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Short presentation

My primary research interest is focused on metabolic syndrome, metabolomics and liver diseases. I have 10 years of experience in working in highly international, culturally and professionally diverse research groups. My current research interest lies in role of metabolic syndrome in development of primary liver cancer and impact on tumor microenvironment.

Qualifications

Molecular Biology, PhD, University of Ljubljana
Award Date: 21 Jan 2014
Biotechnology, MSc Eng, Gdansk University of Technology
Award Date: 24 Jun 2010

Employment

Postdoc

Harvard University
Cambridge, United States
1 Sep 2014 → 1 Sep 2016

Guest Researcher

University of Iowa
Iowa City, United States
1 Aug 2011 → 1 Dec 2011

Researcher

University of Ljubljana
Slovenia
1 Sep 2010 → 1 Jan 2014

Research outputs

Fatty Acid Synthase expression promotes the malignant features of cholangiocarcinoma cells and predicts shorter survival in patients

Lori, G., Raggi, C., Piombanti, B., Pastore, M., Booiijink, R., Navari, N., Rovida, E., Gastaldelli, A., Andersen, J., Lewinska, Monika & Marra, F., 2023, In: Digestive and Liver Disease. 55, p. S14 1 p.

Fibroblast-Derived Lysyl Oxidase Increases Oxidative Phosphorylation and Stemness in Cholangiocarcinoma

Lewinska, M., Zhuravleva, E., Satriano, L., Martinez, M. B., Bhatt, D. K., Oliveira, D. V. N. P., Antoku, Y., Keggenhoff, F. L., Castven, D., Marquardt, J. U., Matter, M. S., Erler, J. T., Oliveira, R. C., Aldana, B. I., Al-Abdulla, R., Perugorria, M. J., Calvisi, D. F., Perez, L. A., Rodrigues, P. M., Labiano, I. & 2 others, Banales, J. M. & Andersen, Jesper Bøje, 2023, (E-pub ahead of print) In: Gastroenterology.

MicroRNA-27a-3p targets FoxO signalling to induce tumour-like phenotypes in bile duct cells

Duwe, Lea, Munoz-Garrido, P., Lewinska, Monika, Lafuente Barquero, Juan Francisco, Satriano, L., Høgdall, Dan Taksony Solyom, Taranta, A., Nielsen, B. S., Ghazal, A., Matter, M. S., Banales, J. M., Aldana, Blanca, Gao, Y., Marquardt, J. U., Roberts, L. R., Oliveira, R. C., Koshiol, J., O'Rourke, Colm & Andersen, Jesper Bøje, 2023, In: Journal of

Semaglutide reduces tumor burden in the GAN diet-induced obese and biopsy-confirmed mouse model of NASH-HCC with advanced fibrosis

Hansen, H. H., Pors, S., Andersen, M. W., Vyberg, M., Nøhr-Meldgaard, J., Nielsen, M. H., Oró, D., Madsen, M. R., Lewinska, Monika, Møllerhøj, M. B., Madsen, A. N. & Feigh, M., 2023, In: Scientific Reports. 13, 1, 19 p., 23056.

miR-21-5p promotes NASH-related hepatocarcinogenesis

Rodrigues, P. M., Afonso, M. B., Simão, A. L., Islam, T., Gaspar, M. M., O'Rourke, Colm, Lewinska, Monika, Andersen, Jesper Bøje, Arretxe, E., Alonso, C., Santos-Laso, Á., Izquierdo-Sanchez, L., Jimenez-Agüero, R., Eizaguirre, E., Bujanda, L., Pareja, M. J., Prip-Buus, C., Banales, J. M., Rodrigues, C. M. P. & Castro, R. E., 2023, In: Liver International. 43, 10, p. 2256-2274 19 p.

Back in person, back to the races

Fatehi, S., Heim, A. B., da Silva, C. F. A., Lewinska, Monika, Uzonyi, A., Cardinal, B. J., Atondo, D., Richter, W. E., Cao, B. & Kothapalli, N. R., 2022, In: Science. 375, 6576, p. 20-21 2 p.

Lipid alterations in chronic liver disease and liver cancer

Paul, Bichitra, Lewinska, Monika & Andersen, Jesper Bøje, 2022, In: JHEP Reports. 4, 6, 18 p., 100479.

