Workshop, *Drosophila* meeting, Chicago. NIH, TSC workshop. UNC North Carolina. Keystone meeting, Whistler. Novartis. SDB, Warwick England. IMBA, Vienna. IGBMC, Strasbourg. HHMI. STARR, CSHL. TSC symposium, DFCI. Aging meeting, Crete. "Cancer in flies", Barcelona. Univ of Milan. ORIP strategic planning, NIH. EXROP, Boston. Flies, Monarch and Mosquitoes, University of Maryland. EDRC, 2015 Heidelberg. BIDMC, Boston. NTU, Singapore. ERC, Brussels. Max Planck, Cologne.

CSHA, China. FlyBase SAB. Princeton Univ. Univ. Mass Amherst. IRCM, Montreal. NIH, Washington DC. Broad retreat. MCB, Harvard.

2016: Keystone meeting Hippo signaling. Lisbon. ERC, Brussels. Janelia Farm. HMS, Departmental Retreat. Nanocourse, Organ communication. NIH, single cell analysis. Muscle meeting, Israel. University of Tenessee, Knoxville. Biocuration 2016, Geneva. HHMI meeting. Starr retreat, CSHL. NHGRI uMOD. Imagine Institut, Paris. VIMM, Italy. World Preclinical Congress, Boston. 45th Annual meeting Brazilian Society of Biochemistry and Molecular Biology, Natal, Brazil. Wellcome *Drosophila* Course, Hinxton. ATCG, Orlando. NIH ORIP. CWRU, Cleveland. UTSW, Dallas. HFSP, Database meeting. UNM, New Mexico.

2017: AACR, San Diego. Dept retreat, Boston. IGBMC, Strasbourg. University of Strasbourg. Starr retreat, CSHL. EMBO meeting metabolomics, Heidelberg. QFO2017, USC. WPC congress, Boston. ISDB, Singapore. Stem Cell Institute, Singapore. Dev Biol conference, Pune, India. HHMI meeting, Janelia. EDRC, London. Institut of Neuroscience, Alicante. CGR, Barcelona. Tango, therapeutics, Boston. UNM, Albuqurque. Entomology meeting, Denver. French Society of Genetics, Montpellier. Brandeis Univ. ERATO International Symposium, Japan. RIKEN, Japan.

2018: Columbia Medical School. Stowers. AGR, Caltech. Keystone meeting, Taos. Stowers. ADRC, Philadelphia. Tsinghua Univ, China. Institute of Biophysics, China. Keystone meeting, Kyoto. Genome editing, Boston. Institut Pasteur, Paris. Genome editing and functional genomics, NIG - Japan. Welcome Drosophila course, England. GRC, stem cells. HHMI meeting, Janelia. FlyBase SAB, Boston. TATA Institute, Bangalore. Madeleine Gans Symposium, Paris.

2019: Keystone meeting, Cellular plasticity. HMS, Department of Genetics Retreat. scRNAseq meeting, Janelia. Drosophila meeting, Dallas. Barcelona, "Drosophila as a cancer model". EMBL, review committee. Xuzhou Cancer Hospital. France-USC stem cell meeting. "Insect Hormones", Crete. EDRC, Lausanne. FlyBase SAB. Mount Sinai, New York. MIT, Boston. TIGs, San Diego. AGR, Boston.

MEETINGS ORGANIZED

Segment polarity Genes. HHMI workshop, Co-organizer with Dr. R. Nusse, 1991. EGF receptor signaling in development and disease Ames Iowa. Co-organizer with Drs. M. Nilsen-Hamilton and E. Adamson, 1997. Wnt genes. Boston. Co-organizer with Drs. R. Nusse and A. McMahon, 1998. "Signaling molecules in Development" Satellite meeting. ASBMB. Washingon, D. C., 1998. Specificity in Signal Transduction. Keystone Symposia. Co-organizer with Dr. T. Pawson. 1999. Workshop on "Techniques", Annual *Drosophila* meeting, San Diego, 2002. Program Committee: American Society for Cell Biology, 2003. Epithelial Polarity (France). Co-organizer with T. Lecuit and K. Mostov, 2004. "RNAi". Fondation Les Treilles (France), 2004. Cell Polarity. Keystone Symposia.Co-organizer with Dr. B. Margolis and F. Schweisguth, 2005. RNAi Workshop. Co-organizer with Dr. B. Mathey-Prevot. *Drosophila* meetings, 2005-2006. Mini Symposium on image analysis, HMS, 2006. Atelier Inserm, France, Co-organizer with Dr. B. Mathey-Prevot, 2007. Workshop on Pattern Formation in Morphogenesis, IHES Paris, Co-organizer 2010. ISDB 2013 International committee. *Drosophila* Resources, Janelia 2016. EMBO, Heidelberg - Co-organizer, Metabolism in Time and Space 2017. Co-organizer scRNAseq, Janelia 2019. Co-organizer USC-ISCCR satellite stem cell meeting with A. McMahon, 2019. Co-organizer EDRC gut workshop with A. Bardin, 2019.

EDITORIAL BOARDS

Past: Guest Editor. Issue of Methods on Manipulation of gene expression, 1998. Co-Editor with Dr. C. Stern, Current Opinion in Cell Biology, 1999. Co-Editor with Dr. M. Bernfield, Seminars in Cell Biology, 2001. Principle Editor, Signaling. TheScientificWorld, 2000-2002. Genes and Development, Editorial Board, 1999-2004. Advisor for Nature Cell Biology, 2001-2002. Development, Editorial Board, 1999-2006. Developmental Biology, Editorial Board, 1995-2007. Review Editor, Developmental Cell, 2001-2008. Mechanisms of Development, Editorial Board, 1999-2010. Advisor for Nature Reviews in Molecular and Cell Biology, 2000-2011. Co-Editor with Dr. N. Barkai, BioMed Central Silence, 2009-2011. Current Opinion in Genetics and Development, 2011. Editor - Issue of Methods on *Drosophila* Development, 2014. Associate Editor, Diseases, Models and Mechanisms, special issue, 2016. Development, 2013-2018. Co-editor with Drs. G. Echalier and S. Mohr, *Drosophila* Cells in Culture. Academic Press, 2018 .

Current: BioMed Central Dev. Biol., 2000-present. Molecular and Cellular Biology, 2000-present. Associate of Faculty of 1000, 2001-present. The International Journal of Developmental Biology, 2002-present. BioMed Central Genomics, 2005-present. Genome Biology, 2008-present. PLoS Genetics, 2008-present. Science Signaling, 2008-present. Genetics, 2008-present. Developmental Cell, 2009-present. Molecular Systems Biology, 2009-present. WIRES-Developmental Biology, 2010-present. EMBO Reports, 2011-present. Flybook, 2015-present. Diseases, Models and Mechanisms, 2016-present. BioMed Central-Biology, 2016-present.

UNIVERSITY ACTIVITIES

Co Director of the Cell and Developmental Biology Training Grant, 1994. Dana Farber executive committee, Developmental Biology Program, 2000. Standing Committee on Faculty Fellowships, HMS, 1999-2004. Armenise Foundation Grant Committee, 2000-2002. Committee on Imaging Facility, 2002. Committee on HMS Research Compliance, 2003-2004. Committee for Merck awards for Genome related research, 2003-2006. Faculty Advisory Committee on Administration and Management, 2004-2008. HMS University Evaluation Committee, 2010. Co-Director, *Drosophila* RNAi Screening Center at Harvard Medical School, 2003—present.

Committee on Tools and Technology, 2011-2018. Micron Imaging Committee 2016-present. Foundry committee, 2019.

CONSULTING ACTIVITIES
Novartis, 2003-2004.
EnVivo Pharmaceuticals, Scientific Advisory Board, 2003-2005.
Tango Therapeutics, 2017.

PATENTS
- Cell ablation using trans-splicing ribozymes, US patent #5,641,673.
- Conditional Inteins, US patent application # 20040091966.
- *Drosophila* tumor stem cell model and uses thereof. US patent application # 20130096067.
- Compositions and methods for inhibiting cell proliferation. U.S. Patent Application "15/555331.

WEB SITES
http://www.hms.harvard.edu/dms/bbs/fac/perrimon.html
http://genetics.med.harvard.edu/~perrimon/
http://www.hhmi.org/research/investigators/perrimon.html
http://flyrnai.org

SELECTED RESEARCH ACCOMPLISHMENTS
. Germline clonal analyses methods (ovoD, FLP-FRT)
. Signaling pathway components (RTK, Wnt, JAK/STAT, JNK, Hippo, HSPGs)
. Gal4-UAS technique
. Genome-wide highthroughput RNAi and CRISP/Cas9 screens in *Drosophila* cells
. Identification of adult gut stem cells
. CRISP/Cas9 overexpression methods
. Transgenic shRNA and gRNA genome scale libraries
. In vivo APEX and BirA proximity labeling methods
. Interorgan communication factors
. Identification of cachexia factors

PUBLICATIONS

Research Papers

1) Perrimon, N. and Gans, M. (1983) Clonal analysis of the tissue specificity of recessive female sterile mutations of *Drosophila melanogaster* using a dominant female sterile mutation *Fs(1)K1237*. Dev. Biol. **100**, 365-373.
2) Perrimon, N. (1984) Clonal analysis of dominant female sterile, germline-dependent mutations in *Drosophila melanogaster*. Genetics **108**, 927-939.
3) White, R. H., Perrimon, N and Gehring, W. J. (1984) Differentiation markers in *Drosophila* ovary. J. E. E. M. **84**, 275-286.
4) Perrimon, N., Engstrom, L., and Mahowald, A. P. (1984). The effects of zygotic lethal mutations on female germ-line functions in *Drosophila*. Dev. Biol. **105**, 404-414.

5) Perrimon, N., Engstrom, L., and Mahowald, A. P. (1984). Developmental genetics of the 2E-F region of the *Drosophila X*-chromosome: A region rich in "developmentally important " genes. Genetics **108**, 559-572.
6) Perrimon, N., Engstrom, L., and Mahowald, A. P. (1985). A pupal lethal mutation with a paternally influenced maternal effect on embryonic development in *Drosophila melanogaster*. Dev. Biol. **110**, 480-491.
7) Perrimon, N., Engstrom, L., and Mahowald, A. P. (1985). Developmental genetics of the 2C-D region of the *Drosophila X*-chromosome. Genetics **111**, 23-41.
8) Mortin, M. A., Perrimon, N. and Bonner, J. J (1985) Clonal analysis of two mutations in the large subunit of RNA polymerase II of *Drosophila*. Mol. Gen. Genet. **199**, 421-426.
9) Degelmann, A., Hardy, P., Perrimon, N. and Mahowald, A. P. (1986) Developmental analysis of the torso-like phenotype in *Drosophila* produced by maternal effect locus. Dev. Biol. **115**, 479-489.
10) Perrimon, N., Mohler, J. D., Engstrom, L and Mahowald, A. P. (1986) *X*-linked female sterile loci in *Drosophila melanogaster*. Genetics **113**, 695-712.
11) Perrimon, N. and Mahowald, A. P. (1986) *l(1)hopscotch* a larval-pupal lethal with a specific maternal effect on segmentation in *Drosophila*. Dev. Biol. **118**, 28-41.
12) Petschek, J., Perrimon, N., and Mahowald, A. P. (1987). Region specific effects in *l(1)giant* embryos of *Drosophila melanogaster*. Dev. Biol. **119**, 175-189.
13) Perrimon, N. and Mahowald, A. P. (1987) Multiple functions of the segment polarity genes in *Drosophila*. Dev. Biol. **119**, 587-600.
14) Mark, G. E., MacIntyre, R. J., Digan, M. E., Ambrosio, L. and Perrimon, N. (1987) *Drosophila melanogaster* homologs of the *raf* oncogene. Mol. Cell. Biol. **7**, 2134-2140.
15) Oliver, B., Perrimon, N. and Mahowald, A. P. (1987) The *ovo* locus is required for sex specific germ line maintenance in *Drosophila*. Genes and Dev. **1**, 913-923.
16) Perrimon, N. (1988) The maternal effect of *l(1)discs-large-1*, a recessive oncogene in *Drosophila melanogaster*. Dev. Biol. **127**, 392-407.
17) Oliver, B., Perrimon, N. and Mahowald, A. P. (1988) Genetics evidence that the *sans-fille* locus is involved in *Drosophila* sex determination. Genetics **120**, 159-171.
18) Smouse, D., Goodman, C., Mahowald, A. P. and Perrimon, N. (1988) *polyhomeotic:* A gene required for the embryonic development of axon pathways in the central nervous system of *Drosophila*. Genes and Dev. **2**, 830-842.
19) Ng, S-C., Perkins, L. A., Conboy, G., Perrimon, N. and Fishmann, M. (1989) A *Drosophila* gene expressed in the embryonic CNS shares one conserved domain with the mammalian GAP-43. Development. **105**, 629-638.
20) Perrimon, N., Engstrom, L., and Mahowald, A. P. (1989) Zygotic lethals with specific maternal effect phenotypes in *Drosophila melanogaster*. I. Loci on the X-chromosome. Genetics **121**, 333-352.
21) Perrimon, N., Smouse, D. T. and Miklos, G. L. G. (1989) Developmental genetics of loci at the base of the X-chromosome of *Drosophila melanogaster*. Genetics **121**, 313-331.

22) Perrimon, N., and Smouse, D. (1989) Multiple functions of a *Drosophila* homeotic gene, *zeste-white 3*, during segmentation and neurogenesis Dev. Biol. **135**, 287-305.
23) Klingensmith, J., Noll, E. and Perrimon, N. (1989) The segment polarity phenotype of *Drosophila* involves differential tendencies toward transformation and cell death. Dev. Biol. **134**, 130-145.
24) Ambrosio, L. Mahowald, A. P. and Perrimon, N. (1989) *l(1)pole hole* is required maternally for pattern formation in the terminal regions of the embryo. Development **106**, 145-158.
25) Ambrosio, L. Mahowald, A. P. and Perrimon, N. (1989) Requirement of the *Drosophila* raf homologue for *torso* function. Nature **342**, 288-291.
26) Perkins, L. A., Doctor, J. S., Zhang, K., Stinson, L., Perrimon, N. and Craig. E. A. (1990) Molecular and developmental characterization of the *heat shock cognate 4* gene of *Drosophila melanogaster*. Mol. Cell. Biol. **10**, 3232-3238.
27) Smouse, D. T. and Perrimon, N. (1990) Genetic dissection of a complex neurological mutant, *polyhomeotic*, in *Drosophila*. Dev. Biol. **139**, 169-185.
28) Zhang, K., Chaillet, R., Perkins, L. A., Halazonetis, T. and Perrimon, N. (1990) *Drosophila* homolog of the mammalian *jun* oncogene is expressed during embryonic development and activates transcription in mammalian cells. P.N.A.S. **87**, 6281-6285.
29) Finkelstein, R., Smouse. D. T., Capaci, T., Spradling, A. C. and Perrimon, N. (1990) The *orthodenticle* gene encodes a novel homeodomain protein involved in the development of the *Drosophila* nervous system and ocellar visual structures. Genes and Dev. **4**, 1516-1527.
30) Finkelstein, R. and Perrimon, N. (1990) The *orthodenticle* gene is regulated by *bicoid* and *torso* and specifies *Drosophila* head development. Nature **346**, 485-488.
31) Siegfried, E., Perkins, L. A., Capaci, T. M. and Perrimon, N. (1990) Putative protein kinase product of the *Drosophila* segment-polarity gene, *zeste-white 3*. Nature **345**, 825-829.
32) Zhang, K. Smouse, D. T. and N. Perrimon (1991) The *crooked neck* gene of *Drosophila* contains a motif found in a family of yeast cell cycle genes. Genes and Dev. **5**, 1080-1091.
33) Perrimon, N., Noll, E., McCall, K. and Brand, A. (1991) Generating lineage-specific markers to study *Drosophila* development. Dev. Genet. **12**, 238-252.
34) Eberl, D. Perkins, L. A., Engelstein, M., Hilliker, A., and N. Perrimon. (1992) Developmental genetics of loci in region 17 of the X-chromosome of *Drosophila melanogaster*. Genetics **130**, 569-583
35) Kassis, J. A., Noll, E., VanSickle, E., Odenwald, W. and N. Perrimon. (1992) Altering the insertion specificity of a *Drosophila* transposable element. P.N.A.S. **89**, 1919-1923.
36) Chou T. B., and N. Perrimon (1992) Use of a yeast site-specific recombinase to produce female germline chimeras in *Drosophila*. Genetics **131**, 643-653.
37) Perkins, L. A., Larsen, I., and Perrimon, N. (1992) *corkscrew* encodes a putative protein tyrosine phosphatase that functions to transduce the terminal signal from the receptor tyrosine kinase *torso*. Cell **70**, 225-236

38) Rutledge, B., Zhang, K., Bier, E., Jan, Y. N. and Perrimon, N. (1992) The *Drosophila spitz* gene encodes a putative EGF-like growth factor involved in dorsal-ventral axis formation and neurogenesis. Genes and Dev. **6**, 1503-1517.
39) Wieschaus, E., Perrimon, N. and Finkelstein, R. (1992) *orthodenticle* activity is required for the development of medial structures in the larval and adult epidermis of *Drosophila*. Development **115**, 801-811.
40) Siegfried, E. Chou, T-B, and Perrimon, N. (1992) *wingless* signaling acts through *zeste-white 3*, the *Drosophila* homologue of g*lycogen synthase kinase-3*, to regulate *engrailed* and establish cell fate. Cell **71**, 1167-1179.
41) Dang, D. T. and Perrimon, N (1992) Use of a yeast site-specific recombinase to generate embryonic mosaics in *Drosophila*. Dev. Genetics. **13**, 367-375.
42) Lu, X. Chou T. B, Williams, N., Roberts, T. and Perrimon, N. (1993) Control of cell fate determination by $p21^{ras}$/*Ras1*, an essential component of *torso* signaling in *Drosophila*. Genes and Dev. **7**, 621-632.
43) Melnick, M. B. Perkins, L. A., Lee, M., Ambrosio, L. Perrimon, N. (1993) Developmental and molecular characterization of mutations in the *Drosophila* raf serine-threonine protein kinase. Development **118**, 127-138.
44) Brand, A. and Perrimon, N. (1993) Targeted gene expression as a means of altering cell fates and generating dominant phenotypes. Development **118**, 401-415.
45) Harrison, D. and Perrimon, N. (1993) Simple and efficient generation of marked clones in *Drosophila.* Current Biology. **3**, 424-433.
46) Melnick, M. B., Noll, E. and Perrimon, N. (1993) The *Drosophila stubarista* phenotype is associated with a dosage effect of the putative ribosome-associated protein D-p40 on *spineless*. Genetics **135**, 553-564.
47) Chou, T.-B., Noll, E. and Perrimon, N. (1993) Autosomal $P[ovo^{D1}]$ dominant female sterile insertions in *Drosophila* and their use in generating germline chimeras. Development **119,** 1359-1369.
48) van den Heuvel, M., Harryman-Samos, C., Klingensmith, J., Perrimon, N. and Nusse, R. (1993) Mutations in the segment polarity genes *wingless* and *porcupine* impair secretion of the wingless protein. EMBO. J. **12**, 5293-5303
49) Siegfried, E., Wilder, E. and Perrimon, N. (1994) Components of *wingless* signaling in *Drosophila*. Nature **367,** 76-80.
50) Noordermeer, J., Klingensmith, J., Perrimon, N. and Nusse, R. (1994)*dishevelled* and *armadillo* are essential components of the *wingless* signaling pathway in *Drosophila*. Nature **367,** 80-83.
51) Klingensmith, J., Nusse, R. and Perrimon, N. (1994) The *Drosophila* segment polarity gene *dishevelled* encodes a novel protein required for response to the *wingless* signal. Genes and Dev. **8,** 118-130.
52) Binari, R. and Perrimon, N. (1994) Stripe-specific regulation of pair-rule genes by *hopscotch*, a putative Jak family tyrosine kinase in *Drosophila*. Genes and Dev. **8,** 300-312.
53) Brand, A. and Perrimon, N. (1994) Raf acts downstream of the EGF receptor to determine dorso-ventral polarity during *Drosophila* oogenesis. Genes and Dev. **8**, 629-639.

