Publications 2020

Pathology & Data Analytics

★ = 3 Star Paper ★ = 4 Star Paper

UNIVERSITY OF LEEDS

EJSO European Journal of Surgical Oncology

The sigmoid take-off: An anatomical imaging definition of the rectum validated on specimen analysis

Nigel D'Souza[1], Amy Lord[2], Annabel Shaw[2], Anisha Patel[3], Svetlana Balyasnikova[4], Vera Tudyka[5], Muti Abulafi[6], Brendan Moran[7], Shahnawaz Rasheed[4], Paris Tekkis[4], Monica Terlizzo[3], Nick West[8], Philip Quirke[8], Gina Brown[4]

OXFORD ★

JNCI J Natl Cancer Inst (2021) 113(1): djaa051
doi: 10.1093/jnci/djaa051
First published online April 23, 2020
Article

Computational Image Analysis of T-Cell Infiltrates in Resectable Gastric Cancer: Association with Survival and Molecular Subtypes

Benjamin R. Challoner, BMBS[1,†] Katharina von Loga, MD[1,2,†] Andrew Woolston, PhD[1] Beatrice Griffiths, PhD,[1] Nanna Sivamanoharan, BSc[1,2] Maria Semiannikova, BSc[1] Alice Newey, BSc,[1] Louise J. Barber, PhD[1] David Mansfield, BSc,[3] Lindsay C. Hewitt, PhD[4] Yuichi Saito, PhD[5] Naser Davarzani, PhD,[4,6] Maureen Starling, MD[7] Alan Melcher, PhD[8] Heike I. Grabsch, PhD[4,9,‡] Marco Gerlinger, MD[1,7,*,‡]

Journal of Statistical Computation and Simulation

Properties and approximate *p*-value calculation of the Cramer test

Alison Telford, Charles C. Taylor, Henry M. Wood & Arief Gusnanto
Pages 1965-1981 | Received 22 Oct 2019, Accepted 08 Apr 2020, Published online: 24 Apr 2020

The Journal of Clinical Investigation — RESEARCH ARTICLE ★

Genomic and epigenomic *EBF1* alterations modulate *TERT* expression in gastric cancer

Manjie Xing,[1,2,3] Wen Fong Ooi,[2] Jing Tan,[4,5] Aditi Qamra,[2,3] Po-Hsien Lee,[6] Zhimei Li,[5] Chang Xu,[1,6] Nisha Padmanabhan,[1] Jing Quan Lim,[7] Yu Amanda Guo,[8] Xiaosai Yao,[9] Mandoli Amit,[1] Ley Moy Ng,[6] Taotao Sheng,[1,10] Jing Wang,[1] Kie Kyon Huang,[1] Chukwuemeka George Anene-Nzelu,[11,12] Shamaine Wei Ting Ho,[1,6] Mohana Ray,[13] Lijia Ma,[13] Gregorio Fazzi,[14] Kevin Junliang Lim,[1] Giovani Claresta Wijaya,[5] Shenli Zhang,[1] Tannistha Nandi,[2] Tingdong Yan,[1] Mei Mei Chang,[8] Kakoli Das,[1] Zul Fazreen Adam Isa,[2] Jeanie Wu,[1] Polly Suk Yean Poon,[2] Yue Ning Lam,[2] Joyce Suling Lin,[2] Su Ting Tay,[1] Ming Hui Lee,[1] Angie Lay Keng Tan,[1] Xuewen Ong,[1] Kevin White,[13,15] Steven George Rozen,[1,16] Michael Beer,[17,18] Roger Sik Yin Foo,[11,12] Heike Irmgard Grabsch,[14,19] Anders Jacobsen Skanderup,[8] Shang Li,[1,20] Bin Tean Teh,[1,5,6,9,16,20] and Patrick Tan[1,2,6,16,21,22,23]

THE LANCET Oncology ★
Volume 21, Issue 5, May 2020, Pages e252–e264

Review
Outcome measures in multimodal rectal cancer trials

Prof Emmanouil Fokas MD[a, b, c*], Robert Glynne-Jones MRCP[d*], Ane Appelt PhD[e], Prof Regina Beets-Tan MD[f, i], Prof Geerard Beets MD[g, i], Prof Karin Haustermans[j], Prof Corrie Marijnen MD[h], Prof Bruce D Minsky MD[k], Ethan Ludmir MD[k], Prof Phil Quirke FRCPath[l], Prof David Sebag-Montefiore FRCR[e], Prof Julio Garcia-Aguilar MD[m], Prof Maria Antonietta Gambacorta MD[n], Prof Vincenzo Valentini MD[n], Prof Marc Buyse ScD[o, p, †], Prof Claus Rödel MD[a, b, c, †]

nature ★

Article

Mutational signature in colorectal cancer caused by genotoxic *pks*⁺ *E. coli*

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Published online: 27 February 2020
Check for updates

