

CURRICULUM VITAE

Name: Leonor David

Local and date of birth: Porto-Portugal, 23 October 1955

Nacionality: Portuguese

Institucional address: IPATIMUP — Rua Dr.Roberto Frias s/n,4200-465 Porto, Portugal

Telephone: 351.22.5570700

Fax: 351.22.5570799

Email: ldavid@ipatimup.pt

Academic degrees, fields of study

- MD, Medical Faculty of Porto, July 1979.
- Specialist in Anatomic Pathology, Hospital S. João, Porto, Portugal, January 1989
- Specialist in Anatomic Pathology, Board of the Portuguese Medical Association, July 1989
- PhD, Medical Faculty of Porto, October 1993.

Pathology, Oncobiology, Gastric carcinogenesis, Mucins, Glycosylation.

Current positions

- Full Professor of Pathology, Medical Faculty of the University of Porto, 2005 to present
- Group Leader of “Carcinogenesis”, IPATIMUP, 2000 to present

Other qualifications and recent previous positions

- Consultant of Pathology, Hospital S.João, Porto, 1993-2000
- Member of the Council of EACR, 1993-1996
- Agregação, Medical Faculty of Porto, 2002
- Evaluator of PhD and post-Doc grants for the Portuguese Foundation for Science and Technology, 1998-2004
- Evaluator of international cooperation projects for the Agency in International Cooperation in Science and Technology, 1998-2004
- Associate Professor of Pathology, Medical Faculty of Porto, 1997-2005

Supervision of post-graduate students

Supervisor of 8 finished PhD thesis in Human Biology and Biomedicine. Currently supervisor/co-supervisor of 3 PhD students in Biomedicine. List of concluded thesis:

- Celso Albuquerque Reis "Characterization of human mucins in non-neoplastic gastric tissues and in gastric carcinomas. Production and characterization of monoclonal antibodies to human mucins" (Porto,

October 1998).

- Filipa Abreu Gomes de Carvalho "Mucin genes (MUC1 and MUC6) polymorphism and gastric carcinoma risk" (Porto, March 1999).
- Luis Filipe Santos Silva "Polymorphisms of DNA repetitive regions and susceptibility to gastric cancer" (Porto, March 2000).
- Raquel Maria da Silva Graça Almeida "Identification and characterization of a family of human β 4galactosyltransferase gene family. Control of type 2 chain synthesis and contribution to define the molecular basis of a defect in proteoglycan biosynthesis" (Porto, October 2000).
- Carla Maria Eugénia Zamith Franco Carrilho "Cervix cancer in Mozambique" (Porto, February 2005).
- Patrícia do Carmo Bidarra Reis e Mesquita "Regulation of MUC2 mucin gene expression in gastric carcinoma and gastric carcinoma cell lines – role of methylation and putative transcription factors" (Porto, November 2005).
- Jacinta de Fátima Rosário Serpa "Secretor and Lewis phenotype/genotype and their relevance for Helicobacter pylori infection" (Porto, December 2005).
- Rita Henriques Pinto de Barros "Identification of signalling pathways involved in CDX2 regulation in metaplastic lesions" (Porto, December 2010).

Participation in research projects

Participated as PI in several projects funded by the Portuguese Foundation for Science and Technology, Calouste Gulbenkian Foundation and is currently PI of a work package of a 1st call 7th Framework EU project led by Joyce Taylor-Papadimitriou (King's College, London). All projects were related to gastric carcinogenesis and mucins and mucin glycosylation as cancer biomarkers.

Organization of scientific international meetings

- XII European Congress of Pathology, Porto, Portugal, September 1989.
- 3rd European Workshop on Cytogenetics and Molecular Genetics of Human Solid Tumours, Espinho, Portugal, April 1992.
- IV Porto Cancer Meeting on Oncogenes and Tumour Suppressor Genes: from Molecular Biology to Clinics, Porto, Portugal, June 1995.
- 3rd International Workshop on carcinoma-associated mucins, Cambridge, UK, July 1996.
- VI Porto Cancer Meeting on Cell Migration and Cell Invasiveness in Oncobiology, Porto, Portugal, April 1997.

