

Personal Details

Name: Julian Weghuber
Email: julian.weghuber@fh-wels.at
Date of birth: 5th December 1979

Education

Study of Genetics 1998-2002 – Vienna Biocenter
PhD study 2002-2005 – MFPL Vienna
Habilitation 2016-2019 – JKU Linz



Further career PostDoc Position in the lab of Prof. Gerhard Schütz 2006-2010 – University of Linz
Senior Researcher and Group leader at the University of Applied Sciences Upper Austria, Wels; 2011-2014
Prof. for Molecular Cellphysiology at the University of Applied Sciences Upper Austria; since 2014
Manager Green Area K1-Center FFoQSI; since 2017
Leader FH OÖ CoE Food Technology and Nutrition; since 2017
Head Josef Ressel Center for Phytogetic Drug Research; since 2019
Head of Study Food Technology and Nutrition at the University of Applied Sciences Upper Austria since 2023



Publikationen

Detection of tropane alkaloid contaminations in unprocessed soybeans and their fate in food and feed processing
Blank-Landeshammer, B., Ranetbauer, C. & Weghuber, J., 1 Okt. 2024, in: Food Control. 168, S. 110963 110963.

Sex-specific pharmacokinetic response to phytoestrogens in *Drosophila melanogaster*
Sadova, N., Blank-Landeshammer, B., Curic, D., Iken, M. & Weghuber, J., 1 Juni 2024, in: Biomedicine and Pharmacotherapy. 175, S. 116612 116612.

Targeted and untargeted screening of a plant extract library established from raw materials originating from Upper Austria
Blank-Landeshammer, B., Schwarzinger, B., Arnaut, V., Gramatte, T., Drotarova, I., Feichtinger, M., Röhr, C. & Weghuber, J., 1 Apr. 2024, in: Food Chemistry. 451, S. 139419 139419.

Identification of Oxidative-Stress-Reducing Plant Extracts from a Novel Extract Library—Comparative Analysis of Cell-Free and Cell-Based In Vitro Assays to Quantitate Antioxidant Activity
Heckmann, M., Stadlbauer, V., Drotárová, I., Gramatte, T., Feichtinger, M., Arnaut, V., Atzmüller, S., Schwarzinger, B., Röhr, C., Blank-Landeshammer, B. & Weghuber, J., 28 Feb. 2024, in: Antioxidants. 13, 3, 297.

Elder (*Sambucus nigra*), identified by high-content screening, counteracts foam cell formation without promoting hepatic lipogenesis
Steinbauer, S., König, A., Neuhauser, C., Schwarzinger, B., Stangl, H., Iken, M., Weghuber, J. & Röhr, C., 12 Feb. 2024, in: Scientific Reports. 14, 1, S. 3547 3547.

Engineering Mesoscale T Cell Receptor Clustering by Plug-and-Play Nanotools
Sánchez, M. F., Faria, S., Frühschulz, S., Werkmann, L., Winter, C., Karimian, T., Lanzerstorfer, P., Plochberger, B., Weghuber, J. & Tampé, R., 2024, (Angenommen/Im Druck) in: Advanced Materials.

Nachhaltige Isoliermaterialien für den gekühlten Online-Lebensmittelhandel
Nicoletti, C., Blank-Landeshammer, B., Dornmayr-Pfaffenhuemer, M., Brandner, M., Weghuber, J. & Pfoser, S., 7 Nov. 2023.

Barrier Properties Improvement of Biopolymers by Means of Bipolar Pulsed DC PACVD Coatings

Nicoletti, C., Delfin, F. A., Forsich, C., Augl, S., Danninger, S., Schachinger, M., Burgstaller, C., Heim, D. & Weghuber, J., 25 Okt. 2023, *66th Annual Technical Conference Proceedings*. Society of Vacuum Coaters, S. 333-338 6 S.

Combined acid hydrolysis and fermentation improves bioactivity of citrus flavonoids in vitro and in vivo

König, A., Sadova, N., Dornmayr, M., Schwarzingler, B., Neuhauser, C., Stadlbauer, V., Wallner, M., Woischitzschläger, J., Müller, A., Tona, R., Kofel, D. & Weghuber, J., 25 Okt. 2023, in: *Communications Biology*. 6, 1, S. 1083 1083.

Sustainable Insulation Materials for the refrigerated Online Grocery Trade

Nicoletti, C., Blank-Landeshammer, B., Dornmayr-Pfaffenhuemer, M., Brandner, M., Weghuber, J. & Pfoser, S., 18 Okt. 2023.

Micellization increases bioavailability and bioefficacy of fat-soluble vitamins in buccal and intestinal cells

Steinbauer, S., Wallner, M., Essl, K., Blank-Landeshammer, B., Röhrl, C., Iken, M. & Weghuber, J., 21 Sep. 2023.

Micellated bioenhancer improves the uptake of B vitamins in the enterocyte Caco-2 cell model

Preinfalk, V., Atzmüller, S., Essl, K., Blank-Landeshammer, B., Iken, M. & Weghuber, J., 20 Sep. 2023.

Wood-based lignans and polyphenols improve intestinal health by strengthening barrier integrity and reducing inflammation

Heckmann, M., Sadova, N., Drotárová, I., Atzmüller, S., Schwarzingler, B., Guedes, R. M. C., Correia, P. A., Hirtenlehner, S., Potthast, C., Klanert, G. & Weghuber, J., 11 Juli 2023.

Wood lignans and polyphenol-based feed supplements alleviate oxidative stress

Klanert, G., Heckmann, M., Sadova, N., Drotárová, I., Atzmüller, S., Schwarzingler, B., Guedes, R. M. C., Correia, P. A., Schwarz, C., Gierus, M., Hirtenlehner, S., Potthast, C. & Weghuber, J., 20 Mai 2023.

Lipoprotein Particles as Shuttles for Hydrophilic Cargo

Weber, F., Axmann, M., Horner, A., Schwarzingler, B., Weghuber, J. & Plochberger, B., 28 Apr. 2023, in: *Membranes*. 13, 5, 471.

Grape seed extract improves intestinal barrier integrity and performance: Evidence from in vitro, Caenorhabditis elegans and Drosophila melanogaster experiments and a study with growing broilers

Sandner, G., Stadlbauer, V., Sadova, N., Neuhauser, C., Schwarzingler, B., Karlsberger, L., Hangweierer, K., Antensteiner, K., Stallinger, A., Aumiller, T. & Weghuber, J., Apr. 2023, in: *Food Bioscience*. 52, 102483.

NORMALIZATION OF LIPID METABOLISM

Weghuber, J. (Erfinder*in), 1 März 2023, IPC Nr. European Patent Application, Patent Nr. EP4140318

Normalisierung des Fettstoffwechsels

Weghuber, J. (Erfinder*in), 3 Feb. 2023, Patent Nr. DE102021122184A

IN-VITRO ANTIDIABETIC ACTIVITY OF A BISTORTA OFFICINALIS DELARBRE ROOT EXTRACT CAN NOT BE CONFIRMED IN THE IN-VIVO MODELS HEN'S EGG TEST AND DROSOPHILA MELANOGASTER

Bauer, I., Rimbach, G., Nevermann, S., Neuhauser, C., Schwarzingler, B., Schwarzingler, C., Weghuber, J. & Luersen, K., Feb. 2023, in: *Journal of Physiology and Pharmacology*. 74, 1, S. 31-42 12 S.

Combination of DNA barcoding, targeted metabolite profiling and multispectral imaging to identify mold species and metabolites in sliced bread

Ollinger, N., Malachova, A., Sulyok, M., Schütz-Kapl, L., Wiesinger, N., Krska, R. & Weghuber, J., Dez. 2022, in: *Future Foods*. 6, 100196.

Dynamic in Situ Confinement Triggers Ligand-Free Neuropeptide Receptor Signaling

Sánchez, F. M., Dietz, M. S., Müller, U., Weghuber, J., Gatterdam, K., Wieneke, R., Heilemann, M., Lanzerstorfer, P. & Tampé, R., 26 Okt. 2022, in: Nano Letters. 22, 20, S. 8363-8371 9 S.

Improved Bioavailability and Bioaccessibility of Lutein and Isoflavones in Cultured Cells In Vitro through Interaction with Ginger, Curcuma and Black Pepper Extracts

Blank-Landeshammer, B., Klanert, G., Mitter, L., Turisser, S., Nusser, N. G., König, A., Iken, M. & Weghuber, J., 27 Sep. 2022, in: Antioxidants. 11, 10, 1917.

