

RESEARCH PUBLICATIONS FEATURING RUSKINN TECHNOLOGY WORKSTATIONS

ANAEROBIC WORKSTATIONS	
BugBox (Anaerobic Workstation)	p42/p44 Mitogen-activated Protein Kinases Phosphorylate Hypoxia-inducible Factor 1α (HIF-1α) and Enhance the Transcriptional Activity of HIF-1 Darren E. Richard, Edurne Berra, Emmanuel Gothié, Danièle Roux, and Jacques Pouysségur J. Biol. Chem. , Nov 1999; 274: 32631-32637.
BugBox (Anaerobic Workstation)	Angiogenesis: How a Tumor Adapts to Hypoxia Darren E. Richard, Edurne Berra, and Jacques Pouyssegur Biochemical and Biophysical Research Communications , Dec 1999; 266: 718-722
BugBox (Anaerobic Workstation)	Identification of Alternative Spliced Variants of Human Hypoxia-inducible Factor-1α Emmanuel Gothié, Darren E. Richard, Edurne Berra, Gilles Pagès, and Jacques Pouysségur J. Biol. Chem. , Mar 2000; 275: 6922 - 6927.
BugBox (Anaerobic Workstation)	Nonhypoxic Pathway Mediates the Induction of Hypoxia-inducible Factor 1α in Vascular Smooth Muscle Cells Darren E. Richard, Edurne Berra, and Jacques Pouysségur J. Biol. Chem. , Aug 2000; 275: 26765 - 26771.
Bug Box (Anaerobic Workstation)	Hypoxia-inducible factor-1α (HIF-1α) escapes O2-driven proteasomal degradation irrespective of its subcellular localization: nucleus or cytoplasm Edurne Berra, Danièle Roux, Darren E. Richard, and Jacques Pouysségur EMBO Rep. , Jul 2001; 2: 615 - 620.
Bug Box (Anaerobic Workstation)	The nucleus, a site for signal termination by sequestration and inactivation of p42/p44 MAP kinases Véronique Volmat, Montserrat Camps, Steve Arkinstall, Jacques Pouysségur, and Philippe Lenormand J. Cell Sci. , Oct 2001; 114: 3433 - 3443.
BugBox (Anaerobic Workstation)	First confirmation of porcine colonic spirochaetosis caused by <i>Brachyspira pilosicoli</i> in Iberian pigs in Spain M. L. de Arriba, A. B. Vidal, J. Pozo,, A. Martínez, P. Rubio, A. Carvajal, and G. E. Duhamel Vet Rec. , Feb 2002; 150: 250 - 251.
Concept Plus (Anaerobic Workstation)	Calcium/Calmodulin-dependent Protein Kinase IIβ and γIsoforms Regulate Potassium Currents of Rat Brain Capillary Endothelial Cells under Hypoxic Conditions Zsolt Balla, Brigitte Hoch, Peter Karczewski, and Ingolf E. Blasig J. Biol. Chem. , Jun 2002; 277: 21306 - 21314.
Concept 400 (Anaerobic Workstation)	Tolerance Against Ischemic Neuronal Injury Can Be Induced by Volatile Anesthetics and Is Inducible NO Synthase Dependent Krisztian J. Kapinya, Diana Löwl, Carsten Fütterer, Martin Maurer, Klaus F. Waschke, Nikolaj K. Isaev, and Ulrich Dirnagl Stroke , Jul 2002; 33: 1889 - 1898.
Concept Plus (Anaerobic Workstation)	Isolation of Three New Surface Layer Protein Genes (<i>slp</i>) from <i>Lactobacillus brevis</i> ATCC 14869 and Characterization of the Change in Their Expression under Aerated and Anaerobic Conditions Miia Jakava-Viljanen, Silja Åvall-Jääskeläinen, Paul Messner, Uwe B. Sleytr, and Airi Palva J. Bacteriol. , Dec 2002; 184: 6786 - 6795.
Concept 400 (Anaerobic Workstation)	Erythropoietin Is a Paracrine Mediator of Ischemic Tolerance in the Brain: Evidence from an <i>In Vitro</i> Model Karsten Ruscher, Dorette Freyer, Maria Karsch, Nikolai Isaev, Dirk Megow, Birgit Sawitzki, Josef Priller, Ulrich Dirnagl, and Andreas Meisel J. Neurosci. , Dec 2002; 22: 10291 - 10301.