- International Symposium on Gene-Environment Interactions in the Digestive Tract: their role in Human Cancer, Porto, Portugal, May 1999.
- Workshop on Mucins in the pathophysiology of inflammatory diseases of the respiratory and digestive tracts, Porto, Portugal, September 2000.
- 7th International Workshop on Carcinoma-Associated Mucins, Crete, Greece, April 2003.
- 8th International Workshop on carcinoma-associated mucins, Cambridge, UK, July 2005.
- XIX Porto Cancer Meeting on Differentiation, regeneration and Cancer, Porto, Portugal, April 2010.

List of publications

Author of 105 publications in international journals with peer review and 7 book chapters. H index 23, 2.391 citations (average 20.6 citations per article, 12 publications with >50 citations, 6 of which with >100 citations).

1. Bateira P, David L, Sobrinho-Simões M: Letter to the case - **Multicystic peritoneal mesothelioma**. Pathol Res Pract 181: 772, 1986.
2. David L, Sobrinho-Simões M: Case for the Panel - **Intracytoplasmic bodies in the myocardium**. Ultrastruct Pathol 12: 357-363, 1988.
3. David L, Sobrinho-Simões M: Letter to the case - **Solitary fibrous tumor of the pleura**. Pathol Res Pract 187: 115-116, 1991.
4. Seruca R, Carneiro F, Castedo S, David L, Lopes C, Sobrinho-Simões M: **Familial gastric polyposis revisited. Autosomal dominant inheritance confirmed**. Cancer Genet Cytogenet 53:97-100,1991.
5. Castedo S, Correia C, David L, Sobrinho-Simões M: **Isochromosome 8q: a recurrent change in gastric carcinoma**. Cancer Genet Cytogenet 54: 137-138, 1991.
6. Carneiro F, David L, Sunkel C, Lopes C, Sobrinho-Simões M: **Immunohistochemical analysis of ras oncogene p21 product in human gastric carcinomas and their adjacent mucosas**. Pathol Res Pract 188: 263-272, 1992.
7. Brandão O, David L, Sobrinho-Simões M: Letter to the case - **Diffuse bilateral glomerulocystic disease of the kidneys and multiple cardiac rhabdomyomas in a newborn**. Pathol Res Pract 188: 373-374, 1992.
8. Seruca R, David L, Holm R, Nesland JM, Fangan BM, Castedo S, Sobrinho-Simões M, Børresen A-L: **P53 mutations in gastric carcinomas**. Br J Cancer 65: 708-710, 1992.
9. David L, Seruca R, Nesland JM, Soares P, Sansonetty F, Holm R, Børresen A-L, Sobrinho-Simões M: **c-erbB-2 expression in primary gastric carcinomas and their metastases**. Modern Pathol 5:384-390,1992.