54) Lu, X., Melnick, M.B., Hsu, J-C. and Perrimon, N. (1994). Genetics and molecular analysis of mutations involved in *Drosophila-raf* signal transduction. EMBO J. **13**, 2592-2599.
55) Hsu, J-C. and Perrimon, N. (1994). A temperature sensitive MEK mutation demonstrates the conservation of the signaling pathways activated by receptor tyrosine kinases. Genes and Dev. **8,** 2176-2187.
56) Sussman, D.J., Klingensmith, J., Salinas, P., Adams, P. S., Nusse, R. and Perrimon, N. (1994) Isolation and characterization of a mouse homolog of the *Drosophila dishevelled* segment polarity gene. Dev. Biol. **166**, 73-86.
57) Wilder, E.L. and Perrimon, N. (1995). Dual functions of *wingless* in the *Drosophila* leg imaginal disc. Development **121**, 477-488.
56) Hou, X.S., Chou, T.-B., Melnick, M. and Perrimon, N. (1995). The Torso receptor tyrosine kinase can activate Raf in a Ras-independent pathway. Cell **81**, 63-7.
57) Sokol, S.Y., Klingensmith, J., Perrimon, N. and Itoh, K. (1995). Dorsalizing and neuralizing properties of Xdsh, a maternally expressed Xenopus homolog of *dishevelled*. Development. **121**, 1637-1647.
58) Harrison, D.A., Binari, R., Nahreini, T. S., Gilman, M. and Perrimon, N. (1995) Activation of a *Drosophila* janus kinase (JAK) causes hematopoietic neoplasia and developmental defects. EMBO. J. **14**, 2857-2865.
59) Rivera-Pomar, R., Lu, X., Perrimon, N., Taubert, H. and Jackle, H. (1995) Activation of posterior gap gene expression in the *Drosophila* blastoderm. Nature **376**, 253-256.
60) Yoffe, K., Manoukian, A., Wilder, E., Brand, A. and Perrimon, N. (1995) Evidence for engrailed-independent wingless autoregulation in *Drosophila*. Dev. Biol. **170**, 636-650.
61) Yin, J.C.P., Wallach, J.S., Wilder, E.L., Klingensmith, J., Dang, D., Perrimon, N., Zhou, H., Tully, T. and Quinn, W.G. (1995) A*Drosophila* CREB/CREM homolog encodes multiple isoforms, including a cyclic AMP-dependent protein kinase-responsive transcriptional activator and antagonist. Mol. Cell. Biol. **15**, 5123-5130.
62) Manoukian, A.S., Yoffe, K., Wilder, E.L. and Perrimon, N. (1995) The *porcupine* gene is required for *wingless* autoregulation in *Drosophila*. Development **121**, 4037-4044.
63) Hou, X.S., Melnick, M.B. and Perrimon, N. (1996) *marelle* acts downstream of the *Drosophila* Hop/JAK kinase and encodes a protein similar to the mammalian STATs. Cell **84**, 411-420.
64) Cleghon, V., Gayko, U., Copeland, T.D., Perkins, L.A., Perrimon, N. and Morrison, D.K. (1996). *Drosophila* terminal structure development is regulated by the compensatory activities of positive and negative phosphotyrosine signaling sites on the Torso RTK. Genes Dev. **10**, 566-577.
65) Axelrod, J., Matsuno, K., Artavanis-Tsakonas, S. and Perrimon, N. (1996). Dishevelled mediates interaction between Wingless and Notch signaling pathways. Science **271**, 1826-1832.
66) Musacchio M. and Perrimon N. (1996) The *Drosophila kekkon* genes: novel members of both the leucine-rich repeat and immunoglobulin superfamilies expresed in the CNS. Dev Biol. **78**, 63-76.

67) Klingensmith, J., Yang Y., Axelrod J. D., Beier D. R., Perrimon N. and Sussman D. J. (1996) Conservation of *dishevelled* structure and function between flies and mice: isolation and characterization of *Dvl2*. Mech Dev. **58**, 15-26.
68) Perkins, L.A., Johnson, M.R., Melnick, M.B. and Perrimon, N. (1996). The non-receptor protein tyrosine phosphatase Corkscrew functions in multiple receptor tyrosine kinase pathways in *Drosophila*. Dev. Biol. **180**, 63-81.
69) Kadowaki, T., Wilder, E., Klingensmith, J., Zachary, K. and Perrimon, N. (1996). The segment polarity gene *porcupine* encodes a putative multitransmembrane protein involved in Wingless processing. Genes and Dev. **15**, 3116-3128.
70) Rulifson, E.J., Micchelli, C.A., Axelrod, J.D., Halevy, M., Perrimon, N. and Blair, S. (1996). *wingless* refines its own expression domain on the *Drosophila* wing margin. Nature **384**, 72-74.
71) Chou, T.-B. and Perrimon, N. (1996). The autosomal FLP-DFS technique for generating germline mosaics in *Drosophila melanogaster*. Genetics **144**, 1673-1679.
72) Perrimon, N., Lanjuin, A., Arnold, C. and Noll, E. (1996). Zygotic lethal mutations with maternal effect phenotypes in *Drosophila melanogaster*. II. Loci on the second and third chromosomes identified by P-element induced mutations. Genetics **144**, 1681-1692.
74) Goode, S., Melnick, M.B., Chou, T.-B. and Perrimon, N. (1996). The role of Egghead during morphogenesis of the follicular cell epithelium. Development **122**, 3863-3879.
75) Hou, X.S. and Perrimon, S. (1997). The JAK/STAT pathway in *Drosophila*. TIG. **13,** 105-110.
76) Yu, Y., Li, W., Su, K., Yssa, M., Han, W., Perrimon, N. and Pick, L. (1997). The nuclear hormone receptor Ftz-F1 is a cofactor for the *Drosophila* homeodomain protein Fushi Tarazu. Nature **385**, 552-554.
78) Eberl, D., Lorenz, L.J., Melnick, M.B., F., Sood, V., Lasko, P. and Perrimon, N. (1997). A new enhancer of position-effect variegation in *Drosophila melanogaster* encodes a putative RNA helicase that binds chromosomes and is regulated by the cell cycle. Genetics **146**, 951-963.
79) Hou, X.S., Goldstein, E.S. and Perrimon, N. (1997). *Drosophila* Jun relays the Jun amino-terminal kinase signal transduction pathway to the Decapentaplegic signal transduction pathway in regulating epithelial cell sheet movement. Genes and Dev. **11**, 1728-1737.
80) Goode, S. and Perrimon, N. (1997). Inhibition of patterned cell shape change and cell invasion by Discs large during *Drosophila* oogenesis. Genes and Dev. **11**, 2532-2544.
81) Haecker, U., Lin, X. and Perrimon, N (1997) The *Drosophila* Sugarless gene modulates Wingless signaling and encodes an enzyme involved in polysaccharide biosynthesis. Development **124**, 3565-3523.
82) Li, W., Skoulakis, E.M.C., Davis, R.L. and Perrimon, N. (1997). The *Drosophila* 14-3-3 protein leonardo enhances torso signaling through D-raf in a Ras1-dependent manner. Development **124**, 4163-4171.
83) Eberl, D., Duyk, G.M. and Perrimon, N. (1997) A genetic screen for mutations that disrupt an auditory response in *Drosophila melanogaster*. P.N.A.S. **94**, 14837-14842.

84) Haecker, U. and Perrimon, N. (1998) The *DRho- GEF2* encodes a member of the Dbl family of oncogenes and controls cell shape changes during gastrulation in *Drosophila*. Genes and Dev. **12**, 274-284

85) Duffy, J.B., Harrison, D.A. and Perrimon, N. (1998). Identifying loci required for follicular patterning using directed mosaics. Development **125**, 2263-2271.

86) Bellaiche, Y., The, I. and Perrimon, N.(1998) *Tout-velu*, a *Drosophila* homologue of the putative tumor suppressor gene *Ext-1*, is required for the diffusion of the hedgehog protein. Nature **394**, 85-88.

87) Perrimon, N. (1998) New advances in *Drosophila* provide opportunities to study gene functions. P.N.A.S. **95**, 9716-9717.

88) Axelrod, J.D., Miller, J.R., Shulman, J.M., Moon, R.T. and Perrimon, N. (1998) Differential recruitment of Dishevelled provides signaling specificity in the Wingless and Planar Cell Polarity signaling pathways. Genes and Dev. **12**, 2610-2622.

89) Harrison, D.A., McCoon, P.E., Binari, R., Gilman, M. and Perrimon, N. (1998) *Drosophila unpaired* encodes a secreted protein that activates the JAK signaling pathway. Genes and Development **12**, 3252-3263.

90) Cleghon, V., Feldmann, P., Ghiglione, C., Copeland, T.D., Perrimon, N., Hughes, D.A., and Morrison, D.K. (1998). Opposing actions of CSW and RasGAP modulate the strength of Torso RTK signaling in the *Drosophila* terminal pathway. Molecular Cell **2**, 719-727.

91) Li, W., Melnick, M. and Perrimon, N. (1998) Dual Function of Ras in Raf activation. Development **125**, 4999-5008.

92) Ghiglione, C., Perrimon, N., and Perkins, L. (1999) Quantitative variations in the level of MAPK activity controls patterning of the embryonic termini in *Drosophila*. Dev. Biol. **205**, 181-193.

93) Gayko, U., Cleghon, V., Copeland, T., Morrison, D. K., and Perrimon, N. (1999). Synergistic activities of multiple phosphotyrosine residues mediate full signaling from the *Drosophila* Torso Receptor Tyrosine Kinase. P.N.A.S. **96**, 523-528

94) Ghiglione, C., Carraway, K.L., Amundadottir, L.T., Boswell, R.E., Perrimon, N.*, and Duffy, J.B.* (1999). The transmembrane molecule Kekkon 1 acts in a feed back loop to negatively regulate the activity of the *Drosophila* EGF receptor during oogenesis.* Co-senior and corresponding authors.Cell **96**, 847-856.

95) Zeidler, M. P., Perrimon, N. and Strutt, D.I.(1999). Polarity determination in the *Drosophila* eye: a novel role for Unpaired and JAK/STAT signalling. Genes and Development **13**, 1342-1353

96) Bellaiche, Y., Mogila, V. and Perrimon, N. (1999). I-SceI endonuclease, a new tool for studying DNA double stand break repair mechanisms in *Drosophila*. Genetics **152**, 1037-1044.

97) Lin, X., and Perrimon, N. (1999) Dally cooperates with *Drosophila* Frizzled 2 to transduce Wingless signaling. Nature **400**, 218-284.

98) Lin, X., Buff, E.M., Perrimon, N., and Michelson, A.M. (1999) Heparan sulfate proteoglycans are essential for FGF receptor signaling during *Drosophila* embryonic development. Development **126**, 3715-3723.

99) The, I., Bellaiche, and Perrimon, N. (1999) Hedgehog movement is regulated through *tout velu*-dependent synthesis of a heparan sulfate proteoglycan. Molecular Cell **4**, 633-640.

100) Martin Blanco, E., Roch, F., Noll, E., Baonza, A., Duffy, J.B., and Perrimon, N. (1999) A temporal switch in DER signaling controls the specification and differentiation of veins and interveins in the *Drosophila* wing. Development **126**, 5739-5747.

101) Zeidler, M. P., Perrimon, N. and Strutt, D.I. (1999) The *four jointed* gene is required in the *Drosophila* eye for ommatidial polarity specification. Current Biology **9**, 1363-1372.

102) Bilder, D. and Perrimon, N. (2000) Localization of apical epithelial determinants by the basolateral PDZ protein Scribble. Nature **403**, 676-680.

103) Bilder, D., Li, M. and Perrimon, N. (2000) Cooperative regulation of cell polarity and growth by *Drosophila* tumor suppressors. Science **289**, 113-116.

104) Baum, B., Li, W. and Perrimon, N. (2000) A cyclase-associated protein regulates actin and cell polarity during *Drosophila* oogenesis and in yeast. Current Biology **10**, 964-973.

105) Li, W., Noll, E. and Perrimon, N. (2000) Identification of autosomal regions involved in *Drosophila* Raf function. Genetics **156**, 763-774.

106) Noll, E., Medina, M., Hartley, D., Zhou J., Perrimon, N and Kosik. K. S. (2000) Presenilin Affects Arm/b-Catenin Localization and Function in *Drosophila*. Dev Biol. **227**, 450-464.

107) Tanaka, K., Okabayashi, K., Asashima, M., Perrimon, N. and Kadowaki, T. (2000) The evolutionarily conserved porcupine gene family is involved in the processing of the Wnt family. Eur J. Biochem. **267**, 4300-431

108) Zeidler, M. P., Perrimon, N. and Strutt, D.I.(2000) Multiple roles for *four jointed* in planar polarity and limb patterning. Dev Biol. **228,** 181-196

109) Baeg, G. H., Lin, X., Khare, N., Baumgartner, S. and Perrimon, N. (2001) Heparan sulfate proteoglycans are critical for the organization of the extracellular distribution of Wingless. Development **128**, 87-94.

110) Bai, J. M., Wang, J. C., Chiu, W.S., Perrimon, N. and Hsu, J.C. (2001) The cell adhesion molecule Echinoid defines a new pathway that antagonizes the *Drosophila* EGF receptor signaling pathway. Development **128**, 591-601

110) Baum, B. and Perrimon, N. (2001) Spatial organization of the actin cytoskeleton in *Drosophila* epithelial cells. Nature Cell Biology **3**, 883-890.

111) Selva, E., Hong, K., Baeg, G. H., Beverley, S. M., Turco, S. J., Perrimon, N. and Haecker, U. (2001) Dual Role of the *fringe connection* gene in both Heparan Sulfate and *fringe*-dependent signaling events. Nature Cell Biology **3**, 809-815.

112) Stronach, B. E. and Perrimon, N. (2001) Investigation of leading edge formation at the interface of amnioserosa and dorsal ectoderm in the *Drosophila* embryo. Development **128**, 2905-2913

113) Suzanne, M., Perrimon, N. and Noselli, S. (2001). The *Drosophila* JNK pathway controls the morphogenesis of the egg dorsal appendages and micropyle. Dev Biol. **237**, 282-294.

114) Hong, Y., Stronach, B., Perrimon, N, Jan, L. Y. and Jan, Y. N. (2001) *Drosophila stardust* interacts with Crumbs to control polarity of epithelia but not neuroblasts in *Drosophila.* Nature **414**, 634-638.

115) Ghiglione, C., Bach, E., Paraiso, Y., Carraway, K., Noselli, S. and Perrimon, N. (2002) Mechanism of activation of the *Drosophila* EGF Receptor by the TGFα ligand Gurken during oogenesis. Development **129**, 175-186

116) Stronach, B. E. and Perrimon, N. (2002) Activation of the JNK pathway during dorsal closure in *Drosophila* requires the mixed lineage kinase, *slipper*. Genes and Development **16**, 377-387

117) Chen, H.W., Marinissen, M. J., Oh, S.W., Chen, X., Melnick, M., Perrimon, N. Gutkind, J.S., and Hou, S. X. (2002) CKA, a novel multidomain protein, regulates the JUN N-terminal kinase signal transduction pathway in *Drosophila*. Mol. Cell. Biol. **6**, 1792-1803.

118) Micchelli, C., The, I. Selva, E., Mogila, V. and and Perrimon, N. (2002) Rasp, a putative transmembrane acyltransferase, is required for Hedgehog signaling. Development **129,** 843-851

119) Mathew, D., Gramates, L. S., Packard, M., Packard, U., Thomas, U., Bilder, D., Perrimon, N., Gorczyca, M., and Budnick, V. (2002) Recruitment of Scribble to the synaptic scaffolding complex requires GUK-holder, a novel DLG binding protein. Current Biology **12**, 531-539.

120) Schöck, F., and Perrimon, N. (2002) Cellular processes associated with germ band retraction in *Drosophila*. Developmental Biology **248**, 29-39.

121) Li, W., Agaisse, H., Mathey-Prevot, B. and Perrimon, N. (2002) Differential requirement for STAT by gain-of-function and wild-type receptor tyrosine kinase Torso in *Drosophila*. Development **129**, 4241-4248.

122) Hrdlicka, L., Gibson, M., Kiger, A., Micchelli, C., Schober, M., Schöck, F. and Perrimon, N. (2002) Analysis of twenty four Gal4 lines in *Drosophila melanogaster*. Genesis **34**, 51-57.

123) Boutros, M., Agaisse, H. and Perrimon, N. (2002) Sequential activation of signaling pathways during innate immune responses in *Drosophila*. Developmental Cell **3**, 711-722.

124) Song. H-J., Billeter, J-C., Reynaud, E., Carlo, T., Spana, E. P., Perrimon, N., Goodwin, S. F., Baker, B. S. and Taylor, B. J. (2002) The *fruitless* gene is required for the proper formation of axonal tracts in the embryonic central nervous system of *Drosophila*. Genetics **162**, 1703-1724.

125) Wills, Z., Emerson, M., Rusch, J., Bikoff, J., Baum, B., Perrimon, N. and Van Vactor, D. (2002) A *Drosophila* homologue of Cyclase-associated proteins collaborates with the Abl tyrosine kinase to control midline axon pathfinding. Neuron **36**, 611-622.

126) Tan, C., Stronach, B., and Perrimon, N. (2003) Roles of Myosin Phosphatase during *Drosophila* development. Development **130**, 671-681.

127) Bilder, D., Schober, M. and Perrimon, N. (2003) Integrated activity of PDZ protein complexes regulates epithelial polarity. Nature Cell Biology **5**, 53-58.

128) Schöck, F. and Perrimon, N. (2003) Retraction of the *Drosophila* germ band requires cell-matrix interaction. Genes and Development **17**, 597-602.

