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## Publications

### **MFAP4-Deficiency Aggravates Age-Induced Changes in Resistance Artery Structure, While Ameliorating Hypertension**

Christensen, K. B., Ünsal, Ş., Ebbesen, M. F., Hemstra, L., Schlosser, A., Rosenstand, K., Hansen, P. B. L., Jensen, B. L., Bloksgaard, M., Simonsen, U. & Sorensen, G. L., Jun 2024, In: Hypertension. 81, 6, p. 1308-1319

### **The Angiotensin AT2-Receptor Agonist Compound 21 Is an Antagonist for the Thromboxane TP-Receptor - Implications for Preclinical Studies and Future Clinical Use**

Fredgart, M. H., Leurgans, T. M., Stenelo, M., Nybo, M., Bloksgaard, M., Lindblad, L., De Mey, J. G. R. & Steckelings, U. M., Jun 2023, In: Peptides. 164, 6 p., 170990.

### **Artificial intelligence assisted compositional analyses of human abdominal aortic aneurysms ex vivo**

Thorsted, B., Bjerregaard, L., Jensen, P. S., Rasmussen, L. M., Lindholt, J. S. & Bloksgaard, M., 22. Aug 2022, In: Frontiers in Physiology. 13, 15 p., 840965.

### **Nitric oxide (NO) synthase but not NO, HNO or H<sub>2</sub>O<sub>2</sub> mediates endothelium-dependent relaxation of resistance arteries from patients with cardiovascular disease**

Matthies, M., Rosenstand, K., Nissen, I., Muijtens, S., Riber, L. P., De Mey, J. G. R. & Bloksgaard, M., Mar 2022, In: British Journal of Pharmacology. 179, 5, p. 1049-1064

### **3D histology of cerebral aneurysms reveals spatial reorganization of the smooth muscle cells in the aneurysmal wall: Understanding the pathological and structural changes in aneurysmal tissues may inform preventive treatments**

Bloksgaard, M., Rosenstand, K., Nissen, I., Jensen, P. S., Munthe, S. & Nielsen, T. H., 22. Nov 2021, In: Clinical Science. 135, S1, p. A23

### **Artificial intelligence assisted compositional analyses of human aortic aneurysms ex vivo**

Bloksgaard, M., Thorsted, B., Bjerregaard, L. B., Jensen, P. S., Rasmussen, L. M. & Lindholt, J. S., 26. Oct 2021.

### **Retinal vascular fractal dimensions and their association with macrovascular cardiac disease**

Dinesen, S., Jensen, P. S., Bloksgaard, M., Blindbæk, S. L., De Mey, J. G. R., Rasmussen, L. M., Lindholt, J. & Grauslund, J., Aug 2021, In: Ophthalmic Research. 64, 4, p. 561-566

### **Basement membrane collagen IV deficiency promotes abdominal aortic aneurysm formation**

Steffensen, L. B., Stubbe, J., Lindholt, J. S., Beck, H. C., Overgaard, M., Bloksgaard, M., Genovese, F., Holm Nielsen, S., Tha, M. L. T., Bang-Moeller, S. K., Hong Lin, M. K. T., Larsen, J. H., Hansen, D. R., Jones, G. T., Bown, M. J., Karsdal, M. A. & Rasmussen, L. M., 18. Jun 2021, In: Scientific Reports. 11, 13 p., 12903.

### **Scaffolding students' preparation for a pharmacology practical improves their self-efficacy and learning**

Juel Callesen, J., Hjernø, K., Dyhrberg O'Neill, L., Sonne Carstensen, S. & Bloksgaard, M., 4. May 2021, In: Dansk Universitetspædagogisk Tidsskrift. 16, 30, p. 3-20

### **Coronary artery bypass surgery independently associates with retinal vascular oxygen saturation**

Dinesen, S., Jensen, P. S., Bloksgaard, M., Mey, J. D., Lindholt, J., Rasmussen, L. M. & Grauslund, J., Nov 2020, In: Acta Ophthalmologica. 98, 7, p. 709-715

### **LIMK (LIM Kinase) Inhibition Prevents Vasoconstriction- and Hypertension-Induced Arterial Stiffening and Remodeling**

Morales-Quinones, M., Ramirez-Perez, F. I., Foote, C. A., Ghiarone, T., Ferreira-Santos, L., Bloksgaard, M., Spencer, N., Kimchi, E. T., Manrique-Acevedo, C., Padilla, J. & Martinez-Lemus, L. A., Aug 2020, In: Hypertension. 76, 2, p. 393-403

**Implementing collaborative, active learning using peer instructions in pharmacology teaching increases students' learning and thereby exam performance**

Carstensen, S. S., Kjaer, C., Möller, S. & Bloksgaard, M., 15. Jan 2020, In: European Journal of Pharmacology. 867, 6 p., 172792.