10. David L, Nesland JM, Clausen H, Carneiro F, Sobrinho-Simões M: **Expression of simple mucin-type carbohydrate antigens (Tn, sialosyl Tn, T and sialosyl T) in gastric carcinomas and their metastases.** Acta Pathol Microbiol Immunol Scand 100 (suppl. 27): 162-172, 1992.
11. Carneiro F, Moutinho-Ribeiro M, David L, Seixas M, Sansonetty F, Soares P, Serrano A, Sobrinho-Simões M: **Signet ring cell carcinoma of the stomach. A morphometric, ultrastructural and DNA cytometric study.** Ultrastruct Pathol 16: 603-614, 1992.
12. David L, Nesland JM, Funderud S, Sobrinho-Simões M: **CDw75 antigen expression in human gastric carcinoma and adjacent mucosa.** Cancer 72: 1522-1527, 1993.
13. David L, Mandel U, Clausen H, Sobrinho-Simões M: **Immunohistochemical expression of oncofetal fibronectin in benign and malignant lesions of the stomach.** Eur J Cancer 29A: 2070-2071, 1993.
14. Carneiro F, David L, Seruca R, Castedo S, Nesland JM, Sobrinho-Simões M: **Hyperplastic polyposis and diffuse carcinoma of the stomach. A study of a family.** Cancer 72:323-329, 1993.
15. David L, Leitão D, Sobrinho-Simões M, Bennett E, White T, Mandel U, Dabelsteen E, Clausen H: **Biosynthetic basis of incompatible histo-blood group A antigen expression : Anti-A transferase antibodies reactive with gastric cancer tissue of type O individuals.** Cancer Res 53:5494-5500, 1993
16. Peltomäki P, Lothe RA, Aaltonen LA, Pylkkänen L, Nyström-Lahti M, Seruca R, David L, Holm R, Ryberg D, Haugen A, Brøgger A, Børresen A-L, de la Chapelle A: **Microsatellite instability is associated with tumors that characterize the hereditary non-polyposis colorectal carcinoma syndrome.** Cancer Res 53: 5853-5855, 1993.
17. David L, Sansonetty F, Soares P, Carneiro F, Azevedo R, Lopes C, Sobrinho-Simões M: **DNA content of gastric lesions with particular emphasis on gastric carcinoma. A study of 71 consecutive cases using flow cytometry.** Surg Pathol 5: 211-224, 1994.
18. Carneiro F, Seruca R, David L, Nesland JM, Sobrinho-Simões M: **Oncogenes and onco-suppressor genes in gastric carcinoma. A review with emphasis on ras and c-erbB-2 oncogenes and p53 onco-suppressor gene.** Surg Pathol 5: 225-238, 1994.
19. Seruca R, David L, Castedo S, Veiga I, Børresen A-L, Sobrinho-Simões M: **P53 alterations in gastric carcinoma. A study of 56 primary tumors and 204 nodal metastases.** Cancer Genet Cytogenet 75: 45-50, 1994.
20. Carneiro F, Santos L, David L, Dabelsteen E, Clausen H, Sobrinho-Simões M: **T (Thomsen-Friedenreich) antigen and other simple mucin-type carbohydrate antigens in precursor lesions of gastric carcinoma.** Histopathology 24: 105-113, 1994.
21. David L, Nesland JM, Holm R, Sobrinho-Simões M: **Expression of laminin, collagen IV, fibronectin and type IV collagenase in gastric carcinoma. An immunohistochemical study of 87 cases.** Cancer 73: 518-527, 1994.

22. Carneiro F, David L, Sobrinho-Simões M: **Sialyl-Tn expression in gastric carcinoma**. Eur J Cancer 30A: 1398-1399, 1994.
23. Carneiro F, Amado M, David L, Clausen H, Sobrinho-Simões M: **Glycosylation features of gastric carcinoma initiation and progression. A review with emphasis on simple mucin-type carbohydrates and histo-blood group antigens of the Lewis system**. Eur J Cancer Prev 3 (supl. 2): 39-46, 1994.
24. Seruca R, Santos NR, David L, Constância M, Barroca H, Carneiro F, Seixas M, Peltomäki P, Lothe R, Sobrinho-Simões M: **Sporadic gastric carcinomas with microsatellite instability display a particular clinicopathologic profile**. Int J Cancer 64: 32-36, 1995.
25. Seruca R, Suijkerbuijk R, Gärtner F, Criado B, Veiga I, Olde-Weghuis D, David L, Castedo S, Sobrinho-Simões M: **Increasing levels of c-myc and c-met co-amplification during tumor progression of a case of gastric cancer**. Cancer Genet Cytogenet 82: 140-145, 1995.
26. Seruca R, Constância M, Santos NR, David L, Queimado L, Carvalho F, Carneiro F: **Allele loss in human gastric carcinomas: Relation to tumor progression and differentiation**. Int J Oncol 7: 1159-1166, 1995.
27. David L, Sobrinho-Simões M: Letter to the Editor - **Tenascin and oncofetal fibronectin — oncofetal markers or indicators of extracellular matrix remodeling ?**. Br J Cancer 74: 990, 1996.
28. Marinho A, Moura A, Baptista M, Macedo G, Pimenta A, David L: **Granular cell tumour and leiomyomatosis of the esophagus - a non-coincidental association?**. Pathol Res Pract 192: 492-495, 1996.
29. Carneiro F, David L, Sobrinho-Simões M: Letter to the Editor — **Prognostic significance of T antigen expression in patients with gastric carcinoma**. Cancer 78: 2448-2449, 1996.
30. Gärtner F, David L, Seruca R, Machado JC, Sobrinho-Simões M: **Establishment and characterization of two cell lines derived from human diffuse gastric carcinomas xenografted in nude mice**. Virchows Arch 428: 91-98, 1996.
31. David L, Carneiro F, Sobrinho-Simões M: Letter to the Editor - **Sialosyl Tn antigen expression is associated with the prognosis of patients with advanced gastric cancer**. Cancer 78: 177-178, 1996.
32. David L, Gärtner F, Sobrinho-Simões M: Letter to the Editor - **Do cathepsins play a role in the biologic behavior of gastric carcinoma?**. Hum Pathol 27: 997-998, 1996.
33. Reis CA, David L, Nielsen P, Clausen H, Mirgorodskaya K, Roepstorff P, Sobrinho-Simões M: **Immunohistochemical study of MUC5AC expression in human gastric carcinomas using a novel monoclonal antibody**. Int J Cancer 74: 112-121, 1997.
34. Nielsen P, Mandel U, Therkildsen MH, Ravn V, David L, Reis CA, Wandall HH, Dabelsteen E, Clausen H: **Loss of a novel mucin-like epithelial glycoprotein in oral and cervical squamous cell carcinomas**. Cancer Res 57: 634-640, 1997.