Cayetano Pleguezuelos-Manzano[1,2,27], Jens Puschhof[1,2,27], Axel Rosendahl Huber[2,3,27], Arne van Hoeck[2,4], Henry M. Wood[5], Jason Nomburg[6,7,8], Carino Gurjao[7,8], Freek Manders[2,3], Guillaume Dalmasso[9], Paul B. Stege[10], Fernanda L. Paganelli[10], Maarten H. Geurts[1,2], Joep Beumer[1], Tomohiro Mizutani[1,2], Yi Miao[11,12,13], Reinier van der Linden[1], Stefan van der Elst[1], Genomics England Research Consortium*, K. Christopher Garcia[11,12,13], Janetta Top[10], Rob J. L. Willems[10], Marios Giannakis[7,8], Richard Bonnet[9,14], Phil Quirke[5], Matthew Meyerson[7,8,15,16], Edwin Cuppen[2,4,17,18], Ruben van Boxtel[2,3] & Hans Clevers[1,2,3]

THE JOURNAL OF Pathology — A Journal of The Pathological Society — Understanding Disease

original paper

The CD151-midkine pathway regulates the immune microenvironment in inflammatory breast cancer ★

Steven Hayward, Mariam Gachehiladze, Nahla Badr, Regina Andrijes, Guerman Molostvov, Liliia Paniushkina, Barbora Sopikova, Zuzana Slobodová, Giorgi Mgebrishvili, Nisha Sharma, Yoshiya Horimoto, Dominic Burg, Graham Robertson, Andrew Hanby, Fiona Hoar, Daniel Rea, Bedrich L. Eckhardt, Naoto T Ueno, Irina Nazarenko, Heather M Long, Steven van Laere, Abeer M Shaaban, Fedor Bezditchevski ... See fewer authors

ESMO — ANNALS OF ONCOLOGY

ORIGINAL ARTICLE

Clinical and molecular characteristics and treatment outcomes of advanced right-colon, left-colon and rectal cancers: data from 1180 patients in a phase III trial of panitumumab with an extended biomarker panel

J. F. Seligmann[1*], F. Elliott[1], S. Richman[1], G. Hemmings[1], S. Brown[1], B. Jacobs[1], C. Williams[1], S. Tejpar[2], J. H. Barrett[1], P. Quirke[1] & M. Seymour[1]

[1]Leeds Institute of Medical Research at St James's, University of Leeds, Leeds; [2]Leeds Institute of Clinical Trials Research, University of Leeds, Leeds, UK; [3]Molecular Digestive Oncology Unit, KU Leuven, Leuven, Belgium

BJC British Journal of Cancer — www.nature.com/bjc

ARTICLE
Clinical Study

Survival and disease characteristics of de novo versus recurrent metastatic breast cancer in a cohort of young patients

Hayley S. McKenzie[1], Tom Maishman[2], Peter Simmonds[1], Lorraine Durcan[2] POSH Steering Group, Diana Eccles[1] and Ellen Copson[1]

THE POSH STEERING GROUP
Douglas G. Altman[1], Louise Jones[1], Gareth Evans[1], Alastair M. Thompson[6], Paul Pharaoh[7], Andrew Hanby[8], Sunil Lakhani[9], Ros Eeles[10], Fiona J. Gilbert[11], Hisham Hamed[12], Shirley Hodgson[13], Peter Simmonds[14] and Diana Eccles[15]

The Journal of Pathology: Clinical Research
J Pathol Clin Res October 2020; **6**: 273–282
Published online 27 June 2020 in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/cjp2.170

ORIGINAL ARTICLE

Hypothesis-free deep survival learning applied to the tumour microenvironment in gastric cancer

Armin Meier[1], Katharina Nekolla[1], Lindsay C Hewitt[2], Sophie Earle[3], Takaki Yoshikawa[4], Takashi Oshima[5], Yohei Miyagi[6], Ralf Huss[7], Günter Schmidt[1*] and Heike I Grabsch[2,3†]

Breast Cancer Research and Treatment (2020) 183:49–59
https://doi.org/10.1007/s10549-020-05757-5