BugBox (Anaerobic Workstation)	Induction of Hypoxia-inducible Factor-1α by Transcriptional and Translational Mechanisms Elisabeth L. Pagé, Geneviève A. Robitaille, Jacques Pouysségur, and Darren E. Richard J. Biol. Chem. , Dec 2002; 277: 48403 - 48409.



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Concept Plus (Anaerobic Workstation)	Comparison of real-time PCR with SYBR Green I or 5'-nuclease assays and dot-blot hybridization with rDNA-targeted oligonucleotide probes in quantification of selected faecal bacteria Erja Malinen, Anna Kassinen, Teemu Rinttilä, and Airi Palva Microbiology , Jan 2003; 149: 269 - 277.
Concept 400 (Anaerobic Workstation)	Hypoxia Inactivates Inducible Nitric Oxide Synthase in Mouse Macrophages by Disrupting Its Interaction with α-Actinin 4 Sharon Daniliuc, Haim Bitterman, Michal A. Rahat, Amalia Kinarty, Doron Rosenzweig, and Lahat Nitza J. Immunol. , Sep 2003; 171: 3225 - 3232.
BugBox (Anaerobic Workstation)	The Farnesyltransferase Inhibitor R115777 Reduces Hypoxia and Matrix Metalloproteinase 2 Expression in Human Glioma Xenograft Caroline Delmas, Dave End, Philippe Rochaix, Gilles Favre, Christine Toulas, and Elizabeth Cohen-Jonathan Clin. Cancer Res. , Dec 2003; 9: 6062 - 6068.
Concept Plus (Anaerobic Workstation)	Metronidazole induces programmed cell death in the protozoan parasite <i>Blastocystis hominis</i> A. M. A. Nasirudeen, Yap Eu Hian, Mulkit Singh, and Kevin S. W. Tan Microbiology , Jan 2004; 150: 33.
BugBox (Anaerobic Workstation)	c-Myc Sensitization to Oxygen Deprivation-induced Cell Death Is Dependent on Bax/Bak, but Is Independent of p53 and Hypoxia-inducible Factor-1 Joslyn K. Brunelle, Matthew T. Santore, G. R. Scott Budinger, Yueming Tang, Terrence A. Barrett, Wei-Xing Zong, Eugene Kandel, Brian Keith, M. Celeste Simon, Craig B. Thompson, Nissim Hay, and Navdeep S. Chandel J. Biol. Chem. , Feb 2004; 279: 4305 - 4312.
Concept 400 (Anaerobic Workstation)	New Real-Time Quantitative PCR Procedure for Quantification of Bifidobacteria in Human Fecal Samples Miguel Gueimonde, Satu Tölkö, Teemu Korpimäki, and Seppo Salminen Appl. Envir. Microbiol. , Jul 2004; 70: 4165 - 4169.
BugBox (Anaerobic Workstation)	Mitochondrial Reactive Oxygen Species Control the Transcription Factor CHOP-10/GADD153 and Adipocyte Differentiation: A MECHANISM FOR HYPOXIA-DEPENDENT EFFECT Audrey Carrière, Maria-Carmen Carmona, Yvette Fernandez, Michel Rigoulet, Roland H. Wenger, Luc Pénicaud, and Louis Casteilla J. Biol. Chem. , Sep 2004; 279: 40462 - 40469.
BugBox (Anaerobic Workstation)	Protective Effect of α-Keto-β-Methyl-n-Valeric Acid on BV-2 Microglia under Hypoxia or Oxidative Stress HSUEH-MEEI HUANG, HSIO-CHUNG OU, HUAN-LIAN CHEN, ROLIS CHIEN-WEI HOU, and KEE CHING G. JENG Ann. N.Y. Acad. Sci. , May 2005; 1042: 272 - 278.
Concept 400 (Anaerobic Workstation)	Influence of Fluid Shear and Microbubbles on Bacterial Detachment from a Surface Prashant K. Sharma, Marjon J. Gibcus, Henny C. van der Mei, and Henk J. Busscher Appl. Envir. Microbiol. , Jul 2005; 71: 3668 - 3673.