129) Micchelli, C., Esler, W. P., Kimberly, W. T., Jack, C., Berezovska, O., Kornilova, A., Hyman, B. T., Perrimon, N. and Wolfe, M. S. (2003) □g-Secretase/presenilin inhibitors for Alheimer's disease phenocopy *Notch* mutations in *Drosophila*. FASEB Journal **17**, 79-81.

130) Adam, G., Perrimon, N. and Noselli, S. (2003) The retinoic-like juvenile hormone controls the looping of left-right asymmetric organs in *Drosophila*. Development **130**, 2397-2406.

131) Bashirullah, A., Pasquinelli, A. E., Kiger, A., Perrimon, N., Ruvkun, G. and Thummel, C. S. (2003) Coordinate regulation of small temporal RNAs at the onset of *Drosophila* metamorphosis. Dev. Biol. **259**, 1-8.
132) Lüders, F., Segawa, H., Stein, D., Selva, E. M., Perrimon, N., Turco, S. J. and Häcker, U. (2003) *slalom* encodes an adenosine 3'-phosphate 5'-phosphosulfate transporter essential for development in *Drosophila*. EMBO J. **22**, 3635-3644.
133) Ghiglione, G., Amundadottir, L., Andresdottir, M., Bilder, D., Diamonti, J. A., Noselli., Perrimon. N. and Carraway III, K. L. (2003) Mechanism of inhibition of the *Drosophila* and mammalian EGF receptors by the transmembrane protein Kekkon 1. Development **130**, 4483-4493
134) Agaisse, H., Petersen, U-M., Boutros, M., Mathey-Prevot, B. and Perrimon, N. (2003) Signaling Role of Hemocytes in *Drosophila* JAK/STAT-Dependent Response to Septic Injury. Developmental Cell **5**, 441-450
135) Sasamura, T., Sasaki, N., Miyashita, F., Nakao, S., Ishikawa, H. O., Ito, M., Kitagawa, M., Harigaya, K., Spana, E., Bilder, D., Perrimon, N. and Matsuno, K. (2003) *neurotic*, a novel maternal neurogenic gene, encodes an *O*-fucosyltransferase homolog that is essential for Notch-Delta interactions. Development **130**, 4785-4795.
136) Bach, E. A., Vincent. S., Zeidler. M. and Perrimon, N. (2003) A sensitized genetic screen to identify novel regulators and components of the *Drosophila* Janus Kinase/Signal Transducer and Activator of Transcription Pathway. Genetics **165**, 1149-1166.
137) Kiger, A. A., Baum, B., Jones, S., Jones, M. R., Coulson, A., Echeverri, C. and Perrimon, N. (2003) A functional genomic analysis of cell morphology using RNA-interference. Journal of Biology **2** (4).
138) Cherry, S. and Perrimon, N. (2004) Entry is a rate-limiting step for viral infection in a *Drosophila* model for pathogenesis. Nature Immunology **5**, 81-87.
139) Boutros, M., Kiger, A. A., Armknecht, S., Kerr, K. Hild, M., Koch, B., Haas, S. A., Heidelberg Fly Array Consortium., Paro, R., and Perrimon, N. (2004) Genome-Wide RNAi Analysis of Growth and Viability in *Drosophila* Cells. Science **303**. 832-835.
140) Zeidler, M., Tan, C., Bellaiche, Y., Cherry, S., Häder, S., Gayko, U. and Perrimon, N. (2004) Temperature-sensitive control of protein activity by conditionally splicing inteins. Nature Biotechnology **22**. 871-879.
141) Brückner, K., Kockel, L., Duchek, P., Luque, C. M., Rørth, P., and Perrimon, N. (2004) The PDGF/VEGF Receptor Controls Blood Cell Survival in *Drosophila.* Developmental Cell **7**. 73-84.
142) Sinenko, S. A., Kim, E-K., Wynn, R., Manfruelli, P., Ando, I., Wharton, K. A., Perrimon. N. and Mathey-Prevot. B. (2004) Yantar, a conserved arginine-rich protein is involved in *Drosophila* hemocyte development. Dev. Biol, **273**, 48-62.
143) Schlesinger, A., Kiger, A., Perrimon, N. and Shilo, B-Z. (2004) Small wing PLCg is required for ER retention of cleaved Spitz during eye development in *Drosophila.* Developmental Cell **7**, 535-545.
144) Eggert, U. S., Kiger, A. A., Richter, C., Perlman, Z. E., Perrimon,N., Mitchison, T. J. and Field, C. M. (2004) Parallel chemical genetic and genome-wide RNAi screens identify cytokinesis inhibitors and targets. PLOS Biology **2**. e379.

145) Baeg, G. H., Selva, E., Goodman, R., Dasgupta, R. and Perrimon, N. (2004) The Wingless morphogen gradient is established by the cooperative action of Frizzled and Heparan Sulfate Proteoglycans receptors. Dev Biol. **276**. 89-100.
146) Cherry, S., Doukas. T., Armknecht, S., Whelan, S., Wang, H., Sarnow, P. and Perrimon, N. (2005) Genome-wide RNAi screen reveals a specific sensitivity of IRES-containing RNA viruses to host translation inhibition. Genes and Development **19**. 445-452.
147) Gibson, M. C. and Perrimon, N. (2005) Extrusion and death of DPP/BMP-compromised epithelial cells in the developing *Drosophila* wing imaginal epithelium. Science **307**. 1785-1789.
148) Hayward, P., Brennan, K., Sanders, P., Balayo, T., Dasgupta, R., Perrimon, N. and Martinez Arias, M. (2005) Notch modulates Wnt signalling by associating with Armadillo/ß-catenin and regulating its transcriptional activity. Development **132**. 1819-1830.
149) Dasgupta, R., Kaykas, A., Moon, R. T. and Perrimon, N. (2005) Functional genomic analysis of the Wnt-Wingless signaling pathway. Science **308**. 826-832.
150) Schober, M., Rebay, I. and Perrimon, N. (2005) Function of the ETS transcription factor Yan in border cell migration. Development **132**. 3493-3504.
151) Philips, J., Rubin, E. and Perrimon, N. (2005) *Drosophila* RNAi screen reveals CD36 family member required for Mycobacterial infection. Science **309**. 1251-1253.
152) Agaisse, H., Burrack, L., Philips, J., Rubin, E., Perrimon, N. and Higgins, D. E. (2005) Genome-wide RNAi screen for host factors required for intracellular bacterial infection. Science **309**, 1248-1251.
153) Baeg, G. H., Zhou, R. and Perrimon, N. (2005) Genome-wide RNAi analysis of JAK/STAT signaling components in *Drosophila*. Genes and Development **19**. 1861-1870. Addendum in Genes and Development (2007) **21**. 875-877.
154) Zhou, X., Liu, K.Y., Bradley, P., Perrimon, N., and Wong, S. T. (2005) Towards automated cellular image segmentation for RNAi genome-wide screening. Med Image Comput Comput Assist Interv Int Conf Med Image Comput Comput Assist Interv. **8**, 885-92.
155) Nybakken, K., Vokes, S. S., Lin, T-Y., McMahon, A. P. and Perrimon, N. (2005) Genome-wide RNA interference screening identifies many new genes with roles in Hedgehog signaling. Nature Genetics. **37**. 1323-1332.
156) Kirilly, D., Spana, E., Perrimon, N., Padgett, R. W., and Xie, T. (2005) BMP signaling is required for controlling somatic stem cell self-renewal in the *Drosophila* ovary. Developmental Cell. **9**, 651-662.
157) Flockhart, I., Booker, M., Kiger. A., Boutros, M., Armknecht, S., Ramadan, N., Richardson, K., Xu, A., Perrimon, N. and Mathey-Prevot. B. (2006) FlyRNAi: The *Drosophila* RNAi Screening Center Database. Nucleic Acid Research. D489-94.
158) Micchelli, C. and Perrimon, N. (2006) Evidence that stem cells reside in the adult *Drosophila* midgut epithelium. Nature. **439**, 475-479.
159) Bard, F., Casano, L., Mallabiabarrena, A., Wallace, E., Saito, K., Kitayama, H., Guizzunti, G., Hu, Y., Wendler, F., DasGupta, R., Perrimon, N. and Malhotra, V. (2006) Functional genomics reveals genes involved in protein secretion and Golgi organization. Nature. **439**. 604-607.

160) Karsten, P., Plischke, I., Perrimon, N. and Zeidler, M. P. (2006) Mutational analysis reveals separable DNA binding and trans-activation of *Drosophila* STAT92E. Cellular Signaling **18**, 819-829.
161) Chen, L-Y., Wang, J-C., Hyvert, Y., Lin. H-P., Perrimon, N., Imler, J-L. and Hsu, J-C. (2006) Weckle is a Zinc Finger adaptor of the Toll pathway in dorsoventral patterning of the *Drosophila* Embryo. Current Biology **16**. 1183-1193.
162) Gibson, M. C. Patel, A., Nagpal, R. and Perrimon, N. (2006) The emergence of geometric order in proliferating metazoan epithelia. Nature **442**. 1038-1041.
163) Kulkarni, M. M., Booker M., Silver, S., Friedman, A., Hong, P., Perrimon, N., and Mathey-Prevot, B. (2006) Evidence of off-target effects associated with long dsRNAs in *Drosophila melanogaster* cell-based assays. Nature Methods **3**. 833-838.
164) Friedman, A. and Perrimon, N. (2006) A functional RNAi screen for regulators of receptor tyrosine kinase and ERK signaling. Nature **444**, 230-234.
165) Bach, E. A., Ekas, L. A., Ayala-Camargo, A., Flaherty, M. S., Lee, H. Perrimon, N. and Baeg, G-H. (2007) GFP reporters detect the activation of the *Drosophila* JAK/STAT pathway *in vivo*. Gene Expression Patterns **7**, 323-331.
166) Cherry, S., Kunte, A., Wang, H., Coyne, C., Rawson, R. H. and Perrimon, N. (2006) COPI activity coupled with fatty acid biosynthesis is required for viral replication. PLoS Pathog 2(10): e102. DOI: 10.1371/journal.ppat.0020102.
167) Lu, J. Ruhf, M-L., Perrimon, N. and Leder, P. (2007) A genome-wide RNA interference screen identifies putative chromatin regulators essential for E2F repression. PNAS. **104**, 9381-9386.
168) Bakal, C., Aach, J., Church, G. and Perrimon, N. (2007) Quantitative morphological signatures define local signaling networks regulating cell morphology. Science **316,** 1753-1756.
169) DasGupta, R., Nybakken, K., Booker, M., Mathey-Prevot, B., Gonsalves, F., Changkakoty, B. and Perrimon, N. (2007) A case study of the reproducibility of transcriptional reporter cell-based RNAi screens in *Drosophila*. Genome Biology. **8**. R203.
170) Silver, S. J., Hagen, J. W., Okamura, K., Perrimon, N. and Lai, E. C. (2007) Functional screening identifies miR-315 as a potent activator of Wingless signaling. PNAS. **104**, 18151-18156.
171) Bai, J., Hartwig, J. H., and Perrimon, N. (2007) SALS, a WH2-domain-containing protein, promotes sarcomeric actin filament elongation from pointed ends during *Drosophila* muscle growth. Developmental Cell **13**, 828-842.
172) Vinegoni, C., Pitsouli, C., Razansky, D., Perrimon, N. and Ntziachristos, V. (2008) In vivo imaging of *Drosophila melanogaster* pupae with mesoscopic fluorescence tomography. Nature Methods **5**, 45-47.
173) Ni, J-Q., Markstein, M., Binari, R., Pfeiffer, B., Liu, L-P., Villalta, C., Booker, M., Perkins, L. A., and Perrimon, N. (2008) Vector and Parameters for Targeted Transgenic RNAi in *Drosophila melanogaster*. Nature Methods **5**, 49-51.
174) Wang, J., Zhou, X., Bradley, P. L., Chang, S. F., Perrimon, N. and Wong, S. T. (2008) Cellular phenotype recognition for high-content RNA interference genome-wide screening. J. Biomol. Screen. **13**, 29-39.
175) Philips, J. A., Porto, M.C., Wang, H., Rubin, E. J., and Perrimon, N. (2008) ESCRT factors restrict mycobacterial growth. PNAS. **105**, 3070-3075.

176) Bai, J., Binari, R., Ni, J-Q., Vijayakanthan, M.. Li, H-S. and Perrimon, N. (2008) RNA interference screening in *Drosophila* primary muscle cells for genes involved in muscle assembly and maintenance. Development. **135**, 1439-1449.
177) Markstein, M., Pitsouli, C., Villalta, C., Celniker, S. and Perrimon, N. (2008) Exploiting position effects and the gypsy retrovirus insulator to engineer precisely expressed transgenes. Nature Genetics. **135**, 1439-1449.
178) Czech, B., Malone, C. D., Zhou, R., Stark, A., Schlingeheyde, C., Dus, M., Perrimon, N., Kellis, M., Wohlschlegel, J. A., Sachidanandam, R., Hannon, G. H. and Brennecke, J. (2008) An endogenous small interfering RNAi pathway in *Drosophila*. Nature. **453**, 798-802.
179) Yin, Z., Zhou, X., Bakal, C., Li., F., Sun, Y., Perrimon, N. and Wong, S. T. C. (2008) Using iterative cluster merging with improved gap statistics to perform online phenotype discovery in the context of high-throughput RNAi screens**.** BMC Bioinformatics **9**: 264.
180) Sepp, K. J., Hong, P., Lizarraga, S. B., Liu, J. S., Mejia, L. A., Walsh, C. A. and Perrimon, N. (2008) Identification of neural outgrowth genes using genome-wide RNAi. PLoS Genetics. **7**: e1000111.
181) Wang, J., Zhou, X., Li, F., Bradley, P. L., Chang, S. F., Perrimon, N. and Wong, S. T. (2008) An image score inference system for RNAi genome-wide screening based on fuzzy mixture regression modeling. J Biomed Inform. PMID: 18547870.
182) Vincent, S., Perrimon, N. and Axelrod, J. D. (2008) Hedgehog and Wingless stabilize but do not induce cell fate during *Drosophila* dorsal embryonic epidermal patterning. Development. **135**, 2767-2775
183) Bakal, C.,□Linding, R., Llense, F., Heffern, E., Martin-Blanco, E.,□Pawson, T. and□Perrimon, N. □2□□8□ Phosphorylation Networks Regulating JNK Activity in Diverse Genetic Backgrounds. Science. **322**, 453-456.
184) Zhou, R., Hotta, I., Denli, A.M., Hong, P., Perrimon, N. and Hannon, G. J. (2008) Comparative analysis of Argonaute-dependent small RNA pathways in *Drosophila*. Molecular Cell. **4**, 592-599.
185) Demontis, F. and Perrimon, N. (2009) Integration of Insulin receptor/Foxo signaling and dMyc activity during muscle growth regulates body size in *Drosophila*. Development. **136**, 983-993. PMID: 19211682.
186) Zhang, S., Feany, M. B., Saraswati, S., Littleton, T. and Perrimon, N. (2009) Inactivation of *Drosophila* Huntingtin affects long-term adult functioning and the pathogenesis of a Huntington's disease model. Disease Models and Mechanisms. **2**, 247-266. PMID: 19380309.
187) Ni, J-Q., Liu, L-P., Binari, R., Hardy, R., Shim, H-S., Cavallaro, A., Booker, M., Pfeiffer, B., Markstein, M., Wang, H., Villalta, C., Laverty, T. R., Perkins, L. A. and Perrimon, N. (2009) A *Drosophila* resource of transgenic RNAi lines for neurogenetics. Genetics. **182**, 1089-1100. PMID: 19487563.
188) Kaplow, I., Singh, R., Friedman, A., Bakal, C., Perrimon, N., and Berger, B. (2009) RNAiCut: automated detection of significant genes from functional genomic screens. Nature Methods. **6**, 476-477. PMID: 19564846.
189) Celniker, S.E., Dillon, L. A., Gerstein, M.B., Gunsalus, K.C., Henikoff, S., Karpen, G.H., Kellis, M., Lai, E.C., Lieb, J.D., MacAlpine, D.M., Micklem, G., Piano, F., Snyder, M., Stein, L., White, K.P., Waterston, R.H., and modENCODE Consortium. (2009) Unlocking the secrets of the genome. Nature. **459**, 927-30.

190) Griffin, R., Sustar, A., Bonvin, M., Binari, R., del Valle Rodriguez, A., Hohl, A. M., Bateman, J., Villalta, C., Heffern, E., Grunwald, D., Bakal, C., Desplan, C., Schubiger, G., Wu, C. T. and Perrimon, N. (2009) The Twin Spot Generator for differential *Drosophila* lineage analysis. Nature Methods. **6**, 600-602. PMID: 19633664.

191) Brouzes, E., Medkova, M., Savenelli, N., Marran, D., Twardowski, M., Hutchison, J. B., Rothberg, J. M., Link, D. R., Perrimon, N. and Samuels, M. L. (2009) Droplet microfluidic technology for single-cell high-throughput screening. PNAS. **106**, 14195-200. PMID: 19617544.

192) Zhou, R., Czech, B., Brennecke, J., Sachidanandam, R., Wohlschlegel, J. A., Perrimon, N. and Hannon, G. J. (2009) Processing of *Drosophila* endo-siRNAs depends on a specific Loquacious isoform. RNA. **15**, 1886-1895. PMID: 19635780.

193) Kondo, S., Booker, M. and Perrimon, N. (2009) Cross-species RNAi rescue platform in *Drosophila melanogaster*. Genetics. **183**, 1165-1173. PMID: 19720858.

194) Czech, B., Zhou, R., Erlich, Y., Brennecke, J., Binari, R., Villalta, C., Gordon, A., Perrimon, N. and Hannon, G. J. (2009) Hierarchical rules for Argonaute loading in *Drosophila.* Molecular Cell. **36**, 445-456. PMID: 19917252.

195) Yang, X., Friedman, A., Nagpal, S., Perrimon, N., and Asara, J. M. (2009) Use of a Label-free quantitative platform based on MS/MS average TIC to calculate dynamics of protein complexes in Insulin signaling. J Biomol Tech. **20**, 272-277. PMID: 19949701.

196) Apidianakis, Y., Pitsouli, C., Perrimon, N. and Rahme, L. (2009) Synergy between bacterial infection and genetic predisposition in intestinal dysplasia. PNAS. PMID: 19934041.

197) Nir, O., Bakal, C., Perrimon, N., and Berger, B. (2010) Inference of RhoGAP/GTPase regulation using single-cell morphological data from a combinatorial genetic screen. Genome Research. **20**, 372-380. PMID: 20144944.

198) Zhang, S., Binari, R., Zhou, R., and Perrimon, N. (2010) A genome-wide RNAi screen for modifiers of aggregates formation by mutant Huntingtin in *Drosophila*. Genetics. PMID: 20100940.

199) Kockel, L., Kerr, K. S., Melnick, M., Brueckner, K., Hebrok, M. and Perrimon, N. (2010) Dynamic switch of negative feedback regulation in *Drosophila* Akt-Tor signaling. PloS Genetics **6**, e1000990. PMID: 20585550.

