

CURRICULUM VITAE Mariann Bienz

Address: MRC Laboratory of Molecular Biology (MRC LMB)
Francis Crick Avenue, Cambridge Biomedical Campus,
Cambridge CB2 0QH, UK

Date of Birth: 21st December 1953, Winterthur, Switzerland
Citizen: Swiss & British

Education and Employment:

1972-1976 Undergraduate studies, University of Zürich, Switzerland
1976 Diploma in Zoology and Molecular Biology, University of Zürich, Switzerland
1976-1981 PhD Thesis ('with Distinction'),
Zoological Institute, University of Zürich, Switzerland
1981-1986 Postdoctoral research, MRC LMB, Cambridge, UK
1986 Assistant Professor, Zoological Institute, University of Zürich, Switzerland
1990 Promoted to Associate Professor
1991 Senior Staff Member, MRC LMB, Cambridge, UK
1994 Promoted to Special Appointment
2007-2008 Head of Cell Biology Division, MRC LMB, Cambridge, UK
2008-2018 Head of Protein & Nucleic Acid Chemistry Division, MRC LMB, Cambridge
2018-2023 Deputy Director, MRC LMB, Cambridge, UK

Awards:

1981-1984 EMBO Long-Term Fellowship
1984-1986 Swiss National Science Foundation Advanced Fellowship
1989 Elected as EMBO Member
1990 Friedrich Miescher Prize of the Swiss Biochemical Society
2003 Elected as Fellow of the Royal Society
2006 Elected as Fellow of the Academy of Medical Sciences

Committees & Panels:

1995-2000 EMBO Council (elected in 1994)
1996-2001 EMBO Membership and Publications Committee (Chair)
1997-1999 MRC Advisory Board
1999-2003 MRC Molecular and Medicine Board
2002-2004 MRC Cross Board
2004-2006 Council of the Royal Society (elected in 2004)
2007-2010 Royal Society Partnership Grants Committee (Chair)
2010-2012 Cancer Research UK Clinical Fellowship Selection Panel
2011-2013 Royal Society Summer Science Exhibition Committee
2012-2015 European Research Council Starting Grant Panel LS3
2012- Scientific Advisory Board of the Spanish National Cancer Research Centre,
Madrid (Chair from 2014)
2014-2019 Royal Society Dorothy Hodgkin Fellowship Panel (Chair from 2017)
2015-2017 Royal Society Sectional Committee 7
2015-2020 Royal Society Education Committee (Deputy Chair from 2018)
2015- Scientific Advisory Committee of the Center for Integrative Genomics,
Lausanne, Switzerland
2015-2017 Scientific Advisory Board of the Cancer Research UK Cambridge Institute
2016-2017 Royal Society Working Group on Eligibility
2016-2019 Royal Society Panel for International Scientific Collaboration Awards (Chair)
2016-2023 Institute Management Committee, Cambridge Institute for Medical Research

2017-2020	Human Frontiers Science Program Postdoctoral Fellowship committee
2017-2023	Cancer Research UK Science Committee (now called Discovery Committee)
2017-2020	Council of the Royal Society (elected in 2017)
2019-2020	Scientific Advisory Board of the Cancer Research UK Manchester Institute
2019-2023	LMB-Astra Zeneca 'Blue Sky' Joint Steering Committee

Other appointments:

2000-2003	Ethical Review Committee of Animal Research at LMB (Chair)
2003-2006	LMB Director of Studies
2011-2015	Adjunct Faculty Member, Cancer Research UK Cambridge Institute

Editorial Boards:

EMBO Journal (1991-1993; 1995-1997; 1999-2004)
 Mechanisms of Development (1990-2010)
 Development (1998-2003)
 EMBO Reports (2000-2004)
 Genes & Development (2001-2017)
 Trends in Biochemical Sciences (2001-2022)
 Molecular Cancer (2010-2019)
 Faculty of 1000 Biology (2001-)

