Publications 2021

Pathology & Data Analytics

★ = 3 Star Paper ★ = 4 Star Paper

UNIVERSITY OF LEEDS

Batch Effects in MALDI Mass Spectrometry Imaging
Benjamin Balluff, Carsten Hopf, Tiffany Porta Siegel, Heike I. Grabsch, and Ron M. A. Heeren

Molecular subtype-specific efficacy of anti-EGFR therapy in colorectal cancer is dependent on the chemotherapy backbone

National time trends in mortality and graft survival following liver transplantation from circulatory death or brainstem death donors

Deep learning identifies inflamed fat as a risk factor for lymph node metastasis in early colorectal cancer

Deep learning detects genetic alterations in cancer histology generated by adversarial networks

Histopathological diagnosis of tumour deposits in colorectal cancer: a Delphi consensus study

Data Set for Reporting Carcinoma of the Stomach in Gastrectomy

Oncogenic BRAF, unrestrained by TGFβ-receptor signalling, drives right-sided colonic tumorigenesis

Is medullary carcinoma of the colon underdiagnosed? An audit of poorly differentiated colorectal carcinomas in a large national health service teaching hospital

Robotic complete mesocolic excision with central vascular ligation for right colonic tumours - a propensity score-matching study comparing with standard laparoscopy

Energy Balance–Related Factors and Risk of Colorectal Cancer Expressing Different Levels of Proteins Involved in the Warburg Effect

Transglutaminase 2 moderates the expansion of mouse abdominal aortic aneurysms

Development and validation of deep learning classifiers to detect Epstein–Barr virus and microsatellite instability status in gastric cancer: a retrospective multicentre cohort study

Comparison of LI-RADS with other non-invasive liver MRI criteria and radiological opinion for diagnosing hepatocellular carcinoma in cirrhotic livers using gadoxetic acid with histopathological explant correlation

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

Histopathological Features in Colonic Biopsies at Diagnosis Predict Long-term Disease Course in Patients with Crohn's Disease

An interesting case of a mucinous tumour of the breast

Prognostic and Predictive Value of Tumor Budding in Colorectal Cancer

The utility of c-Met as a diagnostic tissue biomarker in primary colorectal cancer

Characterisation of dysplastic liver nodules using low-pass DNA sequencing and detection of chromosome arm-level abnormalities in blood-derived cell-free DNA

The role of endocarditis in sudden cardiac death: highlighting the value of the autopsy, pathological features and cardiac complications

Ultra-Low DNA Input into Whole Genome Methylation Assays and Detection of Oncogenic Methylation and Copy Number Variants in Circulating Tumour DNA

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

A case of breast implant-associated anaplastic large cell lymphoma (BIA-ALCL)

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

Luminal Bioavailability of Orally Administered ω-3 PUFAs in the Distal Small Intestine, and Associated Changes to the Ileal Microbiome, in Humans with a Temporary Ileostomy

The colorectal cancer-associated faecal microbiome of developing countries resembles that of developed countries

Artificial Intelligence–Assisted Amphiregulin and Epiregulin IHC Predicts Panitumumab Benefit in *RAS* Wild-Type Metastatic Colorectal Cancer

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

Maximizing the diagnostic information from biopsies in chronic inflammatory bowel diseases: recommendations from the Erlangen International Consensus Conference on Inflammatory Bowel Diseases and presentation of the IBD-DCA score as a proposal for a new index for histopathological assessments in ulcerative colitis and Crohn's disease

EGFR Amplification in Metastatic Colorectal Cancer

Capecitabine Versus Active Monitoring in Stable or Responding Metastatic Colorect Cancer After 16 Weeks of First-Line Therapy: Results of the Randomized FOCUS4-N Trial

A novel fluorescent c-met targeted imaging agent for intra-operative colonic tumour mapping: Translation from the laboratory into a clinical trial

Barriers to Immunotherapy in Ovarian Cancer: Metabolic, Genomic, and Immune Perturbations in the Tumour Microenvironment

Improving the management of early colorectal cancers (eCRC) by using quantitative markers to predict lymph node involvement and thus the need for major resection of pT1 cancers

A Diffusion-like Process Accommodates New Crypts During Clonal Expansion in Human Colonic Epithelium

Fibrosis progression rate in a systematic review of placebo-treated nonalcoholic steatohepatitis

Differential and longitudinal immune gene patterns associated with reprogrammed microenvironment and viral mimicry in response to neoadjuvant radiotherapy in rectal cancer