(Anaerobic Workstation)	Arrest-defective-1 Protein, an Acetyltransferase, Does Not Alter Stability of Hypoxia-inducible Factor (HIF)-1α and Is Not Induced by Hypoxia or HIF Rebecca Bilton, Nathalie Mazure, Eric Trottier, Maurice Hattab, Marc-André Déry, Darren E. Richard, Jacques Pouysségur, and M. Christiane Brahimi-Horn J. Biol. Chem. , Sep 2005; 280: 31132 - 31140.
BugBox (Anaerobic Workstation)	Overexpression of PrP^C by Adenovirus-Mediated Gene Targeting Reduces Ischemic Injury in a Stroke Rat Model Woei-Cherng Shyu, Shinn-Zong Lin, Ming-Fu Chiang, Dah-Ching Ding, Kuo-Wei Li, Shih-Fen Chen, Hui-I Yang, and Hung Li J. Neurosci. , Sep 2005; 25: 8967 - 8977.
Concept Plus (Anaerobic Workstation)	<i>Thermococcus coalescens</i> sp. nov., a cell-fusing hyperthermophilic archaeon from Suiyo Seamount Tomohiko Kuwabara, Masaomi Minaba, Yukihiko Iwayama, Isao Inouye, Miwako Nakashima, Katsumi Marumo, Akihiko Maruyama, Akihiko Sugai, Toshihiro Itoh, Jun-ichiro Ishibashi, Tetsuro Urabe, and Masahiro Kamekura Int J Syst Evol Microbiol , Nov 2005; 55: 2507 - 2514.



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BugBox (Anaerobic Workstation)	Activation of RhoB by Hypoxia Controls Hypoxia-Inducible Factor-1α Stabilization through Glycogen Synthase Kinase-3 in U87 Glioblastoma Cells Nicolas Skuli, Sylvie Monferran, Caroline Delmas, Isabelle Lajoie-Mazenc, Gilles Favre, Christine Toulas, and Elizabeth Cohen-Jonathan-Moyal Cancer Res. , Jan 2006; 66: 482 - 489.
Concept 400 (Anaerobic Workstation)	Interactive Forces between Co-aggregating and Non-co-aggregating Oral Bacterial Pairs F. Postollec, W. Norde, J. de Vries, H.J. Busscher, and H.C. van der Mei J. Dent. Res. , Mar 2006; 85: 231 - 234.
BugBox (Anaerobic Workstation)	The Oxygen Sensor Factor-Inhibiting Hypoxia-Inducible Factor-1 Controls Expression of Distinct Genes through the Bifunctional Transcriptional Character of Hypoxia-Inducible Factor-1α Frédéric Dayan, Danièle Roux, M. Christiane Brahimi-Horn, Jacques Pouyssegur, and Nathalie M. Mazure Cancer Res. , Apr 2006; 66: 3688 - 3698.
BugBox (Anaerobic Workstation)	Respiration and Growth of <i>Shewanella decolorationis</i> S12 with an Azo Compound as the Sole Electron Acceptor Yiguo Hong, Meiyong Xu, Jun Guo, Zhicheng Xu, Xingjuan Chen, and Guoping Sun Appl. Envir. Microbiol. , Jan 2007; 73: 64 - 72.
Concept 400 (Anaerobic Workstation)	Severe Hypoxia Defines Heterogeneity and Selects Highly Immature Progenitors Within Clonal Erythroleukemia Cells Serena Giuntoli, Elisabetta Rovida, Antonella Gozzini, Valentina Barbetti, Maria Grazia Cipolleschi, Massimo Olivotto, and Persio Dello Sbarba Stem Cells , May 2007; 25: 1119 - 1125.
(Anaerobic Workstation)	Sequence of Oral Bacterial Co-adhesion and Non-contact Brushing H.C. van der Mei, M. Rustema-Abbing, G.M. Bruinsma, B. Gottenbos, and H.J. Busscher J. Dent. Res. , May 2007; 86: 421 - 425.
Concept 400 (Anaerobic Workstation)	Biphasic Effect of Gingipains from <i>Porphyromonas gingivalis</i> on the Human Complement System Katarzyna Popadiak, Jan Potempa, Kristian Riesbeck, and Anna M. Blom J. Immunol. , Jun 2007; 178: 7242 - 7250.
Concept 400 (Anaerobic Workstation)	Development of New Probiotics by Strain Combinations: Is It Possible to Improve the Adhesion to Intestinal Mucus? M. C. Collado, J. Meriluoto, and S. Salminen J Dairy Sci , Jun 2007; 90: 2710 - 2716.