200) Schnall-Levin, M., Zhao, Y., Perrimon, N. and Berger, B. (2010) Conserved microRNA targeting in *Drosophila* is as widespread in coding regions as in 3'UTRs. PNAS. **107**, 15751-6. PMID: 20729470.

201) Yan, H., Venkatesan, K., Beaver, J. E., Klitgord. N., Yildirim, M. A., Hao, T., Hill, D. E., Cusick, M. E., Perrimon, N., Roth, F. P., and Vidal, M. (2010) A genome-wide gene function prediction resource for *Drosophila melanogaster*. PLoS One **5**, pii: e12139. PMID: 20711346.

202) Pitsouli, C. and Perrimon, N. (2010) Embryonic multipotent progenitors remodel the *Drosophila* airways during metamorphosis. Development. **137**, 3615-3624. PMID: 20940225.

203) Karpowicz, P., Perez, J. and Perrimon, N. (2010) The Hippo tumor suppressor pathway regulates intestinal stem cell regeneration. Development. **137**, 4135-4145. PMID: 21098564

204) Rui, Y., Bai, J. and Perrimon, N. (2010). Sarcomere formation occurs by the assembly of multiple latent protein complexes. PLoS Genetics. **6**: e1001208. PMID: 21124995.

205) Demontis, F. and Perrimon, N. (2010) FOXO/4E-BP signaling in *Drosophila* muscles regulates organism-wide proteostasis during aging. Cell. **143**, 813-825. PMID: 21111239.

206) modENCODE Consortium (2010) Identification of functional elements and regulatory circuits by *Drosophila* modEncode. Science **330**, 1787-1797. PMID: 21177974.

207) Cherbas, L., Willingham, A., Zhang, D., Yang, L., Zou, Y., Eads, B. D., Carlson, J. W., Landolin, J. M., Kapranov, P., Dumais, J., Samsonova, A., Choi, J-H., Roberts, J., Davis, C. A., Tang, H., van Baren, M. J., Ghosh, S., Dobin, A., Bell, K., Lin, W., Langton, L., Duff, M. O., Tenney, A. E., Zaleski, C., Brent, M. R., Hoskins, R. S., Kaufman, T. C., Andrews, J., Graveley, B. R., Perrimon, N., Celniker, S. E., Gingeras, T. R. and Cherbas, P. (2011) The transcriptional diversity of 25 *Drosophila* cell lines. Genome Research. **21**, 301-314. PMID: 21177962.

208) Graveley, B. R. Brooks A. N., Carlson, J. W., Duff, M. O., Landolin, J., Yang, L., Artieri, C. G., van Baren, M. J., Boley, N., Booth, B. W., Brown, J. B., Cherbas, L., Davis, C. A., Dobin, A., Bell, K., Li, R., Lin, W., Malone, J. H., Mattiuzzo, N. R., Miller, D., Sturgill, D., Tuch, B., Zaleski, C., Zhang, D., Blanchette, M., Dudoit, S., Eads, B., Green, R. E., Hammonds, A., Jiang, L., Kapranov, P., Langton, L., Perrimon, N., Sandler, J. E., Wan, K/ H., Willingham, A., Zhang, Y., Zou, Y., Andrews, J., Bickel , P., Brenner, S. E., Brent, M. R., Cherbas, P., Gingeras, T. R., Hoskins, R. A., Kaufman, T. C., Oliver, B., and Celniker, S. E. (2011) The Developmental Transcriptome of *Drosophila melanogaster.* Nature **471**. 473-479.PMID: 21179090.

209) Berezikov, E., Robine, N., Samsonova, A., Westholm, J. O., Naqvi, A., Hung, J-H., Okamura, K., Dai, Q., Bortolamiol-Becet, D., Martin, R., Zhao, Y., Zamore, P. D., Hannon, G. J., Marra, M. A., Weng, Z., Perrimon, N. and Lai E. C. (2011) Deep annotation of *Drosophila melanogaster* microRNAs yields insights into their processing, modification, and emergence. Genome Research. 21. 203-215. PMID: 21177969.

210) Kondo, S and Perrimon, N. (2011) A genome-wide RNAi screen identifies core components of the G2-M DNA damage checkpoint. Science Signaling. **4**, rs1. PMID: 21205937.

211) Booker, M., Samsonova, A., Kwon, Y., Flockhart, I., Mohr, S., and Perrimon, N. (2011) False negative rates in *Drosophila* cell-based RNAi screens: A case study. BMC Genomics. **12**, 50. PMID: 21251254.

212) Micchelli, C. A., Sudmeier, L., Perrimon, N., Tang, S. and Beehler-Evans, R. (2011) Identification of adult midgut precursors in *Drosophila*. Gene Expression Patterns. **1-2**, 12-21. PMID: 20804858.

213) Gibson, W. T., Veldhuis, J. H., Rubinstein, B., Cartwright, H. N., Perrimon, N., Brodland, G. W., Nagpal, R. and Gibson, M. C. (2011) Control of mitotic

cleavage plane by local epithelial cell topology. Cell. **144**, 427-438. PMID: 21295702.

214) Chan, W. M., Tsoi, H., Wu, C. C., Wong, C. H., Cheng, T. C., Li, H. Y., Lau, K. F., Shaw, P. C., Perrimon, N. and Chan, H. Y. E. (2011) Expanded polyglutamine domain possesses nuclear export activity which modulates subcellular localization and toxicity of polyQ disease protein via exportin-1. Hum. Mol. Genet. **20**, 1738-50. PMID 21300695.

215) Ni, J-Q., Zhou, R., Czech, B., Liu, L-P., Holderbaum, L., Yang-Zhou, D., Shim, H-S., Tao, R., Handler, D., Karpowicz, P., Binari, R., Booker, M., Brennecke, J., Perkins, L. A. Hannon, G. J. and Perrimon, N. (2011) A genome-scale shRNA resource for transgenic RNAi in *Drosophila*. Nature Methods **8**, 405-7. PMID: 21460824.

216) Schnall-Levin, M., Rissland, O. S., Johnston, W., Perrimon, N., Bartel, D. P. and Berger, B. (2011) Unusually effective microRNA targeting within repeat-rich coding regions of mammalian mRNAs. Genome Research **21**, 1395-1403. PMID: 21685129.

217) Rohn J. L., Sims, D., Liu, T., Fedorova, M., Schoeck, F., Dopie, J., Vartiainen, M., Kiger, A. A., Perrimon, N. and Baum, B. (2011) Comparative RNAi screening identifies a conserved core metazoan actinome by phenotype. J. Cell Biol. **194**, 789-805. PMID: 21893601.

218) Hu, Y., Flockhart, I., Vinayagam, V., Bergwitz, C., Berger, B., Perrimon, N. and Mohr, S. E. (2011) An Integrative Approach to ortholog prediction for disease-focused and other functional studies. BMC Bioinformatics. **12**. 357. PMID: 21880147.

219) Friedman, A. A., Tucker, G., Singh, R., Yan, D., Vinayagam, A., Hu, Y., Binari, R., Hong, P., Sun, X., Porto, M., Pacifico, S., Murali, T., Finley, R., Asara, J. M., Berger, B. and Perrimon, N. (2011) Proteomic and functional genomic landscape of receptor tyrosine kinase and Ras to extracellular signal–regulated kinase signaling. Science Signaling. **4**, rs10. PMID: 22028469.

220) Neumüller, R. A., Wirtz-Peitz, F., Lee, S., Kwon, Y., Buckner, M., Hoskins R, A., Venken, K., Bellen, H., Mohr, S. and Perrimon, N. (2012) Stringent analysis of gene function and protein-protein interactions using fluorescently tagged genes. Genetics. **190**, 931-940. PMID: 22174071.

221) Flockhart, I. T., Booker, M., Hu, Y., 1, McElvany, B., Gilly, Q., Mathey-Prevot, B., Perrimon, N. and Mohr, S. (2012). FlyRNAi.org—the database of the *Drosophila* RNAi Screening Center: 2012 Update. Nucleic Acid Research. **40**, D715-9. PMID: 22067456.

222) Bergwitz, C., Rasmussen, M. D., DeRobertis, C., Wee, M. J., Sinha, S., Chen, H. H., Huang, J. and Perrimon, N. (2012) Roles of major facilitator superfamily transporters in phosphate response in *Drosophila*. PloS ONE. 7(2):e31730. PMID: 22359624.

223) Bejarano, F., Bortolamiol-Becet, D., Dai, Q., Sun, K., Saj, A., Chou, Y-T., Raleigh, D. R., Kim, K., Ni, J., Duan, H., Yang, J-S., Fulga, T. A., Van Vactor, D., Perrimon, N. and Lai, E. C. (2012) A genome-wide transgenic resource for conditional expression of *Drosophila* microRNAs. Development. **139**, 2821-2831. PMID: 22745315.

224) Kusche-Gullberg, M., Nybakken, K., Perrimon, N. and Lindahl, U. (2012) *Drosophila* heparan sulfate – a novel design. Journal of Biological Chemistry. **16**, 97-103. PMID:22768842.

225) Katewa, S. D., Demontis, F., Kolipinski, M., Hubbard, A., Gill, M. S., Perrimon, N., Melov, S. and Kapahi, P. (2012) Intramyocellular fatty-acid metabolism plays a critical role in mediating responses to dietary restriction in *Drosophila melanogaster*. Cell Metabolism. **16**, 97-103. PMID: 22768842.

226) Stender, J. D., Pascual, G., Liu, W., Kaikkonen, M. U., Do, K., Spann, N., Boutros, M., Perrimon, N., Rosenfeld, M. G. and Glass, C. K. (2012) Control of pro-Inflammatory gene programs by regulated trimethylation and demythelation of histone H4K20. Molecular Cell. **48**, 28-38. PMID: 22921934.

227) Hosur, R., Peng, J., Arunachalam, V., Stelzl, U., Xu, J., Perrimon, N., Bienkowska, J. and Berger, B. (2012) Coev2Net: computational framework for boosting confidence in high-throughput protein-protein interaction datasets. Genome Biology. **3**, R76. PMID: 22937800.

228) Rajan, A. and Perrimon, N. (2012) *Drosophila* cytokine Unpaired 2 regulates physiological homeostasis by remotely controlling Insulin secretion. Cell. **151**, 123-137. PMID: 23021220.

229) Staller, M. V., Yan, D., Randklev, S., Bragdon, M. D., Wunderlich, Z. B., Tao, R., Perkins, L. A., DePace, A. H. and Perrimon, N. (2013) Depleting gene activities in early *Drosophila* embryos with the "maternal-Gal4-shRNA" system. Genetics. **193**, 51-61. PMID: 23105012.

230) Yeh, J.T.-H., Binari, R., Gocha, T., Dasgupta, R. and Perrimon, N. (2013) PAPTi: A Peptide Aptamer Interference Toolkit for perturbation of protein-protein interaction network. Scientific Reports. **3**, 1156. PMID: 23362456.

231) Bergwitz, C., Wee, M. J., Sinha, S., Huang, J., DeRobertis, C., Mensah, L., Cohen, J., Friedman, A., Kulkarni, M., Hu, Y., Vinayagam, A., Schnall-Levin, M., Berger, B., Perkins, L. A., Mohr, S. E., and Perrimon, N. (2013) Genetic determinants of phosphate response in *Drosophila*. PLoS ONE **8**, e56753. PMID: 23520455.

232) Pitsouli, C. and Perrimon, N. (2013) The homeobox transcription factor Cut coordinates patterning and growth during *Drosophila* airway remodeling. Science Signaling. **6**, ra12. PMID: 23423438.

233) Roti, G., Carlton, A., Ross, K. N., Markstein, M., Pajcini, K., Su, A. H., Perrimon, N., Pear, W. S., Kung, A. L., Blacklow, S. C., Aster, J. C., Stegmaier, K. (2013) Complementary genomic screens identify SERCA as a therapeutic target in *NOTCH1* mutated cancer. Cancer Cell. **23**, 390-405. PMID: 23434461.

234) Vinayagam, A., Hu, Y., Kulkarni, M., Roesel, C., Sopko, R., Mohr, S. E. and Perrimon, N. (2013) Protein complex−based analysis framework for high-throughput data sets. Science Signaling. **6**, rs5. PMID: 23443684.

235) Karpowicz, P., Zhang, Y., Hogenesh, J. B., Emery, P. and Perrimon, N. (2013) The circadian clock gates the intestinal stem cell regenerative state. Cell Reports. **3**, 996-1004. PMID: 23583176.

236) Silva-Ayala, D., López, T., Gutiérrez, M., Perrimon, N., López, S., and Arias, C. F. (2013) Genome-wide RNAi screen reveals a role for the ESCRT complex in rotavirus cell entry. PNAS. PMID: 23733942.

237) Yin, Z., Sadok, A., Sailem, H., McCarthy, A., Xia, X., Li, F., Arias Garcia, M., Evans, L., Barr, A., Perrimon, N., Marshall, C., Wong, S. T. C. and Bakal, C. (2013) A screen for morphological complexity identifies evolutionary conserved regulators of discrete switch-like morphogenesis. Nature Cell Biology. **15**, 860-871. PMID:23748611.

238) Hu, Y., Roesel, C., Flockhart, I., Perkins, L., Perrimon, N. and Mohr, S. (2013) UP-TORR: online tool for accurate and up-to-date annotation of RNAi reagents. Genetics. **195**, 37-45. PMID:23792952

239) Hu, Y., Sopko, R., Foos, M., Kelley, C., Flockhart, I., Ammeux, N., Wang, X., Perkins, L., Perrimon, N. and Mohr, S. (2013) FlyPrimerBank: An online database for *Drosophila melanogaster* gene expression analysis and knockdown evaluation of RNAi Reagents. G3. **3**, 1607-16. PMID: 23893746

240) Neumüller, R. A., Gross, T., Samsonova, A. A., Vinayagam, A., Buckner, M., Founk, K., Hu, Y., Sharifpoor, S., Rosebrock, A. P., Andrews, B., Winston, F. and Perrimon, N. (2013) Conserved regulators of nucleolar size revealed by global phenotypic analyses. Science Signaling. **6**, ra70. PMID:23962978

241) Zirin, J., Cheng, D., Dhanyasi, N., Cho, J., Dura, J-M., VijayRaghavan, K. and Perrimon, N. (2013) Ecdysone signaling at metamorphosis triggers apoptosis of *Drosophil*a abdominal muscles. Dev. Biol. **383**, 275-84. doi:pii: S0012-1606(13)00483-1. PMID: 24051228

242) Shulman, J.M., Imboywa, S., Giagtzoglou, N., Powers, M. P., Hu, Y., Devenport, D., Chipendo, P., Chibnik, L. B., Diamond, A., Perrimon, N., Brown, N. H., De Jager, P. L. and Feany, M. B. (2013) Functional screening in *Drosophila* identifies Alzheimer's disease susceptibility genes and implicates Tau-mediated mechanisms. Human Molecular Genetics. PMID: 24067533.

243) Xiong, X-P., Kurthkoti, K., Chang, K-Y., Lichinchi, G., De, N., Schneemann, A., Macrae, I. J., Rana, T. M., Perrimon, N. and Zhou, R. (2013). Core small nuclear ribonucleoprotein particle splicing factor SmD1 modulates RNA interference in *Drosophila*. PNAS. **110**, 16520-5. PMID: 24067655.

244) Owusu-Ansah, E., Song, W. and Perrimon, N. (2013) Muscle mitohormesis promotes longevity via systemic repression of Insulin signaling. Cell. **155**, 699-712. PMID: 24243023.

245) Kwon, Y., Arunachalam, V., Sun, X., Dephoure, N., Gygi, S. P., Hong, P. and Perrimon, N. (2013) The Hippo signaling pathway interactome. Science. **342**, 737-40. PMID: 24114784.

246) Ren, X., Sun, J., Housden, B., Hu, Y., Roesel, C., Lin, S., Liu, L-P., Yang, Z., Mao, D., Sun, L., Wu, Q., Ji, J-Y., Xi, J., Mohr, S., Xu, J., Perrimon, J., and Ni, J-Q. (2013) Optimized gene editing technology for *Drosophila melanogaster* using germline-specific Cas9. PNAS. 110:19012-7. PMID: 24191015.

247) Vinayagam, A., Zirin, J., Roesel, C., Hu, Y., Yilmazel, B., Samsonova, A., Neumuller, R., Mohr, S. E. and Perrimon, N. (2013) Integrating protein-protein interaction networks with phenotypes reveals signs of interactions. Nature Methods. doi:10.1038/nmeth.2733. PMID:24240319.

248) Zirin, J., Nieuwenhuis, J. and Perrimon, N. (2013) Role of autophagy in glycogen breakdown and its relevance to Chloroquine myopathy. PLoS Biology. DOI: 10.1371/journal.pbio.1001708.

249) Sun X, Hong P, Kulkarni M, Kwon Y, Perrimon N. (2013) PPIRank - an advanced method for ranking protein-protein interations in TAP/MS data. Proteome Sci. 2013 11(Suppl 1):S16. PMID:24565074.

250) Yan, D., Neumüller, R. A., Buckner, M., Ayers, K., Hu, Y., Yang-Zhou, D., Pan, L., Wang, X., Kelley, C., Vinayagam, A., Binari, R., Randklev, S., Perkins, L. A., Xie, T., Cooley, L. and Perrimon, N. (2014) A regulatory network of *Drosophila* germline stem cell self-renewal. Developmental Cell. **28**, 459-473. PMID:24576427.

251) Markstein, M., Dettorre, S., Cho, J., Neumüller, R., A., Craig-Muller, S. and Perrimon, N. (2014) Systematic screen of chemotherapeutics in *Drosophila* stem cell tumors. PNAS. **111**:4530-5.PMID:24616500.

252) Griffin, R., Binari, R. and Perrimon, N. (2014) Genetic odyssey to generate marked clones in *Drosophila* mosaics. PNAS. **111**:4756-63. PMID:24623854.