Meetings' Organizer and Keynote Lectures:

1996	Keynote Lecture at the Annual <i>Drosophila</i> Research Conference 'Endoderm Induction: Signals and their Nuclear Targets' (San Diego, USA)
1998-2004	Organizing Committee of the Biennial EMBL/Salk Conferences on Oncogenes and Growth Control (EMBL Heidelberg, Germany)
2003	Session Chair at Annual Meeting of the American Society for Cell Biology on 'The Molecular Biology of the Cell' (San Francisco, USA)
2006	Organizer of Keystone Symposium on Wnt and Beta-catenin Signalling in Development and Disease (Snowbird Utah, USA)
2009	Organizer of EMBO Workshop on Wnt signalling in Development and Disease (Arolla, Switzerland)
2010	Session Chair at Annual NCRI Cancer Conference (Liverpool, UK)
2011	Keynote Lecture at the US Wnt Meeting (Los Angeles, USA)
2012	Organizing Committee of Anniversary Meeting '30 Years of Wnt' (Netherlands)
2014	Co-organizer of Keystone Symposium on Developmental Pathways and Cancer: Wnt, Notch and Hedgehog (Banff, Canada)
2014	Organizing Committee of EMBO Wnt Signaling Meeting (Broome, Australia)
2017	Elected Co-Chair for Wnt Gordon Conference 2019 (Mount Snow, Vermont, USA)
2018	Keynote Lecture at the Notch Gordon Conference (Bates College, Maine, USA)
2019	Organizing Committee of EMBO 2022 Wnt Signaling Meeting (Awaji, Japan)
2019	Co-chair of Wnt Gordon Conference 2019 (Stowe/Flake, Vermont, USA)
2020	Chair of Wnt Gordon Conference 2021 (Castelldefels, Spain), postponed to 2023
2022	Co-organizer and Chair of 'Women@LMB' meeting (LMB, Cambridge)

Public Understanding of Science:

1988	Participant of Swiss TV programme on Genetics and Prenatal Diagnosis
1987-1990	Various Seminars on Applications of Genetic Engineering to non-scientific organizations
1998	Exhibiting at the Royal Society Summer Science Exhibition 'What can we learn about human cancer from cell communication in flies?'

1999 Exhibiting during Cambridge Science Week on 'Fruit Flies and Cancer'
2005-2018 Annual school visits for Year 10 pupils to Royal Society Summer Science Exhibition
2013 MRC LMB 'Open Day'
2017 MRC LMB 'Open Day'
2018 Hosted STEM in Song, MRC LMB, Cambridge Science Week
2019 Filming for 'Outwitting Cancer' (Exhibition at the Crick Institute, 2021-2022)

Women in Science:

1990-1991 Committee on Furthering Academic Careers of Women, University of Zürich
1991 Founding Member of Crèche for pre-school children at University Zürich-Irchel
1995- Nominating women for EMBO Membership (11; 10 elected)
2001 Initiated EMBO Meeting on The Glass Ceiling for Women in the Life Sciences (EMBL, Heidelberg, Germany)
2001 Shaped EMBO Position Paper on Women in the Life Sciences
2009- Proposing women as Fellows of the Royal Society (5; 3 elected, 2 pending)
2011 Raconteur for 'Telling Tales on Women in Science' (MRC Clinical Sciences Centre, to commemorate 100 years of International Women's Day)
2013 Led panel discussion at Wikipedia Edit-a-thon Workshop (held at LMB)
2019-2020 Contributed to 'Ahead of the Curve: Women Scientists at the MRC Laboratory of Molecular Biology' (by Kathy Weston); published in November 2020
2022 Co-organizer and Chair of 'Women@LMB' meeting (LMB, Cambridge)

PUBLICATIONS (peer reviewed)

