

## **CURRICULUM VITAE      Mariann Bienz**

Address:                    MRC Laboratory of Molecular Biology (MRC LMB)  
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Date of Birth:            21<sup>st</sup> 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'),<br>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      | Head of Cell Biology Division, MRC LMB, Cambridge, UK                                       |
| 2008      | Head of Protein & Nucleic Acid Chemistry Division, MRC LMB, Cambridge                       |
| 2018      | 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:**

|           |                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------|
| 1994      | Elected to EMBO Council (served on Council 1995-2000)                                                |
| 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      | Elected to the Council of the Royal Society (served on Council 2004-2006)                            |
| 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,<br>Madrid, Chair from 2014 |
| 2014-     | Royal Society Dorothy Hodgkin Fellowship Panel, Chair from 2017                                      |
| 2015-2017 | Royal Society Sectional Committee 7                                                                  |
| 2015-     | Royal Society Education Committee (Deputy Chair from 2018)                                           |
| 2015-     | Scientific Advisory Committee of the Center for Integrative Genomics,<br>Lausanne, Switzerland       |
| 2015-2017 | Scientific Advisory Board of the Cancer Research UK Cambridge Institute                              |
| 2016-2017 | Royal Society Working Group on Eligibility                                                           |
| 2016-     | Royal Society Panel for International Scientific Collaboration Awards, Chair                         |
| 2017-     | Human Frontiers Science Program Postdoctoral Fellowship committee                                    |

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| 2017- | Cancer Research UK Science Committee                                     |
| 2017  | Elected to the Council of the Royal Society (served on Council 2017-)    |
| 2019- | Scientific Advisory Board of the Cancer Research UK Manchester Institute |

#### **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-)  
Molecular Cancer (2010-)  
Faculty of 1000 Biology (2001-)

#### **Meetings' Organizer and Keynote Lectures:**

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|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 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 2020 Wnt Signaling Meeting (Awaji, Japan)                                                                       |

#### **Public Understanding of Science:**

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|-----------|---------------------------------------------------------------------------------------------------------------------------------|
| 1988      | Participant of Swiss TV programme on Genetics and Prenatal Diagnosis                                                            |
| 1987-1990 | Various seminars on Applications of Genetic Engineering to a range of non-scientific organizations                              |
| 1998      | Exhibit at the Royal Society Summer Science Exhibition 'What can we learn about human cancer from cell communication in flies?' |
| 1999      | Exhibit during Cambridge Science Week on 'Fruit Flies and Cancer'                                                               |
| 2005-     | 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                                                                            |

## **Women in Science:**

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|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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; 9 elected, 1 pending)                                                                                     |
| 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 (4; 2 elected, 2 pending)                                                                           |
| 2011      | Raconteur for 'Telling Tales on Women in Science' (launched by 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)                                                                                |

## PUBLICATIONS (peer reviewed)

1. Bienz M & Deak II (1978) Microelectrophoresis of a-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<sup>Tyr</sup> reads the TMV RNA stop codon, but Q base-modified tRNA<sup>Tyr</sup> does not. *Nature* **294**, 188-190.
5. Dudler R, Schmidt T, Bienz M & Kubli E (1981) The genes coding for the tRNA<sup>Tyr</sup> 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<sup>Glu</sup> 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, Ersh 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. Ersh 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, Ersh 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 homolog 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<sup>1\*</sup>, Musisi H<sup>1</sup> & Bienz M<sup>\*</sup> (2005) Bre1 is required for Notch signalling and histone modification. *Dev Cell* **8**, 279-286. <sup>1</sup> equal contributions; <sup>\*</sup> 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 T<sup>1</sup>, Fiedler M<sup>1</sup>, Shibata N<sup>1</sup>, Butler PGJ, Kikuchi A, Higuchi Y<sup>\*</sup> & Bienz M<sup>\*</sup> (2007) The DIX domain of Dishevelled triggers Wnt signaling by dynamic polymerization. *Nature Struct Mol Biol* **14**, 484-492. <sup>1</sup> equal contributions; <sup>\*</sup> 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) Trabad, 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 M<sup>1</sup>, Sánchez-Barrena MJ<sup>1</sup>, 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. <sup>1</sup> equal contributions
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<sup>Min</sup>* 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 TCR<sup>1</sup>, Mieszczanek J<sup>1</sup>, 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. <sup>1</sup> equal contributions; \*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.

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