

# Publications 2023

## Pathology & Data Analytics

★ = 3 Star Paper

★ = 4 Star Paper

UNIVERSITY OF LEEDS

### THE LANCET



Implausible algorithm output in UK liver transplantation allocation scheme: importance of transparency

Antony Attila<sup>1</sup>, Ian A. Rowe<sup>2</sup>, Ewen M. Harrison<sup>3</sup>, Tim Gordon-Walker<sup>4</sup>, Ben M. Stutchfield<sup>5</sup>

### BMC Microbiology

Analysis of an Indian colorectal cancer faecal microbiome collection demonstrates universal colorectal cancer-associated patterns, but closest correlation with other Indian cohorts

Maryamraheen Riaz<sup>1</sup>, Henry M. Wood<sup>2</sup>, Gurinder Singh<sup>3</sup>, International C. R. C. Microbiome Network (M4CR), Philip Quirke<sup>4</sup> and Ramkumarai Arshad Senthil<sup>1</sup>

### PLEFA

Prostaglandins, Leukotrienes & Essential Fatty Acids

Plasma and retinal micosatrylin levels during aspirin and eicosapentaenoic acid treatment in the seAOod polyp prevention trial

H. Hull<sup>1</sup>, A.D. Race<sup>2</sup>, H. Fenton<sup>3</sup>, L. Burke<sup>4</sup>, A. Downing<sup>5</sup>, E.A. Williams<sup>6</sup>, C.J. Rees<sup>7</sup>, L. Brown<sup>8</sup>, P.M. Loudman<sup>9</sup>, M.A. Hull<sup>10</sup>

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nature medicine

The value of standards for health datasets in artificial intelligence-based applications

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Frontline Gastroenterology

Exploring changing attitudes to non-invasive liver fibrosis tests in secondary care pathways: comparison of two national surveys

G. San<sup>1</sup>, J. Hartley<sup>2</sup>, H. Fenton<sup>3</sup>, A. Downing<sup>4</sup>, A. Dade<sup>5</sup>, C. Brown<sup>6</sup>, P. M. Loudman<sup>7</sup>, M. A. Hull<sup>8</sup>

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Alimentary Pharmacology & Therapeutics

Colorectal polyp outcomes after participation in the seAOod polyp prevention trial: Evidence of reduced elevated colorectal polyp risk after short-term aspirin use

Amy Downing<sup>1</sup>, H. Fenton<sup>2</sup>, C. Nickerson<sup>3</sup>, P. M. Loudman<sup>4</sup>, Elizabeth A. Williams<sup>5</sup>, Colin J. Rees<sup>6</sup>, Louise C. Brown<sup>7</sup>, Eva J. Morris<sup>8</sup>, Mark A. Hull<sup>9</sup>

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Journal of Cystic Fibrosis

The risk of colorectal cancer in individuals with mutations of the cystic fibrosis transmembrane conductance regulator (CFTR) gene: An English population-based study

Rebecca J. Birch<sup>1</sup>, Daniel Peckham<sup>2</sup>, Henry M. Wood<sup>3</sup>, Philip Quirke<sup>4</sup>, Rob Konstam<sup>5</sup>, Keith Browne<sup>6</sup>, Rebecca Cosgriff<sup>7</sup>, Genomics England Research Consortium<sup>8</sup>, Nicholas Burr<sup>9</sup>, Amy Downing<sup>10</sup>

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Journal of Medical Genetics

Population-based analysis of *POT1* variants in a cutaneous melanoma case-control cohort

Ivan Simon-Wilme<sup>1</sup>, Paul Oodo<sup>2</sup>, Emmett M. Lederin<sup>3</sup>, Mark Harland<sup>3</sup>

Karen A. Polley<sup>4</sup>, Mauricio Martínez de la Garza<sup>5</sup>, Sofia Obregon<sup>6</sup>

Jessie Hevinson<sup>7</sup>, Chi C. Wong<sup>8</sup>, Vicki Yet<sup>9</sup>, John C. Taylor<sup>10</sup>, Julia A. Newton-Bishop<sup>11</sup>, Dorothy Bishop<sup>12</sup>, Gerardo Andrade-Cisneros<sup>13</sup>, Mark M. Iles<sup>14</sup>, David J. Adams<sup>15</sup>

Carla Daniels-Espinoza<sup>16</sup>

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The British Journal of Radiology

The impact of mismatch repair status and systemic inflammatory markers on radiological staging in colon cancer

JAMES C. PLATT<sup>1</sup>, JENNIFER ANSETT<sup>1</sup>, DMIL<sup>2</sup>, JENNY F. SELIGMAN<sup>1</sup>, NICHOLAS P. WEST<sup>1</sup>, ND<sup>1</sup> and DAVID J. TADDEI<sup>1</sup>, MRC