253) Brown, J. B., Boley, N., Eisman, R., May, G. E., Stoiber, M. H., Duff, M. O., Booth, B. W., Wen, J., Park, S., Suzuki, A. M., Wan, K. H., Yu, C., Zhang, D., Carlson, J. W., Cherbas, L., Eads, B. D., Miller, D., Mockaitis, K., Roberts, J., Davis, C. A., Frise, E., Hammonds, A. S., Olson, S., Shenker, S., Sturgill, D., Samsonova, A. A., Weiszmann, R., Robinson, G., Hernandez, J., Andrews, J., Bickel, P. J., Carninci, P., Cherbas, P., Gingeras, T. R., Hoskins, R. A., Kaufman, T. C., Lai, E. C., Oliver, B., Perrimon, N., Graveley, B. R. and Celniker, S. E. (2014) Diversity and dynamics of the *Drosophila* transcriptome. Nature. **512**: 393-399. PMID:24670639

254) Demontis, F., Patel, V., Swindell, W. and Perrimon, N. (2014) Intertissue control of the nucleolus via a myokine-dependent longevity pathway. Cell Reports. **7**:1481-94. PMID:24882005

255) Kim, K., Vinayagam, A., and Perrimon, N. (2014) A rapid genome wide miRNA screen identifies miR-14 as a modulator of Hedgehog signaling. Cell Reports. **7**:2066-77. PMID:24931604

256) Yilmazel, B., Hu, Y., Sigoillot, F., Smith, J.A, Shamu, C.E, Perrimon, N. and Mohr. S. E. (2014). Online GESS: prediction of miRNA-like off-target effects in large-scale RNAi screen data by seed region analysis. BMC Bioinformatics. 15(1):192. PMID:24934636

257) Gerstein, M.B., Rozowsky, J., Yan, K.K., Wang, D., Cheng, C., Brown, J.B., Davis, C.A., Hillier, L., Sisu, C., Li, J.J., Pei, B., Harmanci, A.O., Duff, M.O., Djebali, S., Alexander, R.P., Alver, B.H., Auerbach, R.K., Bell, K., Bickel, P.J., Boeck, M.E., Boley, N.P., Booth, B.W., Cherbas, L., Cherbas, P., Di, C., Dobin, A., Drenkow, J., Ewing, B., Fang, G., Fastuca, M., Feingold, E.A., Frankish, A., Gao, G., Good, P.J., Green, P., Guigó, R., Hammonds, A., Harrow, J., Hoskins, R.A., Howald, C., Hu, L., Huang, H., Hubbard, T.J.P., Huynh, C., Jha, S., Kasper, D., Kato, M., Kaufman, T.C., Kitchen, R., Ladewig, E., Lagarde, J., Lai, E., Leng, J., Lu, Z., MacCoss, M., May, G., McWhirter, R., Merrihew, G., Miller, D.M., Mortazavi, A., Murad, R., Oliver, B., Olson, S., Park, P., Pazin, M.J., Perrimon, N., Pervouchine, D., Reinke, V., Reymond, A., Robinson, G., Samsonova, A., Saunders, G.I., Schlesinger, F., Sethi, A., Slack, F.J., Spencer, W.C., Stoiber, M.H., Strasbourger, P., Tanzer, A., Thompson, O.A., Wan, K.H., Wang, G., Wang, H., Watkins, K.L., Wen, J., Wen, K., Xue, C., Yang, L., Yip, K., Zaleski, C., Zhang, Y., Zheng, H., Brenner, S.E., Graveley, B.R., Celniker, S.E., Gingeras,

T.R. and Waterston, R. (2014) Comparative analysis of the transcriptome across distant species. Nature. **512**: 445-448. PMID:25164755

258) Song, W., Veenstra, J. A. and Perrimon, N. (2014) Control of lipid metabolism by Tachykinin hormones. Cell Reports. **9**: 40-47. PMID:25263556

259) Amcheslavsky, A., Song, W., Li, Q., Nie, Y., Bragatto, I., Ferrandon, D., Perrimon, N. and Ip, T. (2014) Enteroendocrine cells support intestinal stem cell-mediated homeostasis in *Drosophila*. Cell Reports. **9**: 32-39. PMID:25263551

260) Sopko, R., Foos, M., Vinayagam, A., Zhai, B., Binari, R., Hu, Y., Randklev. S., Perkins. L., Gygi, S., and Perrimon, N. (2014) Combining genetic perturbations and proteomics to examine kinase-phosphatase networks in *Drosophila* embryos. Developmental Cell. **31**: 114-27. PMID:25284370

261) Leshchiner, E. S., Parkhitko, A., Bird, G. H., Lucarelli, J., Bellairs, J. A., Escudero, S., Opoku-Nsiah, K., Godes, M., Perrimon, N. and Walensky, L. D. (2015) Direct inhibition of oncogenic KRAS by hydrocarbon-stapled SOS1 helices. PNAS. **112**:1761-6. PMID:25624485

262) Zirin, J., Nieuwenhuis, J., Samsonova, A. Tao, R. and Perrimon, N. (2015) Regulators of autophagosome formation in *Drosophila* muscles. PLoS Genetics. 11(2):e1005006. doi: 10.1371/journal.pgen.1005006. PMID:25692684

263) Sopko, R., Lin, Y. B., Makhijani, K., Alexander, B., Perrimon, N. and Brückner, K. (2015) A systems-level interrogation identifies regulators of *Drosophila* blood cell lifespan. PLoS Genetics. 11(3):e1005056. PMID:25749252

264) Chavez. A., Scheiman, J., Vora, S., Pruitt, B. W., Tuttle, M., Iyer, E., Lin, S., Kiani, S., Guzman, C. D., Wiegand, D. J., Ter-Ovanesyan, D., Braff, J. L., Davidsohn, N., Housden, B. E., Perrimon, N., Weiss, R., Aach, J., Collins, J. J. and Church, G. M. (2015) Higly efficient Cas9-mediated transcriptional programming. Nature Methods. **12**: 326-328. PMID:25730490

265) Kwon, Y., Song, W., Droujinine, I., Hu, Y., Asara, J. M. and Perrimon, N. (2015) Systemic organ wasting induced by localized expression of the secreted Insulin/IGF antagonist ImpL2. Developmental Cell. **33**:36-46. PMID:25850671

266) Fulga, T. A., McNeill, E. M., Binari, R., Yelick, J., Blanche, A., Booker, M., Streinkraus, B., Schnall-Levin, M., Zhao, Y., DeLucca, T., Bejarano, F., Han, Z., Lai, E. C., Wall, D., Perrimon, N., Van Vactor, D. (2015) A transgenic resource for conditional competitive inhibition of conserved *Drosophila* microRNAs. Nature Communications. **6**:7279. PMID:26081261.

267) Gordon, W. R., Zimmerman, B., He, L., Miles, L. J., Huang, J., Tiyanont, K., McArthur, D., Aster, J. C., Perrimon, N., Loparo, J. J. and Blacklow, S. C. (2015) Mechanical allostery: Evidence for a force requirement in the proteolytic activation of Notch. Developmental Cell. **33**: 729-36. PMID:26051539.

268) Hu, Y., Comjean, A., Perkins, L., Perrimon, N., and Mohr, S. E. (2015) GLAD: an Online Database of Gene List Annotation for *Drosophila*. J Genomics. **3**:75-81. PMID:26157507.

269) Mohr, S. E., Hu, Y., Rudd, K., Buckner, M., Gilly, Q., Foster, B., Sierzputowska, K., Comjean, A., Ye, B., Perrimon, N. (2015) Reagent and data resources for investigation of RNA binding protein functions in *Drosophila melanogaster* cultured cells. G3. **5**:1919-24. PMID:26199285.

270) Lin, S., Ewen-Campen, B., Ni, X., Housden, B. E. and Perrimon, N. (2015) In vivo transcriptional activation using CRISPR-Cas9 in *Drosophila*. Genetics. **201**:433-42. PMID:26245833.

271) Perkins, L. A., Holderbaum, L., Tao, R., Hu, Y., Sopko, R., McCall, K., Yang-Zhou, D., Flockhart, I., Binari, R., Shim, H-S., Miller, A., Housden, A., Foos, M., Randkelv, S., Kelley, C., Namgyal, P., Villalta, C., Liu, L-P., Jiang, X., Huan-Huan, Q., Xia, W., Fujiyama, A., Toyoda, A. , Ayers, K., Blum, A., Czech, B., Neumuller, R., Yan, D., Cavallaro, A., Hibbard, K., Hall, D., Cooley, L., Hannon, G. J., Lehmann, R., Parks, A., Mohr, S. E., Ueda, R., Kondo, S., Ni, J-Q., and Perrimon, N. (2015) The Transgenic RNAi Project at Harvard Medical School: Resources and Validation. Genetics. **201**:843-52. PMID:26320097.

272) Chen, C., Hu, Y., Udßeshi, N., Lau, T., He, L., Wirtz-Peitz, F., Ting, A. Y., Carr, S. and Perrimon, N. (2015) Proteomic mapping in live *Drosophila* tissues using an engineered ascorbate peroxidase. PNAS. **112**: 12093-8. PMID:26362788

273) Yan, D. and Perrimon, N. (2015) Spenito is required for sex determination in *Drosophila*. PNAS. **112**: 11606-11. PMID:26324914

274) Housden, B. E., Valvezan, A., J., Kelley, C., Sopko, R., Hu, Y., Roesel, C., Lin, S., Buckner, M., Tao, R., Yilmazel, B., Mohr, S., Manning, B. D. and Perrimon, N. (2015) Identification of potential drug targets for tuberous sclerosis complex by synthetic screens combining CRISPR-based knockouts with RNAi. Science Signaling 8:rs9. PMID:26350902

275) Kuhn. H., Sopko R., Coughlin, M., Perrimon, N., Mitchison, T. (2015) The Atg1-Tor pathway regulates yolk catabolism in *Drosophila* embryos. Development. **142**: 3869-78. PMID:26395483

276) Dequeant, ML., Fagegaltier, D., Hu, Y., Spirohn, K., Simcox, A., Hannon, G.J. and Perrimon. N. (2015) Discovery of progenitor cell signatures by time-series synexpression analysis during Drosophila embryonic cell immortalization. PNAS**. 112:** 12974-9. PMID:26438832

277) Jodoin, J. N., Coravos, J. S., Chanet, S., Vasquez, C. G., Tworoger, M., Kingston, E. R., Perkins, L.A., Perrimon, N. and Martin, A. C. (2015) Stable force balance between epithelial cells arises from F-Actin turnover. Developmental Cell. **35**: 685-97. PMID:26688336

278) Breitkopf, S. B., Yang, X., Begley, M., Kulkarni, M., Chiu, Y., Turke, A.B, Lauriol, J., Yuan, M., Qi, J., Engelman. J. A., Hong, P., Kontaridis, M.I., Cantley, L. C., Perrimon, N. and Asara, J. M. (2016) A cross-species study of PI3K protein-protein interactions reveals the direct interaction of P85 and SHP2 and its regulatory function. Scientific Reports **6**:20471. doi: 10.1038/srep20471. PMID:26839216

279) Ma, M., Zhao, H., Zhao, H., Binari, R., Perrimon, N. and Li, Z. (2016) Wildtype adult stem cells, unlike tumor cells, are resistant to cellular damages in *Drosophila*. Dev Biol. **411**:207-16. PMID:26845534

280) Vinayagam, V., Gibson, T. E., Lee, H-J., Yilmazel, B., Roesel, C., Hu, Y., Kwon, Y., Sharma, A., Liu, Y-L., Perrimon, N. and Barabási, A-L. (2016) Controllability analysis of the directed human protein interaction network identifies disease genes and drug targets. PNAS. **113**:4976-81. PMID:27091990

281) Chavez, A., Tuttle, M., Pruitt, B.W., Ewen-Campen, B., Chari, R., Ter-Ovanesyan, D., Haque, S, J., Cecchi, R, J., Kowal, E.J., Buchthal, J., Housden, B.E., Perrimon,

N., Collins, J. J. and Church, G. (2016) Comparison of Cas9 activators in multiple species. Nature Methods. **13**:563-7. PMID: 27214048

282) Harris, K. P., Zhang, Y. V., Piccioli, Z. D., Perrimon, N. and Littleton, J. T. (2016) The postsynaptic t-SNARE Syntaxin 4 controls traffic of Neuroligin 1 and Synaptotagmin 4 to regulate retrograde signaling. Elife. 5. doi: 10.7554/eLife.13881.doi: 10.7554/eLife.13881. PMID:27223326

283) De Lella Ezcurra, A. L., Bertolin, A. P., Kim, K., Katz, M. J., Gándara, L., Misra, T., Luschnig, S., Perrimon, B., Melani, M., and Wappner, P. (2016) miR-190 enhances HIF-dependent responses to hypoxia in *Drosophila* by inhibiting the prolyl-4-hydroxylase Fatiga. PLoS Genetics. 25;12(5):e1006073. doi: 10.1371/journal.pgen.1006073. PMID: 27223464

284) Hunter, G. L., Hadjivasiliou, Z., Bonin, H., He, L., Perrimon, N., Charras, G. and Baum, B. (2016) Coordinated control of Notch-Delta signalling and cell cycle progression drives lateral inhibition mediated tissue patterning. Development. **143**: 2305-2310. PMID:27226324

285) Parkhitko, A. P., Binari, R., Zhang, N., Asara, J. M., Demontis, F., Perrimon, N. (2016) Tissue-specific down-regulation of S-adenosyl-homocysteine via suppression of dAhcyL1/dAhcyL2 extends health span and life span in *Drosophila*. Genes and Development. **30**:1409-22. PMID:27313316

286) Fagegaltier, D., Castel, S., Falciatori, I., Czech, B., Perrimon, N., Simcox, A. and Hannon, G. J. (2016) Oncogenic transformation of Drosophila somatic cells induces a functional piRNA pathway. Genes and Development **30**: 1623-35. PMID:27474441

287) Ammeux, N., Housden, B. E., Georgiadis, A., Hu, Y., and Perrimon, N. (2016) Mapping signaling pathways crosstalk in *Drosophila* cells. PNAS. **113**: 9940-5. PMID:27528688

288) Wang, H., Becuwe, M., Housden, B. E., Chitraju, C., Porras, A. J., Graham, M. M., Liu, X. N., Thiam, A. R., Savage, D. B., Agarwal, A. K., Garg, A., Olarte, M. J,, Lin, Q., Fröhlich, F., Hannibal-Bach, H-K., Upadhyayula, S., Perrimon, N., Kirchhausen, T., Ejsing, C. S., Walther, T. C., Farese, R. V., (2016) Seipin is required for converting nascent to mature lipid droplets. ELife. pii: e16582. doi: 10.7554/eLife.16582. PMID:27564575

289) Vinayagam, A., Kulkarni, M. M., Sopko, R., Sun, X., Hu, Y., Nand, A., Villalta, C., Moghimi, A., Yang X., Mohr, S. E., Hong, P., Asara, A., and Perrimon, N. (2016) An integrative analysis of the InR/PI3K/Akt network identifies the dynamic response to Insulin signaling. Cell Reports **16**: 3062-74. PMID:27626673

290) Hu, Y., Comjean, A., Roesel, C., Vinayagam, V., Flockhart, I., Zirin, Z., Perkins, L., Perrimon, N. and Mohr, S. E. (2016). FlyRNAi.org—the database of the *Drosophila* RNAi Screening Center and Transgenic RNAi Project: 2017 update. Nucleic Acid Research **45**:D672-D678. PMID:27924039

291) Kim, K., Hung, R-J. and Perrimon N. (2017) miR-263a regulates ENaC to maintain osmotic and intestinal stem cell homeostasis in *Drosophila*. Developmental Cell. **40**:23-36. PMID:28017617

292) Yeh, J.T., Nam, K., Yeh, J. and Perrimon, N. (2017) eUnaG: a new ligand-inducible fluorescent reporter to detect drug transporter activity in live cells. Scientific Reports. **7**:41619. doi: 10.1038/srep41619. PMID:28176814

293) Song, W., Cheng, D., Hong, S., Sappe, B., Hu, Y., Wei, N., Zhu, C., O'Connor, M., Pissios, P. and Perrimon, N. (2017) Midgut-derived activin regulates glucagon-like action in the fat body and glycemic control. Cell Metabolism. **25**:386-399. PMID:28178568

294) Hu, Y., Comjean, A., Perrimon, N. and Mohr, S. (2017) The *Drosophila* Gene Expression Tool (DGET) for expression analyses. BMC Bioinformatics. **18**:98. doi: 10.1186/s12859-017-1509-z. PMID:28187709

295) He, L., Huang, J., and Perrimon, N. (2017) Development of an optimized synthetic Notch receptor as an *in vivo* cell-cell contact sensor. PNAS. doi: 10.1073/pnas.1703205114. PMID:28490499

296) Wang, J., Al-Ouran, R., Hu, Y., Kim, S-Y., Wan, Y-W., Wangler, M., Yamamoto, S., Chao, H-T., Comjean, A., Mohr, S. E., UDN, Perrimon, N., Liu, Z., Bellen, H. J. (2017) MARRVEL: Integration of human and model organism genetic resources to facilitate functional annotation of the human genome. American Journal of Human Genetics. **100**:843-853. PMID:28502612

297) Kang, J., Shin, S., Perrimon, N. and Shen, J. (2017) An evolutionarily conserved role of Presenilin in neuronal protection in the aging *Drosophila* brain. Genetics. **206**: 1479-1493. PMID:28495961

298) Xu, C., Luo, J., He, L., Montell, C. and Perrimon, N. (2017) Oxidative stress induces stem cell proliferation via TRPA1/RyR mediated Ca^{2+} signaling in the Drosophila midgut. eLife. 6. pii: e22441. doi: 10.7554/eLife.22441. PMID:28561738

299) Lee, H-J., Jedrychowski, M. P., Vinayagam, A., Wu, N., Shyh-Chang, N., Hu, Y., Min-Wen, C., Moore, J. K., Asara, J. M., Lyssiotis, C. S., Perrimon, N., Gygi, S. P., Cantley, L. C., Kirschner, M. W. (2017) Proteomic and metabolomic characterization of a mammalian cellular transition from quiescence to proliferation. Cell Reports. **20**: 721-736. PMID:28723573

300) Hu, Y., Comjean, A., Mohr, S. E., the FlyBase Consortium., and Perrimon, N. (2017). Gene2Function: An integrated online resource for gene function discovery. G3. **7**: 2855-2858. PMID:28663344

301) Song, W., Owusu-Ansah, E., Hu, Y., Cheng, D., Ni, X., Zirin, J. and Perrimon, N. (2017) Activin signaling mediates muscle-to-adipose communication in a mitochondria dysfunction-associated obesity model. PNAS. doi: 10.1073/pnas.1708037114. PMID:28739899

302) Ewen-Campen, B., Yang-Zhou, D., Fernandes, V. R., González, D. P., Liu, L-P., Rong Tao, R., Ren, X., Sun, J., Hu, Y., Zirin, J., Mohr, S. E., Ni, J-Q., Perrimon, N. (2017) Optimized strategy for *in vivo* Cas9-activation in *Drosophila*. PNAS. **114**:9409-9414. PMID:28808002

303) Rajan, A., Housden, B. E., Wirtz-Peitz, F., Holderbaum, L. and Perrimon, N. (2017) A mechanism coupling systemic energy sensing to adipokine secretion. Developmental Cell. **43**: 83-98. PMID 29017032.