35. Ramires M, David L, Leitão D, Seixas M, Sansonetty F, Sobrinho-Simões M: **Ki67 labelling index in gastric carcinomas. An immunohistochemical study using double staining for the evaluation of the proliferative activity of diffuse-type carcinomas.** J Pathol 182: 62-67, 1997.
36. Carvalho F, Seruca R, David L, Amorim A, Seixas M, Bennet E, Clausen H, Sobrinho-Simões M: **MUC1 gene polymorphism and gastric cancer - an epidemiologic study.** Glycoconjugate J 14: 107-111, 1997.
37. Seruca R, David L, Sobrinho-Simões M: Letter to the Editor — **Relationship between the expression of p53 and the aggressiveness of gastric carcinoma.** J Pathol 181: 349,1997.
38. Silva F, Gusmão L, Alves C, Seruca R, David L, Amorim A: **Tetra and pentanucleotide short tandem repeat instability in gastric cancer.** Electrophoresis 18: 1633-1636, 1997.
39. Garcia E, Carvalho F, Amorim A, David L: **MUC6 gene polymorphism in healthy individuals and in gastric cancer patients from northern Portugal.** Cancer Epidemiol, Biomarkers & Prev 6: 1071-1074, 1997.
40. Funderud S, David L, Nesland JM: **CDw75 — a new adhesion molecule.** Pathol Update 4: 54-59, 1997.
41. Almeida R, Amado M, David L, Levery SB, Holmes EH, Merckx G, van Kessel AG, Rygaard E, Hassan E, Bennett E, Clausen H: **A family of human β 4-galactosyltransferases: cloning and expression of two novel UDP-galactose: β -N-acetyl-glucosamine β 1,4galactosyltransferases, β 4Gal-T2 and β 4Gal-T3.** J Biol Chem 272: 31979-31991, 1997.
42. Reis CA, Sørensen T, Mandel U, David L, Mirgorodskaya K, Roepstorff P, Kihlberg J, Hansen J-E S, Clausen H: **Development and characterization of an antibody directed to an a-N-Acetyl-D-Galatosamine glycosylated MUC2 peptide.** Glycoconj J 15: 51-62, 1998.
43. Reis CA, David L, Seixas M, Burchell J, Sobrinho-Simoes M: **Expression of fully and under-glycosylated forms of MUC1 mucin in gastric carcinoma.** Int J Cancer 79: 402-410, 1998.
44. Reis CA, David L, Correa P, Carneiro F, Garcia E, de Bolós C, Mandel U, Clausen H, Sobrinho-Simões M: **Intestinal metaplasia of human stomach displays distinct patterns of expression of mucins MUC1, MUC2, MUC5AC and MUC6.** Cancer Res 59: 1003-1007, 1999.
45. Carvalho F, Peixoto A, Steffensen R, Amorim A, David L, Sobrinho-Simões M: **MUC1 gene polymorphism does not explain the different incidence of gastric cancer in Portugal and Denmark.** Ann Hum Genet 63: 187-191, 1999.
46. Carvalho F, David L, Aubert JP, De Bolós C, Reis CA, Gärtner F, Peixoto A, Alves P, Sobrinho-Simões M: **Mucins and mucin-associated carbohydrate antigens expression in gastric carcinoma cell lines.** Virchows Arch 435: 479-485, 1999.
47. Reis CA, David L, Carvalho F, Mandel U, de Bolós C, Mirgorodskaya K, Clausen H, Sobrinho-Simões M: **Immunohistochemical study of the expression of MUC6 mucin and coexpression of other secreted mucins (MUC5AC and MUC2) in human gastric carcinomas.** J Histochem Cytochem 48: 377-388, 2000.