PRECLINICAL STUDY

Levels of different subtypes of tumour-infiltrating lymphocytes correlate with each other, with matched circulating lymphocytes, and with survival in breast cancer

Rashmi Verma[1,2] · Andrew M. Hanby[1,3] · Kieran Horgan[4] · Eldo T. Verghese[3] · Milene Volpato[1] · Clive R. Carter[5] · Thomas A. Hughes[1]

Gastroenterology 2020;159:1406–1416

Clinical-Grade Detection of Microsatellite Instability in Colorectal Tumors by Deep Learning

Amelie Echle,[1] Heike Irmgard Grabsch,[2,3] Philip Quirke,[3] Piet A. van den Brandt,[4] Nicholas P. West,[3] Gordon G. A. Hutchins,[3] Lara R. Heij,[5,6,7] Xiuxiang Tan,[5,6,7] Susan D. Richman,[3] Jeremias Krause,[1] Elizabeth Alwers,[5] Josien Jenniskens,[4] Kelly Offermans,[4] Richard Gray,[1] Hermann Brenner,[8,10,11] Jenny Chang-Claude,[1,12,13] Christian Trautwein,[1] Alexander T. Pearson,[14] Peter Boor,[7] Tom Luedde,[1,15] Nadine Therese Gaisa,[7] Michael Hoffmeister,[8] and Jakob Nikolas Kather[1,3,11,16]

European Journal of Cancer
Volume 137, September 2020, Pages 45-56

Gastroenterology ★

European guidelines from the EHTG and ESCP for Lynch syndrome: an updated third edition of the Mallorca guidelines based on gene and gender

T. T. Seppälä[1,2], A. Latchford[3,4], I. Negoi[11], A. Sampaio Soares[12], R. Jimenez-Rodriguez[13], L. Sánchez-Guillén[14], D. G. Evans[5], N. Ryan[6,7], E. J. Crosbie[6], M. Dominguez-Valentin[15], J. Burn[4], M. Kloor[16,17], M. von Knebel Doeberitz[16,17], F. J. B. van Duijnhoven[18], P. Quirke[3], J. R. Sampson[19], P. Møller[11,19] and G. Möslein[20,19], on behalf of the European Hereditary Tumour Group (EHTG) and European Society of Coloproctology (ESCP)

Histopathology

Original Article

Digital pathology for primary diagnosis of screen-detected breast lesions – experimental data, validation and experience from four centres

Bethany Williams, Andrew Hanby, Rebecca Millican-Slater, Eldo Verghese, Anju Nijhawan, Imogen Wilson, Justinas Besusparis, David Clark, David Snead, Emad Rakha, Darren Treanor

Gastric Cancer (2020) 23:765–779
https://doi.org/10.1007/s10120-020-01086-0

Original Research

Impact of sex and age on chemotherapy efficacy, toxicity and survival in localised oesophagogastric cancer: A pooled analysis of 3265 individual patient data from four large randomised trials (OE02, OE05, MAGIC and ST03)

Avani Athauda[a], Matthew Nankivell[b], Ruth E. Langley[b], Derek Alderson[c], William Allum[a], Heike I. Grabsch[d, e], Naureen Starling[a], Ian Chau[a], David Cunningham[a, *]

Molecular Oncology — FEBS PRESS

A robust multiplex immunofluorescence and digital pathology workflow for the characterisation of the tumour immune microenvironment

Amélie Viratham Pulsawatdi[1], Stephanie G. Craig[1], Victoria Bingham[1], Kris McCombe[1], Matthew P. Humphries[1], Seedevi Seneviratne[1], Susan D. Richman[2], Phil Quirke[2], Leticia Campo[3], Enric Domingo[2], Timothy S. Maughan[1], Jacqueline A. James[1,4] and Manuel Salto-Tellez[1,5,6]

IJC International Journal of Cancer — UICC

Cancer Epidemiology | Open Access

Addressing the variation in adjuvant chemotherapy treatment for colorectal cancer: Can a regional intervention promote national change?