Extracts Prepared from Feed Supplements Containing Wood Lignans Improve Intestinal Health by Strengthening Barrier Integrity and Reducing Inflammation

Heckmann, M., Sadova, N., Drotarova, I., Atzmüller, S., Schwarzingler, B., Guedes, R. M. C., Correia, P. A., Hirtenlehner, S., Potthast, C., Klanert, G. & Weghuber, J., 26 Sep. 2022, in: Molecules. 27, 19, 6327.

Quick determination of erucic acid in mustard oils and seeds

Schwarzingler, B., Feichtinger, M., Blank-Landeshammer, B., Schwarzingler, C. & Weghuber, J., Juni 2022, in: Journal of Analytical and Applied Pyrolysis. 164, 164, 105523.

Quick determination of erucic acid in mustard oils and seeds

Schwarzingler, B., Feichtinger, M., Weghuber, J., Blank-Landeshammer, B. & Schwarzingler, C., 16 Mai 2022.

Quick determination of erucic acid in mustard oils and seeds

Blank-Landeshammer, B., Schwarzingler, B., Feichtinger, M., Weghuber, J. & Schwarzingler, C., 12 Mai 2022.

Dissociation of β 2m from MHC class I triggers formation of noncovalent transient heavy chain dimers: Dissociation of β 2m from MHC class I triggers formation of noncovalent transient heavy chain dimers

Dirscherl, C., Löchte, S., Hein, Z., Kopicki, J.-D., Harders, A. R., Linden, N., Karner, A., Preiner, J., Weghuber, J., Garcia-Alai, M., Uetrecht, C., Zacharias, M., Piehler, J., Lanzerstorfer, P. & Springer, S., Mai 2022, in: Journal of Cell Science. 135, 9, jcs259498.

Anti-Hyperglycemic Effects of Oils and Extracts Derived from Sea Buckthorn – A Comprehensive Analysis Utilizing In Vitro and In Vivo Models

Ollinger, N., Neuhauser, C., Schwarzingler, B., Wallner, M., Schwarzingler, C., Blank-Landeshammer, B., Hager, R., Sadova, N., Drotarova, I., Mathmann, K., Karamouzi, E., Panopoulos, P., Rimbach, G., Lüersen, K., Weghuber, J. & Röhrl, C., 15 Apr. 2022, in: Molecular nutrition and food research. 66, 12, S. e2101133 2101133.

A Simplified and Robust Activation Procedure of Glass Surfaces for Printing Proteins and Subcellular Micropatterning Experiments

Karimian, T., Hager, R., Karner, A., Weghuber, J. & Lanzerstorfer, P., 25 Feb. 2022, in: Biosensors. 12, 3, 140.

Fluorescence Microscopy-Based Quantitation of GLUT4 Translocation

Heckmann, M., Klanert, G., Sandner, G. P., Lanzerstorfer, P., Auer, M. & Weghuber, J., 21 Jän. 2022, in: Methods and Applications in Fluorescence. 10, 2, 022001.

Biotransformation of flavonoids by combination of acid treatment and fermentation to improve bioavailability

König, A., Dornmayr-Pfaffenhuemer, M., Schwarzingler, B., Müller, A., Tona, R. & Weghuber, J., 2022.

Microcontact Printing of Biomolecules on Various Polymeric Substrates: Limitations and Applicability for Fluorescence Microscopy and Subcellular Micropatterning Assays

Hager, R., Forsich, C., Duchoslav, J., Burgstaller, C., Stifter, D., Weghuber, J. & Lanzerstorfer, P., 2022, in: ACS Applied Polymer Materials. 4, 10, S. 6887-6896 10 S.

Speziesidentifikation von Schimmelpilzen in Lebensmitteln mittels DNA-Barcoding und Metabolite-Profilung

Ollinger, N., Sulyok, M., Malachova, A., Weghuber, J. & Krska, R., 2022, in: Ernährung. 46, 3-4, S. 54-57 4 S.

Avens Root (Geum Urbanum L.) Extract Discovered by Target-Based Screening Exhibits Antidiabetic Activity in the Hen's Egg Test Model and Drosophila melanogaster

Günther, I., Rimbach, G., Nevermann, S., Neuhauser, C., Stadlbauer, V., Schwarzinger, B., Schwarzinger, C., Ipharraguerre, I. R., Weghuber, J. & Lüersen, K., 15 Dez. 2021, in: *Frontiers in Pharmacology*. 12, S. 794404-794404.

Subcellular Dynamic Immunopatterning of Cytosolic Protein Complexes on Microstructured Polymer Substrates

Hager, R., Müller, U., Ollinger, N., Weghuber, J. & Lanzerstorfer, P., 26 Nov. 2021, in: *ACS Sensors*. 6, 11, S. 4076-4088 13 S.

Aqueous extracts of lingonberry and blackberry leaves identified by high-content screening beneficially act on cholesterol metabolism

Röhrl, C., Steinbauer, S., Bauer, R., Roitinger, E., Otteneder, K., Wallner, M., Neuhauser, C., Schwarzinger, B., Schwarzinger, C., Stangl, H., Iken, M. & Weghuber, J., 7 Nov. 2021, in: *Food and Function*. 12, 21, S. 10432-10442 11 S.

Applicability of polymeric substrates for subcellular live cell micropatterning experiments

Hager, R., Forsich, C., Weghuber, J. & Lanzerstorfer, P., 3 Nov. 2021.

A High-Content Screen for the Identification of Plant Extracts with Insulin Secretion-Modulating Activity

Hager, R., Pitsch, J., Kerbl-Knapp, J., Neuhauser, C., Ollinger, N., Iken, M., Ranner, J., Mittermeier-Kleßinger, V., Dawid, C., Lanzerstorfer, P. & Weghuber, J., 17 Aug. 2021, in: *Pharmaceuticals*. 14, 8, S. 1-23 23 S., 809.

ENGLISH-DAISY EXTRACT

Weghuber, J. (Erfinder*in), 9 Juni 2021, Patent Nr. EP20180752122

Subcellular micropatterning for visual immunoprecipitation reveals differences in cytosolic protein complexes downstream the EGFR

Hager, R., Müller, U., Ollinger, N., Weghuber, J. & Lanzerstorfer, P., 25 Mai 2021, *bioRxiv*, S. 1-23.

Fodmap fingerprinting of bakery products and sourdoughs: Quantitative assessment and content reduction through fermentation

Pitsch, J., Sandner, G., Huemer, J., Huemer, M., Huemer, S. & Weghuber, J., 19 Apr. 2021, in: *Foods*. 10, 4, 894.

Alternative model organisms for toxicological fingerprinting of relevant parameters in food and nutrition

Sandner, G. P., König, A., Wallner, M. & Weghuber, J., 8 März 2021, in: *Critical Reviews in Food Science and Nutrition*. 62, 22, S. 5965-5982 18 S.

Nutrients, bioactive compounds, and minerals in the juices of 16 varieties of apple (Malus domestica) harvested in Austria: A four-year study investigating putative correlations with weather conditions during ripening

Tschida, A., Stadlbauer, V., Schwarzinger, B., Maier, M., Pitsch, J., Stübl, F., Müller, U., Lanzerstorfer, P., Himmelsbach, M., Wruss, J., Schurr, J., Höglinger, O., Winkler, S. & Weghuber, J., 15 Feb. 2021, in: *Food Chemistry*. 338, 128065, 128065.

A visual immunoprecipitation assay for live-cell profiling of cytosolic protein complexes on micropatterned substrates

Hager, R., Müller, U., Ollinger, N., Weghuber, J. & Lanzerstorfer, P., 2021.

Biomolecule micropatterning on different polymeric substrates and its applicability for quantitative fluorescence microscopy

Hager, R., Weghuber, J., Forsich, C., Heim, D. & Lanzerstorfer, P., 2021, *Biomolecule micropatterning on different polymeric substrates and its applicability for quantitative fluorescence microscopy*.

Fermentation of phytochemicals for animal health

König, A., Dornmayr-Pfaffenuemer, M., Schwarzinger, B., Müller, A., Tona, R., Kofel, D. & Weghuber, J., 2021.

Implementation of DNA surface technology on large-area micropatterned substrates for interaction analysis in live cells
Müller, U., Gordiyenko, K., Weghuber, J., Niemeyer, C. M. & Lanzerstorfer, P., 2021.

Motility Analysis and Classification of Lipid Droplets in the Cytosol of Living Cells
Schurr, J., Weghuber, J., Lanzerstorfer, P. & Winkler, S., 2021.