**Reduction of COL4A1/A2 Causes Dedifferentiation of Vascular Smooth Muscle Cells and Augments Development of Abdominal Aortic Aneurysm**

Steffensen, L. B., Stubbe, J., Lindholt, J. S., Bloksgaard, M., Genovese, F., Nielsen, S. H., Bang-Møller, S. K., Jones, G., Bown, M., Overgaard, M., Beck, H. C., Karsdal, M. & Rasmussen, L. M., 2020, In: EJVES Vascular Forum. 48, p. 48-49

**Multifaceted sides of resistance arteries from patients with cardiovascular disease by bradykinin induced endothelial-dependent vasorelaxation**

Matthies, M., Bloksgaard, M. & De Mey, J. G. R., Nov 2019, In: Acta Physiologica. 227, S721, p. 115 1 p., e13414.

**Retinal vascular oxygen saturation increases after cardiac surgery**

Dinesen, S., Jensen, P. S., Bloksgaard, M., Mey, J. D., Lindholt, J. S., Rasmussen, L. M. & Grauslund, J., Sept 2019, In: Acta Ophthalmologica. 97, 6, p. e941-e942

**Physiological Consequences of Coronary Arteriolar Dysfunction and Its Influence on Cardiovascular Disease: Diagnostic and Additional Therapeutic Consequences**

De Mey, J. G. R., Bloksgaard, M. & Aalkjær, C., 1. Mar 2019, In: Physiology (Bethesda, Md.). 34, 2, p. 82-83

**The Many Faces of Endothelium-Dependent Relaxation in Resistance Arteries from Patients with Residual Cardiovascular Disease**

De Mey, J., Matthies, M., Irmukhamedov, A., Irmukhamedov, A., Rosenstand, K. & Bloksgaard, M., 2019, In: Journal of Vascular Research. 56, Suppl. 1, p. 24 1 p.

**Extracellular Matrix in Cardiovascular Pathophysiology**

Bloksgaard, M., Lindsey, M. L. & Martinez-Lemus, L. A., 1. Dec 2018, In: American Journal of Physiology: Heart and Circulatory Physiology. 315, 6, p. H1687-H1690

**Local enrichment of fatty acid-binding protein 4 in the pericardial cavity of cardiovascular disease patients**

Elie, A. G. I. M., Bloksgaard, M., Sun, W. Y., Yang, K., Man, A. W. C., Xu, A., Irmukhamedov, A., Riber, L. P., Wang, Y. & De Mey, J. G. R., 1. Nov 2018, In: PLOS ONE. 13, 11, 15 p., e0206802.

**Disruption of the smooth muscle actin cytoskeleton decreases human resistance artery stiffness and abolishes smooth muscle contractile function**

Bloksgaard, M., Morales-Quinones, M. & Martinez-Lemus, L., 15. Sept 2018.

**A novel role for cyclooxygenase, NO-synthase and soluble guanylyl cyclase in resistance arteries from patients with cardiovascular disease**

Matthies, M., Bloksgaard, M., Rieber, L. P., Irmukhamedov, A. & De Mey, J. G. R., 13. Sept 2018.

**Disruption of the smooth muscle actin cytoskeleton decreases human resistance artery stiffness and abolishes smooth muscle contractile function**

Bloksgaard, M., Morales-Quinones, M. & Martinez-Lemus, L., 13. Sept 2018.

**Inverse relationship between the media-to-lumen ratio and smooth muscle contractile function in resistance arteries from patients with residual cardiovascular disease**

Bloksgaard, M., Möller, S., Leurgans, T., Irmukhamedov, A., Riber, L., Wang, Y. & De Mey, J. G. R., 13. Sept 2018.

**Smooth muscle contractile phenotype and expression of smooth muscle markers in human resistance arteries**

Lindvald Nielsen, L., Nissen, I., De Mey, J. G. R. & Bloksgaard, M., 13. Jun 2018.