Multi-Trait Genetic Analysis Identifies Autoimmune Loci Associated with Cutaneous Melanoma

Primary liver cancer in the UK: Incidence, incidence-based mortality, and survival by subtype, sex, and nation

Weakly supervised annotation–free cancer detection and prediction of genotype in routine histopathology

Targeted microbubbles carrying lipid-oil-nanodroplets for ultrasound-triggered delivery of the hydrophobic drug, combretastatin A4

Inhibition of WEE1 Is Effective in *TP53*- and *RAS*-Mutant Metastatic Colorectal Cancer: A Randomized Trial (FOCUS4-C) Comparing Adavosertib (AZD1775) With Active Monitoring

Diagnostic Histopathology
Autopsy in the time of COVID

Cell-type-specific meQTLs extend melanoma GWAS annotation beyond eQTLs and inform melanocyte gene-regulatory mechanisms

AIM in Surgical Pathology
Clare McGenity, Alex Wright, and Darren Treanor

The Uncertain Benefit of Adjuvant Chemotherapy in Advanced Low-Grade Serous Ovarian Cancer and the Pivotal Role of Surgical Cytoreduction

Faster than light (microscopy): superiority of digital pathology over microscopy for assessment of immunohistochemistry

Validation of the 'Inflammatory Bowel Disease-Distribution, Chronicity, Activity [IBD-DCA] Score' for Ulcerative Colitis and Crohn´s Disease

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

A comprehensive re-assessment of the association between vitamin D and cancer susceptibility using Mendelian randomization

A quality assessment tool for artificial intelligence-centered diagnostic test accuracy studies: QUADAS-AI

Efficacy of Reduced-Intensity Chemotherapy With Oxaliplatin and Capecitabine on Quality of Life and Cancer Control Among Older and Frail Patients With Advanced Gastroesophageal Cancer: The GO2 Phase 3 Randomized Clinical Trial

Functional annotation and investigation of the 10q24.33 melanoma risk locus identifies a common variant that influences transcriptional regulation of *OBFC1*

Administrative Coding in Electronic Health Care Record-Based Research of NAFLD: An Expert Panel Consensus Statement

A comprehensive review and meta-analysis of the effectiveness of self-management interventions in people with a stoma

Targeting the tumour microenvironment in platinum-resistant ovarian cancer

Influence of age on surgical treatment and postoperative outcomes of patients with colorectal cancer in Denmark and Yorkshire, England

Dataset for Pathology Reporting of Colorectal Cancer: Recommendations From the International Collaboration on Cancer Reporting (ICCR)

Deep learning detects genetic alterations in cancer histology generated by adversarial networks

Independent evaluation of melanoma polygenic risk scores in UK and Australian prospective cohorts

C-STICH: Cerclage Suture Type for an Insufficient Cervix and its effect on Health outcomes–a multicentre randomised controlled trial

Socio-demographic determinants of physical activity and app usage from smartphone data

Induction chemotherapy followed by chemoradiotherapy versus chemoradiotherapy alone as neoadjuvant treatment for locally recurrent rectal cancer: study protocol of a multicentre, open-label, parallel-arms, randomized controlled study (PelvEx II)

Large-scale cross-cancer fine-mapping of the 5p15.33 region reveals multiple independent signals

Guidelines for clinical trials using artificial intelligence – SPIRIT-AI and CONSORT-AI†

Local and Application-Specific Geodemographics for Data-Led Urban Decision Making

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

Breast tumour volume and blood flow measured by MRI after one cycle of epirubicin and cyclophosphamide-based neoadjuvant chemotherapy as predictors of pathological response

Reduction in the resident intestinal myelomonocytic cell population occurs during *Apc*$^{Min/+}$ mouse intestinal tumorigenesis

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

International consensus recommendations on key outcome measures for organ preservation after (chemo)radiotherapy in patients with rectal cancer

The human-in-the-loop: an evaluation of pathologists' interaction with artificial intelligence in clinical practice

Improving tumor budding reporting in colorectal cancer: a Delphi consensus study

Hepatectomy risk assessment with functional magnetic resonance imaging (HEPARIM)

Understanding Barriers to Novel Data Linkages: Topic Modeling of the Results of the LifeInfo Survey

Placental blood flow sensing and regulation in fetal growth restriction

A Systematic Review of Animal Models of NAFLD Finds High-Fat, High-Fructose Diets Most Closely Resemble Human NAFLD