Probing small distances in live cell imaging
Richter, V., Lanzerstorfer, P., Weghuber, J. & Schneckenburger, H., 2021, in: Photonics. 8, 6, 176.

Subcellular micropatterning for visual immunoprecipitation reveals differences in cytosolic protein complexes downstream the EGFR
Hager, R., Müller, U., Ollinger, N., Weghuber, J. & Lanzerstorfer, P., 2021.

TIRF Technologies for Quantitation of Glucose Transporter 4 (Glut4) Translocation: TIRF Technologies for Quantitation of Glucose Transporter 4 (Glut4) Translocation
Schneckenburger, H., Richter, V., Wagner, M., Weber, P., Lanzerstorfer, P., Stadlbauer, V. & Weghuber, J., 2021.

Fluorescence microscopy-based quantitation of glut4 translocation: High throughput or high content?
Stadlbauer, V., Lanzerstorfer, P., Neuhauser, C., Weber, F., Stübl, F., Weber, P., Wagner, M., Plochberger, B., Wieser, S., Schneckenburger, H. & Weghuber, J., 1 Nov. 2020, in: International Journal of Molecular Sciences. 21, 21, S. 1-16 16 S., 7964.

Acute, reproductive, and developmental toxicity of essential oils assessed with alternative in vitro and in vivo systems
Lanzerstorfer, P., Sandner, G. P., Pitsch, J., Mascher, B., Aumiller, T. & Weghuber, J., Nov. 2020, in: Archives of Toxicology. 95, 2, S. 673-691 19 S.

The nucleus measures shape changes for cellular proprioception to control dynamic cell behavior
Venturini, V., Pezzano, F., Català Castro, F., Häkkinen, H. M., Jiménez-Delgado, S., Colomer-Rosell, M., Marro, M., Tolosa-Ramon, Q., Paz-López, S., Valverde, M. A., Weghuber, J., Loza-Alvarez, P., Krieg, M., Wieser, S. & Ruprecht, V., 16 Okt. 2020, in: Science (New York, N.Y.). 370, 6514, 2644.

Super-resolution live cell microscopy of membrane-proximal fluorophores
Richter, V., Lanzerstorfer, P., Weghuber, J. & Schneckenburger, H., 26 Sep. 2020, in: International Journal of Molecular Sciences. 21, 19, S. 1-12 12 S., 7099.

Immunomodulatory activities of selected essential oils
Sandner, G., Heckmann, M. & Weghuber, J., 3 Aug. 2020, in: Biomolecules. 10, 8, S. 1-16 16 S., 1139.

Functional foods - dietary or herbal products on obesity: application of selected bioactive compounds to target lipid metabolism
Sandner, G., König, A., Wallner, M. & Weghuber, J., 1 Aug. 2020, in: Current Opinion in Food Science. 34, S. 9-20 12 S.

DNA barcoding for the identification of mold species in bakery plants and products
Ollinger, N., Lasinger, V., Probst, C., Pitsch, J., Sulyok, M., Krska, R. & Weghuber, J., 15 Juli 2020, in: Food Chemistry. 318, S. 126501 126501.

Roasted Rye as a Coffee Substitute: Methods for Reducing Acrylamide
Pitsch, J., Höglinger, O. & Weghuber, J., 14 Juli 2020, in: Foods. 9, 7, A20.

Highly Modular Protein Micropatterning Sheds Light on the Role of Clathrin-Mediated Endocytosis for the Quantitative Analysis of Protein-Protein Interactions in Live Cells
Lanzerstorfer, P., Müller, U., Gordiyenko, K., Weghuber, J. & Niemeyer, C., 2 Apr. 2020, in: Biomolecules. 10, 4, 540.

Ginseng Extract Ameliorates the Negative Physiological Effects of Heat Stress by Supporting Heat Shock Response and Improving Intestinal Barrier Integrity: Evidence from Studies with Heat-Stressed Caco-2 Cells, C. elegans and Growing Broilers

Sandner, G. P., Müller, A., Zhou, X., Stadlbauer, V., Schwarzingler, B., Schwarzingler, C., Männer, K., Wenzel, U., Aumiller, T. & Weghuber, J., 14 Feb. 2020, in: *Molecules*. 25, 4, 835.

Increased Cellular Uptake of Polyunsaturated Fatty Acids and Phytosterols from Natural Micellar Oil

Röhl, C., Stübl, F., Maier, M., Schwarzingler, B., Schwarzingler, C., Pitsch, J., Lanzerstorfer, P., Iken, M. & Weghuber, J., 5 Jän. 2020, in: *Nutrients*. 12, 1, 150.

Fabrication, characterization and application of biomolecule micropatterns on cyclic olefin polymer (COP) surfaces with adjustable contrast

Hager, R., Haselgrübler, T., Haas, S., Lipp, A. M. & Weghuber, J., 28 Dez. 2019, in: *Biosensors*. 10, 1, 3.

Hypolipidemic effects of herbal extracts by reduction of adipocyte differentiation, intracellular neutral lipid content, lipolysis, fatty acid exchange and lipid droplet motility.

Haselgrübler, R., Lanzerstorfer, P., Röhl, C., Stübl, F., Schurr, J., Schwarzingler, B., Schwarzingler, C., Brameshuber, M., Wieser, S., Winkler, S. & Weghuber, J., 1 Dez. 2019, in: *Scientific Reports*. 9, 1, 10492.

Hydrophilic interaction chromatography coupled with charged aerosol detection for simultaneous quantitation of carbohydrates, polyols and ions in food and beverages

Weghuber, J. & Pitsch, J., 27 Nov. 2019, in: *Molecules*. 24, 23, 4333.

GUAVA EXTRACT

Weghuber, J. (Erfinder*in), 24 Okt. 2019, Patent Nr. PCT/EP2018/059743

Guava (Psidium guajava) Fruit Extract Prepared by Supercritical CO₂ Extraction Inhibits Intestinal Glucose Resorption in a Double-Blind, Randomized Clinical Study

König, A., Schwarzingler, B., Stadlbauer, V., Lanzerstorfer, P., Iken, M., Schwarzingler, C., Schwarzingler, S., Höglinger, O., Weghuber, D. & Weghuber, J., Juli 2019, in: *Nutrients*. 11, 7, 1512.

Combining TIR and FRET in Molecular Test Systems

Schneckenburger, H., Weber, P., Wagner, M., Enderle, S., Kalthof, B., Schneider, L., Herzog, C., Weghuber, J. & Lanzerstorfer, P., 1 Feb. 2019, in: *International Journal of Molecular Sciences*. 20, 3, 648.

A holistic approach for the toxicological assessment of phytogetic substances in human and animal nutrition.

Lanzerstorfer, P., Grasberger, J., Sandner, G. P., Stübl, F. & Weghuber, J., 2019, *ALTEX*.

A versatile micropatterning approach for studying live cell signalling events

Lanzerstorfer, P., Müller, U., Hager, R., Dirscherl, C., Gordiyenko, K., Niemeyer, C. M., Springer, S. & Weghuber, J., 2019, *23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019*. Chemical and Biological Microsystems Society, S. 1528-1529 2 S. (23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019).

Combining TIR and FRET: From fluorescence microscopy to a multi-well reader system

Schneckenburger, H., Weber, P., Wagner, M., Enderle, S., Weghuber, J. & Lanzerstorfer, P., 2019, *Advances in Microscopic Imaging II*. Beaurepaire, E. & Pavone, F. S. (Hrsg.). SPIE, 110761C. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE; Band 11076).

COMPOSITION CONTAINING GUAJAVERIN FOR REDUCING AND/OR SUPPRESSING AN INTESTINAL GLUCOSE RESORPTION, NUTRITIONAL SUPPLEMENT, USE OF THE COMPOSITION AND PROCESS FOR PRODUCING THE NUTRITIONAL SUPPLEMENT

Weghuber, J. (Erfinder*in), 19 Dez. 2018, Patent Nr. EP20170703979

Insulin Mimetic Properties of Extracts Prepared from *Bellis perennis*

Haselgrübler, R., Stadlbauer, V., Stübl, F., Schwarzinger, B., Rudzionyte, I., Himmelsbach, M., Iken, M. & Weghuber, J., 11 Okt. 2018, in: *Molecules*. 23, 10, 2605.

Direct observation of cargo transfer from HDL particles to the plasma membrane

Plochberger, B., Axmann, M., Röhl, C., Weghuber, J., Brameshuber, M., Mayr, S., Ros, R., Bittmann, R., Stangl, H. & Schütz, G., Okt. 2018, in: *Atherosclerosis*. 277, S. 53-59 7 S.