**Bradykinin-induced relaxation of resistance arteries from residual CVD patients can involve NO-synthase, but not NO.**  
Matthies, M., Bloksgaard, M., Riber, L. P., Irmukhamedov, A. & De Mey, J. G. R., Jun 2018.

**Cyclo-Oxygenase, NO-synthase and Soluble Guanylyl Cyclase in Relaxing Effects of Bradykinin in Resistance Arteries from Patients with Residual Cardiovascular Disease**  
Matthies, M., Bloksgaard, M., Riber, L. P., Irmukhamedov, A. & De Mey, J. G. R., Jun 2018.

**Assessing Collagen and Elastin Pressure-dependent Microarchitectures in Live, Human Resistance Arteries by Label-free Fluorescence Microscopy**  
Bloksgaard, M., Thorsted, B., Brewer, J. R. & De Mey, J. G. R., 9. Apr 2018, In: Journal of Visualized Experiments. 134, e57451.

**Delayed cardiomyocyte hypertrophic responses after brief exposure to endothelin-1 or phenylephrine**  
Matthies, M., Bloksgaard, M. & De Mey, J. G. R., Feb 2018, In: Biotarget. 2, 5, p. 1-6 6 p.

**Relaxing Responses to Hydrogen Peroxide and Nitric Oxide in Human Pericardial Resistance Arteries Stimulated with Endothelin-1**  
Leurgans, T. M., Bloksgaard, M., Irmukhamedov, A., Riber, L. P. & De Mey, J. G. R., Jan 2018, In: Basic & Clinical Pharmacology & Toxicology. 122, 1, p. 74–81

**Imaging and modeling of acute pressure-induced changes of collagen and elastin microarchitectures in pig and human resistance arteries**  
Bloksgaard, M., Leurgans, T. M., Spronck, B., Heusinkveld, M. H., Thorsted, B., Rosenstand, K., Nissen, I., Hansen, U. M., Brewer, J. R., Bagatolli, L. A., Rasmussen, L. M., Irmukhamedov, A., Reesink, K. D. & De Mey, J. G. R., 1. Jul 2017, In: American Journal of Physiology: Heart and Circulatory Physiology. 313, 1, p. H164–H178

**Combined use of  $\beta$ -Blockers and Inhibitors of the Renin-Angiotensin System Decreases the Stiffness of Resistance Arteries from Cardiothoracic Surgery Patients**  
Bloksgaard, M., Leurgans, T., Rasmussen, L. M., Riber, L. P., Irmukhamedov, A. & De Mey, J. G. R., 1. Jun 2017, In: Journal of Vascular Research. 54, Suppl. 1, p. 48 1 p., PoB-03.

**Structure and Contractile Function of Pericardial Resistance Arteries from Cardiothoracic Surgery Patients; Effects of Anti-Hypertensive Treatments**  
De Mey, J. G. R., Leurgans, T., Rasmussen, L. M., Riber, L., Irmukhamedov, A. & Bloksgaard, M., 1. Jun 2017, In: Journal of Vascular Research. 54, Suppl. 1, 1 p.

**Determinants of the Maximal contractile Reactivity of Pericardial Resistance Arteries from Cardio-Thoracic Surgery Patients**  
Bloksgaard, M., De Mey, J. G. R., Hansen, S., Hansen, M. L., Irmukhamedov, A., Jensen, P. S., Leurgans, T., Marcussen, N., Nguyen, I., Nissen, I., Nissen, K. D., Rørdam Preil, S., Rasmussen, L. M., Riber, L. P. & Rosenstand, K., 18. Jan 2017.

**Collagen recruitment at low pressure limits distension of human resistance arteries**  
Bloksgaard, M., Rosenstand, K., Brewer, J. R., Reesink, K. D., Rasmussen, L. M., Irmukhamedov, A. & De Mey, J. G. R., 2017, In: Journal of Vascular Research. 54, S2, p. 7 1 p.

**Combined chronic treatment with  $\beta$ -blocker and inhibitor of the renin-angiotensin system decreases human resistance artery stiffness in hypertensive patients**  
Bloksgaard, M., Leurgans, T., Rasmussen, L. M., Riber, L., Irmukhamedov, A. & De Mey, J. G. R., 2017.

**Correction for shrinkage during histological processing allows retrieval of the wall to lumen ratio of biobanked human resistance arteries**  
Bloksgaard, M., Rosenstand, K., Nissen, I., Marcussen, N. & De Mey, J. G. R., 2017.