Concept Plus (Anaerobic Workstation)	Conversion of Flavodoxin from Holoenzyme to Apoprotein during Growth Phase Changes in <i>Helicobacter pylori</i> Hirofumi Shimomura, Shunji Hayashi, Kenji Yokota, Keiji Oguma, and Yoshikazu Hirai J. Bacteriol. , Jul 2007; 189: 4960 - 4963.
Concept 1000 (Anaerobic Workstation)	<i>Prevotella nanceiensis</i> sp. nov., isolated from human clinical samples C. Alauzet, F. Mory, J.-P. Carlier, H. Marchandin, E. Jumas-Bilak, and A. Lozniewski Int J Syst Evol Microbiol , Oct 2007; 57: 2216 - 2220.
BugBox (Anaerobic Workstation)	Transcriptome of Hypoxic Immature Dendritic Cells: Modulation of Chemokine/Receptor Expression Annamaria Ricciardi, Angela Rita Elia, Paola Cappello, Maura Puppo, Cristina Vanni, Paolo Fardin, Alessandra Eva, David Munroe, Xiaolin Wu, Mirella Giovarelli, and Luigi Varesio Mol. Cancer Res. , Feb 2008; 6: 175 - 185.
BugBox (Anaerobic Workstation)	PHDs overactivation during chronic hypoxia "desensitizes" HIFα and protects cells from necrosis Amandine Ginouvès, Karine Ilc, Nuria Macías, Jacques Pouyssegur, and Edurne Berra PNAS , Mar 2008; 105: 4745 - 4750.
Concept 400 (Anaerobic Workstation)	<i>Lutispora thermophila</i> gen. nov., sp. nov., a thermophilic, spore-forming bacterium isolated from a thermophilic methanogenic bioreactor digesting municipal solid wastes Hatsumi Shiratori, Hitomi Ohiwa, Hironori Ikeno, Shohei Ayame, Naoaki Kataoka, Akiko Miya, Teruhiko Beppu, and Kenji Ueda Int J Syst Evol Microbiol , Apr 2008; 58: 964 - 969.



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Concept 400 (Anaerobic Workstation)	Hypoxia enhances lysosomal TNF-α degradation in mouse peritoneal macrophages Nitza Lahat, Michal A. Rahat, Amalia Kinarty, Lea Weiss-Cerem, Sigalit Pinchevski, and Haim Bitterman Am J Physiol Cell Physiol , Jul 2008; 295: C2 - C12.
(Anaerobic Workstation)	Bond Strengthening in Oral Bacterial Adhesion to Salivary Conditioning Films Henny C. van der Mei, Minie Rustema-Abbing, Joop de Vries, and Henk J. Busscher Appl. Envir. Microbiol. , Sep 2008; 74: 5511 - 5515.
Concept 400 (Anaerobic Workstation)	Binding of Complement Inhibitor C4b-Binding Protein Contributes to Serum Resistance of <i>Porphyromonas gingivalis</i> Michal Potempa, Jan Potempa, Marcin Okroj, Katarzyna Popadiak, Sigrun Eick, Ky-Anh Nguyen, Kristian Riesbeck, and Anna M. Blom J. Immunol. , Oct 2008; 181: 5537 - 5544.
(Anaerobic Workstation)	<i>Butyricoccus pullicaecorum</i> gen. nov., sp. nov., an anaerobic, butyrate-producing bacterium isolated from the caecal content of a broiler chicken Venessa Eeckhaut, Filip Van Immerseel, Emma Teirlynck, Frank Pasmans, Veerle Fievez, Cindy Snauwaert, Freddy Haesebrouck, Richard Ducatelle, Petra Louis, and Peter Vandamme Int J Syst Evol Microbiol , Dec 2008; 58: 2799 - 2802.
(Anaerobic Workstation)	Hypoxia-Inducible Carbonic Anhydrase IX and XII Promote Tumor Cell Growth by Counteracting Acidosis through the Regulation of the Intracellular pH Johanna Chiche, Karine Ilc, Julie Laferrière, Eric Trottier, Frédéric Dayan, Nathalie M. Mazure, M. Christiane Brahimi-Horn, and Jacques Pouyssegur Cancer Res. , Jan 2009; 69: 358 - 368.