In vitro and in vivo inhibition of intestinal glucose transport by guava (*Psidium guajava*) extracts

Müller, U., Stübl, F., Schwarzinger, B., Sandner, G. P., Iken, M., Himmelsbach, M., Schwarzinger, C., Ollinger, N., Stadlbauer, V., Höglinger, O., Lanzerstorfer, P. & Weghuber, J., Juni 2018, in: *Molecular nutrition and food research*. 62, 11, 1701012.

An In-ovo Model for Testing Insulin-Mimetic Compounds

Haselgrübler, R., Stübl, F., Stadlbauer, V., Lanzerstorfer, P. & Weghuber, J., 23 Apr. 2018, in: *JOVE*. 2018, 134, e57237.

IRS-1 acts as an endocytic regulator of IGF-I receptor to facilitate sustained IGF signaling

Yoneyama, Y., Lanzerstorfer, P., Niwa, H., Umehara, T., Shibano, T., Yokoyama, S., Chida, K., Weghuber, J., Hakuno, F. & Takahashi, S.-I., 11 Apr. 2018, in: *eLIFE*. 7, e32893.

Effects of Various Commercial Whole-Grain Breads on Postprandial Blood Glucose Response and Glycemic Index in Healthy Subjects

Lanzerstorfer, P., Rechenmacher, E., Lugmayr, O., Stadlbauer, V., Höglinger, O., Vollmar, A. & Weghuber, J., Feb. 2018, in: *Austin Journal of Clinical Medicine*. 5, 1

RESPONSE OF THE GLUCOSE TRANSPORTER DUE TO DIFFERENTIAL STIMULATION

Weber, F., Brodesser, M., Axmann, M., Weghuber, J. & Plochberger, B., 2018, S. -. 1 S.

Possible Molecular Mechanisms by Which an Essential Oil Blend from Star Anise, Rosemary, Thyme, and Oregano and Saponins Increase the Performance and Ileal Protein Digestibility of Growing Broilers

Reyer, H., Zentek, J., Männer, K., Youssef, I. M. I., Aumiller, T., Weghuber, J., Wimmers, K. & Mueller, A. S., 16 Aug. 2017, in: *Journal of Agricultural and Food Chemistry*. 65, 32, S. 6821-6830 10 S.

Zusammensetzung zur Reduzierung und/oder Hemmung einer intestinalen Glucose-Resorption, Nahrungsergänzungsmittel, Verwendung der Zusammensetzung und Verfahren zur Herstellung des Nahrungsergänzungsmittels

Weghuber, J. (Erfinder*in) & Kühne, T. (Erfinder*in), 10 Aug. 2017, Patent Nr. DE102016102271A

Gluc-HET, a complementary chick embryo model for the characterization of antidiabetic compounds

Haselgrübler, R., Stübl, F., Essl, K., Iken, M., Schröder, K. & Weghuber, J., Aug. 2017, in: *PLoS ONE*. 12, 8, e0182788.

Analysis of Receptor Tyrosine Kinase and G-Protein Coupled Receptor Signaling Dynamics on Micro-Structured Surfaces

Lanzerstorfer, P., Yoneyama, Y., Hakuno, F., Zindel, D., Müller, U., Krasel, C., Bünemann, M., Höglinger, O., Takahashi, S.-I. & Weghuber, J., Feb. 2017, in: *Biophysical Journal*. 112, 3

Multi-level suppression of receptor-PI3K-mTORC1 by fatty acid synthase inhibitors is crucial for their efficacy against ovarian cancer cells

Wagner, R., Stübiger, G., Veigel, D., Wuczkowski, M., Lanzerstorfer, P., Weghuber, J., Karteris, E., Nowikovsky, K., Wilfinger, N., Singer, C., Colomer, R., Benhamu, B., Lopez-Rodriguez, M., Valent, P. & Grunt, T., Feb. 2017, in: *Oncotarget*. 8, 7, S. 11600-11613 14 S.

Protein micropatterning assay: Quantitative analysis of protein-protein interactions

Schütz, G., Weghuber, J., Lanzerstorfer, P. & Sevcsik, E., 2017, *Methods in Molecular Biology*. Humana Press Inc., Band 1550. S. 261-270 10 S. (Methods in Molecular Biology; Band 1550).

Studying protein-protein interactions (PPIs) of receptor tyrosine kinases on μ -patterned surfaces

Weghuber, J., 2017, *ÖGMBT meeting 2013*.

Sustaining elevated levels of nitrite in the oral cavity through consumption of nitrate-rich beetroot juice in young healthy adults reduces salivary pH

Hohensinn, B., Haselgrübler, R., Müller, U., Stadlbauer, V., Lanzerstorfer, P., Lirk, G., Höglinger, O. & Weghuber, J., 30 Nov. 2016, in: *Nitric Oxide - Biology and Chemistry*. 60, S. 10-15 6 S.

Varying label density allows artifact-free analysis of membrane-protein nanoclusters

Baumgart, F., Arnold, A., Leskovar, K., Staszek, K., Fölser, M., Weghuber, J., Stockinger, H. & Schütz, G., 28 Juli 2016, in: *Nature Methods*. 13, 8, S. 661-664 4 S.

Exploiting cross-talk between lipid metabolism and oncogenic signaling for treatment of ovarian cancer

Wagner, R., Stübiger, G., Lanzerstorfer, P., Weghuber, J., Karteris, E., Nowikovsky, K., Wilfinger, N., Colomer, R., Regueiro Rodríguez, M. L. & Grunt, T., Juli 2016, in: *European Journal of Cancer*. 61, 1, S. 61-61

Analysis of Receptor Tyrosine Kinase and G-Protein Coupled Receptor Signaling Dynamics on Micro-Structured Surfaces

Lanzerstorfer, P., Yoneyama, Y., Müller, U., Haselgrübler, R., Zindel, D., Höglinger, O., Hakuno, F., Krasel, C., Takahashi, S.-I., Bünemann, M. & Weghuber, J., Feb. 2016, in: *Biophysical Journal*. 110, 3

Receptor-Mediated HDL-Lipid Uptake is Regulated by Elastic Properties of the Plasma Membrane

Plochberger, B., Röhr, C., Stangl, H., Preiner, J., Hinterdorfer, P., Schütz, G., Weghuber, J. & Sezgin, E., Feb. 2016, in: *Biophysical Journal*. 110, 3, S. 521a

Biomolecular Characterization of Putative Antidiabetic Herbal Extracts

Stadlbauer, V., Haselgrübler, R., Lanzerstorfer, P., Plochberger, B., Borgmann, D. M., Jacak, J., Winkler, S., Schröder, K., Höglinger, O. & Weghuber, J., 1 Jän. 2016, in: *PLoS ONE*. 11, 1, S. e0148109 e0148109.

Compositional characteristics of commercial beetroot products and beetroot juice prepared from seven beetroot varieties grown in Upper Austria

Wruss, J., Waldenberger, G., Huemer, S., Uygun, P., Lanzerstorfer, P., Müller, U., Höglinger, O. & Weghuber, J., 1 Sep. 2015, in: *Journal of Food Composition and Analysis*. 42, 1, S. 46-55 10 S.

GPI-anchored proteins do not reside in ordered domains in the live cell plasma membrane

Sevcsik, E., Brameshuber, M., Fölser, M., Weghuber, J., Honigmann, A. & Schütz, G., 21 Apr. 2015, in: *Nature Communications*. 6, S. 6969 6969.

Differences in pharmacokinetics of apple polyphenols after standardized oral consumption of unprocessed apple juice

Wruss, J., Lanzerstorfer, P., Huemer, S., Himmelsbach, M., Mangge, H., Höglinger, O., Weghuber, D. & Weghuber, J., 1 Apr. 2015, in: *Nutrition Journal*. 14, 1, S. 32 32.

Analysis of insulin receptor substrate signaling dynamics on microstructured surfaces

Lanzerstorfer, P., Yoneyama, Y., Hakuno, F., Müller, U., Höglinger, O., Takahashi, S.-I. & Weghuber, J., März 2015, in: *FEBS Journal*. 282, 6, S. 987-1005 19 S.

Engineered hyperphosphorylation of the β_2 - Adrenoceptor prolongs arrestin-3 binding and induces arrestin internalization

Zindel, D., Butcher, A. J., Al-Sabah, S., Lanzerstorfer, P., Weghuber, J., Tobin, A. B., Bünemann, M. & Krasel, C., Feb. 2015, in: *Molecular Pharmacology*. 87, 2, S. 349-362 14 S.