John C. Taylor, Daniel Swinson, Jenny F. Seligmann, Rebecca J. Birch, Alice Dewdney, Victoria Brown, Joanna Dent, Hannah L. Rossington, Philip Quirke, Eva J. A. Morris, YCR BCIP Study Group

Esophagus (2021) 18:100–110
https://doi.org/10.1007/s10388-020-00777-y

Gut — Artificial intelligence/machine learning

OPEN ACCESS

Original research

Image-based consensus molecular subtype (imCMS) classification of colorectal cancer using deep learning

Korsuk Sirinukunwattana,[1,2,3] Enric Domingo,[4] Susan D Richman,[5] Keara L Redmond,[6] Andrew Blake,[4] Clare Verrill,[3,7,8] Simon J Leedham,[9,10] Aikaterini Chatzipli,[11] Claire Hardy,[11] Celina M Whalley,[12] Chieh-hsi Wu,[13] Andrew D Beggs,[14] Ultan McDermott,[11] Philip D Dunne,[15] Angela Meade,[16] Steven M Walker,[17] Graeme I Murray,[18] Leslie Samuel,[19] Matthew Seymour,[20] Ian Tomlinson,[12,21] Phil Quirke,[5] Timothy Maughan,[22] Jens Rittscher,[1,2,3,23] Viktor H Koelzer,[4,24,25] On behalf of S:CORT consortium

Gut: first published as 10.1136/gutjnl-2-

Journal of Medical Imaging

Display evaluation for primary diagnosis using digital pathology

Emily L Clarke[1 2], Craig Munnings[3], Bethany Williams[1 2], David Brettle[3], Darren Treanor[1 2 4]

IJC International Journal of Cancer — UICC

Cancer Epidemiology | Open Access

Addressing the variation in adjuvant chemotherapy treatment for colorectal cancer: Can a regional intervention promote national change?

John C. Taylor, Daniel Swinson, Jenny F. Seligmann, Rebecca J. Birch, Alice Dewdney, Victoria Brown, Joanna Dent, Hannah L. Rossington, Philip Quirke, Eva J. A. Morris, YCR BCIP Study Group

Gut: first published as 10.1136/gutjnl-2-

Gut

Spatial profiling of gastric cancer patient-matched primary and locoregional metastases reveals principles of tumour dissemination ★

Raghav Sundar,[1,2,3,4] Drolaiz HW Liu,[5] Gordon GA Hutchins,[6] Hayley L Slaney,[6] Arnaldo NS Silva,[6,7] Jan Oosting,[8] Jeremy D Hayden,[9] Lindsay C Hewitt,[5] Cedric CY Ng,[10] Amrita Mangalvedhekar,[2] Sarah B Ng,[11] Iain BH Tan,[11,12] Patrick Tan,[2,3,11,13,14] Heike I Grabsch[5,6]

International Journal of Obesity (2020) 44:1028–1040
https://doi.org/10.1038/s41366-020-0532-8

Breast Cancer Research and Treatment (2020) 183:49–59
https://doi.org/10.1007/s10549-020-05757-5

PRECLINICAL STUDY

Levels of different subtypes of tumour-infiltrating lymphocytes correlate with each other, with matched circulating lymphocytes, and with survival in breast cancer

Rashmi Verma[1,2] · Andrew M. Hanby[1,3] · Kieran Horgan[4] · Eldo T. Verghese[3] · Milene Volpato[1] · Clive R. Carter[5] · Thomas A. Hughes[1]

Gut ★

Histopathologist features predictive of diagnostic concordance at expert level among a large international sample of pathologists diagnosing Barrett's dysplasia using digital pathology

Myrtle J van der Wel[# 1], Helen G Coleman[# 2], Jacques J G H M Bergman[3], Marnix Jansen[4], Sybren L Meijer[5], BOLERO working group

Diseases of the Esophagus (2020)33,1–8
DOI: 10.1093/dote/doaa098

DISEASES OF THE ESOPHAGUS — ISDE The International Society for Diseases of the Esophagus

Original Article

Histological intratumoral heterogeneity in pretreatment esophageal cancer biopsies predicts survival benefit from neoadjuvant chemotherapy: results from the UK MRC OE02 trial

Naser Davarzani,[1,2,†] Lindsay C. Hewitt,[1,3,†] Matthew D. Hale,[3] Veerle Melotte,[1,4] Matthew Nankivell,[5] Gordon G. A. Hutchins,[3] David Cunningham,[6] William H. Allum,[7] Ruth E. Langley,[5] Shahab Jolani,[8,‡] Heike I. Grabsch,[1,3,‡]

BJC British Journal of Cancer — www.nature.com/bjc

ARTICLE
Translational Therapeutics

Inhibition of interferon-signalling halts cancer-associated fibroblast-dependent protection of breast cancer cells from chemotherapy