BugBox (Anaerobic Workstation)	$\alpha v \beta 3 / \alpha v \beta 5$ Integrins-FAK-RhoB: A Novel Pathway for Hypoxia Regulation in Glioblastoma Nicolas Skuli, Sylvie Monferran, Caroline Delmas, Gilles Favre, Jacques Bonnet, Christine Toulas, and Elizabeth Cohen-Jonathan Moyal Cancer Res. , Apr 2009; 69: 3308 - 3316.
Concept 400 (Anaerobic Workstation)	Stereospecific Biotransformation of Dihydrodaidzein into (3S)-Equlol by the Human Intestinal Bacterium <i>Eggerthella</i> Strain Julong 732 Mihyang Kim, Su-Il Kim, Jaehong Han, Xiu-Ling Wang, Dae-Geun Song, and Soo-Un Kim Appl. Envir. Microbiol. , May 2009; 75: 3062 - 3068.
BugBox (Anaerobic Workstation)	Hypoxia-Induced Autophagy Is Mediated through Hypoxia-Inducible Factor Induction of BNIP3 and BNIP3L via Their BH3 Domains Grégory Bellot, Raquel Garcia-Medina, Pierre Gounon, Johanna Chiche, Danièle Roux, Jacques Pouyssegur, and Nathalie M. Mazure Mol. Cell. Biol. , May 2009; 29: 2570 - 2581.
(Anaerobic Workstation)	Imaging of HIF-1-Active Tumor Hypoxia Using a Protein Effectively Delivered to and Specifically Stabilized in HIF-1-Active Tumor Cells Takashi Kudo, Masashi Ueda, Yuji Kuge, Takahiro Mukai, Shotaro Tanaka, Maki Masutani, Yasushi Kiyono, Shinae Kizaka-Kondoh, Masahiro Hiraoka, and Hideo Saji J. Nucl. Med. , Jun 2009; 50: 942 - 949.
HYPOXIA WORKSTATIONS	
Invivo ₂ (Hypoxia Workstation)	Targeting of HIF-α to the von Hippel-Lindau Ubiquitylation Complex by O₂-Regulated Prolyl Hydroxylation Panu Jaakkola, David R. Mole, Ya-Min Tian, Michael I. Wilson, Janine Gielbert, Simon J. Gaskell, Alexander von Kriegsheim, Holger F. Hebestreit, Mridul Mukherji, Christopher J. Schofield, Patrick H. Maxwell, Christopher W. Pugh, and Peter J. Ratcliffe Science , Apr 2001; 292: 468 - 472.
Invivo ₂ 400 (Hypoxia Workstation)	Regulation of hypoxia-inducible factor is preserved in the absence of a functioning mitochondrial respiratory chain Emma C. Vaux, Eric Metzen, Kay M. Yeates, and Peter J. Ratcliffe Blood , Jul 2001; 98: 296 - 302.



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Invivo ₂ 400 (Hypoxia Workstation)	<p><i>C. elegans</i> EGL-9 and Mammalian Homologs Define a Family of Dioxygenases that Regulate HIF by Prolyl Hydroxylation Andrew C.R. Epstein, Jonathan M. Gleadle, Luke A. McNeill, Kirsty S. Hewitson, John O'Rourke, David R. Mole, Mridul Mukherji, Eric Metzzen, Michael I. Wilson, Anu Dhanda, Ya-Min Tian, Norma Masson, Donald L. Hamilton, Panu Jaakkola, Robert Barstead, Jonathan Hodgkin, Patrick H. Maxwell, Christopher W. Pugh, Christopher J. Schofield, and Peter J. Ratcliffe Cell, Oct 2001; 107: 43 - 54.</p>
BugBox & Invivo ₂ 200	<p>Bcl-2 Family Members and Functional Electron Transport Chain Regulate Oxygen Deprivation-Induced Cell Death David S. McClintock, Matthew T. Santore, Vivian Y. Lee, Joslyn Brunelle, G. R. Scott Budinger, Wei-Xing Zong, Craig B. Thompson, Nissim Hay, and Navdeep S. Chandel Mol. Cell. Biol., Jan 2002; 22: 94 - 104.</p>