Localization and dynamics of beta-adrenergic receptor mediated EGFR transactivation on micro-patterned surfaces

Lanzerstorfer, P., Müller, U., Zindel, D., Höglinger, O., Krasel, C., Bünemann, M. & Weghuber, J., Jän. 2015, in: *Biophysical Journal*. 108, 2, 95 S.

Novel strategies for micro-contact printing based protein-protein interaction detection.

Müller, U., Lanzerstorfer, P., Arnold, A., Sevcsik, E., Kreindl, G., Höglinger, O., Schütz, G. & Weghuber, J., Jän. 2015, in: Biophysical Journal. 108, 2, S. 480-481

Bioinformatic analysis of total internal reflection fluorescence microscopy (TIRFM) data in the context of type 2 diabetes and cancer signaling

Borgmann, D. M., Lanzerstorfer, P., Stadlbauer, V., Müller, U., Winkler, S. & Weghuber, J., 2015, *Proceedings of the 23rd Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)*.

Identification and classification of objects and motions in microscopy images of biological samples using heuristic algorithms

Winkler, S., Schaller, S., Borgmann, D. M., Dorfer, V., Affenzeller, M., Jacak, J., Redl, H. & Weghuber, J., 2015, in: *Studies in Computational Intelligence*. 595, S. 103-117 15 S.

Quantitative Protein-Protein Interaction Detection

Weghuber, J., 2015, 21 S.

Identification of novel insulin mimetic drugs by quantitative total internal reflection fluorescence (TIRF) microscopy

Lanzerstorfer, P., Stadlbauer, V., Chtcheglova, L., Haselgrübler, R., Borgmann, D. M., Wruss, J., Hinterdorfer, P., Schröder, K., Winkler, S., Höglinger, O. & Weghuber, J., 1 Dez. 2014, in: *British Journal of Pharmacology*. 171, 23, S. 5237-5251 15 S.

Quantification and Kinetic Analysis of Grb2-EGFR Interaction on Micro-Patterned Surfaces for the Characterization of EGFR-Modulating Substances

Lanzerstorfer, P., Borgmann, D. M., Schütz, G., Winkler, S., Höglinger, O. & Weghuber, J., 21 März 2014, in: *PLoS ONE*. 9, 3, S. e92151 e92151.

Bioanalytical characterization of apple juice from 88 grafted and nongrafted apple varieties grown in Upper Austria

Lanzerstorfer, P., Wruss, J., Huemer, S., Steininger, A., Müller, U., Himmelsbach, M., Borgmann, D. M., Winkler, S., Höglinger, O. & Weghuber, J., 5 Feb. 2014, in: *Journal of Agricultural and Food Chemistry*. 62, 5, S. 1047-1056 10 S.

The substance behind "an apple a day"

Höglinger, O. & Weghuber, J., Feb. 2014, in: *The World of Food Ingredients*. 2, 2

Total Internal Reflection Fluorescence (TIRF) Microscopy Guided Quantification of GLUT4 Translocation for the Identification of Insulin Mimetic Drugs

Stadlbauer, V., Lanzerstorfer, P., Borgmann, D. M., Wruss, J., Schröder, K., Winkler, S., Höglinger, O. & Weghuber, J., Jän. 2014, in: *Biophysical Journal*. 106, 2

Characterization of various pattern designs for micro-contact printing based protein-protein interaction detection

Müller, U., Lanzerstorfer, P., Arnold, A., Sevcsik, E., Kreindl, G., Höglinger, O., Schütz, G. & Weghuber, J., 2014.

Identification of Novel Insulin Mimetic Drugs by Quantitative TIRF Microscopy

Lanzerstorfer, P., Stadlbauer, V., Borgmann, D. M., Wruss, J., Schröder, K., Winkler, S., Höglinger, O. & Weghuber, J., 2014.

Micro-structured surfaces as a superior tool for the quantitative analysis of protein-protein interactions in living cells

Lanzerstorfer, P., Müller, U., Bünemann, M., Kreindl, G., Krasel, C., Takahashi, S.-I., Höglinger, O. & Weghuber, J., 2014.

Determination of binding curves via protein micropatterning in vitro and in living cells

Sunzenauer, S., Zojer, V., Tröls, A., Brameshuber, M., Weghuber, J., Stockinger, H. & Schütz, G., Sep. 2013, in: *Cytometry Part A*. 83, 9, S. 847-854 8 S.

Analysis of Protein-Protein Interactions in Live Cells – The μ -Patterning Approach

Lanzerstorfer, P., Borgmann, D. M., Steininger, A., Schaller, S., Sunzenauer, S., Brameshuber, M., Schütz, G., Winkler, S., Höglinger, O. & Weghuber, J., 2013, (In Vorbereitung) *Basic Methods in Protein Purification and Analysis*.

Biophysical and biochemical characterization of insulin-dependent cellular systems in response to secondary plant metabolites

Höglinger, O., Steininger, A., Lanzerstorfer, P. & Weghuber, J., 2013, 7. *Forschungsforums der Österreichischen Fachhochschulen: Tagungsband*. Wissenschaftlicher Verlag Berlin Olaf Gaudig & Peter Veit GbR

Characterization of regulatory effects of fruit- and vegetable-juices on CYP450 gene expression levels

Gintner, D. C., Höglinger, O. & Weghuber, J., 2013, *Tagungsband des 7. Forschungsforums der Österreichischen Fachhochschulen*. Wissenschaftlicher Verlag Berlin Olaf Gaudig & Peter Veit GbR

From ancient apples and new technologies

Weghuber, J., 2013, (Angenommen/Im Druck) *World of Food Ingredients*.

Micro-pattern based EGFR drug screening

Weghuber, J., 2013, (Angenommen/Im Druck) *Genetic Engineering and Biotechnology News*.

Protein-protein interactions of the β -adrenergic receptor and kinetic analysis of intracellular binding partners via μ -patterned surfaces

Lanzerstorfer, P., Krasel, C., Höglinger, O. & Weghuber, J., 2013, *Protein-protein interactions of the β -adrenergic receptor and kinetic analysis of intracellular binding partners via μ -patterned surfaces*.

Studying protein-protein interactions of receptor tyrosine kinases studied on μ -patterned surfaces

Weghuber, J., 2013.

Analysis of compositional characteristics of apple varieties from Upper Austria

Höglinger, O., Redl, B. C., Kampitsch, T., Kröppl, M., Lanzerstorfer, P. & Weghuber, J., 2012, S. 136-.

Analysis of Protein-Protein Interactions in Live Cells - The Micropatterning Approach

Lanzerstorfer, P., Borgmann, D. M., Steininger, A., Schaller, S., Brameshuber, M., Sunzenauer, S., Höglinger, O. & Weghuber, J., 2012, *Basic Methods in Protein Purification and Analysis*.

An Image Analysis Suite for Automated Spot Detection in Cellular and Nano Structures of Microscopy Images

Schaller, S., Jacak, J., Borgmann, D. M., Weghuber, J. & Winkler, S., 2012, *Proceedings of the 20th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)*. International Society for Computational Biology

Biochemical characterization of apple cultivars from Upper Austria - Biochemische Charakterisierung von Apfelsorten aus Oberösterreich

Kröppl, M., Höglinger, O., Kampitsch, T., Lanzerstorfer, P., Weghuber, J. & Redl, B. C., 2012, 67. *ALVA-Jahrestagung*, Wien.

 μ Detect: Design of a Framework for Optimized Structure Analysis in Fluorescence Microscopy Images

Schaller, S., Winkler, S., Weghuber, J., Sams, M. & Jacak, J., 2012, *Tagungsband des 6. Forschungsforums der österreichischen Fachhochschulen*. S. 125-129

Drug Screening on signal transduction proteins via μ -patterned surfaces

Lanzerstorfer, P., Sunzenauer, S., Brameshuber, M., Schütz, G., Takahashi, S.-I., Bünemann, M., Höglinger, O. & Weghuber, J., 2012, *56th Biophysical Society Meeting, San Diego*.

Electrophysiological techniques for mitochondrial channels

Schindl, R. & Weghuber, J., 2012, (Angenommen/Im Druck) *Patch Clamp Technique*. InTech

Identification of patterns in microscopy images of biological samples using evolution strategies

Borgmann, D. M., Weghuber, J., Schaller, S., Jacak, J. & Winkler, S., 2012, *24th European Modeling and Simulation Symposium, EMSS 2012*. S. 271-276 6 S. (24th European Modeling and Simulation Symposium, EMSS 2012).