304) Valvezan, A. J., Turner, M., Belaid, A., Lam, H.C., Miller, S.K., McNamara, M., Baglini, C., Housden, B. E., Perrimon, N., Kwiatkowski, D. J., Asara, J. M., Henske, E. P., Manning, B. D. (2017) mTORC1 couples nucleotide synthesis to nucleotide demand resulting in a targetable metabolic vulnerability. Cancer Cell. **32**:624-638. PMID:29056426

305) Hu, Y., Vinayagam, A., Nand, A., Comjean, A., Chung, V., Hao, T., Mohr, S. and Perrimon, N. (2017) Molecular Interaction Search Tool (MIST): an integrated resource for mining gene and protein interaction data. Nucleic Acid Research. **46**: D567-574. PMID:29155944

306) Housden, B. E., Li, Z., Kelley, C., Wang, Y., Hu, Y., Valvezan, A. J., Manning, B. D. and Perrimon, N. (2017) Improved detection of synthetic lethal interactions in *Drosophila* cells using variable dose analysis (VDA). PNAS. **114**: E10755-E10762. PMID:29183982

307) Mohr, S. E., Rudd, K., Hu, Y., Song, W. R., Gilly, Q., Buckner, M., Housden, B. E., Kelley, C., Zirin, J., Tao, R., Amador, G., Sierzputowska, K., Comjean, A. and Perrimon, N. (2018) Zinc detoxification: A functional genomics and transcriptomics analysis in *Drosophila melanogaster* cultured cells. G3. **8**: 631-642. PMID:29223976

308) He, L., Si, G., Huang, J., Samuel, A. D. T. and Perrimon, N. (2018) Mechanical regulation of stem cell differentiation by the stretch-activated Piezo channel. Nature **555**: 103-106. PMID:29414942

309) Guo, J., Tang, H-W., Li, J., Perrimon, N. and Yan, D. (2018) Xio is a component of the *Drosophila* sex determination pathway and RNA N6-methyladenosine methyltransferase complex. PNAS. **15**:3674-3679. PMID: 29555755

310) Lee, P-T., Zirin, J., Kanca, O., Lin, W-W., Schulze, K. L., Li-Kroeger, D., Tao, R., Devereaux, C., Hu, Y., Fang, Y., He, Y., Pan, H., Ge, M., Zuo, Z., Housden, B. E., Mohr, S. E., Yamamoto, S., Levis, R. W., Spradling, A. C., Perrimon, N., and Bellen, H. J. (2018) A gene-specific *T2A-GAL4* library for *Drosophila.* Elife. doi: 10.7554/eLife.35574. PMID:29565247

311) Zhang, T., Song, W., Li,, Z., Qian, W., Wei, L., Wang, W., Yang, Y., Zhou, X., Meng, M., Peng, J., Xia, Q., Perrimon, N. and Cheng, D. (2018) Kruppel homolog 1 represses insect ecdysone biosynthesis by directly inhibiting the transcription of steroidogenic enzymes. PNAS. **115**:3960-3965. PMID:29567866

312) Tang, H-W., Hu, Y., Chen, C-L., Xia, B., Zirin, J., Yuan, M., Asara, J., Rabinow, L. and Perrimon, N. (2018) The TORC1-regulated CPA complex rewires an RNA processing network to drive autophagy and metabolic reprogramming. Cell Metabolism **27**:1040-1054. PMID:29606597

313) Hong, S., Song, W., Zushin, P.H., Liu, B., Jedrychowski, M. P., Mina, A., Deng, Z., Cabarcapa, D., Hall, J. A., Palmer, C. J., Aliakbarian. H., Szpyt, J., Gyi. S. P., Tavakkoli, A., Lynch, L., Perrimon, N. and Banks, A. S. (2018) Phosphorylation of Beta-3 Adrenergic Receptor at Serine 247 by ERK MAP Kinase drives lipolysis in obese adipocytes. Molecular Mechanism. **12**:25-38. PMID:29661693

314) Jia, Y., Xu, R-G., Ren, X., Ewen-Campen, B., Rajakumar, R., Zirin, J., Yang-Zhou, D., Zhu, R., Wang, F., Mao, D., Peng, P., Qiao, H-H., Wang, X., Liu, L-P., Xu, B., Ji, J-Y., Liu, Q., Sun, J., Perrimon, N. and Ni, J-Q (2018) Next generation CRISPR/Cas9 transcriptional activation in *Drosophila* using flySAM. PNAS. **115**:4719-4724. PMID:29666231

315) Rodriguez-Muela, N., Parkhitko, Grass, T., A., Gibbs, R. M., Norabuena, E. M., Perrimon, N., Singh, R. and Rubin, L. L. (2018) Blocking p62/SQSTM1-dependent SMN degradation ameliorates spinal muscular atrophy disease phenotype. Journal of Clinical Investigations. **128**:3008-3023. PMID:29672276

316) Ewen-Campen, B. and Norbert Perrimon, N. (2018) *ovo*^{D} co-selection: A method for enriching CRISPR/Cas9-edited alleles in *Drosophila*. G3. **8**: 2749-2756. PMID:29934375

317) Viswanatha, R., Li, Z., Hu, Y. and Perrimon, N. (2018) Pooled genome-wide CRISPR screening for basal and context-specific fitness essentiality in *Drosophila* cells. eLife. pii: e36333. doi: 10.7554/eLife.36333. PMID:30051818

318) Branon, T.C., Bosch, J. A., Sanchez, A., Udeshi, N. D., Svinkina, T., Carr, S. A., Feldman, J. L., Perrimon. N. and Ting, A. Y. (2018) Efficient proximity labeling in living cells and organisms with TurboID. Nature Biotechnology. **36**:880-887. PMID:30125270

319) Okamoto, N., Viswanatha, R., Bittar, R., Li, Z., Haga-Yamanaka, S., Perrimon, N. and Yamanaka, N. (2018) A membrane transporter is required for steroid hormone uptake in *Drosophila*. Developmental Cell. **7**:294-305. PMID:30293839

320) Doupe, D. P., Marshall, O. W., Dayton, H., Brand, A. H. and Perrimon, N. (2018) *Drosophila* intestinal stem and progenitor cells are major sources and regulators of homeostatic niche signals. PNAS. **115**:12218-12223. PMID:30404917

321) Parasram, K., N. Bernardon, N., Hammoud, M., Chang, H., He, L., Perrimon, N. and Karpowicz, P. (2018) Intestinal stem cells exhibit conditional circadian clock function. Stem Cell Reports. **11**:1287-1301. PMID:30428387

322) Hu, Y., Sopko, R., Chung, V., Foos, M., Studer, R. A., Landry, S., Liu, D., Rabinow, L., Gnad, F. Beltrao, P, and Perrimon, N. (2019) iProteinDB: an integrative database of *Drosophila* post-translational modifications. G3. **9**:1-11. PMID:30397019

323) Thurmond, J., Goodman, J.L., Strelets, V.B., Attrill, H., Gramates, L.S., Marygold, S.J., Matthews, B.B., Millburn, G., Antonazzo, G., Trovisco, V., Kaufman, T.C., Calvi, B.R., and FlyBase Consortium (2019) FlyBase 2.0: the next generation. Nucleic Acids Res. **47**:D759-D765. PMID:30364959

324) Xu, C., Tang, H-W., Hung, R. J., Hu, Y., Ni, X-C., Housden, B. E. and Perrimon, N. (2019) The septate junction protein Tsp2A restricts intestinal stem cell activity via endocytic regulation of aPKC and Hippo signaling. Cell Reports. **26**:670-688. PMID:30650359

325) Song, W., Kir, S., Hong, S., Hu, X., Wang, X., Binari, R., Tang, H-W., Chung, V., Banks, A. S., Spiegelman, B. and Perrimon, N. (2019) Tumor-derived ligands trigger tumor growth and host wasting via differential MEK activation. Developmental Cell. **48**: 277-286. PMID:30639055

326) Hunter, G. L., He, L., Perrimon, N., Charras, G., Giniger, E. and Baum, B. (2019) A role for actomyosin contractility in Notch signaling. BMC Biology. 17(1):12. doi: 10.1186/s12915-019-0625-9. PMID:30744634

327) Strumillo, M. J., Oplová, M., Viéitez, C., Ochoa, D., Shahraz, M., Busby, B. P., Sopko, R., Studer, R., Perrimon, N., Panse, V. G., and Beltrao, P. (2019) Conserved phosphorylation hotspots in eukaryotic protein domain families. Nature Communications. **10**:1977. doi: 10.1038/s41467-019-09952-x. PMID:31036831

328) Dumesic, P. A., Egan, D. F., Gut, P., Tran, M. T., Parisi, A., Chatterjee, N., Jedrychowski, M., Paschini, M., Kazak, L., Wilensky, S. E., Dou, F., Bogoslavski, D., Cartier, J. A., Perrimon, N., Kajimura, S., Parikh, S. M. and Spiegelman, B. M. (2019) An evolutionarily conserved uORF regulates PGC1α

and oxidative metabolism in mice, flies and bluefin tuna. Cell Metabolism. pii: S1550-4131(19)30197-4. PMID:31105043

329) He, L., Binari, R., Huang, J., Falo-Sanjuan, J. and Perrimon, N. (2019) *In vivo* study of gene expression with an enhanced dual-color fluorescent transcriptional timer. eLife. doi: 10.7554/eLife.46181. PMID:31140975

330) Zirin, J., Ni, X., Sack, L.M,, Yang-Zhou, D., Hu, Y., Brathwaite, R., Bulyk, M.L., Elledge, S.J. and Perrimon, N. (2019) Interspecies analysis of MYC targets identifies tRNA synthetases as mediators of growth and survival in MYC-overexpressing cells. PNAS. **116**:14614-14619. PMID:31262815. Erratum in: PNAS 2019 Aug 12.

331) Silver, J. T., Wirtz-Peitz, F., Simões, S., Pellikka, M., Yan, D., Binari, R., Nishimura, T., Li, Y., Harris, T. J. C., Perrimon, N. and Tepass, U. (2019) Apical polarity proteins recruit the RhoGEF Cysts to promote junctional myosin assembly. J Cell Biol. doi: 10.1083/jcb.201807106. PMID:31409654

332) Alliance of Genome Resources Consortium. (2019) Alliance of Genome Resources Portal: unified model organism research platform. Nucleic Acids Res. doi: 10.1093/nar/gkz813. PMID:31552413

333) Nicholson, H. E., Tariq, Z., Housden, B. E., Jennings, R. E., Stransky, L. A., Perrimon, N., Signoretti, S. and Kaelin, W. G. (2019) HIF-independent synthetic lethality between CDK4/6 inhibition and VHL loss across species. Science Signaling. **12**. doi: 10.1126/scisignal.aay0482. PMID:31575731

334) Kanca, O., Zirin, J., Garcia-Marques, J., Knight, S. M., Yang-Zhou, D., Amador, G., Chung, H., Zuo, Z., Ma, L., He, Y., Lin, W-W., Fang, Y., Ge, M., Yamamoto, S., Schulze, K. L., Hu, Y., Spradling, A. C., Mohr, S. E., Perrimon, N. and Bellen, H. J. (2019) An efficient CRISPR-based strategy to insert small and large fragments of DNA using short homology arms. eLife. doi: 10.7554/eLife.51539. PMID:31674908

335) Bult, C., Blake, J., Calvi, B., Cherry, M., di Francesco, V., Fullen, R., Howe, K., Mungall, C., Perrimon, N., Shimoyama, M., Sternberg, P., Thomas, P. and Westerfield, M. (2019) The Alliance of Genome Resources: Building a modern data ecosystem for model organism databases. Genetics. In Press.

336) Bosch, J. A., Colbeth, R., Zirin, J. and Perrimon, N. (2019) Gene knock-ins in *Drosophila* using homology-independent insertion of universal donor plasmids. Genetics. doi: 10.1534/genetics.119.302819. PMID:31685521

337) Amamoto, R., Garcia, M. D., West. E. R., Choo, J., Lapan, S. W., Lane, E. A. Perrimon, N. and Cepko, C. L. (2020) Probe-Seq enables transcriptional profiling of specific cell types from heterogeneous tissue by RNA-based isolation. eLife. In Press.

338) Xu, C., Regimbald-Dumas, Y., Franklin, B., Hu, Y., Ramos, J., Bosch, J., Villalta, C., He, X., Perrimon, N. (2019) Regulation of stem cell activity by AdoR signaling and enterocyte-derived adenosine deaminase in the *Drosophila* midgut. PNAS. In Press.

339) Kwon, Y. V., Zhao, B., Xu, C., Chen, C-L., Lee, J., Vinayagam, A., Edgar, B. and Perrimon, N. (2019) The Role of Translationally Controlled Tumor Protein in Proliferation of *Drosophila* Intestinal Stem Cells. PNAS. In Press.

340) Vásquez-Procopio, J., Osorio, B., Cortes-Martínez, L., Hernández-Hernández, F., Medina-Contreras, O., Ríos-Castro, E., Comjean, A., Li, F., Hu, Y., Mohr, S.,

Perrimon, N. and Missirlis, F. (2020) Intestinal response to dietary manganese depletion in *Drosophila*. Metallomics. In Press.

Reviews

1) Siegfried, E., Ambrosio, L. and Perrimon, N. (1990) Serine/threonine protein kinases in *Drosophila*. Trends in Genetics 6, 357-362.
2) Finkelstein, R. and Perrimon, N. (1991) The molecular genetics of head formation in *Drosophila*. Development **11**, 899-914.
3) Perkins, L. A. and Perrimon, N. (1991) The molecular genetics of tail development in *Drosophila melanogaster*. In Vivo **5**, 521-532.
4) Noll, E., Perkins, L. A., Mahowald, A. P. and Perrimon, N. (1993) Approaches to identify genes involved in *Drosophila* embryonic CNS development. Journal of Neurobiology **24**, 701-722.
5) Perrimon, N. (1993) The torso receptor protein tyrosine kinase signaling pathway: An endless story. Cell **74**, 219-222.
6) Lu, X., Perkins, L. A. and Perrimon, N. (1993) The Torso pathway in *Drosophila*: a model system to study receptor tyrosine kinase signal transduction. Development Suppl., 47-56.
7) van den Heuvel, M., Klingensmith, J., Perrimon, N. and Nusse, R. (1993) Cell patterning in the *Drosophila* segment: *engrailed* and *wingless* antigen distributions in segment polarity mutant embryos. Development Suppl, 105-114.
8) Perrimon, N. (1994) Signalling pathways initiated by receptor protein tyrosine kinases in *Drosophila*. Current Opinion in Cell Biology **6**, 260-266.
9) Perrimon, N. (1994) The genetic basis of patterned baldness in *Drosophila*. Cell **76,** 781-784.
10) Siegfried, E. and Perrimon, N. (1994) *Drosophila* Wingless: A paradigm for the function and mechanism of Wnt signaling. Bioessays **16**, 195-404.
11) Perrimon, N. and Desplan, C. (1994) Signal transduction in the early *Drosophila* embryo: when genetics meets biochemistry. Trends in Biochemical Sciences **19**, 509-513.
12) Duffy, J.B. and Perrimon, N. (1994) The Torso pathway in *Drosophila*: Lessons on receptor protein tyrosine kinase signaling and pattern formation. Dev. Biol. **166**, 380-395.
13) Perrimon, N. (1995). Hedgehog and beyond. Cell. **80**, 517-520.
14) Perrimon, N., Lu, X., Hou, X.S., Hsu, J-C., Melnick, M. Chou, T.-B. and Perkins, L. A. (1995). Dissection of the Torso signal transduction pathway in *Drosophila*. Molecular Reproduction and Development. Mol. Reprod. Dev. **42,** 515-522.
15) Duffy, J.B. and Perrimon, N. (1996) Recent advances in understanding signal transduction pathways in worms and flies. Curr. Opin. in Cell Biol. **8**, 231-238.
16) Perrimon, N. (1996) Serpentine proteins slither in the Wingless and Hedgehog fields. Cell **86**, 513-516.
17) Bellaiche, Y and Perrimon, N. (1997). La voie de signalisation Wingless chez la *Drosophile*. Medecine Sciences **13,** 165-174.
18) Perrimon, N. and Perkins, L. (1997). There must be 50 ways to rule the signal: the case of the *Drosophila* EGF receptor. Cell **89**, 13-16.
19) Engstrom, L., Noll, E. and Perrimon, N. (1997) Paradigms to study signal transduction pathways in *Drosophila*. Curr. Topics in Dev. Biology. **35,** 229-261.

20) Mathey-Prevot, B. and Perrimon, N. (1998) Mammalian and *Drosophila* blood: JAK of all trades? Cell **92**, 697-700.
21) Perrimon, N. (1998) Creating Mosaics. IJDB. **42**, 243-247.
22) Perrimon, N. and Nusse, R. (1998) Highlights of the 1998 Wnt Meeting. BBA. **1377**, R45-R49.
23) Perrimon, N. (1998) Editorial. Methods.**14**, 353.
24) Perrimon, N. (1998) New advances in *Drosophila* provide opportunities to study gene functions. P.N.A.S.**95**, 9716-9717.
25) Schulman, J.M., Perrimon, N. and Axelrod, J. (1998). Frizzled Signaling and Developmental Control of Cell Polarity. TIG. **14**, 452-458.
26) Perrimon, N. and Duffy, J.(1998) Sending all the right signals, the case of the EGFR. Nature **396**, 18-19.
27) Perrimon, N. and McMahon, A. P. (1999) Negative feedback loops and their roles during pattern formation**.** Cell **97**, 13-16.
28) Spana, E. and Perrimon, N. (1999) The latest in Signal Transduction. TIG. **15**, 301-302.
29) Perrimon, N. and Stern, C. (1999) Pattern Formation and Developmental mechanisms. Editorial Overview. Current Opinion in Genetics and Development **9**, 387-389.
30) Stronach, E. and Perrimon, N. (1999) Stress signaling in *Drosophila*. Oncogene **18**, 6172-6182.
31) Bellaiche, Y., The, I. and Perrimon, N. (2000) Role des proteoglycanes dans la distribution du facteur secrete Hedgehog. Medecine Sciences **2**, 250-252.
32) Perrimon, N. and Bernfield, M. (2000) Specificities of Heparan Sulphate Proteoglycans in developmental processes. Nature **404**, 725-728.
33) Boutros, M. and Perrimon, N. (2000) *Drosophila* genome takes flight. Nature Cell Biology. **2**, E53-E54.
34) The, I. and Perrimon, N. (2000) Morphogen diffusion: The case of the Wingless protein. Nature Cell Biology. **2**, E79-E82.
35) Zeidler, M. P., Bach, E. A. and Perrimon, N. (2000) The roles of the *Drosophila* JAK/STAT pathway. Oncogene **19**, 2598-2606.
36) Zeidler, M. P. and Perrimon, N. (2000) Sex Determination: Co-opted signals determine gender. Current Biology **10**, R682-R684.
37) Lin, X. and Perrimon, N. (2000) Role of heparan sulfate proteoglycans in cell-cell-signaling in *Drosophila*. Matrix Biology. **19**, 303-307.
38) Noselli, S. and Perrimon, N. (2000) Are there close encounters between signaling pathways? Science. **290**, 68-69.
39) Baeg, G. H. and Perrimon, N. (2000) Functional binding of secreted molecules to heparan sulfate proteoglycans in *Drosophila*. Current Opinion in Cell Biology **12,** 575-580
40) Perrimon, N. and Bernfield, M. (2001) Cellular Functions of Proteoglycans- an overview. Seminars in Cell and Development Biology **12**, 1-3.
41) Boutros, M. and Perrimon, N. (2001) *Drosophila* Wnt/Fz pathways. Science's STKE, http://stke.sciencemag.org/cgi/cm/CMP 6559.
42) Vincent, S. and Perrimon, N. (2001) Fishing for Morphogens. Nature **411**, 533-536.
43) Selva, E. and Perrimon, N. (2001) Role of Heparan Sulfate Proteoglycans in Cell Signaling and Cancer. Advances in Cancer Research. **83**, 68-80.