48. Carrilho C, Cantel M, Gouveia P, David L: **Simple mucin-type carbohydrate antigens (Tn, sialosyl-Tn, T and sialosyl-T) and gp 230 mucin-like glycoprotein are candidate markers for neoplastic transformation of the human cervix.** Virchows Arch 437: 173-179, 2000.
49. David L, Silva F, Seruca R, Pinto M, Reis C, Sobrinho-Simões M: Letter to the Editor - **Relationship between mucin core proteins expression and levels of microsatellite instability in gastric carcinoma.** Clin Cancer Res 6: 1909-1916, 2000.
49. Pinto-de-Sousa J, David L, Seixas M, Pimenta A: **Clinicopathologic profiles and prognosis of gastric carcinomas from the cardia, fundus/body and antrum.** Dig Surg 18: 102-110, 2001.
50. Silva F, Carvalho F, Peixoto A, Seixas M, Almeida R, Carneiro F, Mesquita P, Figueiredo C, Nogueira C, Swallow DM, Amorim A, David L: **MUC1 gene polymorphism in the gastric carcinogenesis pathway.** Eur J Hum Genet 9: 548-552, 2001.
55. Silva E, Teixeira A, David L, Carneiro F, Reis CA, Sobrinho-Simões J, Serpa J, Veerman E, Bolscher J, Sobrinho-Simões M: **Mucins as key molecules for the classification of intestinal metaplasia of the stomach.** Virchows Arch 440: 311-317, 2002.
56. Pinto-de-Sousa J, David L, Reis CA, Gomes R, Silva L, Pimenta A: **Mucins MUC1, MUC2, MUC5AC and MUC6 expression in the evaluation of differentiation and clinico-pathological behaviour of gastric carcinoma.** Virchows Arch 440: 304-310, 2002.
57. Teixeira A, David L, Reis CA, Costa J, Sobrinho-Simões M: **Expression of mucins (MUC1, MUC2, MUC5AC and MUC6) and of type 1 Lewis antigens in cases with and without Helicobacter pylori colonization in metaplastic glands of the human stomach.** J Pathol 197: 37-43, 2002.
58. Pinto-de-Sousa J, David L, Almeida R, Leitão D, Preto JR, Seixas M, Pimenta A: **c-erbB2 expression is associated with tumour location and venous invasion and influences survival of patients with gastric carcinoma.** Int J Surg Pathol 10: 247-256, 2002.
59. Almeida R, Silva E, Silva F, Silberg DG, Wang J, de Bolós C, David L: **Expression of intestine-specific transcription factors, CDX1 and CDX2, in intestinal metaplasia and gastric carcinomas.** J. Pathol 199: 36-40, 2003.
60. Mesquita P, Peixoto AJ, Seruca R, Hanski C, Almeida R, Silva F, Reis C, David L: **Role of site-specific promoter hypomethylation in aberrant MUC2 mucin expression in mucinous gastric carcinomas.** Cancer Letters 28: 129-136, 2003.
61. Castro P, David L, Carneiro F, Fonseca E, Soares P, Sobrinho-Simões M: **Vascular invasion in thyroid and gastric carcinomas.** Ultrastruct Pathol 27: 41-48, 2003.
62. Marcos NT, Cruz A, Silva F, Almeida R, David L, Mandel U, Clausen H, Mensdorff-Pouilly S, Reis CA: **Polypeptide GalNAc-transferases, ST6GalNAc-transferase I, and ST3Gal-transferase I expression in gastric carcinoma cell lines.** J Histochem Cytochem 51: 761-771, 2003.