Multimerization studies of membrane receptors via μ -patterned surfaces

Lanzerstorfer, P., Sunzenauer, S., Brameshuber, M., Schütz, G., Höglinger, O., Bünemann, M. & Weghuber, J., 2012, *Biophysical Society meeting 2012*.

Studying molecular effects of plant polyphenols on plasma-membrane localized signalling molecules

Lanzerstorfer, P., Höglinger, O. & Weghuber, J., 2012, *67. ALVA Jahrestagung*.

Cationic amphipathic peptides accumulate sialylated proteins and lipids in the plasma membrane of eukaryotic host cells

Weghuber, J., Aichinger, M., Brameshuber, M., Wieser, S., Ruprecht, V., Plochberger, B., Madl, J., Horner, A., Reipert, S., Lohner, K., Henics, T. & Schütz, G., Okt. 2011, in: *Biochimica et Biophysica Acta - Biomembranes*. 1808, 10, S. 2581-2590 10 S.

Adjuvating the adjuvant: Facilitated delivery of an immunomodulatory oligonucleotide to TLR9 by a cationic antimicrobial peptide in dendritic cells

Aichinger, M. C., Ginzler, M., Weghuber, J., Zimmermann, L., Riedl, K., Schütz, G., Nagy, E., von Gabain, A., Schweyen, R. & Henics, T., 10 Jän. 2011, in: *Vaccine*. 29, 3, S. 426-436 11 S.

Drug Screening on signal transduction proteins via μ -patterned surfaces

Lanzerstorfer, P., Sunzenauer, S., Schütz, G., Bünemann, M., Takahashi, S.-I., Höglinger, O. & Weghuber, J., 2011, *EMBO Meeting*.

Forscher der FH-Wels mit völlig neuartiger Methode

Weghuber, J., 2011, *Tips Wels*.

Studying protein-protein interactions (PPIs) of receptor tyrosine kinases on μ -patterned surfaces

Weghuber, J., 2011, *EMBO Meeting*.

Imaging of mobile long-lived nanoplateforms in the live cell plasma membrane

Brameshuber, M., Weghuber, J., Ruprecht, V., Gombos, I., Horváth, I., Vigh, L., Eckerstorfer, P., Kiss, E., Stockinger, H. & Schütz, G. J., 31 Dez. 2010, in: *Journal of Biological Chemistry*. 285, 53, S. 41765-41771 7 S.

Resting State Orai1 Diffuses as Homotetramer in the Plasma Membrane of Live Mammalian Cells

Weghuber, J., 24 Dez. 2010, in: *Journal of Biological Chemistry*. 285, 52, S. 41135-41142 8 S.

Cholesterol Slows down the Lateral Mobility of an Oxidized Phospholipid in a Supported Lipid Bilayer

Plochberger, B. & Weghuber, J., 16 Nov. 2010, in: *Langmuir*. 26, 22, S. 17322-17329 8 S.

Antimicrobial and immunostimulatory peptide, KLK, induces an increase in cytosolic Ca^{2+} concentration by mobilizing Ca^{2+} from intracellular stores

Weghuber, J., Lipp, A. M., Stadlbauer, J., Aichinger, M. C., Ruprecht, V., Sonnleitner, A., Schütz, G. J. & Henics, T., Nov. 2010, in: *Cell Biology International*. 34, 11, S. 1109-1112 4 S.

Lpe10p modulates the activity of the Mrs2p-based yeast mitochondrial Mg^{2+} channel

Sponder, G., Svidova, S., Schindl, R., Wieser, S., Schweyen, R. J., Romanin, C., Froschauer, E. M. & Weghuber, J., Sep. 2010, in: *FEBS Journal*. 277, 17, S. 3514-3525 12 S.

Detection of protein-protein interactions in the live cell plasma membrane by quantifying prey redistribution upon bait micropatterning

Weghuber, J., Brameshuber, M., Sunzenauer, S., Lehner, M., Paar, C., Haselgrübler, T., Schwarzenbacher, M., Kaltenbrunner, M., Hesch, C., Paster, W., Heise, B., Sonnleitner, A., Stockinger, H. & Schütz, G. J., Aug. 2010, in:

Methods in Enzymology. 472, 472, S. 133-151 19 S.

Temporal resolution of protein-protein interactions in the live-cell plasma membrane

Weghuber, J., Sunzenauer, S., Plochberger, B., Brameshuber, M., Haselgrübler, T. & Schütz, G. J., Aug. 2010, in: Analytical and Bioanalytical Chemistry. 397, 8, S. 3339-3347 9 S.

Direct observation and quantitative analysis of Lck exchange between plasma membrane and cytosol in living T cells

Zimmermann, L., Paster, W., Weghuber, J., Eckerstorfer, P., Stockinger, H. & Schütz, G. J., 26 Feb. 2010, in: Journal of Biological Chemistry. 285, 9, S. 6063-6070 8 S.

Measuring colocalization by dual color single molecule imaging. Thresholds, error rates, and sensitivity

Ruprecht, V., Weghuber, J., Wieser, S. & Schütz, G. J., 2010, in: Advances in Biomembranes and Lipid Self-Assembly. 12, C, S. 21-40 20 S.

A root-expressed magnesium transporter of the MRS2/MGT gene family in Arabidopsis thaliana allows for growth in Low-Mg²⁺ environments

Gebert, M., Meschenmoser, K., Svidová, S., Weghuber, J., Schweyen, R., Eifler, K., Lenz, H., Weyand, K. & Knoop, V., Dez. 2009, in: Plant Cell. 21, 12, S. 4018-4030 13 S.

Reply to "Uncoupling diffusion and binding in FRAP experiments"

Weghuber, J., März 2009, in: Nature Methods. 6, 3

Cell-to-cell variability in the diffusion constants of the plasma membrane proteins CD59 and CD147

Wieser, S., Weghuber, J., Sams, M., Stockinger, H. & Schütz, G. J., 2009, in: Soft Matter. 5, 17, S. 3287-3294 8 S.

Reply

Brameshuber, M., Schwarzenbacher, M., Kaltenbrunner, M., Hesch, C., Paster, W., Weghuber, J., Heise, B., Sonnleitner, A., Stockinger, H. & Schütz, G. J., 2009, in: Nature Methods. 6, 3, S. 183-184 2 S.

Different types of cell-to-cell connections mediated by nanotubular structures

Veranič, P., Lokar, M., Schütz, G. J., Weghuber, J., Wieser, S., Hägerstrand, H., Kralj-Iglič, V. & Iglič, A., 1 Nov. 2008, in: Biophysical Journal. 95, 9, S. 4416-4425 10 S.

Micropatterning for quantitative analysis of protein-protein interactions in living cells

Schwarzenbacher, M., Kaltenbrunner, M., Brameshuber, M., Hesch, C., Paster, W., Weghuber, J., Heise, B., Sonnleitner, A., Stockinger, H. & Schütz, G. J., 2008, in: Nature Methods. 5, 12, S. 1053-1060 8 S.

Mrs2p forms a high conductance Mg²⁺ selective channel in mitochondria

Schindl, R., Weghuber, J., Romanin, C. & Schweyen, R. J., 1 Dez. 2007, in: Biophysical Journal. 93, 11, S. 3872-3883 12 S.

Mutational analysis of functional domains in Mrs2p, the mitochondrial Mg²⁺ channel protein of Saccharomyces cerevisiae

Weghuber, J., Dieterich, F., Froschauer, E. M., Svidová, S. & Schweyen, R. J., März 2006, in: FEBS Journal. 273, 6, S. 1198-1209 12 S.

Mitochondrial Magnesium channels

Weghuber, J., 2005

Mrs2p is an essential component of the major electrophoretic Mg²⁺ influx system in mitochondria

Kolisek, M., Zsurka, G., Samaj, J., Weghuber, J., Schweyen, R. J. & Schweigel, M., 17 März 2003, in: EMBO Journal. 22, 6, S. 1235-1244 10 S.