Robyn V. Broad[1], Stacey J. Jones[1,2], Melina C. Teske[1], Laura M. Wastall[1], Andrew M. Hanby[1,3], James L. Thorne[4] and Thomas A. Hughes[1]

BJC British Journal of Cancer

Cellular and Molecular Biology

Immune status is prognostic for poor survival in colorectal cancer patients and is associated with tumour hypoxia

Stephanie G. Craig, Matthew P. Humphries, Matthew Alderdice, Victoria Bingham, Susan D. Richman, Maurice B. Loughrey, Helen G. Coleman, Amelie Viratham-Pulsawatdi, Kris McCombe, Graeme I. Murray, Andrew Blake, Enric Domingo, James Robineau, Louise Brown, David Fisher, Matthew T. Seymour, Phil Quirke, Peter Bankhead, Stephen McQuaid, Mark Lawler, Darragh G. McArt, Tim S. Maughan, Jacqueline A. James & Manuel Salto-Tellez

THE LANCET Gastroenterology & Hepatology ★

Radical surgery versus organ preservation via short-course radiotherapy followed by transanal endoscopic microsurgery for early-stage rectal cancer (TREC): a randomised, open-label feasibility study

*Simon P Bach, Alexandra Gilbert, Kristian Brock, Stephen Korsgen, Ian Geh, James Hill, Talvinder Gill, Paul Hainsworth, Matthew G Tutton, Jim Khan, Jonathan Robinson, Mark Steward, Christopher Cunningham, Bruce Levy, Alan Beveridge, Kelly Handley, Manjinder Kaur, Natalie Marchevsky, Laura Magill, Ann Russell, Philip Quirke, Nicholas P West, David Sebag-Montefiore, on behalf of the TREC collaborators**

BJC British Journal of Cancer — www.nature.com/bjc

ARTICLE
Epidemiology

Pathological features of 11,337 patients with primary ductal carcinoma in situ (DCIS) and subsequent events: results from the UK Sloane Project

Abeer M. Shaaban,[1] Bridget Hilton,[2] Karen Clements,[2] Elena Provenzano,[4] Shan Cheung,[2] Matthew G. Wallis,[4] Elinor Sawyer,[3] Jeremy S. Thomas,[5] Andrew M. Hanby,[1] Sarah E. Pinder,[6] Alastair M. Thompson[5] and on behalf of the Sloane Project Steering Committee

Analyst — ROYAL SOCIETY OF CHEMISTRY

PAPER — View Article Online

Developing a Raman spectroscopy-based tool to stratify patient response to pre-operative radiotherapy in rectal cancer†

Chloe J. Kirkby, Julia Gala de Pablo, Emma Tinkler-Hundal, Henry M. Wood, Stephen D. Evans and Nicholas P. West

Cite this: *Analyst*, 2021, **146**, 581

OPEN

Dynamics of picosecond laser ablation for surgical treatment of colorectal cancer

R. J. Beck,[a] J. Bitharas,[b] D. P. Hand,[b] T. Maisey,[c] A. J. Moore,[b] M. Shires,[c] R. R. Thomson,[b] N. P. West,[d] D. G. Jayne[c] & J. D. Shephard[b]

Colon and Rectal Surgery

CME versus D3 Dissection for Colon Cancer

Hirotoshi Kobayashi[1], Nicholas P West[2]

Histopathology

ORIGINAL ARTICLE

Is Medullary Carcinoma of the Colon Underdiagnosed ? An Audit of Poorly Differentiated Colorectal Carcinomas in a large NHS Teaching Hospital.

N Scott, NP West, A Cairns, O Rotimi

JJCO Japanese Journal of Clinical Oncology

Japanese Journal of Clinical Oncology, 2021, 51(1):145–155
doi: 10.1093/jjco/hyaa115
Advance Access Publication Date: 20 November 2020
Clinical Trial Note

Clinical Trial Note

Study protocol for an International Prospective Observational Cohort Study for Optimal Bowel Resection Extent and Central Radicality for Colon Cancer (T-REX study)

Manabu Shiozawa[1], Hideki Ueno[2,*], Akio Shiomi[3], Nan Kyu Kim[4], Jin Cheon Kim[5], Petr Tsarkov[6], Robert Grützmann[7], Audrius Dulskas[8], Jin-Tung Liang[9], Narimantas Samalavičius[10,11], Nick West[12] and Kenichi Sugihara[13]

BJC British Journal of Cancer — www.nature.com/bjc

ARTICLE
Cellular and Molecular Biology

Immune status is prognostic for poor survival in colorectal cancer patients and is associated with tumour hypoxia