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EUROPEAN RESPIRATORY REVIEW

Physical activity promotion interventions in chronic airways disease: a systematic review and meta-analysis

Caroline Reilly<sup>1</sup>, Joe Sait<sup>1</sup>, Antonios Antonopoulos-Malouf<sup>2</sup>, Rebecca J. Birch<sup>3</sup>, Jim McKenna<sup>4</sup>, Ian J. Clifford<sup>5</sup>, Daniel Peckham<sup>6</sup>, Karen M. Beck<sup>7</sup> and Oliver A. Price<sup>8</sup>

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npi | precision oncology

Artificial intelligence in ovarian cancer histopathology: a systematic review

Jack Birrell<sup>1</sup>, Kylie Alken<sup>2</sup>, Kieran Zuckier<sup>3</sup>, Pratik Adusumilli<sup>4</sup>, Andrew Scarsbrook<sup>5</sup>, Geoff Hall<sup>6</sup>, Nicolas M. Orr<sup>7</sup> and Nishant Ravi<sup>8</sup>

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Developmental Neuroscience

Progesterone as a Neuroprotective Agent in Neonatal Hypoxic-Ischaemic Encephalopathy: A Systematic Review

Ming-Te Lee<sup>1</sup>, Rosin McHugh<sup>2</sup>, Lawrence Mall<sup>3</sup>, Nigel Simpson<sup>4</sup>

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Cancer Cell

Improved detection of colibactin-induced mutations by genotoxic *E. coli* in organoids and colorectal cancer

Axel Rosemann<sup>1</sup>, Hubertus W. Lüdemann<sup>1</sup>, Cayetano Prue<sup>2</sup>, Jana Pöhlhoff<sup>3</sup>, Anna-Jakobine Schäfer<sup>4</sup>, Sophie Kühn<sup>5</sup>, Daniel Peckham<sup>6</sup>, Michaela Kühn<sup>7</sup>, Barbara Kühn<sup>8</sup>, Koenraad Verhaegen<sup>9</sup>, Marlies van Rossum<sup>10</sup>, Kyanna S. Dwyer<sup>11</sup>, Henry Wood<sup>12</sup>, Philip Quirke<sup>13</sup>, Gerrit Meijer<sup>14</sup>, Edwin Cuppen<sup>15</sup>, Hans Clevers<sup>16</sup>

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Journal of Pathology Informatics

Automated detection and delineation of lymph nodes in haematoxylin & eosin stained digitised slides

Marion Beque<sup>1</sup>, Derek R. Magee<sup>2</sup>, Anil Chatterjee<sup>3</sup>, Henry C. Woodward<sup>4</sup>, Ruth E. Langley<sup>5</sup>, William Alum<sup>6</sup>, Matthew Nankivel<sup>7</sup>, David Cunningham<sup>8</sup>, Philippe Lamont<sup>9</sup>, Heike J. Grabsch<sup>10</sup>

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ejog | European Journal of Obstetrics & Gynecology and Reproductive Biology

The neutrophil-to-lymphocyte ratio: A low-cost antenatal indicator of placental choriomeningitis in women who deliver preterm without clinical signs and symptoms of infection

Alexander E. Ridder<sup>1</sup>, Vannia Honksy<sup>2</sup>, Paul T. Seed<sup>3</sup>, Nigel Simpson<sup>4</sup>, Rachel M. Tribe<sup>5</sup>

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Histopathology

Automated curation of large-scale cancer histopathology image datasets using deep learning

Lars Hilgers<sup>1</sup>, Niamh Ghaffar Laleh<sup>2</sup>, Natasja P. West<sup>3</sup>, Alice Westwood<sup>3</sup>, Katharine J. Howlett<sup>1</sup>, Philipp Quirke<sup>4</sup>, Heike J. Grabsch<sup>5</sup>, Zamanya J. Carrero<sup>6</sup>, Barbara Kühn<sup>7</sup>, Joël K. Greenberg<sup>8</sup>, Michael D. Helfand<sup>9</sup>, Helen Fullerton<sup>10</sup>, David J. Adams<sup>11</sup>, Hermann Brenner<sup>12</sup>, Alexander Kühn<sup>13</sup>, Michael Hoffmann<sup>14</sup>, Jakob Niklaus Kather<sup>15,16</sup>

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JOURNAL OF HEPATOLOGY

A global research priority agenda to advance public health responses to fatty liver disease

Authors

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Cancer

Systematic Review

Clinical Features of Gastric Signet Ring Cell Cancer: Results from a Systematic Review and Meta-Analysis