The mitochondrial Mrs2 protein of Saccharomyces cerevisiae: functional and structural studies of a Mg²⁺ channel protein

Weghuber, J., 2002

Aktivitäten

Phytochemicals for health beneficial effects in humans

Weghuber, J. (Redner*in)
23 Juni 2023

Phytochemicals for health beneficial effects in animals and humans

Weghuber, J. (Redner*in)
5 Juni 2023

Die Zukunft der menschlichen Ernährung – Pflanzliche Lebensmittel, Entwicklungen, Future Trends

Weghuber, J. (Redner*in)
13 März 2023

Speakersday BRG Kirchdorf Krems

Weghuber, J. (Redner*in)
28 Feb. 2023

Phytochemicals for health beneficial effects in animals and humans

Weghuber, J. (Redner*in)
16 Feb. 2023

Research Center Wels (Organisation)

Weghuber, J. (Vorsitzende)
1 Jän. 2023 → 31 Dez. 2023

Research Center Wels (Organisation)

Weghuber, J. (Vorsitzende)
1 Jän. 2023 → 31 Dez. 2023

Bioaktive Pflanzenwirkstoffe für eine verbesserte (Tier)Gesundheit

Weghuber, J. (Redner*in)
18 Nov. 2021

FFoQSI Academay – Part I

Weghuber, J. (Organisator*in)
12 Juli 2021

Forschung und Entwicklung am FH OÖ Center of Excellence Lebensmitteltechnologie und Ernährung

Weghuber, J. (Redner*in)
5 Juli 2021

Innovation und Nachhaltigkeit in der Lebensmitteltechnologie und Ernährung – Einblicke in aktuelle Forschungsprojekte

Weghuber, J. (Redner*in)
15 Apr. 2021

Josef Ressel Zentrum für Phyto gene Wirkstoffforschung

Weghuber, J. (Redner*in)
28 Jän. 2021

A versatile micropatterning approach for studying live cell signaling events

Weghuber, J. (Redner*in), Lanzerstorfer, P. (Redner*in), Müller, U. (Redner*in), Hager, R. (Redner*in), Dirscherl, C. (Redner*in), Niemeyer, C. (Redner*in) & Springer, S. (Redner*in)

28 Okt. 2019

A holistic approach for the toxicological assessment of phytochemical substances in human and animal nutrition.

Weghuber, J. (Redner*in), Lanzerstorfer, P. (Redner*in), Sandner, G. P. (Redner*in) & Grasberger, J. (Redner*in)
11 Okt. 2019

A micropatterning platform for the quantification of insulin secretion in β cells

Weghuber, J. (Redner*in), Lanzerstorfer, P. (Redner*in) & Hager, R. (Redner*in)
10 Okt. 2019

Detection and identification of mold in bakery products

Weghuber, J. (Redner*in), Lasinger, V. (Redner*in), Ollinger, N. (Redner*in) & Huemer, S. (Redner*in)
18 Sep. 2019

Development of an universal HPLC-method for detection of a broad variety of food and feed ingredients

Weghuber, J. (Redner*in), Pitsch, J. (Redner*in) & Huemer, S. (Redner*in)
17 Sep. 2019

C. elegans as a suitable model system for the characterization of bioactive compounds

Sandner, G. P. (Redner*in), Lanzerstorfer, P. (Redner*in), Weghuber, J. (Redner*in), Stadlbauer, V. (Redner*in) & Müller, A. (Redner*in)
16 Sep. 2019

Combining TIR and FRET: From Fluorescence Microscopy to a Multi-well Reader System

Lanzerstorfer, P. (Redner*in), Weghuber, J. (Redner*in), Schneckenburger, H. (Redner*in), Weber, P. (Redner*in) & Wagner, M. (Redner*in)
24 Juni 2019

Total internal reflection fluorescence microscopy (TIRFM) guided analysis for studying live cell signalling events on micropatterned surfaces

Weghuber, J. (Redner*in)
6 Mai 2019

Analysis of EGFR downstream signaling dynamics by live cell micropatterning

Weghuber, J. (Redner*in), Lanzerstorfer, P. (Redner*in), Ollinger, N. (Redner*in) & Penninger, L. (Redner*in)
26 Nov. 2018

Pflanzliche Wirkstoffe zur Prävention und therapeutischen Behandlung von Typ 2 Diabetes Mellitus

Weghuber, J. (Redner*in)
14 Nov. 2018

Anti-inflammatory feed additives

Weghuber, J. (Redner*in), Stadlbauer, V. (Redner*in), Sandner, G. P. (Redner*in) & Müller, A. (Redner*in)
8 Nov. 2018

Gluc-HET – an in-ovo system for the identification of insulin-mimetic compounds

Weghuber, J. (Redner*in), Haselgrübler, R. (Redner*in), Schröder, K. (Redner*in), Stübl, F. (Redner*in) & Iken, M. (Redner*in)
26 Sep. 2018

Identification of fungi occurring in bread fermentation Identification of fungi occurring in bread fermentation Identification of fungi occurring in bread fermentation

Weghuber, J. (Redner*in), Pitsch, J. (Redner*in) & Ollinger, N. (Redner*in)
20 Sep. 2018

Gluc-HET – an in-ovo system for the identification of insulin-mimetic compounds

Weghuber, J. (Redner*in), Haselgrübler, R. (Redner*in), Schröder, K. (Redner*in), Stübl, F. (Redner*in) & Iken, M. (Redner*in)
18 Sep. 2018

Method development and characterization of protective mechanisms of phytogetic compounds in various live-stock species via gene expression analysis

Sandner, G. P. (Redner*in), Weghuber, J. (Redner*in), Stadlbauer, V. (Redner*in) & Müller, A. (Redner*in)
18 Sep. 2018

FRET-Mikroskopie – Diagnostik auf molekularer Ebene

Weghuber, J. (Redner*in), Lanzerstorfer, P. (Redner*in) & Schneckenburger, H. (Redner*in)
13 Sep. 2018

FFoQSI Food Innovation Forum

Weghuber, J. (Teilnehmer)
30 Nov. 2017

In-vitro und in-vivo Testsysteme zur Charakterisierung pflanzlicher Wirkstoffe

Lanzerstorfer, P. (Redner*in) & Weghuber, J. (Redner*in)
28 Nov. 2017

Phytogene Wirkstoffforschung am Campus Wels

Weghuber, J. (Redner*in)
28 Nov. 2017

Center of Excellence Lebensmitteltechnologie und Ernährung

Weghuber, J. (Redner*in)
26 Sep. 2017

High-content Screening Assays zur Analyse phyto gener Wirkstoffe

Lanzerstorfer, P. (Redner*in) & Weghuber, J. (Redner*in)
26 Sep. 2017

Analysis of receptor tyrosine kinase and G-protein coupled receptor signaling dynamics on micro-structured surfaces

Weghuber, J. (Redner*in), Stadlbauer, V. (Redner*in), Schütz, G. (Redner*in), Bünemann, M. (Redner*in), Takahashi, S.-I. (Redner*in), Krasel, C. (Redner*in), Zindel, D. (Redner*in), Lanzerstorfer, P. (Redner*in), Sevcsik, E. (Redner*in) & Yoneyama, Y. (Redner*in)
13 Feb. 2017

Micro-structured surfaces as a superior tool for the quantitative analysis of protein-protein interactions in living cells

Weghuber, J. (Redner*in)
25 Jän. 2017

Journal Reviewer (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2017 → 1 Dez. 2017

Journal Reviewer (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2017 → 1 Dez. 2017

Journal Reviewer (Veranstaltung)

Weghuber, J. (Gutachter*in)

1 Jän. 2017 → 1 Dez. 2017

Journal Reviewer (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2017 → 1 Dez. 2017

Journal Reviewer (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2017 → 1 Dez. 2017

Reviewer Tätigkeit Peer Reviewd Journal (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2017 → 31 Dez. 2019

Differences in pharmacokinetics of apple polyphenols after standardized oral consumption of unprocessed apple juice

Weghuber, J. (Redner*in)
29 Nov. 2016

EFFoST

Weghuber, J. (Vorsitzende)
28 Nov. 2016 → 30 Nov. 2016

Journal reviewer (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2016 → 31 Dez. 2016

Novel strategies for the study of phytochemicals in-vitro and in-vivo

Weghuber, J. (Redner*in)
13 Juni 2015

Optoscreen

Weghuber, J. (Redner*in) & Lanzerstorfer, P. (Redner*in)
7 Mai 2015

Identification of Novel Insulin Mimetic Drugs by Quantitative Total Internal Reflection Fluorescence (TIRF) Microscopy

Weghuber, J. (Redner*in)
8 Apr. 2015

Analysis of Insulin Receptor Substrate (IRS) Signaling Dynamics on Micro-Structured Surfaces