Stephanie G. Craig,[1] Matthew P. Humphries,[1] Matthew Alderdice,[1] Victoria Bingham,[1] Susan D. Richman,[2] Maurice B. Loughrey[3,4], Helen G. Coleman,[4] Amelie Viratham-Pulsawatdi,[1] Kris McCombe[1], Graeme I. Murray[5], Andrew Blake[6], Enric Domingo[6], James Robineau[6], Louise Brown[7], David Fisher[7], Matthew T. Seymour[8], Phil Quirke[9], Peter Bankhead[1], Stephen McQuaid[1,3], Mark Lawler[1], Darragh G. McArt[1], Tim S. Maughan[6], Jacqueline A. James[1,3] and Manuel Salto-Tellez[1,3]

Turkish Journal of Colorectal Disease
Türk Kolorektal Hastalıklar Dergisi

What is the Role of the Neutrophil: Lymphocyte Ratio in Colorectal Cancer?

Kolorektal Kanserde Nötrofil:Lenfosit Oranının Rolü Nedir?

Debamita Bhattacharjee, Philip Quirke

International Journal of Obesity (2020) 44:1028–1040
https://doi.org/10.1038/s41366-020-0532-8

ARTICLE
Epidemiology and Population Health

Evidence from big data in obesity research: international case studies

Emma Wilkins[1] · Ariadni Aravani[1] · Amy Downing[1] · Adam Drewnowski[2] · Claire Griffiths[3] · Stephen Zwolinsky[3] · Mark Birkin[4] · Seraphim Alvanides[5,6] · Michelle A. Morris[1]

Journal of Pathology Informatics — Publication of Association for Pathology Informatics, USA

TissueWand, a Rapid Histopathology Annotation Tool

Martin Lindvall[1 2 3], Alexander Sanner[1], Fredrik Petré[1], Karin Lindman[4 5], Darren Treanor[2 6 7], Claes Lundström[1 2 3], Jonas Löwgren[3]

nature cancer ★

Pan-cancer image-based detection of clinically actionable genetic alterations

Jakob Nikolas Kather, Lara R. Heij, Heike I. Grabsch, Chiara Loeffler, Amelie Echle, Hannah Sophie Muti, Jeremias Krause, Jan M. Niehues, Kai A. J. Sommer, Peter Bankhead, Loes F. S. Kooreman, Jefree J. Schulte, Nicole A. Cipriani, Roman D. Buelow, Peter Boor, Nadina Ortiz-Brüchle, Andrew M. Hanby, Valerie Speirs, Sara Kochanny, Akash Patnaik, Andrew Srisuwananukorn, Hermann Brenner, Michael Hoffmeister, Piet A. van den Brandt, Dirk Jäger, Christian Trautwein, Alexander T. Pearson & Tom Luedde -Show fewer authors

Nat Commun. 2020; 11: 3353.
Published online 2020 Jul 3. doi. 10.1038/s41467-020-16483-3
PMCID: PMC7335068
PMID: 32620889

Assessment of polygenic architecture and risk prediction based on common variants across fourteen cancers