1. Bienz M & Deak II (1978) Microelectrophoresis of alpha-glycerophosphate dehydrogenase isozymes in various tissues of wild-type and mutant *Drosophila*. *Insect Biochem* **8**, 449-455.
2. Bienz M, Kubli E, Kohli J, de Henau S & Grosjean H (1980) Nonsense suppression in eucaryotes: the use of the *Xenopus* oocyte as an *in vivo* assay system. *Nucl Acids Res* **8**, 5169-5178.
3. Bienz M, Kubli E, Kohli J, de Henau S, Huez G, Marbaix G & Grosjean H (1981) Usage of the three termination codons in a single eucaryotic cell, the *Xenopus laevis* oocyte. *Nucl Acids Res* **9**, 3835-3850.
4. Bienz M & Kubli E (1981) Wild-type tRNA^{Tyr} reads the TMV RNA stop codon, but Q base-modified tRNA^{Tyr} does not. *Nature* **294**, 188-190.
5. Dudler R, Schmidt T, Bienz M & Kubli E (1981) The genes coding for the tRNA^{Tyr} of *Drosophila melanogaster*. Localisation and determination of the gene numbers. *Chromosoma* **84**, 49-60.
6. Deak II, Bellamy PR, Bienz M, Dubuis Y, Fenner E, Gollin M, Rähmi A, Ramp T, Reinhardt CA & Cotton B (1982) Mutations affecting the indirect flight muscles of *Drosophila melanogaster*. *J Embryol Exp Morph* **69**, 61-81.
7. Bienz M & Gurdon JB (1982) The heat-shock response in *Xenopus* oocytes is controlled at the translational level. *Cell* **29**, 811-819.
8. Pelham HRB & Bienz M (1982) A synthetic heat-shock promoter element confers heat-inducibility on the herpes simplex virus thymidine kinase gene. *EMBO J* **1**, 1473-1477.
9. Bienz M & Pelham HRB (1982) Expression of a *Drosophila* heat-shock protein in *Xenopus* oocytes: conserved and divergent regulatory signals. *EMBO J* **1**, 1583-1588.
10. Goddard JP, Squire M, Bienz M & Smith JD (1983) A human tRNA^{Glu} gene of high transcriptional activity. *Nucl Acids Res* **11**, 2551-2562.
11. Bienz M (1984) Developmental control of the heat-shock response in *Xenopus*. *Proc Natl Acad Sci USA* **81**, 3138-3142.
12. Bienz M (1984) *Xenopus* hsp70 genes are constitutively expressed in injected oocytes. *EMBO J* **3**, 2477-2483.
13. Bienz M (1985) Transient and developmental activation of heat-shock genes. *Trends Biochem Sci* **10**, 157-161.
14. Bienz M & Pelham HRB (1986) Heat-shock regulatory elements function as an inducible enhancer in the *Xenopus* hsp70 gene and when linked to a heterologous promoter. *Cell* **45**, 753-760.
15. Bienz M (1986) A CCAAT-box confers cell-type specific regulation on the *Xenopus* hsp70 gene in oocytes. *Cell* **46**, 1037-1042.
16. Bienz M & Pelham HRB (1987) Mechanisms of heat-shock gene activation in higher eucaryotes. *Adv Genet* **24**, 31-72.
17. Saari G & Bienz M (1987) The structure of the *Ultrabithorax* promoter. *EMBO J* **6**, 1775-1779.