Weghuber, J. (Redner*in)
8 März 2015

Powerfood OÖ

Weghuber, J. (Redner*in) & Lanzerstorfer, P. (Redner*in)
20 Jän. 2015

Studying protein-protein-interactions of signal transduction receptors on μ -patterned surfaces

Weghuber, J. (Redner*in)
24 Juni 2014

Studying protein-protein-interactions of signal transduction receptors on μ -patterned surfaces

Weghuber, J. (Redner*in)
14 Mai 2014

StarPATT ffMicropatterning-based protein-protein-interaction detection platform

Weghuber, J. (Redner*in)
13 März 2014

Reviewing activites (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2014 → 31 Dez. 2014

Reviewing activites (Veranstaltung)

Weghuber, J. (Gutachter*in)
1 Jän. 2014 → 31 Dez. 2014

Biomolecular methods to characterize cellular effects of secondary plant metabolites

Weghuber, J. (Redner*in)
16 Mai 2013

Studying protein-protein interactions of signal transduction receptors on μ -patterned surfaces

Weghuber, J. (Redner*in)
23 Apr. 2013

Biophysical and biochemical characterization of insulin-dependent cellular systems in response to secondary plant metabolites

Weghuber, J. (Redner*in)
3 Apr. 2013

Drug screening on signal transduction proteins via μ -patterned surfaces

Weghuber, J. (Redner*in)
13 März 2013

Interaction properties of receptor tyrosine kinases studied on μ -patterned surfaces

Weghuber, J. (Redner*in)
18 Sep. 2012

μ -patterning: new developments and applications to study protein-protein interactions

Weghuber, J. (Redner*in)
29 Aug. 2012

Drug screening on signal transduction molecules using μ -patterned surfaces

Weghuber, J. (Redner*in)
15 Mai 2012

Pflanzeninhaltsstoffe für zukunftsweisende Lebensmittel

Weghuber, J. (Redner*in)
20 März 2012

Drug screening on signal transduction proteins via μ -patterned surfaces

Weghuber, J. (Redner*in)
26 Feb. 2012

Analysis of protein-interactions of signal transduction molecules via μ -patterned surfaces

Weghuber, J. (Redner*in)
29 Sep. 2011

Drug screening on signal transduction proteins via μ -patterned surfaces

Weghuber, J. (Redner*in)

11 Sep. 2011

Referee for Scientific Journals (Veranstaltung)

Weghuber, J. (Gutachter*in)

1 Jän. 2011 → 31 Dez. 2011

Förderungen

Bioverfügbarkeit und zellschützendes Potenzial von Tormentsäure und ihrer veresterten Form aus Pflanzenzellkulturen

Weghuber, J. (Leitende*r Forscher*in)

Dissertationsprogramm der Fachhochschule OÖ

Projekte

BF-GlucoSTAR - BF-GlucoSTAR - High-content Screening Plattform zur Identifikation und Charakterisierung Insulin-mimetischer Substanzen

Weghuber, J. (Leitende(r) Forscher/-in), Stadlbauer, V. (Weitere Forschende) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)

01.01.2015 → 31.12.2016

BIOCYTOPLAC - Bioverfügbarkeit und zellschützendes Potenzial von Tormentsäure und ihrer veresterten Form aus Pflanzenzellkulturen

Weghuber, J. (Leitende(r) Forscher/-in), Heckmann, M. (Weitere Forschende) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)

Dissertationsprogramm der Fachhochschule OÖ

01.10.2023 → 30.09.2026

Celmophyt

Weghuber, J. (Leitende(r) Forscher/-in)

01.05.2012 → 30.04.2013

FFoQSI

Weghuber, J. (Leitende(r) Forscher/-in), Lanzerstorfer, P. (Weitere Forschende), Auer, M. (Weitere Forschende), Feichtinger, M. (Weitere Forschende), Blank-Landeshammer, B. (Weitere Forschende), Kirchsteiger, J. (Weitere Forschende), Arnaut, V. (Weitere Forschende), Dornmayr-Pfaffenuemer, M. (Weitere Forschende), Dickinger, A. S. (Weitere Forschende), Heiß, L. (Weitere Forschende) & Preinfalk, V. (Weitere Forschende)

COMET K1 Zentren

01.01.2017 → 31.12.2024

FODMAPs - Analytische Methoden zur Detektion von FODMAPs und beteiligten Mikroorganismen

Weghuber, J. (Leitende(r) Forscher/-in) & Dornmayr-Pfaffenuemer, M. (CoPI)

Dissertationsprogramm der Fachhochschule OÖ

01.10.2018 → 30.09.2021

JRZ - PWF - Josef-Ressel Zentrum für phyto gene Wirkstoffforschung

Weghuber, J. (Leitende(r) Forscher/-in), Lanzerstorfer, P. (Weitere Forschende), Janout, H. (Weitere Forschende), Schurr, J. (Weitere Forschende), Heckmann, M. (Weitere Forschende), Atzmüller, S. (Weitere Forschende), Feichtinger, M. (Weitere Forschende), Stadlbauer, V. (Weitere Forschende), Karlsberger, L. (Weitere Forschende), Röhrli, C. (Weitere Forschende), König, A. (Weitere Forschende), Dornmayr-Pfaffenuemer, M. (CoPI), Kohberger, E. (Weitere Forschende), Preinfalk, V. (Weitere Forschende) & Sandner, G. P. (Weitere Forschende)

Josef-Ressel-Zentrum

01.01.2019 → 31.12.2024

KuRR

Weghuber, J. (Leitende(r) Forscher/-in)

01.01.2015 → 31.12.2015

PhytoDoc

Weghuber, J. (Leitende(r) Forscher/-in), Lanzerstorfer, P. (Weitere Forschende) & Stadlbauer, V. (Weitere Forschende)
EFRE Regio 13
01.01.2013 → 31.12.2014

PhytoFERM - Mikroverkapselung und Fermentierung pflanzlicher Stoffe zur Erhöhung ihrer biologischen Wirksamkeit

Weghuber, J. (Leitende(r) Forscher/-in), König, A. (Weitere Forschende) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)
Dissertationsprogramm der Fachhochschule OÖ
01.01.2021 → 31.12.2023

PhytoGenics - Molekularbiologische Charakterisierung protektiver Mechanismen von ausgewählten phyto-genen Substanzen

Weghuber, J. (Leitende(r) Forscher/-in), Dornmayr-Pfaffenuemer, M. (Weitere Forschende) & Sandner, G. P. (Weitere Forschende)
Dissertationsprogramm der Fachhochschule OÖ
01.01.2019 → 31.12.2021

PhytoSTAR

Weghuber, J. (Leitende(r) Forscher/-in), Stadlbauer, V. (Weitere Forschende) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)
BRIDGE: Wissenschaftstransfer
01.10.2015 → 30.09.2018

PM International AG Stiftungsprofessur

Weghuber, J. (Leitende(r) Forscher/-in), Blank-Landeshammer, B. (Weitere Forschende) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)
01.07.2024 → 30.06.2029

Regio13: Funktionelle Lebensmittel

Höglinger, O. (Leitende(r) Forscher/-in), Weghuber, J. (Weitere Forschende) & Lanzerstorfer, P. (Weitere Forschende)
EFRE Regio 13
01.10.2010 → 31.12.2013

SLF

Weghuber, J. (Leitende(r) Forscher/-in) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)
Sonstige Landesmittel - FFP
12.09.2016 → 31.12.2018

StarPATT

Weghuber, J. (Leitende(r) Forscher/-in) & Lanzerstorfer, P. (Weitere Forschende)
01.01.2014 → 30.06.2016

TC-BioScreen

Weghuber, J. (Leitende(r) Forscher/-in), Kern, T. (CoPI), Dornmayr-Pfaffenuemer, M. (Weitere Forschende) & Sandner, G. P. (Weitere Forschende)
FTI-Strukturförderung
01.09.2018 → 29.02.2020

TC-Micro-Patterning

Weghuber, J. (Leitende(r) Forscher/-in), Kern, T. (CoPI), Lanzerstorfer, P. (Weitere Forschende) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)
FTI-Strukturförderung
01.03.2017 → 31.08.2017

TC-Ressel

Weghuber, J. (Leitende(r) Forscher/-in), Kern, T. (CoPI), Lanzerstorfer, P. (Weitere Forschende) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)

FTI-Strukturförderung

01.09.2017 → 31.03.2018

TeaSTAR

Weghuber, J. (Leitende(r) Forscher/-in) & Dornmayr-Pfaffenuemer, M. (Weitere Forschende)

Sonstige Landesmittel - FFP

01.01.2017 → 31.12.2018