Marcialigia Da Gama<sup>1,2</sup>, Maria Beque<sup>1,3</sup>, Daniela P. Belver<sup>1,4</sup>, Luisa M. Alves<sup>1</sup>, Marília Soares<sup>1</sup>, Marília Allegro<sup>1</sup>, Kelly C. Kershaw<sup>5,6</sup>, Federica Filippi<sup>7</sup>, Luca Sangalli<sup>8</sup>, Mar Iglesias<sup>9</sup>, Anna Tomassetti<sup>10</sup>, Fabio Cameli<sup>11</sup>, Helka I. Gahns<sup>12</sup>, Giuseppe Verlato<sup>13</sup>, Laura Torrisi<sup>14</sup>, Giulia Piesse<sup>15,16</sup>, Manuel De Matteo<sup>17</sup> and Giovanni Mazzoni<sup>18</sup>

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Health Technology Assessment

Ablative and non-surgical therapies for early and very early hepatocellular carcinoma: a systematic review and network meta-analysis

Ros Wade<sup>1</sup>, Emily South<sup>2</sup>, Daniel Summerville<sup>3</sup>, Sahar Sharif-Hurst<sup>3</sup>, Melissa Harden<sup>2</sup>, Helen Fullerton<sup>4</sup>, Helen Furlong<sup>5</sup>, Joël K. Greenberg<sup>6</sup>, David J. Adams<sup>7</sup>, Hermann Brenner<sup>8</sup>, Michael Hoffmann<sup>9</sup>, Jakob Niklaus Kather<sup>10</sup>

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Reproduction & Fertility

Nitric oxide synthase phosphorylation in fetoplacental endothelium is enhanced by agonism of Piezo1 mechanosensor in small for gestational age babies

L.C. Morley<sup>1,2</sup>, M. Debant<sup>1</sup>, H.J. Gaunt<sup>1</sup>, N.A. Simpson<sup>3</sup> and D.J. Beech<sup>1</sup>

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Diabetes Care

Relationship Among Diabetes, Obesity, and Cardiovascular Disease Phenotypes: A UK Biobank Cohort Study

Oliver J. Brown<sup>1</sup>, Michael Drout<sup>2</sup>, Hugo McCann<sup>3</sup>, Marianne Giannoudi<sup>4</sup>, Marcella Corring-Roland<sup>5</sup>, John Gandy<sup>6</sup>, Sam Stropes<sup>7</sup>, Bridgette B. Wharrow<sup>8</sup>, Lee D. Roberts<sup>9</sup>, Elyen Levitt<sup>10</sup>, Ranzi Ajani<sup>11</sup>, Kathryn J. Griffin<sup>12</sup>, Ian Stratton<sup>13</sup>, David J. Adams<sup>14</sup>, Helen Fullerton<sup>15</sup>, Helen Furlong<sup>16</sup>, Joël K. Greenberg<sup>17</sup>, Michael Hoffmann<sup>18</sup>, Jakob Niklaus Kather<sup>19</sup>, Michael H. Hensher<sup>20</sup>, and David J. Beech<sup>1</sup>

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Cell Reports Medicine

Generalizable biomarker prediction from cancer pathology slides with self-supervised deep learning: A retrospective multi-centric study

Jan-Martin Naujoks<sup>1</sup>, Peter Durka<sup>2</sup>, Nikolaos P. West<sup>3</sup>, Philipp Quirke<sup>4</sup>, Michaela Kühn<sup>5</sup>, Philipp Weidner<sup>6</sup>, Christof Röcken<sup>7</sup>, Stefan Röcken<sup>8</sup>, Stephan Feuerhake<sup>9</sup>, Thilo J. Schmitz<sup>10</sup>, Gregor P. Weidner<sup>11</sup>, Svenja O. Kutschke<sup>12</sup>, Stefan D. Richter<sup>13</sup>, Sebastian Fennell<sup>14</sup>, Michael Hoffmann<sup>15</sup>, Michael H. Hensher<sup>16</sup>, Jakob Niklaus Kather<sup>17</sup>, Michael H. Hensher<sup>18</sup>, Michael H. Hensher<sup>19</sup>, Michael H. Hensher<sup>20</sup>, Michael H. Hensher<sup>21</sup>, Michael H. Hensher<sup>22</sup>, Michael H. Hensher<sup>23</sup>, Michael H. Hensher<sup>24</sup>, Michael H. Hensher<sup>25</sup>, Michael H. Hensher<sup>26</sup>, Michael H. Hensher<sup>27</sup>, Michael H. Hensher<sup>28</sup>, Michael H. Hensher<sup>29</sup>, Michael H. Hensher<sup>30</sup>, Michael H. Hensher<sup>31</sup>, Michael H. Hensher<sup>32</sup>, Michael H. Hensher<sup>33</sup>, Michael H. Hensher<sup>34</</sup>