

HypoxEU LIVE

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| FULL NAME | ABSTRACT TITLE |
|--------------------------|---|
| Julián Aragonés | In vivo and in vitro HIF1 α and HIF2 α Target Gene Selectivity |
| Xinyi Zhao | Design and Development of Magnetic Iron Core Gold Nano-Particle-Based Fluorescent Multiplex Assay to Monitor Salmonella |
| Elisabeth Non Tudor Gash | Investigating the effects of hypoxia on tumour vasculogenesis in a chick embryo model using magnetic resonance imaging |
| Ananda Mirchandani | Hypoxia alters monocyte-macrophage dynamics with consequences for inflammation resolution |
| Laura Puente-Santamaría | Hypoxia classifier for transcriptome datasets |
| Andrew Reay Mackay | Hypoxia-induced alternative TrkA splicing and reoxygenation-dependent TrkAIII activation: A cycling hypoxia-regulated resistance mechanism in neuroblastoma |
| Mangesh T. Jaykar | Hypoxia pathway proteins (HPPs) in innate immune cells regulate early anti-tumor activity and late metastasis |
| Deepika Watts | HIF1 is a central mediator of steroidogenesis and consequent systemic changes |
| Niall Kenneth | Investigating the Role of the 5'UTR of HIF1A mRNA on Solid Tumour Formation |
| Tiia Turunen | Nuclear microRNAs regulate cellular response to hypoxia via novel, promoter-interacting mechanisms |

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| Tias Verhezen | The hypoxic tumor microenvironment has detrimental effects on natural killer cell metabolism and effector functions |
| Joss Murray | IGF-1 promotes basal cellular mitophagy via HIF-1 α /Nrf2-induced expression of BNIP3 |
| Alex Von Kriegsheim | Loss of KDM8/JMJD5 alters lipid metabolic pathways in hepatocellular carcinoma |
| Harry Collier | SINHCAF: a novel regulator of HIF signalling |
| Hamish Pegg | Orthogonal proteomics approaches to identify novel hydroxyproline sites in the mammalian proteome |
| Adam Albanese | Novel HIF-2 α Phosphorylation Abolishes Transcriptional Activity By Preventing Heterodimerisation with HIF-1b |
| Susana Delgado Martin | Oxidative damage in reperfusion after stroke: ferroptosis and the role of the mitochondrial sodium/calcium exchanger NCLX |
| Niamh Duggan | Investigating the role of hypoxia in driving the adaptation of Mycobacterium abscessus infection in Cystic fibrosis |
| Sasi S.senga | Cancer a symphony by hypoxia |
| Roopesh Krishnankutty | Noise stress induces adverse cardiovascular effects in mouse model via metabolic shift reminiscent of hypoxia |
| Zheng Fan | The transcription factor HIF-1 α mediates plasticity of intestinal NKp46+ innate lymphoid cells and gut fibrosis |
| Danielle Mello | The oyster Crassostrea gigas as a model species to study cellular adaptive responses to extreme and rapid oxygen level variations |

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| Tereza Dvorakova | PHD2/3 deletion in CD8 T cells enhances their effector functions and improves tumor response to immunotherapy |
| Jimena Druker | RepoMan is a novel cell cycle-regulated PHD1-dependent target |
| Hao Jiang | Systematic characterization of proline hydroxylation using hydrophilic interaction chromatography (HILIC) and MS-based proteomic analysis |
| Sandeep Unwith | Role of Glycogenin-1 in breast cancer cell line growth in hypoxia |
| Teresa Pereira | HIF-1alpha inhibitor PX-478 preserves pancreatic beta cell function in diabetes |
| Katharine Lodge | Targeting HIF1 and/or PI3K signalling may attenuate hypoxia-driven neutrophil-mediated tissue damage in inflammatory lung disease |
| Olivia Lombardi | Multi region single cell sequencing reveals dedifferentiation programs, angiogenic heterogeneity and the effect of microenvironmental hypoxia in ccRCC tumours |
| Andy Clark | The activation and function of HIF-1 in LPS-treated primary human macrophages: back to square one? |
| Martina Puzio | Targeting oxidative stress and prolyl hydroxylase inhibition as therapeutic strategies in an in vitro rat oxygen-glucose deprivation model |
| María Calzada García | Smoking and Hypoxia: pull and trigger in vascular dysfunction in respiratory diseases |