Yan Dora Zhang,[1,2] Amber N. Hurson,[3,4] Haoyu Zhang,[3,5] Parichoy Pal Choudhury,[3] Douglas F. Easton,[6,7] Roger L. Milne,[8,9,10] Jacques Simard,[11] Per Hall,[12,13] Kyriaki Michailidou,[7,14] Joe Dennis,[7] Marjanka K. Schmidt,[15,16] Jenny Chang-Claude,[17,18] Puya Gharahkhani,[19] David Whiteman,[20] Peter T. Campbell,[21] Michael Hoffmeister,[22] Mark Jenkins,[9] Ulrike Peters,[23] Li Hsu,[23] Stephen B. Gruber,[24] Graham Casey,[25] Stephanie L. Schmit,[26] Tracy A. O'Mara,[27] Amanda B. Spurdle,[27] Deborah J. Thompson,[7] Ian Tomlinson,[28,29] Immaculata De Vivo,[30,31] Maria Teresa Landi,[3] Matthew H. Law,[19] Mark M. Iles,[32] Florence Demenais,[33] Rajiv Kumar,[34] Stuart MacGregor,[19] D. Timothy Bishop,[35] Sarah V. Ward,[36] Melissa L. Bondy,[37] Richard Houlston,[38] John K. Wiencke,[39] Beatrice Melin,[40] Jill Barnholtz-Sloan,[41] Ben Kinnersley,[38] Margaret R. Wrensch,[39] Christopher I. Amos,[42] Ravigan J. Hung,[43] Paul Brennan,[44] James McKay,[44] Neil E. Caporaso,[3] Sonia I. Berndt,[3] Brenda M. Birmann,[30] Nicola J. Camp,[45] Peter Kraft,[46] Nathaniel Rothman,[3] Susan L. Slager,[47] Andrew Berchuck,[48] Paul D. P. Pharoah,[6,7] Thomas A. Sellers,[26] Simon A. Gayther,[49] Celeste L. Pearce,[24,50] Ellen L. Goode,[51] Joellen M. Schildkraut,[52] Kirsten B. Moysich,[53] Laufey T. Amundadottir,[54] Eric J. Jacobs,[21] Alison P. Klein,[55] Gloria M. Petersen,[51] Harvey A. Risch,[56] Rachel Z. Stolzenberg-Solomon,[3] Brian M. Wolpin,[57] Donghui Li,[58] Rosalind A. Eeles,[59] Christopher A. Haiman,[24] Zsofia Kote-Jarai,[59] Fredrick R. Schumacher,[60] Ali Amin Al Olama,[61,62] Mark P. Purdue,[3] Ghislaine Scelo,[44] Marlene D. Dalgaard,[63,64] Mark H. Greene,[65] Tom Grotmol,[66] Peter A. Kanetsky,[26] Katherine A. McGlynn,[3] Katherine L. Nathanson,[67] Clare Turnbull,[38] Fredrik Wiklund,[68] Breast Cancer Association Consortium (BCAC), Barrett's and Esophageal Adenocarcinoma Consortium (BEACON), Colon Cancer Family Registry (CCFR), Transdisciplinary Studies of Genetic Variation in Colorectal Cancer (CORECT), Endometrial Cancer Association Consortium (ECAC), Genetics and Epidemiology of Colorectal Cancer Consortium (GECCO), Melanoma Genetics Consortium (GenoMEL), Glioma International Case-Control Study (GICC), International Lung Cancer Consortium (ILCCO), Integrative Analysis of Lung Cancer Etiology and Risk (INTEGRAL) Consortium, International Consortium of Investigators Working on Non-Hodgkin's Lymphoma Epidemiologic Studies (InterLymph), Ovarian Cancer Association Consortium (OCAC), Oral Cancer GWAS, Pancreatic Cancer Case-Control Consortium (PanC4), Pancreatic Cancer Cohort Consortium (PanScan), Prostate Cancer Association Group to Investigate Cancer Associated Alterations in the Genome (PRACTICAL), Renal Cancer GWAS, Testicular Cancer Consortium (TECAC), Stephen J. Chanock,[3] Nilanjan Chatterjee,[3#5,58] and Montserrat Garcia-Closas[#3]

Journal of Medical Genetics

Association between a 46-SNP Polygenic Risk Score and melanoma risk in Dutch patients with familial melanoma

Thomas P Potjer,[1] Tara W J van der Grinten,[1] Inge M M Lakeman,[2] Sander H Bollen,[1] Mar Rodríguez-Girondo,[3] Mark M Iles,[4] Jennifer H Barrett,[4] Lambertus A Kiemeney,[5,6] Nelleke A Gruis,[7] Christi J van Asperen,[1] Nienke van der Stoep[1]

Human Molecular Genetics, 2020, Vol. 29, No. 17 2976–2985
doi: 10.1093/hmg/ddaa156
Advance Access Publication Date: 27 July 2020
Association Studies Article

ASSOCIATION STUDIES ARTICLE

Multiplex melanoma families are enriched for polygenic risk

Matthew H. Law[1,*,†], Lauren G. Aoude[2,3,†], David L. Duffy[4], Georgina V. Long[5,6,7,8], Peter A. Johansson[2,1], Antonia L. Pritchard[2,9,||], Kiarash Khosrotehrani[10,11,††], Graham J. Mann[5], Grant W. Montgomery[12,‡‡], Mark M. Iles[13,§], Anne E. Cust[5,6,14,§§], Jane M. Palmer[2,¶¶], Melanoma GWAS Consortium*, Kerwin F. Shannon[5,6,||], Andrew J. Spillane[5,6,††], Jonathan R. Stretch[5,6], John F. Thompson[5,6,‡‡], Robyn P.M. Saw[5,6,§§§], Richard A. Scolyer[5,6,15,¶¶], Nicholas G. Martin[4], Nicholas K. Hayward[2] and Stuart MacGregor[1.§§§]