18. Bienz M, Saari G, Tremml G, Müller J, Züst B & Lawrence PA (1988) Differential regulation of *Ultrabithorax* in two germ layers of *Drosophila*. *Cell* **53**, 567-576.
19. Bienz M & Tremml G (1988) Domain of *Ultrabithorax* expression in *Drosophila* visceral mesoderm from autoregulation and exclusion. *Nature* **333**, 576-578.
20. DeLorenzi M, Ali N, Saari G, Henry C, Wilcox M & Bienz M (1988) Evidence that the *Abdominal-B* element function is conferred by a trans-regulatory homeoprotein. *EMBO J* **7**, 3223-3231.
21. Chen PS, Stumm-Zollinger E, Aigaki T, Balmer J, Bienz M & Böhlen P (1988) Characterization and cDNA cloning of a male accessory gland peptide that regulates reproductive behavior of female *Drosophila melanogaster*. *Cell* **54**, 291-298.
22. Thali M, Müller MM, DeLorenzi M, Matthias P & Bienz M (1988) *Drosophila* homeotic genes encode transcriptional activators similar to mammalian OTF-2. *Nature* **336**, 598-601.
23. Tremml G & Bienz M (1989a) Homeotic gene expression in the visceral mesoderm of *Drosophila* embryos. *EMBO J* **8**, 2677-2685.
24. Tremml G & Bienz M (1989b) An essential role of *even-skipped* for homeotic gene expression in the *Drosophila* visceral mesoderm. *EMBO J* **8**, 2687-2693.
25. Müller J, Thüringer F, Biggin M, Züst B & Bienz M (1989) Coordinate action of a proximal homeoprotein binding site and a distal sequence confers the *Ultrabithorax* expression pattern in the visceral mesoderm. *EMBO J* **8**, 4143-4151.
26. DeLorenzi M & Bienz M (1990) Expression of *Abdominal-B* homeoproteins in *Drosophila* embryos. *Development* **108**, 323-329.
27. Immerglück K, Lawrence PA & Bienz M (1990) Induction across germ layers in *Drosophila* mediated by a genetic cascade. *Cell* **62**, 261-268.
28. Ali N & Bienz M (1991) Functional dissection of *Drosophila Abdominal-B* protein. *Mech Develop* **35**, 55-64.
29. Müller J & Bienz M (1991) Long-range repression conferring boundaries of *Ultrabithorax* expression in *Drosophila* embryos. *EMBO J* **10**, 3147-3144.
30. Zhang CC, Müller J, Hoch M, Jäckle H & Bienz M (1991) Target sequences for *hunchback* in a control region conferring *Ultrabithorax* expression boundaries. *Development* **113**, 1171-1179.
31. Castelli-Gair J, Müller J & Bienz M (1991) Function of an *Ultrabithorax* minigene in imaginal cells. *Development* **114**, 877-886.
32. Zhang CC & Bienz M (1992) Segmental determination in *Drosophila* conferred by *hunchback*, a repressor of the homeotic gene *Ultrabithorax*. *Proc Nat Acad Sci USA* **89**, 7511-7515.
33. Müller J & Bienz M (1992) Sharp anterior boundary of homeotic gene expression conferred by the *fushi tarazu* protein. *EMBO J* **11**, 3653-3661.
34. Bienz M (1992) Molecular mechanisms of determination in *Drosophila*. *Curr Opin Cell Biol* **4**, 955-961.
35. Tremml G & Bienz M (1992) Induction of *labial* expression in the *Drosophila* endoderm: response elements for *dpp* signalling and for autoregulation. *Development* **116**, 447-456.