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| Eric Nelius | Hypoxic signaling in Natural Killer cells contributes to pulmonary fibrosis |
| Caz Canavan | Haemoglobin Efficacy and Cardiovascular Safety Data from the ASCEND-ND, -D, and -ID Trials |
| Joose Kreutzer | Mini-incubator for Acute Ischemic Studies |
| Sinéad Ryan | Unfolding ER Stress Responses in Eosinophilic Oesophagitis |
| Gary Markey | Sealing the Micro Gaps: The miR-155-5p/HIF-1 α axis & Barrier Function in Eosinophilic Oesophagitis |
| Gijsbert Jacob Christiaan Van Belle | Oxygen dependent cargo specific sorting of Clathrin coated vesicles |
| Kattri-Liis Eskla | Hypothermia alleviates reductive stress, a root cause of ischemia reperfusion injury |
| Philip Elks | Tuning neutrophils via HIF-alpha isoforms to control mycobacterial infection in vivo |
| Jessica Kindrick | Correlating locus-specific changes in histone trimethylation and gene expression in hypoxia |
| Silvia Martin Puig | VSMC/pericyte HIF2 signaling prevents cardiomegaly, pulmonary hypertension and inflammation in response to chronic hypoxia |
| Lee Page | Investigating the innate inflammatory cytokine response of ex-vivo human lung tissue explants to non-typeable Haemophilus influenzae infection in hypoxia |

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| Samvid Kurlekar | Single-cell gene expression analysis of Vhl-inactivated cells using a novel lineage tracing mouse model in kidney |
| Joanna Lima | Negative cellular outcomes following acute in vivo Vhl inactivation in mice |
| Ana García Del Río | Factor inhibiting HIF (FIH) promotes lung cancer progression |
| Alessandro Falsini | Inhibition of CAXII impaired melanoma cell migration and invasion under hypoxia |
| Federica Coppola | Hypoxia triggers autophagy in human monocyte-derived dendritic cells |
| Niamh Moreton | Targeting prolyl hydroxylase domain inhibition as a neuroprotective strategy against hypoxia in isolated rat hippocampal slices and organotypic slice cultures |
| Willian Goulart Salgueiro | sqrd-1 links mitochondrial respiration and H2S levels in vhl-1 C. elegans worms |
| Fiona Hartley | CRISPR screen identifies microRNAs involved in growth and survival under chronic hypoxia |
| Alexander Zielinski | Adaptation of human podocytes and renal proximal tubule epithelial cell lines to physiological oxygen conditions |
| Silvia Halim | Bi-directional crosstalk between the HIF and AHR transcription factors in clear cell kidney cancer |
| Ana Belen Lopez-Rodriguez | Activation of NLRP3 is required for a functional and beneficial microglia response after brain trauma |

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| Paraskevi Sotiropoulou | DRUGtrain: Reusing old drugs to find better treatment for Autosomal Dominant Polycystic Kidney Disease |
| Jing Chen | Vaccination-based ablation of cancer-associated fibroblasts alleviates tumor hypoxia |
| Luke Thornton | Spatially defined metabolic adaptation to hypoxia in colorectal cancer using imaging mass spectrometry |
| Maidier Fagoaga | Contribution of Hypoxia to Prostate Cancer Aggressiveness |
| Tom Keeley | Co-ordinated regulation of G-protein signalling by distinct O ₂ sensing pathways in mammals |
| Céline Decouty Perez | Role of thrombospondin-1 in traumatic brain injury |
| Dalal Alablani | Acute arterial hypoxaemia and its impact on drug pharmacokinetics in humans; a pharmacokinetic-pharmacodynamic simulation study |
| Harikrishna Nakshatri | Modeling preclinical cancer studies under physioxia - a potential way to enhance clinical translation |
| David Mole | Pan-cancer analysis of tissue and single-cell HIF-pathway activation using a conserved gene signature |
| Mykyta Malkov | Sumoylation suppresses activity of the HIF-1 pathway |
| Laura Puente-Santamaría | Hypoxia classifier for transcriptome datasets |
| Eddie Eun Sang Lee | Effect of temperature on cellular Hypoxia-Inducible Factor response in CaCo-2 epithelial cells |
| May Sin Ke | Understanding Tumour Heterogeneity in Acute and Chronic Hypoxia |