**Media - to -lumen ratio and contractility of resistance arteries from cardiovascular disease patients**

De Mey, J. G. R., Leurgans, T., Hansen, S., Nissen, K. D., Nissen, I., Rosenstand, K., Irmukhamedov, A., Riber, L., Rasmussen, L. M. & Bloksgaard, M., 2017, In: Journal of Vascular Research. 54, S2, p. 60 1 p.

**Shrinkage significantly influences morphometric evaluation of the wall to lumen ratio**

Bloksgaard, M., Rosenstand, K., Nissen, I., Marcussen, N. & De Mey, J. G. R., 2017, In: Journal of Vascular Research. 54, Suppl. 2, p. 36 1 p.

**Structure and function of resistance arteries from cardiovascular disease patients are differentially influenced by risk factors and patient characteristics**

De Mey, J. G. R., Leurgans, T., Rasmussen, L. M., Riber, L. & Bloksgaard, M., 2017.

**Towards Understanding the Variability of Patient Pericardial Resistance Artery Contractility**

Bloksgaard, M., 1. Nov 2016.

**Endothelial SIRT1 prevents adverse arterial remodeling by facilitating HERC2-mediated degradation of acetylated LKB1**

Bai, B., Man, A. W. C., Yang, K., Guo, Y., Xu, C., Tse, H.-F., Han, W., Bloksgaard, M., De Mey, J. G. R., Vanhoutte, P. M., Xu, A. & Wang, Y., 29. May 2016, In: Oncotarget. 7, 26, p. 39065-39081

**Endothelin-1 shifts the mediator of bradykinin-induced relaxation from NO to H<sub>2</sub>O<sub>2</sub> in resistance arteries from patients with cardiovascular disease**

Leurgans, T. M., Bloksgaard, M., Brewer, J. R., Bagatolli, L. A., Fredgart, M. H., Rosenstand, K., Hansen, M. L., Rasmussen, L. M., Irmukhamedov, A. & De Mey, J. G. R., May 2016, In: British Journal of Pharmacology. 173, 10, p. 1653-1664

**Biochemical and Bioimaging Evidence of Cholesterol in Acquired Cholesteatoma**

Thorsted, B., Bloksgaard, M., Groza, A., Schousboe, P., Færgeman, N. J., Sørensen, J. A., Svane-Knudsen, V. & Brewer, J. R., 15. Apr 2016, In: Annals of Otology, Rhinology and Laryngology. 125, 8, p. 627-633

**Vasoconstrictor Conditions Determine Effects of Nitric Oxide and Hydrogen Peroxide in Cardiovascular Disease Patients' Pericardial Resistance Arteries**

Leurgans, T., Bloksgaard, M., Rasmussen, L. M., Irmukhamedov, A. & De Mey, J., 25. Oct 2015.

**Compromised epidermal barrier stimulates Harderian gland activity and hypertrophy in ACBP<sup>-/-</sup> mice**

Sørensen, S. B., Neess, D., Dixen, K., Bloksgaard, M., Marcher, A.-B., Chemnitz, J., Færgeman, N. J. & Mandrup, S., Sept 2015, In: Journal of Lipid Research. 56, 9, p. 1738-1746 9 p.

**Microarchitecture of the internal elastic lamina (IEL) in human resistance arteries from different vascular beds**

Bloksgaard, M., Leurgans, T., Rosenstand, K., Nissen, I., Brewer, J. R., Irmukhamedov, A., Rasmussen, L. M. & De Mey, J. G. R., Sept 2015, In: Acta Physiologica. 215, S703, p. 2 1 p., 4.

**In cardiovascular disease patients' pericardial resistance arteries, the roles of H<sub>2</sub>O<sub>2</sub> and endothelium-derived relaxing factors in bradykinin-induced relaxations depend on the contractile stimulus**

Leurgans, T., Bloksgaard, M., Hansen, M. L., Rasmussen, L. M., Irmukhamedov, A. & De Mey, J., 11. Jun 2015.

**Elastin organization in pig and cardiovascular disease patients' pericardial resistance arteries**

Bloksgaard, M., Leurgans, T., Nissen, I., Jensen, P. S., Hansen, M. L., Brewer, J. R., Bagatolli, L., Marcussen, N., Irmukhamedov, A., Rasmussen, L. M. & De Mey, J. G. R., 2015, In: Journal of Vascular Research. 52, 1, p. 1-11 11 p.