Invivo ₂ 200 (Hypoxia Workstation)	<p>Hypoxia-inducible factor-1 (HIF-1) mediated expression of the 6-phosphofructo-2-kinase/fructose-2-6-bisphosphatase (PFKFB3) gene: its possible role in the Warburg effect Minchenko, A., Leshchinsky, I., Opentanova, I., Sang, N., Srinivas, V., Armstead V., and Caro, J. J. Biol. Chem., Feb 2002; 277: 6183 - 6187</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Isoform-Specific Expression of Hypoxia-Inducible Factor-1α During the Late Stages of Mouse Spermiogenesis Hugo H. Marti, Dörthe M. Katschinski, Klaus F. Wagner, Leonhard Schäffer, Bettina Stier, and Roland H. Wenger Mol. Endocrinol., Feb 2002; 16: 234 - 243.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Phosphatidylinositol 3-Kinase/Akt Signaling Is Neither Required for Hypoxic Stabilization of HIF-1α nor Sufficient for HIF-1-dependent Target Gene Transcription Andrew M. Arsham, David R. Plas, Craig B. Thompson, and M. Celeste Simon J. Biol. Chem., Apr 2002; 277: 15162 - 15170.</p>
Invivo ₂ & BugBox	<p>Anoxia-induced apoptosis occurs through a mitochondria-dependent pathway in lung epithelial cells Matthew T. Santore, David S. McClintock, Vivian Y. Lee, G. R. Scott Budinger, and Navdeep S. Chandel Am J Physiol Lung Cell Mol Physiol, Apr 2002; 282: 727.</p>
Invivo ₂ 200 (Hypoxia Workstation)	<p>Hypoxia Sensitizes Cells to Nitric Oxide-induced Apoptosis Vivian Y. Lee, David S. McClintock, Matthew T. Santore, G. R. Scott Budinger, and Navdeep S. Chandel J. Biol. Chem., May 2002; 277: 16067 - 16074.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Regulation of Hypoxia-Inducible Factor 1α Expression and Function by the Mammalian Target of Rapamycin Christine C. Hudson, Mei Liu, Gary G. Chiang, Diane M. Otterness, Dawn C. Loomis, Fiona Kaper, Amato J. Giaccia, and Robert T. Abraham Mol. Cell. Biol., Oct 2002; 22: 7004 - 7014.</p>
Invivo ₂ & BugBox	<p>Hypoxic but not anoxic stabilization of HIF-1α requires mitochondrial reactive oxygen species Clara Schroedel, David S. McClintock, G. R. Scott Budinger, and Navdeep S. Chandel Am J Physiol Lung Cell Mol Physiol, Nov 2002; 283: 922 - 931.</p>
Invivo ₂ 200 & Invivo ₂ 400 (Hypoxia Workstation)	<p>Hypoxia-induced endocytosis of Na,K-ATPase in alveolar epithelial cells is mediated by mitochondrial reactive oxygen species and PKC-ζ Dada, L., N. Chandel, C. Pedemonte, K.M. Ridge, A.M. Bertorello and J.I. Sznajder. J. Clin. Invest., Apr 2003; 111: 1057 - 1064.</p>
Invivo ₂ 200 (Hypoxia Workstation)	<p>MAPK Signaling Up-regulates the activity of hypoxia-inducible factors by its effects on p300 Sang, N., Stiehl, D.P. Bohensky, J., Leshchinsky, I., Srinivas, V., and Caro, J. J. Biol. Chem., Apr 2003; 278: 14013 - 14019.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Expansion of human SCID-repopulating cells under hypoxic conditions Danet, G. H., Y. Pan, J. L. Luongo, D. A. Bonnet, and M. C. Simon J. Clin. Investigation, Apr 2003; 112: 126 - 135.</p>



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Invivo ₂ (Hypoxia Workstation)	<p>Intracellular localisation of human HIF-1α hydroxylases: implications for oxygen sensing Eric Metzen, Uta Berchner-Pfannschmidt, Petra Stengel, Jan H. Marxsen, Ineke Stolze, Matthias Klinger, Wei Qi Huang, Christoph Wotzlaw, Thomas Hellwig-Bürgel, Wolfgang Jelkmann, Helmut Acker, and Joachim Fandrey J. Cell Sci., Apr 2003; 116: 1319 - 1326.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>A Novel Hypoxia-inducible Factor-independent Hypoxic Response Regulating Mammalian Target of Rapamycin and Its Targets Andrew M. Arsham, Jessica J. Howell, and M. Celeste Simon J. Biol. Chem., Aug 2003; 278: 29655 - 29660.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Nitric Oxide Impairs Normoxic Degradation of HIF-1α by Inhibition of Prolyl Hydroxylases Eric Metzen, Jie Zhou, Wolfgang Jelkmann, Joachim Fandrey, and Bernhard Brüne Mol. Biol. Cell, Aug 2003; 14: 3470 - 3481.