63. Serpa J, Almeida R, Oliveira C, Silva F, Silva E, Reis C, Le Pendu J, Oliveira G, Cunha-Ribeiro LM, David L: **Lewis enzyme (a1-3/4 fucosyltransferase) polymorphisms do not explain the Lewis phenotype in the gastric mucosa of a portuguese population.** J Hum Genet 48: 183-189, 2003.
64. Silva F, Carvalho F, Peixoto A, Teixeira A, Almeida R, Reis C, Bravo LE, Realpe L, Correa P, David L: **MUC1 polymorphism confers increased risk for intestinal metaplasia in a Colombian population with chronic gastritis.** Eur J Hum Genet 11:380-384, 2003.
65. Carrilho C, Gouveia P, Cantel M, Alberto M, Buane L, David L: **Characterization of human papillomavirus infection, p53 and Ki-67 expression in cervix cancer of Mozambican women.** Pathol Res Pract 199: 303-311, 2003.
66. Simpson RHW, Prasad A, Lewis JE, Skálová A, David L: **Mucin-rich variant of salivary duct carcinoma: a clinicopathological and immunohistochemical study of four cases.** Am J Surg Pathol 27: 1070-1079, 2003.
67. Mesquita P, Jonckheere N, Almeida R, Ducourouble M-P, Serpa J, Silva E, Pigny P, Silva F, Reis CA, Silberg D, Van Seuning I, David L: **Human MUC2 mucin gene is transcriptionally regulated by CDX homeodomain proteins in gastrointestinal carcinoma cell lines.** J Biol Chem 278: 51549-51556, 2003.
68. Pinto de Sousa J, Silva F, David L, Leitão D, Seixas M, Pimenta A, Cardoso-de-Oliveira M: **Clinicopathological significance and survival influence of p53 protein expression in gastric carcinoma.** Histopathol 44: 323-331, 2004.
69. Pinto de Sousa J, Reis CA, David L, Pimenta A, Cardoso-de-Oliveira M: **MUC5B Expression in gastric carcinoma: relationship with clinico-pathological parameters and with expression of mucins MUC1, MUC2, MUC5AC AND MUC6.** Virchows Arch 444:224-230, 2004.
70. Nogueira AM, Marques T, Soares PC, David L, Reis CA, Serpa J, Queiroz DM, Rocha GA, Rocha AC: **Lewis antigen expression in gastric mucosa of children: relationship with Helicobacter pylori infection.** Pediatr Gastroenterol Nutr 38: 85-91, 2004.
71. Carrilho C, Alberto M, Buane L, David L: **Keratins 8, 10, 13, and 17 are useful markers in the diagnosis of human cervix carcinomas.** Hum Pathol 35: 546-551, 2004.
72. Reis CA, Teixeira A, David L: Letter to the Editor - **Role of mucins in Helicobacter pylori adhesion to the gastric mucosa.** Helicobacter 9: 181, 2004.
73. Mesquita P, Almeida R, van Seuning I, David L: Letter to the Editor - **Coordinated expression of MUC2 and CDX-2 in mucinous carcinomas of the lung can be explained by the role of CDX-2 as transcriptional regulator of MUC2.** Am J Surg Pathol 28: 1254-1255, 2004.
74. Serpa J, Mendes N, Reis CA, Santos-Silva F, Almeida R, Le Pendu J, David L: **Two new FUT2 missense polymorphisms, 739G>A and 839T>C, are partly responsible for non-secretor status in a Caucasian population from Northern Portugal.** Biochem J 383: 469-474, 2004.