44) Vincent, S., Perkins, L.A.P. and Perrimon, N. (2001). Doublesex surprises. Cell **106**, 399-402.
45) Moon, R .T., Bowerman, N., Boutros, M. and Perrimon, N. (2002) The promise and perils of Wnt signaling through ß-catenin. Science **296**, 1644-1646.
46) Schöck, F., and Perrimon, N. (2002) Molecular mechanisms of epithelial morphogenesis. Annual Review of Cell and Developmental Biology **18**, 463-493
47) Nybakken, K. and Perrimon, N. (2002) Hedgehog signal transduction: recent findings. Current Opinion in Genetics and Development **12**, 503-511.
48) Schober, M. and Perrimon, N. (2002) Unconventional ways to travel. Nature Cell Biology. **4**. E211-212.
49) Nybakken, K. and Perrimon, N. (2002) Heparan Sulfate Proteoglycan modulation of Developmental Signaling in *Drosophila*. Biochimica and Biophysica Acta. **1573**, 280-291.
50) Hou, S.X., Zheng,Z. Chen, X. and Perrimon, N. (2002) The JAK/STAT Pathway in model organisms: Emerging roles in cell movement. Developmental Cell **3**, 765-778.
51) Lin, X. and Perrimon, N. (2002) Developmental Roles of Heparan Sulfate Proteoglycans in *Drosophila*. Glycoconjugate Journal. **19**, 363-368
52) Nagy, A., Perrimon. N., Sandmeyer, S. and Plasterk, R, (2003) Tailoring the genome: the power of genetic approaches. Nature Genetics **33** Supplement, 276-284.
53) Gibson, M. and Perrimon, N. (2003) Apico-basal Polarity: Epithelial form and function. Current Opinion in Cell Biology **15**, 747-752.
54) Perkins, L. A. P. and Perrimon, N. (2003) Liz and Norbert at the movies. Development **130,** 5556-5557.
55) Agaisse, H. and Perrimon, N. (2004) The roles of JAK/STAT Signaling in *Drosophila* Immune Response. Immunological Reviews **198**, 72-82.
56) Perrimon, N., and Hacker, U. (2004) Wingless, Hedgehog and Heparan Sulfate Proteoglycans. Development. **131**, 2509-2511.
57) Perrimon, N. (2004) Le modèle américain. Commentaire **106**, 335-338.
58) Friedman, A. and Perrimon, N. (2004) Genome-wide high-throughput screens in functional genomics. Current Opinion in Genetics and Development. **14**, 470-476.
59) Dasgupta, R. and Norbert Perrimon, N. (2004) Using RNAi to catch *Drosophila* genes in a web of interactions: Insights into cancer research. Oncogene. **23**, 8359-8365.
60) Armknecht, S., Boutros, M., Kiger, K., Nybakken, K., Mathey-Prevot, B. and Perrimon, N. (2005) High-throughput RNA interference screens in *Drosophila* tissue culture cells. Methods in Enzymology. **392**, 55-73.
61) Perrimon, N., Boutros, M. and Dasgupta, R. (2005) *Drosophila* Wnt/Fz pathways. Science's STKE Connections Map. http://stke.sciencemag.org/cgi/cm/CMP 6559.
62) Haecker, U., Nybakken, K. and Perrimon, N. (2005) Heparan Sulfate Proteoglycans: The sweet side of Morphogens. Nature Review Molecular Cell Biology **6**, 530-541.
63) Kulkarni, M. M. and Perrimon, N. (2005) Supersize Flies. Cell Metabolism **1**, 288-290.
64) Echeverri, C. and Perrimon, N. (2006) High-throughput RNAi screening in cells: a users' guide. Nature Review Genetics **7**, 373-384.

65) Friedman, A. and Perrimon, N. (2006) High-throughput approaches to dissecting MAPK signaling pathways. Methods **40**, 262–271.
66) Echeverri, C. J., Beachy, P. A., Baum, B., Boutros, M., Buchholz, F., Chanda, S. K., Downward, J., Ellenberger, J., Fraser, A. G., Hacohen, N., Hahn, W. C., Jackson, A. L., Kiger, A., Linsley, P. S., Lum, L., Ma, M., Mathey-Prévôt, B., Root, D. E., Sabatini, D. M., Taipale, J., Perrimon, N. and Bernards, R. (2006) Minimizing the risk of reporting false positives in large-scale RNAi screens. Nature Methods **3**, 777-779.
67) Perrimon, N., Friedman, A., Mathey-Prevot, B. and Eggert, U., S. (2007) Drug-target identification in *Drosophila* cells: Combining high-throughout RNAi and small molecules screens. Drug Discovery Today **12**, 28-33.
68) Perrimon, N. and Mathey-Prevot, B. (2007) Applications of High-throughput RNA Interference Screens to Problems in Cell and Developmental Biology. Genetics **175,** 7-16.
69) Perrimon, N. and Mathey-Prevot, B. (2007) Matter Arising: Off-targets and genome-scale RNAi screens in *Drosophila*. FLY **1**, 1-5.
70) Friedman, A. and Perrimon, N. (2007) Genetic screening for signal transduction in the era of network biology. Cell **128**, 225-231.
71) Mathey-Prevot, B., and Perrimon, N. (2007) Do-it-yourself RNAi made easy? Nature Methods. **4**, 308 - 309.
72) Ramadan, N., Flockhart, I., Booker, M., Perrimon, N. and Mathey-Prevot, B. (2007) Design and implementation of high-throughput RNAi screens in cultured *Drosophila* cells. Nature Protocols. **2**, 2245-2264.
73) Leopold, P. and Perrimon, N. (2007) *Drosophila* and the genetics of the internal milieu. Nature **450**, 186-188.
74) Pitsouli, C. and Perrimon, N. (2008) Our fly cousins' gut. Nature. **454**, 592-593.
75) Vinegoni, C., Razansky, D., Pitsouli. C., Perrimon N., Ntziachristos, V., Weissleder, R. (2009) Mesoscopic fluorescence tomography for in-vivo imaging of developing *Drosophila*. J Vis Exp. (30). pii: 1510. doi: 10.3791/1510.
76) Bai, J., Sepp, K. J. and Perrimon, N. (2009) Culture of *Drosophila* primary cells dissociated from gastrula embryos and their use in RNAi screening. Nature Protocols. **4**,1502-1512.
77) Pitsouli, C., Apidianakis, Y. and Perrimon, N. (2009) Homeostasis in infected epithelia: stem cells take the lead. Cell Host Microbe. **6**, 301-307. PMID: 19837370.
78) Mohr, S., Bakal, C. and Perrimon N. (2010) Genomic screening with RNAi: Results and Challenges. Annual Reviews in Biochemistry. **79**. 37-64. PMID: 20367032.
79) Bakal, C. and Perrimon, N. (2010) Realizing the promise of RNAi highthroughput screening. Developmental Cell. **18**, 506-507. PMID: 20412765.
80) Rajan, A. and Perrimon, N. (2010) Steroids make you bigger? Fat chance says Myc. Cell Metabolism. **12**, 7-9. PMID: 20620990.
81) Zirin, J. and Perrimon, N. (2010) *Drosophila* as a model system to study autophagy. Seminars in Immunopathology. **4**. 363-72. PMID: 20798940.
82) Karpowicz, P. and Perrimon, N. (2010) All for one, and one for all: the clonality of the intestinal stem cell niche. F1000 Biology Reports **2**:73.

83) Neumüller, R. A. and Perrimon, N. (2010) Where gene discovery turns into systems biology: genome-scale RNAi screens in *Drosophila*. Wiley Interdiscip Rev Syst Biol Med. PMID: 21197652.
84) Perrimon, N., Zirin, J. and Bai, J. (2011) Primary cell cultures from *Drosophila* gastrula embryos. J Vis Exp. 48. pii: 2215. doi: 10.3791/2215.
85) Rajan, A. and Perrimon, N. (2011) *Drosophila* as a model for interorgan communication: Lessons from studies on energy homeostasis. Developmental Cell. **21**, 29-31. PMID:21763605.
86) Perrimon, N. and Barkai, N. (2011) The era of Systems Developmental Biology. Current Opinion in Genetics & Development. **21**: 681-683. PMID: 22079435.
87) Mohr, S. and Perrimon, N. (2012) RNAi screening: New approaches, understandings and organisms. Wiley Interdiscip Rev RNA. 2, 145-58. PMID: 21953743.
88) Rajan, A. and Perrimon, N. (2013) Of flies and men: insights on organismal metabolism from fruit flies. BMC Biology. doi: 10.1186/1741-7007-11-38. PMID: 23587196.
89) Zhou, R., Mohr, S., Hannon, G. J. and Perrimon, N. (2013) Inducing RNAi in *Drosophila* cells by transfection with dsRNA. Cold Spring Harb Protoc. 2013(5). pii: pdb.prot074351. doi: 10.1101/pdb.prot074351. PMID:23637371.
90) Demontis, F., Piccirillo, R., Goldberg, A. L. and Perrimon, N. (2013) The influence of skeletal muscle on systemic aging and lifespan. Aging cell. doi: 10.1111/acel.12126. PMID:23802635.
91) Tipping, M. and Perrimon, P. (2013) *Drosophila* as a model for context-dependent tumorigenesis. J. Cell Physiology. **229**, 27-33. PMID: 23836429.
92) Piccirillo R, Demontis F, Perrimon N, Goldberg A, L. (2013) Mechanisms of Muscle Growth and Atrophy in *Drosophila* and Mammals. Dev Dyn. doi: 10.1002/dvdy.24036.]. PMID:24038488.
93) Demontis, F., Piccirillo, R., Goldberg, A. L. and Perrimon, N. (2013) Mechanisms of skeletal muscle aging: insights from *Drosophila* and mammalian models. Disease Models and Mechanisms. **6**, 1339-52. PMID:24092876.
94) Droujinine, I. A. and Perrimon, N. (2013) Defining the interorgan communication network: Systemic coordination of organismal cellular processes under homeostasis and localized stress. Front. Cell. Infect. Microbiol. **3**, 82. PMID:24312902.
95) Owusu-Ansah, E. and Perrimon, N. (2014) Modeling metabolic homeostasis and nutrient sensing in *Drosophila*: implications for aging and metabolic diseases. Disease Models and Mechanisms **7**:343-50. PMID:24609035.
96) Mohr, S. E., Hu, Y., Kim, K. Housden, B.E. and Perrimon, N. (2014) Resources for functional genomics studies in *Drosophila melanogaster*. Genetics. PMID:24653003.
97) Doupe, D. P. and Perrimon, N. (2014) Visualizing and manipulating temporal signaling dynamics with fluorescence-based tools. Sci. Signal. **7**, re1.
98) Zhou, R., Mohr, S., Hannon, G. J. and Perrimon, N. (2014) Inducing RNAi in *Drosophila* cells by soaking with dsRNA. Cold Spring Harb Protoc. 2014(5).). pii: pdb.prot080747. doi: 10.1101/pdb.prot080747. PMID: 24786505.

99) Mohr, S. E., Smith, J. A., Shamu, C. E., Neumuller, R. A. and Perrimon, N. (2014) RNAi Screening comes of age: improved techniques and complementary approaches. Nat Rev in Mol and Cell Biol. **15**, 591-600. PMID: 25145850

100) Housden, B. E. and Perrimon, N. (2014) Spatial and temporal organization of signaling pathways. Trends in Biochemical Sciences. **39**:457-464. PMID: 25155749

101) Droujinine, Yan, D., and Perrimon, N. (2014) A sharp end to sugary Wingless travels. Journal of Cell Biology. **206**:819-821. PMID: 25267292

102) Housden, B. E., Lin. S. and Perrimon, N. (2014) Cas9-based genome editing in *Drosophila*. Methods in Enzymology. **546**:415-39. PMID:25398351

103) Owusu-Ansah, E. and Perrimon, N. (2015) Stress signaling between organs in metazoa. Annual Review in Cell and Developmental Biology. **13**:497-522. PMID: 26393775

104) Akbari, O. S., Bellen, H. J., Bier, E., Bullock, S. L., Burt, A., Church, G.M., Cook, K. R., Duchek, P., Edwards, O. R., Esvelt, K. M., Gantz, V. M., Golic, K. G., Gratz, S. J., Harrison, M. M., Hayes, K. R., James, A. A., Kaufman, T. C., Knoblich, J., Malik, H. S., Matthews, K. A., O'Connor-Giles, K. M., Parks, A. L., Perrimon, N., Port, F., Russell, S., Ueda, R., and Wildonger, J. (2015). Safeguarding gene drive experiments in the laboratory. Science. **349**, 927-9. PMID:26229113.

105) Perrimon, N., Bonini, N. M. and Dhillon, P. (2016) Fruit flies on the front line: the translational impact of *Drosophila*. Dis Model Mech. **9**, 229-31. PMID:26935101

106) Doupe, D. P. and Perrimon, N. (2016) Towards a Systems understanding of signaling pathway function. Current Topics in Developmental Biology. **117**:221-236. PMID:26969980

107) Mohr, S. E., Hu, Y., Ewen-Campen, B., Housden, B. E., Viswanatha, R. and Perrimon, N. (2016) CRISPR guide RNA design for research applications. FEBS J. **283**:3232-8. PMID: 27276584

108) Housden, B. E. and Perrimon, N. (2016) Comparing CRISPR and RNAi-based screening technologies. Nature Biotechnology. **34**:621-623. PMID: 27281421

109) Sahin, M., Henske, E. P., Manning, B. D., Ess, K. C., Bissler, J. J., Klann, E., Kwiatkowski, D. J., Roberd, S. L., Silva, A. J., Hillaire-Clarke, C. S., Young, L. R., Zervas, M., Mamounas, L. A., Tuberous Sclerosis Complex Working Group to Update the Research Plan (2016) Advances and Future Directions for Tuberous Sclerosis Complex Research: Recommendations From the 2015 Strategic Planning Conference. Pediatr Neurol. **60**:1-12. PMID:27267556

110) Droujinine, I. A. and Perrimon, N. (2016) Interorgan communication pathways in physiology: Focus on *Drosophila*. Annual Review in Genetics. **50**:539-570. PMID:27732790

111) Petsakou, A. and Perrimon, N. (2016) ISN't Thirst Sweet? Says the fly. Cell. **166**:796-7. PMID:27518557

112) Housden, B. H., Muhar, M., Gemberling, M., Gersbach, C. A., Stainier, D. Y. R., Seydoux, G., Mohr, S. E., Zuber, J., and Perrimon, N. (2017) Loss-of-function genetic tools for animal models: cross-species and cross-platform differences. Nat Rev Genet. **18**: 24-40. PMID:27795562

113) Chen, C. and Perrimon, N. (2017) Proximity-dependent labeling methods for proteomic profiling in living cells. Wiley Interdiscip Rev Dev Biol. 2017, e272. doi: 10.1002/wdev.272. PMID:28387482
114) Housden, B. E., Nicholson, H. E. and Perrimon, N. (2017) Synthetic Lethality Screens Using RNAi in Combination with CRISPR-based Knockout in *Drosophila* cells. Bio Protoc. 7(3). pii: e2119. doi: 10.21769/BioProtoc.2119. PMID:28523286
115) Chatterjee, N. and Perrimon, N. (2017) Thermogenesis by THADA. Developmental Cell. **41**:1-2. PMID:28399393
116) Ewen-Campen, B., Mohr, S. E., Hu, Y., and Perrimon, N. (2017) Accessing the phenotype gap: Enabling systematic investigation of paralog functional complexity with CRISPR. Developmental Cell. **43**: 6-9. PMID:2901730
117) Song, W., Ghosh, A., Cheng, D. and Perrimon, N. (2018) Endocrine Regulation of Energy balance by *Drosophila* TGF-β/Activins. Bioessays. doi: 10.1002/bies.201800044. PMID:30264417
118) Xu, C., Ericsson, M. and Perrimon, N. (2018) Understanding cellular signaling and systems biology with precision: A perspective from ultrastructure and organelle studies in the *Drosophila* midgut. Current Opinion in Systems Biology, **11**:24–31. PMID:31595264
119) He, L., Ahmad, M. and Perrimon, N. (2019) Mechanosensitive channels and their functions in stem cell differentiation. Experimental Cell Research. **74**:259-265.PMID:30500393
120) Ahmad, M., He, L. and Perrimon, N. (2019) Regulation of insulin and adipokinetic hormone/glucagon production in flies. Wiley Interdiscip Rev Dev Biol. doi: 10.1002/wdev.360. PMID:31379062
121) Droujinine, I. A. and Perrimon, N. (2019) The multidimensional organization of inter-organ communication networks. Developmental Cell. **50**:395-396. PMID: 31430450
122) Parkhitko, A. A., Jouandin, P., Mohr, S.E. and Perrimon, N. (2019) Methionine metabolism and methyltransferases in the regulation of aging and lifespan extension across species. Aging Cell. doi: 10.1111/acel.13034. PMID:31460700
123) Mohr, S. E. and Norbert Perrimon, N. (2019) *Drosophila melanogaster*: A simple system for understanding complexity. Dis Model Mech. **12**. doi: 10.1242/dmm.041871. PMID:31562251
124) Viswanatha, R., Brathwaite, R., Hu, Y., Li., Z., Rodiger, J., Merckaert, P., Chung, V., Mohr, S. and Perrimon, N. (2019) Pooled CRISPR screens in Drosophila cells. Current Protocols in Molecular Biology. 129(1):e111. doi: 10.1002/cpmb.111. PMID:31763777

Chapters of Books

1) Mahowald, A. P., Konrad, K. D., Engstrom, L., Perrimon, N. (1984) Genetic approach to early development. In: *Molecular Biology of Development*. Alan R. Liss, Inc. 185-197.
2) Konrad, K. D., Engstrom, L., Perrimon, N. and Mahowald, A. P. (1985) Genetic analysis of oogenesis and the role of maternal gene expression in early development. In *Developmental* Biology: *A Comprehensive Synthesis*, Vol. 1. Oogenesis (ed by L. Brower). 577-617.