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Differential roles of HIF-1α and HIF-2α in hypoxic gene regulation Hu, C.-J., L.-Y. Wang, L. A. Chodosh, B. Keith, and M. C. Simon Mol. Cell Biol., Sep 2003; 23: 9361 - 9374.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Specific Oncolytic Effect of a New Hypoxia-Inducible Factor-Dependent Replicative Adenovirus on von Hippel-Lindau-Defective Renal Cell Carcinomas Yolanda Cuevas, Rubén Hernández-Alcoceba, Julian Aragonés, Salvador Naranjo-Suárez, María C. Castellanos, Miguel A. Esteban, Silvia Martín-Puig, Manuel O. Landazuri, and Luis del Peso Cancer Res., Oct 2003; 63: 6877 - 6884.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>The von Hippel Lindau/Hypoxia-inducible Factor (HIF) Pathway Regulates the Transcription of the HIF-Proline Hydroxylase Genes in Response to Low Oxygen Luis del Peso, María C. Castellanos, Elisa Temes, Silvia Martín-Puig, Yolanda Cuevas, Gemma Olmos, and Manuel O. Landazuri J. Biol. Chem., Dec 2003; 278: 48690 - 48695.</p>
Invivo ₂ (Hypoxia Workstation)	<p>Hypoxic gene activation by lipopolysaccharide in macrophages: implication of hypoxia-inducible factor 1α Caroline C. Blouin, Elisabeth L. Pagé, Guylaine M. Soucy, and Darren E. Richard Blood, Feb 2004; 103: 1124 - 1130.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Role of Iron (II)-2-Oxoglutarate-dependent Dioxygenases in the Generation of Hypoxia-induced Phosphatidic Acid through HIF-1/2 and von Hippel-Lindau-independent Mechanisms Silvia Martín-Puig, Elisa Temes, Gemma Olmos, David R. Jones, Julián Aragonés, and Manuel O. Landazuri J. Biol. Chem., Mar 2004; 279: 9504 - 9511.</p>
Invivo ₂ (Hypoxia Workstation)	<p>The influence of hypoxia in promoting malignant progression in prostate cancer cells. Karl Butterworth, Helen O. McCarthy, Tracy Robson, and Stephanie McKeown AACR Meeting Abstracts, Mar 2004; 2004: 789.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Anoxic induction of ATF-4 through HIF-1-independent pathways of protein stabilization in human cancer cells Kurosh Ameri, Claire E. Lewis, Martin Raida, Heidi Sowter, Tsonwin Hai, and Adrian L. Harris Blood, Mar 2004; 103: 1876 - 1882.</p>
Invivo ₂ & BugBox	<p>Follicle-stimulating Hormone Activation of Hypoxia-inducible Factor-1 by the Phosphatidylinositol 3-Kinase/AKT/Ras Homolog Enriched in Brain (Rheb)/Mammalian Target of Rapamycin (mTOR) Pathway Is Necessary for Induction of Select Protein Markers of Follicular Differentiation Hena Alam, Evelyn T. Maizels, Youngkyu Park, Shail Ghaey, Zachary J. Feiger, Navdeep S. Chandel, and Mary Hunzicker-Dunn J. Biol. Chem., May 2004; 279: 19431 - 19440.</p>
Invivo ₂ 400 (Hypoxia Workstation)	<p>Akt and Hypoxia-Inducible Factor-1 Independently Enhance Tumor Growth and Angiogenesis Andrew M. Arsham, David R. Plas, Craig B. Thompson, and M. Celeste Simon Cancer Res., May 2004; 64: 3500 - 3507.</p>



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Invivo ₂ (Hypoxia Workstation)	<p>The Stem Cell Marker Bcrp/ABCG2 Enhances Hypoxic Cell Survival through Interactions with Heme Partha Krishnamurthy, Douglas D. Ross, Takeo Nakanishi, Kim Bailey-Dell, Sheng Zhou, Kelly E. Mercer, Balazs Sarkadi, Brian P. Sorrentino, and John D. Schuetz J. Biol. Chem., Jun 2004; 279: 24218 - 24225.</p>
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