Colorectal Disease

National variation in pulmonary metastasectomy for colorectal cancer

Hayley M. Fenton[1] | Paul J. Finan[1] | Richard Milton[2] | Michael Shackcloth[3] | John C. Taylor[1] | Tom Treasure[4] | Eva J. A. Morris[5]

Journal of Applied Statistics

Prediction of tumour pathological subtype from genomic profile using sparse logistic regression with random effects

Özlem Kaymaz[a], Khaled Alqahtani[b], Henry M. Wood[c] and Arief Gusnanto[d]

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Research Article

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Investigation of the Causal Association between Long-Chain n-6 Polyunsaturated Fatty Acid Synthesis and the Risk of Type 2 Diabetes: A Mendelian Randomization Analysis

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Journal of Clinical Pathology

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Michele Cummings[1], Henry King[1], James Hurst[1], Georgette Tanner[1], Leah Khazin[1], Phillip Thompson[2], Allan Gray[2], Narinder Gahir[1], Caroline Cartlidge[1], Zara Farooq[1], Keyura Raveendran[1], Katie Allen[1, 2], Olorunda Rotimi[2], Nicolas M Orsi[1]

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Bethany Jill Williams,[1,2] David Brettle,[1,2] Muhammad Aslam,[3] Paul Barrett,[4] Gareth Bryson,[5] Simon Cross,[6] David Snead,[7,8] Clare Verrill,[9] Emily Clarke,[1,2] Alexander Wright,[2] and Darren Treanor[1,2]

Journal of Digital Imaging (2021) 34:105–115
https://doi.org/10.1007/s10278-020-00384-4

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Caroline Bivik Stadler[1,2] · Martin Lindvall[3,4] · Claes Lundström[1,3,4] · Anna Bodén[1,5,6] · Karin Lindman[1,5,6] · Jeronimo Rose[1] · Darren Treanor[1,5,6,7,8] · Johan Blomma[9] · Karin Stacke[3,4] · Nicolas Pinchaud[10] · Martin Hedlund[10] · Filip Landgren[9] · Mischa Woisetschläger[1,9] · Daniel Forsberg[1]

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Clare McGenity, Darren Treanor

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Clinical Investigation

Efficacy of Dose-Escalated Chemoradiation on Complete Tumor Response in Patients with Locally Advanced Rectal Cancer (RECTAL-BOOST): A Phase 2 Randomized Controlled Trial

Alice M. Couwenberg, MD, PhD,* Johannes P.M. Burbach, MD, PhD,[†] Maaike Berbee, MD, PhD,[‡] Miangela M. Lacle, MD, PhD,[§] René Arensman, MD,[‖] Mihaela G. Raicu, MD, PhD,[¶] Frank J. Wessels, MD, PhD,[#] Joanne Verdult, MD,[#] Jeanine Roodhart, MD, PhD,** Onne Reerink, MD, PhD,[††] Sieske Hoendervangers, MD,* Jeroen Buijsen, MD, PhD,[‡] Heike I. Grabsch, MD, PhD,[‡,§§] Apollo Pronk, MD, PhD,[‖‖] Esther C.J. Consten, MD, PhD,[¶¶,##] Anke B. Smits, MD, PhD,*** Joost T. Heikens, MD, PhD,[†††] Ane L. Appelt, PhD,[‡‡‡,§§§] Wilhelmina M.U. van Grevenstein, MD, PhD,[‖‖‖] Helena M. Verkooijen, PhD,[¶¶¶,###] and Martijn P.W. Intven, MD, PhD*

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Kheng-Seong Ng[1,2] · Nicholas P. West[3] · Nigel Scott[4] · Melanie Hotgang[1] · Phil Quirke[3] · David G. Jayne[1,5]

Lindvall[1 2 3], Alexander Sanner[1], Fredrik Petré[1], Karin Lindman[4 5], Darren Treanor[2 6 7], Claes Lundström[1 2 3], Jonas Löwgren[3]

Journal of Applied Statistics

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ORIGINAL PAPER

CD105 is a prognostic marker and valid endothelial target for microbubble platforms in cholangiocarcinoma

Amit Nair[1] · Nicola Ingram[1] · Eldo T. Verghese[1] · Imeshi Wijetunga[1] · Alexander F. Markham[1] · Judy Wyatt[2] · K. Rajendra Prasad[3] · P. Louise Coletta[1]

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