36. Christen B & Bienz M (1992) A *cis*-element mediating *Ultrabithorax* autoregulation in the central nervous system. *Mech Develop* **39**, 73-80.
37. Busturia A & Bienz M (1992) Silencers in *Abdominal-B*, a homeotic *Drosophila* gene. *EMBO J* **12**, 1415-1425.
38. Thüringer F & Bienz M (1993) Indirect autoregulation of a homeotic *Drosophila* gene mediated by extracellular signalling. *Proc Natl Acad Sci USA* **90**, 3899-3903.
39. Thüringer F, Cohen SM & Bienz M (1993) Dissection of an indirect autoregulatory response of a homeotic *Drosophila* gene. *EMBO J* **12**, 2419-2430.
40. Bienz M (1994) Homeotic genes and positional signalling in the viscera of *Drosophila*. *Trends Genet* **10**, 22-26.
41. Hoppler S & Bienz M (1994) Specification of a single cell type by a *Drosophila* homeotic gene. *Cell* **76**, 689-702.
42. Christen B & Bienz M (1994) Imaginal disc silencers from *Ultrabithorax*: evidence for *Polycomb* response elements. *Mech Develop* **48**, 255-266.
43. Pöpperl H, Bienz M, Studer M, Chan S-K, Aparicio S, Brenner S, Mann RS & Krumlauf R (1995) Segmental expression of *Hoxb-1* is controlled by a highly conserved autoregulatory loop dependent upon *exd/pbx*. *Cell* **81**, 1031-1042.
44. Bienz M & Müller J (1995) Transcriptional silencing of homeotic genes in *Drosophila*. *BioEssays* **17**, 775-784.
45. Hoppler S & Bienz M (1995) Two different thresholds of *wingless* signalling with distinct developmental consequences in the *Drosophila* midgut. *EMBO J* **14**, 5016-5026.
46. Yu X, Hoppler S, Eresh S & Bienz M (1996) *decapentaplegic*, a target gene of the *wingless* signalling pathway in the *Drosophila* midgut. *Development* **122**, 849-858.
47. Hart K & Bienz M (1996) A test for cell autonomy, based on di-cistronic messenger translation. *Development* **122**, 747-751.
48. Bienz M (1996) Induction of the endoderm in *Drosophila*. *Seminars Cell Develop Biol* **7**, 113-119.
49. Eresh S, Riese J, Jackson DB, Bohmann D & Bienz M (1997) A CREB binding site as a target for *decapentaplegic* signalling during *Drosophila* endoderm induction. *EMBO J* **16**, 2014-2022.
50. Riese J, Yu X, Munnerlyn A, Eresh S, Hsu S-C, Grosschedl R & Bienz M (1997) LEF-1, a nuclear factor coordinating signalling inputs from *wingless* and *decapentaplegic*. *Cell* **88**, 777-787.
51. Szüts D, Freeman M & Bienz M (1997) Antagonism between EGFR and Wingless signalling in the larval cuticle of *Drosophila*. *Development* **124**, 3209-3219.
52. Riese J, Tremml G & Bienz M (1997) *D-Fos*, a target gene of Decapentaplegic signalling with a critical role during *Drosophila* endoderm induction. *Development* **124**, 3353-3361.
53. Bienz M (1997) Endoderm induction in *Drosophila*: the nuclear targets of the inducing signals. *Curr Opin Genet Develop* **7**, 683-688.