The protease-inhibitor SerpinB3 as a critical modulator of the stem-like subset in human cholangiocarcinoma

Correnti, M., Cappon, A., Pastore, M., Piombanti, B., Lori, G., Oliveira, D. V. P. N., Munoz-Garrido, P., Lewinska, M., Andersen, J. B., Coulouarn, C., Sulpice, L., Peraldo Neia, C., Cavalloni, G., Quarta, S., Biasiolo, A., Fassan, M., Ramazzotti, M., Parri, M., Recalcati, S., di Tommaso, L. & 6 others, Campani, C., Invernizzi, P., Torzilli, G., Marra, F., Pontisso, P. & Raggi, C., 2022, In: Liver International. 42, 1, p. 233-248

Mitochondrial oxidative metabolism contributes to a cancer stem cell phenotype in cholangiocarcinoma

Raggi, C., Taddei, M. L., Sacco, E., Navari, N., Correnti, M., Piombanti, B., Pastore, M., Campani, C., Pranzini, E., Iorio, J., Lori, G., Lottini, T., Peano, C., Cibella, J., Lewinska, M., Andersen, J. B., di Tommaso, L., Viganò, L., Di Maira, G., Madiari, S. & 5 others, Ramazzotti, M., Orlandi, I., Arcangeli, A., Chiarugi, P. & Marra, F., 2021, In: Journal of Hepatology. 74, 6, p. 1373-1385 13 p.

The altered serum lipidome and its diagnostic potential for Non-Alcoholic Fatty Liver (NAFL)-associated hepatocellular carcinoma: Diagnosis of NAFLD-HCC utilising serum lipidomics

Lewinska, M., Santos-Laso, A., Arretxe, E., Alonso, C., Zhuravleva, E., Jimenez-Agüero, R., Eizaguirre, E., Pareja, M. J., Romero-Gómez, M., Jimenez, M. A., Suppli, M. P., Knop, F. K., Oversoe, S. K., Villadsen, G. E., Decaens, T., Carrilho, F. J., de Oliveira, C. PMS., Sangro, B., Macias, R. I. R., Banales, J. M. & 1 others, Andersen, Jesper Bøje, 2021, In: EBioMedicine. 73, 103661.

Seeking career clarity

Antoniou, C., Burnette, K., Christensen-Quick, A., Lewinska, Monika, Ji, Y., Khalifa, M. M., Nikolaou, A., Srivastava, P., Hollingsworth, B. A., van Rhijn, N., Saurabh, S., Konstantinides, N., Heim, A. B., Moore, E. B., Strong, M., Kosanic, A., Kirshner, S. N., Halder, A. & Waiho, K., 3 Apr 2020, In: Science (New York, N.Y.). 368, 6486, p. 26-28 3 p.

Mitochondrial oxidative metabolism contributes to maintain a cancer stem cell phenotype in cholangiocarcinoma

Raggi, C., Taddei, M. L., Sacco, E., Navari, N., Correnti, M., Piombanti, B., Pastore, M., Iorio, J., Lori, G., Peano, C., Cibella, J., Lewinska, Monika, Andersen, Jesper Bøje, Di Maira, G., Ramazzotti, M., Orlandi, I., Chiarugi, P. & Marra, F., 1 Feb 2020, In: Digestive and Liver Disease. 52, p. e47 1 p.

Therapeutic Rationale to Target Highly Expressed Aurora kinase A Conferring Poor Prognosis in Cholangiocarcinoma

Ding, X., Huang, T., Peng, C., Ahn, K. S., Andersen, Jesper Bøje, Lewinska, Monika, Cao, Y., Xu, G., Chen, G., Kong, B., Friess, H., Shen, S., Roberts, L. R., Wang, L. & Zou, X., 2020, In: Journal of Cancer. 11, 8, p. 2241-2251 11 p.

NextGen advises "Trying to Manage"

Steinhauff, D., Ellwanger, J. H., Lewinska, Monika, Sanganyado, E., Ji, Y., Karawdeniya, B. I., Bochatay, N., Moore, E. B., Coulibaly, A., Ibrahim, S., Jansen, D. S., James, J. I., Cole, D. M., Lipkin, A., Adamowicz, B. M. K., Cohen, C. M., Fatehi, S., Holmstrom, M. H. & Li, R., 4 Oct 2019, In: Science (New York, N.Y.). 366, 6461, p. 28-30 3 p.