Machine-learning model derived gene signature predictive of paclitaxel survival benefit in gastric cancer: results from the randomised phase III SAMIT trial

The principles of screening tests as applied to obstetrics and gynaecology

Adaptor Template Oligo-Mediated Sequencing (ATOM-Seq) is a new ultra-sensitive UMI-based NGS library preparation technology for use with cfDNA and cfRNA

The Effect of Quality Control on Accuracy of Digital Pathology Image Analysis

Data Resource Profile: The COloRECTal cancer data repository (CORECT-R)

A systematic review of supermarket automated electronic sales data for population dietary surveillance

Oxaliplatin/capecitabine or carboplatin/paclitaxel-based preoperative chemoradiation for resectable oesophageal adenocarcinoma (NeoSCOPE): Long-term results of a randomised controlled trial

Ondansetron and metoclopramide as second-line antiemetics in women with nausea and vomiting in pregnancy: the EMPOWER pilot factorial RCT

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

Pericyte Insulin Receptors Modulate Retinal Vascular Remodeling and Endothelial Angiopoietin Signaling

Endothelial Insulin Receptors Promote VEGF-A Signaling via ERK1/2 and Sprouting Angiogenesis

Prenatal and Postpartum Maternal Iodide Intake from Diet and Supplements, Urinary Iodine and Thyroid Hormone Concentrations in a Region of the United Kingdom with Mild-to-Moderate Iodine Deficiency

Placental growth factor measurements in the assessment of women with suspected Preeclampsia: A stratified analysis of the PARROT trial

Experiences of Support for Sexual Dysfunction in Men With Prostate Cancer: Findings From a U.K.-Wide Mixed Methods Study

Characterisation of Temporal Patterns in Step Count Behaviour from Smartphone App Data: An Unsupervised Machine Learning Approach

Improving outcome prediction in individuals with colorectal cancer and diabetes by accurate assessment of vascular complications: Implications for clinical practice

Predicting Food Safety Compliance for Informed Food Outlet Inspections: A Machine Learning Approach

An Overview of Strategies for Detecting Genotype-Phenotype Associations Across Ancestrally Diverse Populations

Guidelines for clinical trials using artificial intelligence – SPIRIT-AI and CONSORT-AI†

Dataset quality in artificial intelligence image analysis publications

The relevance of restricted inflammation in a TAB

Real-time lipid patterns to classify viable and necrotic liver tumors

Clustering Accelerometer Activity Patterns from the UK Biobank Cohort

Dietary Patterns Derived from UK Supermarket Transaction Data with Nutrient and Socioeconomic Profiles

Data considerations for the success of policy to restrict in-store food promotions: A commentary from a food industry nutritionist consultation

Combined Perioperative Lapatinib and Trastuzumab in Early HER2-Positive Breast Cancer Identifies Early Responders: Randomized UK EPHOS-B Trial Long-Term Results

Validity and Reproducibility of Immunohistochemical Scoring by Trained Non-Pathologists on Tissue Microarrays

Can a data driven obesity classification system identify those at risk of severe COVID-19 in the UK Biobank cohort study?

The impact of body mass index on breast cancer incidence among women at increased risk: an observational study from the International Breast Intervention Studies

Associations Between Erythrocyte Membrane Fatty Acid Compositions and Biomarkers of Vascular Health in Adults With Type 1 Diabetes With and Without Insulin Resistance: A Cross-Sectional Analysis

Clinical digital neuropathology: experience and observations from a departmental digital pathology training programme, validation and deployment

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

Improved pathology reporting in NAFLD/NASH for clinical trials

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

Interobserver variation in the classification of tumor deposits in rectal cancer—is the use of histopathological characteristics the way to go?

Stability of health-related quality of life and morbidity burden from 18 months after diagnosis of prostate cancer: results of a UK-wide population-based outcome cohort

Interobserver agreement of a gastric adenocarcinoma tumor regression grading system that incorporates assessment of lymph nodes☆

Prognostic significance of negative lymph node long axis in esophageal cancer: results from the randomized controlled UK MRC OE02 trial

Progress Towards Using Linked Population-Based Data For Geohealth Research: Comparisons Of Aotearoa New Zealand And The United Kingdom

Platinum Priority – Urothelial Cancer

Quality of Life After Bladder Cancer: A Cross-sectional Survey of Patient-reported Outcomes

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