54. Szüts D, Eresh S & Bienz M (1998) Functional intertwining of Dpp and EGFR signalling during *Drosophila* endoderm induction. *Genes Dev* **12**, 2022-2035.
55. Waltzer L & Bienz M (1998) *Drosophila* CBP represses the transcription factor TCF to antagonize Wingless signalling. *Nature* **395**, 521-525.
56. Yu X, Riese J, Eresh S & Bienz M (1998) Transcriptional repression due to high levels of Wingless signalling. *EMBO J* **17**, 7021-7032.
57. Kehle J, Beuchle D, Treuheit S, Christen B, Kennison JA, Bienz M & Müller J (1998) dMi-2, a hunchback-interacting protein that functions in Polycomb repression. *Science* **282**, 1897-1900.
58. Bienz M (1998) TCF: transcriptional activator or repressor? *Curr Opin Cell Biol* **10**, 366-372.
59. Waltzer L & Bienz M (1999) A function of CBP as a transcriptional co-activator during Dpp signalling. *EMBO J* **18**, 1630-1641.
60. Yu X, Waltzer L & Bienz M (1999) A new *Drosophila* APC homologue associated with adhesive zones of epithelial cells. *Nature Cell Biol* **1**, 144-151.
61. Yu X & Bienz M (1999) Ubiquitous expression of a *Drosophila* Adenomatous polyposis coli homologue and its localisation in cortical actin caps. *Mech Develop* **84**, 69-73.
62. Bienz M (1999) APC: the plot thickens. *Curr Opin Genet Develop* **9**, 595-603.
63. Szüts D & Bienz M (2000) LexA chimeras reveal the function of *Drosophila* Fos as a context-dependent transcriptional activator. *Proc Natl Acad Sci USA* **97**, 5351-5356.
64. Szüts D & Bienz M (2000) An autoregulatory function of Dfos during *Drosophila* endoderm induction. *Mech Dev* **98**, 71-76.
65. Rosin-Arbesfeld R, Townsley F & Bienz M (2000) The APC tumour suppressor has a nuclear export function. *Nature* **406**, 1009-1012.
66. Townsley F & Bienz M (2000) Actin-dependent membrane association of a *Drosophila* epithelial APC protein and its effect on junctional Armadillo. *Curr Biol* **10**, 1339-1348.
67. Bienz M & Clevers H (2000) Linking colorectal cancer to Wnt signaling. *Cell* **103**, 311-320.
68. Waltzer L, Vandel L & Bienz M (2001) Teashirt is required for transcriptional repression mediated by high Wingless levels. *EMBO J* **20**, 137-145.
69. Freeman M & Bienz M (2001) EGFR receptor/Rolled MAP kinase signalling protects cells against activated Armadillo in the *Drosophila* eye. *EMBO Rep* **2**, 157-162.
70. Saller E & Bienz M (2001) Direct competition between Brinker and *Drosophila* Mad in Dpp target gene transcription. *EMBO Rep* **2**, 298-305.
71. Rosin-Arbesfeld R, Ihrke G & Bienz M (2001) Actin-dependent association of the APC tumour suppressor with the membrane of polarized mammalian cells. *EMBO J* **20**, 5929-5939.
72. Barker N, Hurlstone A, Musisi H, Miles A, Bienz M & Clevers H (2001) The chromatin remodelling factor Brg-1 interacts with beta-catenin to promote target gene activation. *EMBO J* **20**, 4935-4943.
73. Hamada F & Bienz M (2002) A *Drosophila* APC tumour suppressor homologue functions in cellular adhesion. *Nature Cell Biol* **4**, 208-213.

74. Thompson B, Townsley F, Rosin-Arbesfeld R, Musisi H & Bienz M (2002) A new nuclear component of the Wnt signalling pathway. *Nature Cell Biol* **4**, 367-373.
75. Bienz M (2002) The subcellular destinations of APC proteins. *Nature Reviews Mol Cell Biol* **3**, 328-338.
76. Saller E, Kelley A & Bienz M (2002) The transcriptional repressor Brinker antagonizes Wingless signaling. *Genes Dev* **16**, 1828-1838.
77. Rosin-Arbesfeld R, Cliffe A, Brabletz T & Bienz M (2003) Nuclear export of the APC tumour suppressor controls beta-catenin function in transcription. *EMBO J* **22**, 1101-1113.
78. Bienz M & Clevers H (2003) Armadillo/beta-catenin signals in the nucleus – proof beyond a reasonable doubt? *Nature Cell Biol* **5**, 179-182.
79. Cliffe A, Hamada F & Bienz M (2003) A role of Dishevelled relocating Axin to the plasma membrane during Wingless signalling. *Curr Biol* **13**, 960-966.
80. Townsley FM, Thompson B & Bienz M (2004) Pygopus residues required for its binding to Legless are critical for transcription and development. *J Biol Chem* **279**, 5177-5183.
81. Townsley FM, Cliffe A & Bienz M (2004) Pygopus and Legless target Armadillo/beta-catenin to the nucleus to enable its transcriptional co-activator function. *Nature Cell Biol* **6**, 626-633.
82. Bienz M & Hamada F (2004) Adenomatous polyposis coli proteins and cell adhesion. *Curr Opin Cell Biol* **16**, 528-535.87
83. Cliffe A, Mieszczanek J & Bienz M (2004) Intracellular shuttling of a *Drosophila* APC tumour suppressor homolog. *BMC Cell Biol* **5**, 37.
84. Hamada F & Bienz M (2004) The APC tumour suppressor binds to C-terminal binding protein to divert nuclear beta-catenin from TCF. *Dev Cell* **7**, 677-685.
85. Bray S^{1*}, Musisi H¹ & Bienz M^{*} (2005) Bre1 is required for Notch signalling and histone modification. *Dev Cell* **8**, 279-286. ¹ equal contribution; ^{*} co-corresponding authors
86. Schwarz-Romond T, Merrifield C, Nichols BJ & Bienz M (2005) The Wnt signalling effector Dishevelled forms dynamic protein assemblies rather than stable associations with cytoplasmic vesicles. *J Cell Sci* **118**, 5269-5277.
87. Hanson KK, Kelley AC & Bienz M (2005) Loss of *Drosophila borealin* causes polyploidy, delayed apoptosis and abnormal tissue development. *Development* **132**, 4777-4787.
88. Bienz M (2006) The PHD finger: a nuclear protein interaction domain. *Trends Biochem Sci* **31**, 35-40.
89. de la Roche M & Bienz M (2007) Wingless-independent association of Pygopus with dTCF target genes. *Curr Biol* **17**, 556-561.
90. Schwarz-Romond T¹, Fiedler M¹, Shibata N¹, Butler PGJ, Kikuchi A, Higuchi Y^{*} & Bienz M^{*} (2007) The DIX domain of Dishevelled triggers Wnt signaling by dynamic polymerization. *Nature Struct Mol Biol* **14**, 484-492. ¹ equal contribution; ^{*} co-corresponding authors
91. Schwarz-Romond T, Metcalfe C & Bienz M (2007) Dynamic recruitment of Axin by Dishevelled protein assemblies. *J Cell Sci* **120**, 2402-2412.