Metabolic rearrangements in primary liver cancers: cause and consequences

Satriano, L., Lewinska, Monika, Rodrigues, P. M., Banales, J. M. & Andersen, Jesper Bøje, 2019, In: Nature Reviews. Gastroenterology & Hepatology. 16, 12, p. 748-766 17 p.

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Satriano, L., Lewinska, Monika, Rourke, C. O., Oliveira, D. V., Bhatt, D. K., Taranta, A., Herr, M., Straub, B., Conner, D. E. A., Budhu, D. A., Pomyen, Y., Ma, Tao, Gerhart-Hines, Zach, Stjernegaard, D. C. S., Matter, M., Crocoll, D. C., Wang, X. W., Marquardt, J. & Andersen, Jesper Bøje, 2019, p. e377.

The protein kinase CK2 contributes to the malignant phenotype of cholangiocarcinoma cells

Di Maira, G., Gentilini, A., Pastore, M., Caligiuri, A., Piombanti, B., Raggi, C., Rovida, E., Lewinska, Monika, Andersen, Jesper Bøje, Borgo, C., Salvi, M., Ottaviani, D., Ruzzene, M. & Marra, F., 2019, In: Oncogenesis. 8, 11, p. 61-72 12 p.

Desmoplastic Tumor Microenvironment and Immunotherapy in Cholangiocarcinoma

Høgdall, Dan Taksony Solyom, Lewinska, Monika & Andersen, Jesper Bøje, Mar 2018, In: Trends in Cancer. 4, 3, p. 239-255 17 p.

ZBTB7A governs estrogen receptor alpha expression in breast cancer

Molloy, M. E., Lewinska, Monika, Williamson, A. K., Nguyen, T. T., Kuser-Abali, G., Gong, L., Yan, J., Little, J. B., Pandolfi, P. P. & Yuan, Z. M., 2018, In: Journal of Molecular Cell Biology. 10, 4, p. 273-284 12 p.

PRR14 is a novel activator of the PI3K pathway promoting lung carcinogenesis

Yang, M., Lewinska, Monika, Fan, X., Zhu, J. & Yuan, Z. M., 2016, In: Oncogene. 35, 42, p. 5527-5538 12 p.

Lessons from Hepatocyte-Specific Cyp51 Knockout Mice: Impaired Cholesterol Synthesis Leads to Oval Cell-Driven Liver Injury

Lorbek, G., Perše, M., Jeruc, J., Juvan, P., Gutierrez-Mariscal, F. M., Lewinska, Monika, Gebhardt, R., Keber, R., Horvat, S., Björkhem, I. & Rozman, D., 2015, In: Scientific Reports. 5, 8777.

Hidden disease susceptibility and sexual dimorphism in the heterozygous knockout of Cyp51 from cholesterol synthesis

Lewinska, Monika, Juvan, P., Perse, M., Jeruc, J., Kos, S., Lorbek, G., Urlep, Z., Keber, R., Horvat, S. & Rozman, D., 13 Nov 2014, In: PLoS ONE. 9, 11, e112787.

Polymorphisms of CYP51A1 from cholesterol synthesis: Associations with birth weight and maternal lipid levels and impact on CYP51 protein structure

Lewinska, Monika, Zelenko, U., Merzel, F., Grdadolnik, S. G., Murray, J. C. & Rozman, D., 17 Dec 2013, In: PLoS ONE. 8, 12, e82554.

Low nucleotide variability of CYP51A1 in humans: Meta-Analysis of cholesterol and bile acid synthesis and xenobiotic metabolism pathways

Lewinska, Monika, Zmrzljak, U. P. & Rozman, R., 1 Dec 2013, In: Acta Chimica Slovenica. 60, 4, p. 875-883 9 p.

Novel variants in the CYP51 gene found in Caucasian mothers and neonates with potential to contribute to spontaneous preterm birth

Lewinska, Monika, Jun 2012, In: European Journal of Human Genetics. 20, Supp 1

Cytochrome P450s in the synthesis of cholesterol and bile acids - From mouse models to human diseases

Lorbek, G., Lewinska, Monika & Rozman, D., 1 May 2012, In: FEBS Journal. 279, 9, p. 1516-1533 18 p.