**Pericardial resistance arteries show biaxial mechanics and pressure dependent microarchitecture of the extracellular matrix**

Bloksgaard, M., Leurgans, T., Rosenstand, K., Jensen, P. S., Hansen, M. L., Brewer, J. R., Bagatolli, L., Marcussen, N., Irmukhamedov, A., Rasmussen, L. M. & De Mey, J., 7. Sept 2014.

### **Resistance artery microarchitecture depends on distending pressure**

Bloksgaard, M., 12. Jun 2014.

### **Effect of detergents on the physico-chemical properties of skin stratum corneum: A two-photon excitation fluorescence microscopy study**

Bloksgaard, M., Brewer, J. R., Pashkovski, E., Ananthapadmanabhan, K., Sørensen, J. A. & Bagatolli, L., Feb 2014, In: International Journal of Cosmetic Science. 36, 1, p. 39-45

### **Acyl-CoA binding protein and epidermal barrier function**

Bloksgaard, M., Neess, D., Færgeman, N. J. & Mandrup, S., 2014, In: BBA Molecular and Cell Biology of Lipids. 1841, 3, p. 369-376 8 p.

### **Elastin and mechanics of pig pericardial resistance arteries (pPRA)**

Bloksgaard, M., Leurgans, T., Rosenstand, K., Brewer, J. R., Bagatolli, L., Irmukhamedov, A., Rasmussen, L. M. & De Mey, J., 2014, In: Angiogenesis. 17, 1, p. 289 1 p.

### **Elastin and Mechanics of Pig Pericardial Resistance Arteries (pPRA)**

Bloksgaard, M., Leurgans, T., Rosenstand, K., Brewer, J. R., Bagatolli, L., Irmukhamedov, A., Rasmussen, L. M. & De Mey, J., 21. Oct 2013. 1 p.

### **Pericardial resistance artery contractile responses to endothelins**

Leurgans, T., Bloksgaard, M., Chennupati, R., Irmukhamedov, A., Rasmussen, L. M. & De Mey, J., 11. Sept 2013. 1 p.

### **Remodelling of the microarchitecture of resistance arteries in cardiovascular diseases**

Bloksgaard, M., Brewer, J. R., Leurgans, T., Jensen, P. S., Bagatolli, L., Irmukhamedov, A., Rasmussen, L. M. & De Mey, J., 5. Jun 2013. 1 p.

### **Delayed Hepatic Adaptation to Weaning in ACBP(-/-) Mice Is Caused by Disruption of the Epidermal Barrier**

Neess, D., Bek, S., Bloksgaard, M., Marcher, A.-B., Færgeman, N. J. & Mandrup, S., 2013, In: Cell Reports. 5, 5, p. 1403-1412

### **Spatially Resolved Two-Color Diffusion Measurements in Human Skin Applied to Transdermal Liposome Penetration**

Brewer, J., Bloksgaard, M., Kubiak, J., Sørensen, J. A. & Bagatolli, L. A., 2013, In: Journal of Investigative Dermatology. 133, 5, p. 1260-1268

### **Structural and dynamical aspects of skin studied by multiphoton excitation fluorescence microscopy-based methods**

Bloksgaard, M., Brewer, J. R. & Bagatolli, L., 2013, In: European Journal of Pharmaceutical Sciences. 50, 5, p. 586-594

### **Indications of a Leaky Permeability Barrier in Cholesteatoma Matrix**

Svane-Knudsen, V., Bloksgaard, M., Brewer, J. R. & Bagatolli, L., 4. Jun 2012.

### **Mice with targeted disruption of the acyl-CoA binding protein display attenuated urine concentrating ability and diminished renal aquaporin-3 abundance**

Langaa, S., Bloksgaard, M., Bek, S., Neess, D., Norregaard, R., Hansen, P. B., Marcher, A. B., Frokiaer, J., Mandrup, S. & Jensen, B. L., 2012, In: American Journal of Physiology: Renal Physiology. 302, 8, p. F1034-F1044

### **Structural characterization and lipid composition of acquired cholesteatoma: a comparative study with normal skin**

Bloksgaard, M., Svane-Knudsen, V., Sørensen, J. A., Bagatolli, L. & Brewer, J., 2012, In: Otolology & Neurotology. 33, 2, p. 177-83 7 p.