92. Bilic J, Huang Y-L, Davidson G, Zimmermann T, Cruciat C-M, Bienz M & Niehrs C (2007) Wnt induces LRP6 signalosomes and promotes Dishevelled-dependent LRP6 phosphorylation. *Science* **316**, 1619-1622.
93. Tran H, Hamada F, Schwarz-Romond T & Bienz M (2008) Trabid, a new positive regulator of Wnt-induced transcription with preference for binding and cleaving K63-linked ubiquitin chains. *Genes & Development* **22**, 528-542.
94. Fiedler M¹, Sánchez-Barrena MJ¹, Nekrasov M, Mieszczanek J, Rybin V, Müller J, Evans PR and Bienz M (2008) Decoding of methylated histone H3 tail by the Pygo-BCL9 Wnt signaling complex. *Mol Cell* **30**, 507-518. ¹ equal contribution
95. de la Roche M, Worm J & Bienz M (2008) The function of BCL9 in Wnt/beta-catenin signaling and colorectal cancer cells. *BMC Cancer* **8**, 199.
96. Mieszczanek J, de la Roche M & Bienz M (2008) A role of Pygopus as an anti-repressor in facilitating Wnt-dependent transcription. *Proc Natl Acad Sci USA* **105**, 19324-19329.
97. Metcalfe C, Mendoza-Topaz C, Mieszczanek J & Bienz M (2010) Stability elements in the LRP6 cytoplasmic tail confer efficient signaling upon DIX-dependent polymerisation. *J Cell Sci* **123**, 1588-1599.
98. Metcalfe C, Ibrahim AEK, Graeb M, de la Roche M, Schwarz-Romond T, Fiedler M, Winton DJ, Corfield A & Bienz M (2010) Dvl2 promotes intestinal length and neoplasia in the *Apc^{Min}* mouse model for colorectal cancer. *Cancer Res* **70**, 6629-6638.
99. Miller TCR, Rutherford TJ, Johnson CM, Fiedler M* & Bienz M* (2010) Allosteric remodelling of the histone H3 binding pocket in the Pygo2 PHD finger triggered by its binding to the B9L/BCL9 co-factor. *J Mol Biol* **401**, 969-984. * co-corresponding authors
100. Fiedler M, Mendoza-Topaz C, Rutherford TJ, Mieszczanek J & Bienz M (2011) Dishevelled interacts with the DIX domain polymerization interface of Axin to interfere with its function in down-regulating beta-catenin. *Proc Natl Acad Sci USA* **108**, 1937-1942.
101. Metcalfe C & Bienz M (2011) Inhibition of GSK3 by Wnt signaling – two contrasting models. *J Cell Sci* **124**, 3537-3544.
102. Mendoza-Topaz C, Mieszczanek J & Bienz M (2011) The Adenomatous polyposis coli tumour suppressor is essential for Axin complex assembly and function and opposes Axin's interaction with Dishevelled. *Open Biol* **1**, 110013.
103. Licchesi JDF, Mieszczanek J, Mevissen TE, Rutherford TJ, Akutsu M, Virdee S, Oualid FE, Chin JW, Ovaa H, Bienz M & Komander D (2011) An Ankyrin-repeat ubiquitin-binding domain determines TRABID's specificity for atypical ubiquitin chains. *Nature Struct Mol Biol* **19**, 62-71.
104. de la Roche M, Rutherford TJ, Gupta D, Veprintsev DB, Saxty B, Freund SM & Bienz M (2012) An intrinsically labile alpha-helix abutting the BCL9-binding site of beta-catenin is required for its inhibition by carnosic acid. *Nature Commun* **3**, 680.
105. Miller TCR¹, Mieszczanek J¹, Sánchez-Barrena MJ, Rutherford TJ, Fiedler M* & Bienz M* (2013) Evolutionary adaptation of the fly Pygo PHD finger towards recognizing histone H3 tail methylated at arginine 2. *Structure* **21**, 2208-2220. ¹ equal contribution; *co-corresponding authors
106. de la Roche M, Ibrahim AEK, Mieszczanek J & Bienz M (2014) LEF1 and B9L shield beta-catenin from inactivation by Axin, desensitizing colorectal cancer cells to tankyrase inhibitors. *Cancer Res* **74**, 1495-1505.