75. Serpa J, Lunet N, Mendes N, Barros H, David L: Letter to the Editor - **Lewis and secretor status and *Helicobacter pylori* eradication.** Epidemiol Infect 132: 997-998, 2004.
76. Carrilho C, Cirnes L, Alberto M, Buane L, Mendes N, David L: **Distribution of HPV infection and tumor markers in cervical intraepithelial neoplasia from cone biopsies of Mozambican women.** J Clin Pathol 58: 61-68, 2005.
77. Santos-Silva F, Fonseca A, Caffrey T, Carvalho F, Mesquita P, Reis C, Almeida R, David L, Hollingsworth MA: **Thomsen-Friedenreich antigen expression in gastric carcinomas is associated with MUC1 mucin VNTR polymorphism.** Glycobiology 15:511-517, 2005.
78. Marques T, David L, Reis CA, Nogueira A: **Topographic expression of MUC5AC and MUC6 in the gastric mucosa infected by *Helicobacter pylori* and in associated diseases.** Pathol Res Pract 201: 665-672, 2005.
79. Silva LF, Ribeiro D, David L, Felino A: **Oral osteosarcoma: case report.** Oral Oncology 41: 195-197, 2005.
80. Almeida R, Almeida J, Shoshkes M, Mendes N, Mesquita P, Silva E, Van seuningen I, Reis CA, Santos-Silva F, David L: **OCT-1 is over-expressed in intestinal metaplasia and intestinal gastric carcinomas and bind to, but does not transactivate, CDX2 in gastric cells.** J Pathol 207: 396-401, 2005.
81. Mesquita P, Almeida R, Lunet N, Reis CA, Santos-Silva F, Serpa J, Van Seuningen I, Barros H, David L: **Metaplasia – a transdifferentiation process that facilitates cancer development. The model of gastric intestinal metaplasia.** Critical Rev Oncogenesis 12: 3-26, 2006.
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84. Ferreira B, Marcos NT, David L, Nakayama J, Reis CA: **Terminal alpha1,4-linked N-acetylglucosamine in *Helicobacter pylori*-associated intestinal metaplasia of the human stomach and gastric carcinoma cell lines.** J Histochem Cytochem 54: 585-591, 2006.
85. Lunet N, Valbuena C, Vieira AL, Lopes C, Lopes C, David L, Carneiro F, Barros H: **Fruit and vegetable consumption and gastric cancer by location and histological type: case-control and meta-analysis.** Eur J Cancer Prev 16:312-327, 2007.
86. Peleteiro B, Lunet N, Santos-Silva F, David L, Figueiredo C, Barros H: **Short mucin 1 alleles are associated with low virulent *H pylori* strains infection.** World J Gastroenterol 13:1885-1886, 2007.
87. Peleteiro B, Lunet N, Figueiredo C, Carneiro F, David L, Barros H: **Smoking, *Helicobacter pylori* virulence, and type of intestinal metaplasia in Portuguese males.** Cancer Epidemiol Biomarkers Prev 16:322-326, 2007.

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89. Barros R, Pereira B, Duluc I, Azevedo M, Mendes N, Camilo V, Jácobs RJ, Paulo P, Santos-Silva F, van Seuning I, van den Brink GR, David L, Freund J-N, Almeida R: **Key elements of the BMP/SMAD pathway co-localize with CDX2 in intestinal metaplasia and regulate CDX2 expression in human gastric cell lines.** J Pathol 215: 411-420, 2008.
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91. Barros R, Marcos N, Reis CA, De Luca A, David L, Almeida R: Letter to the Editor - **CDX2 expression is induced by Helicobacter pylori in AGS cells.** Scand J Gastroenterol 8:1-2, 2008
92. Silva L, David L, Ribeiro D, Felino A: **Odontomas: A clinicopathologic study in a Portuguese population.** Quintessence Int 40: 61-72, 2009.
93. Carrilho C, Modcoicar P, Cunha L, Ismail M, Guisseve A, Lorenzoni C, Fernandes F, Peleteiro B, Almeida R, Figueiredo C, David L, Lunet N: **Prevalence of Helicobacter pylori infection, chronic gastritis and intestinal metaplasia in Mozambican dyspeptic patients.** Virchows Arch 454: 153-169, 2009.
94. Barros R, Mendes N, Howe JR, Resi CA, de Bolos C, Carneiro F, David L, Almeida R: **Juvenile polyps have gastric differentiation with MUC5AC expression and downregulation of CDX2 and SMAD4.** Histochem Cell Biol 131: 765-772, 2009.
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97. Peleteiro B, Carrilho C, Modcoicar P, Cunha L, Ismail M, Guisseve A, Lorenzoni C, Fernandes F, Almeida R, Figueiredo C, David L, Lunet N: Letter to the Editor - **Chronic atrophic gastritis, intestinal metaplasia, Helicobacter pylori virulence, IL1RN polymorphisms, and smoking in dyspeptic patients from Mozambique and Portugal.** Helicobacter 14: 306-308, 2009.
98. Magalhães A, Gomes J, Ismail MN, Haslam SM, Mendes N, Osório H, David L, Lependu J, Haas R, Dell A, Borén T, Reis CA: **Fut2-null mice display an altered glycosylation profile and impaired BabA-mediated Helicobacter pylori adhesion to gastric mucosa.** Glycobiology 19: 1525-1536, 2009.
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