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| Andres A. Urrutia | Unique expression of the atypical mitochondrial subunit NDUFA4L2 in cerebral pericytes fine tunes perivascular HIF activity in response to hypoxia |
| Ailbhe King | The effect of Liraglutide (a GLP-1 analogue) on intermittent hypoxia induced systemic insulin resistance in vivo |
| Angela Margarida Costa | Unravel the hypoxia role on immunomodulation at the colon cancer microenvironment: a focus on macrophages |
| Covadonga Díaz Díaz | Modulation of HIF signaling is essential for postnatal cardiomyocyte maturation and cardiac function |
| Susana Mendoza Tamajón | Overactivation of HIF signaling in Isl1+ cardiovascular progenitors impair cardiac trabeculation and myocardial growth, resulting in congenital heart defects |
| Timo Henneck | SARS-CoV-2 induces vital NET-formation independent of available oxygen |
| Abigaëlle Pelletier | Hypoxia-Inducible Factor 1 controls Natural Killer cell metabolism |
| Carmen Choya-Foces | The effect of mitochondrial lithium in acute hypoxia |
| Andres A. Urrutia | Unique expression of the atypical mitochondrial subunit NDUFA4L2 in cerebral pericytes fine tunes perivascular HIF activity in response to hypoxia |
| René Krüger | Effects of hypoxia and HIF-stabilizers on epigenetics and the transcriptome in human renal tubular cells |

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| Agnieszka Ewa Jucht | PHD3 catalyses the oxygen-dependent formation of (likely) covalent protein interactions in cells |
| Fasanya Temitope | Mechanisms of Hypoxia-Induced NF-KB Phosphorylation |
| Cayetana Vazquez | Xcellomics TM: an AI-driven phenomics drug discovery collaboration |
| Thomas Kietzmann | ER-stress promotes VHL-independent degradation of hypoxia-inducible factors via FBXW1A/ β TrCP |
| Samuli Sakko | HIF-P4H-2 as a novel target to treat retinal neurodegenerative diseases |
| Daria Kostyunina | Shear stress alters the response to hypoxia in human pulmonary endothelial cells |
| James Harris | The oxygen-dependent histone lysine demethylase 4 regulates hepatocellular susceptibility to hepatitis B infection |
| Anke Zieseniss | Modulation of Nucleocytoplasmic Shuttling of Actin and the Actin-Binding-Proteins Cofilin and Profilin in Hypoxia |
| Andy Clark | The activation and function of HIF-1alpha in LPS-treated primary human macrophages: back to square one? |
| Max Schauer | PHD inhibition influences monocyte recruitment in inflammatory chronic kidney disease and protects kidney function in a NR4A1 dependent manner |
| Margareta Kurkela | Activation of the hypoxia response protects mice from beta-amyloid accumulation |

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| Rhianna Hill | Investigating the molecular mechanisms driving hypoxia-induced radioresistance in Head and Neck Squamous Cell Carcinoma |
| Maithily Nanadikar | Redox biosensors: a valuable tool to explore cellular redox processes |
| Atte Tapiola | Characterization of the role of HIF-P4H-2 in bone and cartilage and in fibrosis |
| Mahmoud Gaballah | Cardiac ischemia on-a-chip: Antiarrhythmic effect of levosimendan on ischemic human induced pluripotent stem cell-derived cardiomyocytes |
| Diego Rodriguez | Endoglin is an essential regulator of the bone marrow vasculature and the entire hematopoietic system |
| Lina Sciesielski | Adaptation of the oxygen sensing system in murine liver and kidney during intrauterine and perinatal development |
| Tuulia Ala-Nisula | P4H-TM deficiency in mice affects metabolism and nervous system functions |
| Carolina Bernauer | Impact and therapeutic exploitation of hypoxia in rhabdomyosarcomas |
| Brian M Ortmann | The role of SET1B in renal cancer |
| Peppi Karppinen | Characterization of the metabolic effects of inhibition of specific HIF-prolyl 4-hydroxylase isozymes implies potential benefits to selective therapy |
| James Bertlin | A synthetic lethality CRISPR/Cas9 mutagenesis approach for VHL in ccRCC cell models |

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| Andrew Reay Mackay | Hypoxia-induced alternative TrkA splicing and deoxygenation-dependent TrkAIII activation: A cyclic-hypoxia-regulated resistance mechanism in neuroblastoma |
| Sonia Rocha | Mechanisms controlling gene expression in hypoxia and inflammation |
| Tekle Pauzaite | Regulation of the HIF pathway by the deubiquitinating enzyme USP43 |
| Michael Batie | Chromatin Regulation in Hypoxia |
| Mia Monnius | Effects of inactivation of the HIF prolyl 4-hydroxylases 1 and 3 in mouse model of multiple sclerosis |
| Raphael Fagundes Rosa | Faecalibacterium prausnitzii promotes intestinal epithelial IL-18 production through activation of the HIF1 α pathway |
| Alicia E. Rosales-Nieves | The activity of the electron transport chain avoids abnormal and permanent microglial activation |
| Yulia Volkova | FIH catalyzes oxomer formation with the NF-kappa-B inhibitor beta |
| Malgorzata Wilk | Single-cell variability of hypoxia-inducible gene expression |

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