107. Bienz M (2014) Signalosome assembly by domains undergoing head-to-tail polymerization. *Trend Biochem Sci* **39**, 487-495.
108. Miller TCR, Rutherford TJ¹, Birchall K, Chugh J, Fiedler M^{1*} & Bienz M* (2014) Competitive binding of a benzimidazole to the histone-binding pocket of the Pygo PHD finger. *ACS Chem Biol* **9**, 2864-2874. ¹ equal contribution; *co-corresponding authors
109. Silva A-L, Dawson SN, Arends MJ, Guttula K, Hall N, Cameron EA, Huang TH-M, Brenton JD, Tavaré S, Bienz M & Ibrahim AEK (2014) Boosting Wnt activity during colorectal cancer progression through selective hypermethylation of Wnt signaling antagonists. *BMC Cancer* **14**, 891.
110. Madrzak J, Fiedler M, Johnson CM, Ewan R, Knebel A, Bienz M* & Chin JW* (2015) Ubiquitination of the Dishevelled DIX domain blocks its head-to-tail polymerization. *Nature Comm* **6**, 6718. * co-corresponding authors
111. Fiedler M¹, Graeb M¹, Mieszczanek J¹, Rutherford TJ, Johnson CM & Bienz M (2015) An ancient Pygo-dependent Wnt enhanceosome integrated by Chip/LDB-SSDP. *eLife* **4**, e09073. ¹ equal contribution
112. Teo AE, Garg S, Shaikh LH, Zhou J, Karet Frankl FE, Gurnell M, Happerfield L, Marker A, Bienz M, Azizan EA & Brown MJ (2015) Pregnancy, primary aldosteronism, and adrenal *CTNNB1* mutations. *N Engl J Med* **373**, 1429-1436.
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