3) Perrimon , N and Mahowald, A. P. (1986) The maternal role of zygotic lethals during early embryogenesis in *Drosophila*. In: *Gametogenesis and the early embryo*, J. G. Gall, ed. (New. York, Liss). 221-237.
4) Perrimon, N. and Mahowald, A. P. (1987) Maternal contributions to early development in *Drosophila*. In "*Primers in Developmental Biology*". (G. Malacinski, ed). 305-328.
5) Klingensmith, J. and N. Perrimon. (1991) Segment polarity genes and intercellular communication in *Drosophila*. In "*Cell Activation, genetic approaches*". J. Mond, A. Weiss, J. Cambier, eds.). Raven Press, New York. 251-274.
6) Brand, A.H., Manoukian, A.S. and Perrimon, N. (1994) Ectopic expression in *Drosophila*. In "Methods in Cell Biology" (eds. Lawrence S.B. Goldstein and Eric A. Fyrberg). Academic Press, Orlando, FL. **44**, 635-653.
7) Melnick, M. and Perrimon, N. (1995). DmRaf. In "The protein kinase Factsbook, Protein-Serine Kinases". G. Hardie and S. Hanks eds. Acad Press. 331-332.
8) Wilder, E.L. and Perrimon, N. (1995) Genes involved in post-embryonic cell proliferation in *Drosophila*. in Metamorphosis: Post-embryonic Re-programming of Gene Expression in Amphibian and Insect Cells. (eds. L.I. Gilbert, B.G. Atkinson and J.R. Tata). 363-400.
9) Li, W. and Perrimon, N. (1997). Specificity of receptor tyrosine signaling pathways: Lessons from *Drosophila*. In Genetic Engineering V. 19: Principles and Methods. Plenum Press, New York, NY. 167-182.
10) Haecker, U. and Perrimon, N (1997) Components of the Wnt signaling pathway. In "Cytoskeletal-Membrane and Signal Transduction". P. Cowin and M. Klymkowsky eds. Landes Bioscience Publishers. pp.61-72.
11) Goode, S. and Perrimon, N. (1998) Brainiac and Fringe are pioneer proteins that impart specificity to Notch signals during *Drosophila* development. Cold Spring Harbor Symposia on Quantitative Biology, Vol LXII. 177-184.
12) Mogila, V., Bellaiche, Y. and Perrimon, N. (1998). Expression of I-Sce.I in *Drosophila* to study Double Stand Breaks. In "DNA Repair Protocols: Eukaryotic Systems. Methods in Molecular Biology. Humana Press. New Jersey. p. 439-445.
13) Perrimon, N. (1999). Role of HSPG in growth-factor signalling pathways in *Drosophila*. Human Frontier Workshop VI: Cell Surface Proteoglycans in Signalling and Development **6**, 157-162.
14) Bach, E. A. and Perrimon, N. (2001) The role of the JAK-STAT in hematopoeisis and immune responses in *Drosophila*. In: "The JAK-STAT Pathway in Hematopoeisis. A. Ward, Landes Bioscience / Eurekah.com.
15) Stronach, B. E. and Perrimon, N. (2003) Developmental signaling: "JNK pathway in *Drosophila* morphogenesis". " *In* Handbook of Cell Signaling. (RA. Bradshaw and E. Dennis, Eds.) Academic Press, San Diego. Vol **2**, 783-787.
16) Bach, E. A, and Perrimon, N. (2003) Prime time for the *Drosophila* JAK/STAT Pathway. In: Signal Transducers and Activators of Transcription (STATs): Activation and Biology. P. B. Seghal, D. E. Levy and T. Hirano, Editors, Kluwer Academic Publishers B. V. 87-104.
17) Duffy, J. B. and Perrimon, N. (2004) The GAL4/UAS system for tissue specific analysis of EGFR gene function in *Drosophila melanogaster*. "Key Experiments in Practical Developmental Biology". Cambridge University Press. **21**. 268-281.

18) Nybakken, K. and Perrimon, N. (2004) Carbohydrate and Lipid Modifications of Developmental Signaling Molecules. In "Gastrulation: From cells to embryos". C. Stern editor. CSHL Press. **50**, 667-676.
19) Perrimon, N., and Hyman, T. (2005) RNA interference: Mechanisms and Applications. Cahier Les Treilles. http://www.les-treilles.com./ssimages/c_2004_08_Perrimon_Hyman.html.
20) Mathey-Prevot, B. and Perrimon, N. (2006) *Drosophila* Genome-wide RNAi screens: Are they delivering the promise? In: Regulatory RNAs. Cold Spring Harbor Symposia on Quantitative Biology. **71**, 141-148.
21) Perrimon, N., Ni, J-Q. and Perkins, L. A. (2010) *In vivo* RNAi: Today and Tomorrow. Cold Spring Harb Perspect Biol. PMID: 20534712
22) Perrimon, N., Pitsouli, C. and Shilo, B-Z. (2012) Signaling mechanisms controlling cell fate and embryonic patterning. Cold Spring Harb Perspect Biol. **4**:a005975. PMID: 22855721
23) Kulkarni, M. M. and Perrimon, N. (2012) Analyzing the structure, function and information flow in signaling networks using quantitative cellular signatures. Handbook of Systems Biology. Walhout, N., Vidal, M, and Dekker, J. eds. Academic Press.
24) Sopko, S. and Perrimon. N. (2013) Receptor Tyrosine Kinases in *Drosophila* development. Cold Spring Harb Perspect Biol.; 5:a009050. PMID: 23732470.
25) Sun, S., Mohr, S., Vinayagam, V., Hong, P. and Perrimon, N. (2015) Inferring Genetic Architecture from Systems Genetics Studies in *Drosophila* Cells. Cambridge University Press. Markowetz F and Boutros, M. editors. p139-155.
26) Sopko, R. and Perrimon, N. (2015) Systematic methods to interrogate genetic perturbations and map phosphorylation-dependent signaling. Encyclopedia of Cell Biology. R. Bradshaw and P. Stahl editors. Elsevier Inc. Vol 4:227-233. doi:10.1016/B978-0-12-394447-4.40036-2.
27) Housden, B. E. and Perrimon, N. (2016) Cas9-Mediated Genome Engineering in *Drosophila melanogaster*. J. Doudna and P. Mali, editors. CSHL Press. 9: doi: 10.1101/pdb.top086843. PMID: 27587786
28) Housden, B. E. and Perrimon, N. (2016) Detection of Indel Mutations in *Drosophila* by High-Resolution Melt Analysis (HRMA). J. Doudna and P. Mali, editors. CSHL Press. 9: doi: 10.1101/pdb.prot090795. PMID:27587781
29) Housden, B. E. and Perrimon, N. (2016) Design and Generation of Donor Constructs for Genome Engineering in *Drosophila* J. Doudna and P. Mali, editors. CSHL Press. 9: doi: 10.1101/pdb.top086843. PMID: 27587786
30) Housden, B. E., Hu, Y. and Perrimon, N. (2016) Design and Generation of *Drosophila* Single Guide RNA Expression Constructs. J. Doudna and P. Mali, editors. CSHL Press. 9: doi: 10.1101/pdb.prot09077. PMID:27587779
31) Mohr, S. E. and Perrimon N. (2017) Functional Genomics Screens in *Drosophila* Cells. In: *Drosophila* Cells in Culture. 2nd Ed. Elsevier Academic Press. 165-187.
32) Housden, B. E., Ewen-Campen, B., Mohr, S. E. and Perrimon N. (2017) CRISPR-Based Perturbation of Gene Function in *Drosophila* Cells. In: *Drosophila* Cells in Culture. 2nd Ed. Elsevier Academic Press. 193-204.
33) Saavedra, P. and Perrimon, N. (2019) *Drosophila* as a model for tumor-induced organ wasting. Adv Exp Med Biol. **1167**:191-205. PMID:31520356

Correspondence to Editors/Science Perspectives

1) Bilder, D., Birnbaum, D., Borg, J.P., Bryant, P., Huigbretse, J., Jansen, E., Kennedy, M. B., Labouesse. M., Legouis, R., Mechler, B., Perrimon, N. Petit, M., and Sinha, P (2000) Collective nomenclatures for LAP proteins. Nature Cell Biology. **2**, E114.
2) Bilder, D., Birnbaum, D., Borg, J.P., Huigbretse, Kennedy, M. B., Labouesse., Mechler, B., and Perrimon, N. (2001) Problems with LAP nomenclature. Response. Nature Cell Biology. **3**, E90.
3) Perrimon, N. (2005) Questions and Answers. Current Biology **15**, R481-R482.
4) Perrimon, N. (2008) Journal Club. Nature **452**, 669.
5) Perrimon, N. (2009) Building on the shoulders of giants. Nature Reviews Molecular Cell Biology. **10**, 144.
6) Perrimon, N. (2011) Deciphering gene expression patterns. Dev Cell. **18**;21(4):e1. PMID: 22014528.
7) Friedman, A. A., Perrimon, N. and VanHook, A. M. (2011) Science Signaling Podcast. Sci. Signal. **4**, pc22.
8) Perrimon, N. (2014) *Drosophila* developmental biology methods. Methods **68**; 1. doi: 10.1016/j.ymeth.2014.05.010. PMID:24908372.
9) Anderson, W., Apweiler, R., Bateman, A., Bauer, G. A., Berman, H., Blake, J. A., Blomberg, N., Burley, S. K., Cochrane, G., Di Francesco, V., Donohue, T., Durinx, C., Game, A., Green, E., Gojobori, T., Goodhand, P., Hamosh, A., Hermjakob, H., A. Kanehisa, M., Kiley, R., McEntyre, J., McKibbin, R., Miyano, S., Pauly, B., Perrimon, N., Ragan, M. A., Richards, G., Teo, Y-Y., Westerfield, M., Westhol, E. and Lasko, P. F. (2017) Data Management: A global coalition to sustain core data. Nature **543**, 179. PMID:28277502.
10) Teleman, A. A. and Perrimon N. (2017) Open questions: completing the parts list and finding the integrating signals. BMC Biol. **15**:47. PMID:28595578.

PREVIOUS AND CURRENT TRAINEES

NAME	**PERIOD**	**POSITION**
Former Ph.D. Students		
Musacchio, M.	85-92	Research Scientist and Director, UC Irvine
Binari, R.	86-93	Lab Manager, Perrimon lab
Klingensmith, J.	86-93	Assoc. Prof. Duke
Zhang, K.	87-92	Assoc. Prof. Salt Lake City
Melnick, M.	88-93	Co-Director, Assay Designs
Yoffe, K.	90-94	Medical Doctor
Bellaiche, Y.	94-98	CR1 CNRS, Curie Institute Paris
Gayko, U.	94-98	Associate Director/Scientist, AMGEN
Schober, M.	00-03	Postdoc. Elaine Fuchs lab
Friedman, A.	02-07	MD/Ph.D. Postdoc. David Fisher lab
Cho, J	07-11	Consultant, Bain
Schnall Levin, M	07-11	Postdoc, Eric Lander lab
Gibson, T	07-11	Postdoc. David Anderson lab

Ammeux, N	11-15	Postdoc. Yves Jacob lab
Xu, C	12-18	Postdoc, Elaine Fuchs lab

Former Postdoctoral Fellows

Ambrosio, L.	86-91	Assoc. Prof. Zoo& Gen. Iowa State U
Perkins, L.	86-92	Assoc. Prof. MGH
Smouse, D.	87-88	Asst. Prof. Zoology, Arizona State U
Finkelstein, R.	87-92	Program Director, NINDS
Brand, A	88-92	Senior Research Fellow. Wellcome Inst. Camb
Rutledge, B.	88-92	Res. Fellow, Dana Faber.
Siegfried, E.	88-93	Asst. Prof, Penn State
Wilder, E.	90-95	Program Director, NIH
Lorenz, L.	90-96	Assoc. Prof. Worcester Univ. Mass
Chou, T.	90-94	Assoc. Prof Zoology, Natl. Taiwan Univ
Lu, X.	90-94	Asst. Prof. Univ. Alabama
Harrison, D.	91-96	Assoc. Prof Biology, Univ. Kentucky
Duffy, J.	92-96	Asst. Prof. Univ. Indiana
Hsu, R.	92-95	Asst. Prof. Natl Tsing Univ, Taiwan
Manoukian, A.	93-95	Sr. Scientist, Ontario Cancer Inst.
Kadowaki, T.	94-96	Asst. Prof. Nagoya Univ, Japan
Axelrod, J.	93-97	Assoc. Prof. Stanford University
Eberl, D.	93-98	Asst. Prof. Iowa City
Goode, S.	94-98	Asst. Prof. Baylor College of Medicine
Ghiglione, C.	96-98	Maitre Conference. Universite de Nice
Haecker, U.	95-99	Asst. Prof. Lund, Sweeden
Spana, E.	96-99	Research Scientist and Director, Duke
Lin, X.	95-00	Assoc. Prof. Cincinnati Med School
Li, W.	95-00	Assoc. Prof. Rochester Med School
The, I.	97-00	Asst. Prof. Worcester U. Mass
Zeidler, M.	96-01	Group Leader, Goettingen, Germany
Baum, B.	98-01	Asst. Prof, UCL, England
Petitt, M.	96-01	Res. Fellow, Stanford
Bilder, D.	97-01	Assoc. Prof, Berkeley
Pettersen. M.	99-01	Asst. Prof, Stockholm Sweeden
Selva, E.	96-02	Asst. Prof, Univ. of Delaware
Bach, E.	97-02	Asst. Prof, New York University
Stronach, B.	98-02	Asst. Prof, Univ. of Pittsburgh
Boutros, M.	99-03	Group Leader, Cancer Center, Heidelberg
Schoeck, F.	99-03	Asst. Prof, McGill, Quebec
Vincent, S.	00-04	Maitre Conference. ENS, Lyon
Agaisse, H.	98-04	Asst. Prof. Yale
Kiger, A.	00-04	Asst. Prof, UCSD
Baeg, G	98-05	Asst. Prof. New York Medical College
Tan, C.	01-05	Asst. Prof, Missouri
Dasgupta, R.	02-05	Asst. Prof, New York University
Silver, S.	04-06	Principal Research Investigator. Sanofi
Nybbaken, K.	00-06	Asst Prof. BBRI, Boston

Lutz Kockel	00-06	Postdoctoral Fellow, UCSF
Miccheli, C.	00-06	Asst. Prof. Washington University
Cherry, S.	00-05	Asst. Prof. Univ. of Pennsylvania
Gibson. M.	02-06	Asst. Prof. Stowers Institute
Bradley, P.	02-05	Postdoctoral Fellow, NINDS
Brouzes, E.	04-06	Asst. Prof, Stony Brook
Sepp, K.	02-07	Postdoctoral Fellow, MIT
Brueckner, K.	00-06	Asst. Prof. UCSF
Phillips, J.	03-06	Asst. Prof, New York University
Zhang, S	01-08	Asst. Prof. Univ of Texas, Houston
Bai, J	02-09	Merck, Group Leader
Bakal, C	04-09	Asst. Prof, ICR London
Rahal, R	08-10	Scientist, Blueprint Medicines
Ni, J	09-10	Assoc. Prof, Tsinghua Univ. Beijing
Li, Z	10-11	Prof, Capital Normal Univ. Beijjng
Zhou, R	03-10	Asst. Prof, Burnham Institute
Kondo, S	07-11	Asst. Prof, National Institute Genetics, Japan
Pitsouli, C	05-11	Asst. Prof, Univ. of Cyprus
Markstein, M	04-11	Asst. Prof, U. Mass Amherst
Kulkarni, M	04-11	Research Scientist II, Belfer Institute
Swindell, W	09-12	Research Investigator, Ann Harbor
Demontis, F	06-12	Asst. Prof. St. Jude Hospital, Memphis
Tipping, M	11-13	Asst. Prof. Providence College
Yeh, J	09-13	Asst Prof, CSHL Cancer Center
Neumuller, R	10-13	Asst. Prof, University of Munich
Karpowicz, P	08-14	Asst. Prof, Windsor Univ.
Bergwitz, C	11-14	Asst. Prof, Yale
Samsonova, A	06-14	Head of Bioinformatics, Oxford
Owusu-Ansah, E	09-14	Asst. Prof, Columbia Medical School
Vinayagam, V	10-15	Bioinformatician, Regeneron
Sopko, R	09-15	Scientist, Biogen
Kwon, Y	08-15	Asst. Prof, University of Washington
Dequeant, M	08-16	Scientist, CRISPR Therapeutics
Rajan, R	09-16	Asst. Prof, Fred Hutchinson Cancer Center
Zirin, J	06-16	Lecturer, Harvard Med School
Wirtz-Peitz, F	10-16	Boston Consulting
Yan, D	10-16	Asst. Prof, Chinese Academy of Sciences, Shanghai
Ni, X	12-16	Scientist, Bioinformatics, Celgene
Housden, B	11-17	Asst. Prof. Life Science Institute. Exeter, England
Doupe, D	13-17	Asst. Prof. Durham University, England
Ro, J	16-17	Walker Innovation
Song, W	11-18	Asst. Prof. Wuhan University, China
He, L	12-19	Asst. Prof. Univ. of Science and Technology, China
Parkhitko, A	13-20	Asst. Prof. Univ. of Pittsburg
Rajakumar, R	17-20	Asst. Prof. Univ. of Ottawa
Tang, H-W	14-20	Asst. Prof. Duke-NUS Medical School

Former Visiting Scientists

Matthey-Prevot, B.	96-98	Professor, Duke Medical School
Mogila, V.	96-99	Institute of Genetics, Moscow
Noselli, S.	98-00	CR1 CNRS, Nice.
Hollenbeck, P.	2004	Professor Cell Biology. Purdue
Griffin-Shea, R.	04-07	CNRS, Grenoble
Chejanovsky, N.	06-07	Techion, Israel
Su, J.	07-08	Assoc. Prof. China
Cheng, D	11-12	Assoc. Prof. China
McCall, K	13-14	Professor, Boston Univ
Wang, X	15	Assoc. Prof. China
Li, Z	17-18	Student, Tsinghua Univ.
Li, F	18-19	Assoc. Professor, Agricultural University
Camra, H	18-19	Student, UNICAMP, Campinas, Brazil
Ingamaro, C	18-19	Student, Univ. Nacional del Litoral, Argentina
Ahmad, M	18-19	Student, Lahore University, Pakhistan

Current Trainees

Ram Viswanatha	3/1/14	Postdoc
Patrick Jouandin	6/1/14	Postdoc
Ben Ewen-Campen	9/1/14	Postdoc
Arpan Ghosh	3/1/15	Postdoc
Afroditi Petsakou	5/1/15	Postdoc
Justin Bosch	9/1/15	Postdoc
Nirmalya Chatterjee	11/1/15	Postdoc
Pedro Saavedra	1/1/16	Postdoc
Sudhir Gopal	5/1/16	Postdoc
Baolong Xia	4/1/17	Postdoc
Lucy Liu	9/1/17	Postdoc
Ah-Ram Kim	4/1/18	Postdoc
Ankita Singh	7/1/18	Postdoc
Liz Lane	2/1/19	Postdoc
Enzo Mameli	2/1/19	Postdoc
Joshua Li	5/1/19	Postdoc
Jun Xu	9/1/19	Postdoc
Yifang Liu	9/1/19	Postdoc
Sam Entwistle	9/1/19	Postdoc
Ying Liu	12/1/19	Postdoc