### **The acyl-CoA binding protein is required for normal epidermal barrier function in mice**

Bloksgaard, M., Bek, S., Marcher, A.-B., Neess, D., Brewer, J., Hannibal-Bach, H. K., Helledie, T., Fenger, C., Due, M., Berzina, Z., Neubert, R., Chemnitz, J., Finsen, B., Clemmensen, A., Wilbertz, J., Saxtorph, H., Knudsen, J., Bagatolli, L. & Mandrup, S., 2012, In: Journal of Lipid Research. 53, 10, p. 2162-74 13 p.

**The Human Skin Barrier Is Organized as Stacked Bilayers of Fully Extended Ceramides with Cholesterol Molecules Associated with the Ceramide Sphingoid Moiety**

Iwai, I., Han, H., Hollander, L. D., Svensson, S., Ofverstedt, L.-G., Anwar, J., Brewer, J., Mølgaard, M. B., Laloeuf, A., Nosek, D., Masich, S., Bagatolli, L. A., Skoglund, U. & Norlén, L., 2012, In: *Journal of Investigative Dermatology*. 132, 9, p. 2215-2225 10 p.

**Acyl-CoA binding protein is required for normal fatty acid chain elongation and lipid synthesis in Harderian gland in mice**

Bek, S., Dixen, K., Mølgaard, M. B., Ejsing, C. S., Neess, D., Marcher, A.-B., Færgeman, N. J. & Mandrup, S., 8. Sept 2011.

**Disruption of the Acyl-CoA binding protein gene delays hepatic adaptation to metabolic changes at weaning**

Neess, D., Marcher, A.-B., Bloksgaard, M., Bek, S., Elle, I. C., Færgeman, N. J. & Mandrup, S., 12. Jan 2011. 1 p.

**Disruption of the acyl-coa binding protein gene delays hepatic adaptation to metabolic changes at weaning**

Neess, D., Bloksgaard, M., Sørensen, S. B., Marcher, A.-B., Elle, I. C., Helledie, T., Due, M., Pagmantidis, V., Finsen, B., Wilbertz, J., Kruhoeffler, M., Faergeman, N. & Mandrup, S., 2011, In: *Journal of Biological Chemistry*. 286, p. 3460-3472

**The role of Acyl-CoA Binding Protein in skin: a functional investigation by targeted disruption of the gene in mice**

Mølgaard, M. B., 2010, Syddansk Universitet. Det Naturvidenskabelige Fakultet.

**Deletion of Glutamate Dehydrogenase in  $\beta$ -Cells Abolishes Part of the Insulin Secretory Response Not Required for Glucose Homeostasis**

Carobbio, S., Frigerio, F., Rubi, B., Vetterli, L., Mølgaard, M. B., Gjinovci, A., Pournourmohammad, S., Herrera, P. L., Reith, W., Mandrup, S. & Maechler, P., 9. Jan 2009, In: *Journal of Biological Chemistry*. 284, 2, p. 921-929 9 p.

**Combining LAURDAN Generalized Polarization, Fluorescence Correlation Spectroscopy and Fluorescence Lifetime Imaging as a Tool in Skin Diagnostics**

Mølgaard, M. B., Brewer, J. R., Mandrup, S. & Bagatolli, L., 2009, In: *Biophysical Journal*. 3, p. 295a

**Bio-photonics: Applications to biological and model systems**

Brewer, J. R., Mølgaard, M. B., Bernardino de la Serna, J. & Bagatolli, L., 2008. 1 p.

**LAURDAN generalized polarization analysis as a tool in skin diagnostics**

Mølgaard, M. B., Brewer, J. R. & Bagatolli, L., 2008, In: *Chemistry and Physics of Lipids*. suppl. 1, p. S21 1 p.

**Skin and Biomembrane Physics**

Mølgaard, M. B., Plasencia, I. & Bagatolli, L., 2008, Odense: Gamma, NBI.SDU.

**Mice with conditional beta-cell knockout of glutamate dehydrogenase exhibit severe insulin secretion impairment**

Carobbio, S., Rubi, B., Mølgaard, M. B., Gjinovci, A., Herrera, P. L., Reith, W., Mandrup, S. & Maechler, P., 2006.

**The Gene Encoding Acyl-CoA-binding Protein Is Subject to Metabolic Regulation by Both Sterol Regulatory Element-binding Protein and Peroxisome Proliferator-activated Receptor  $\alpha$  in Hepatocytes**

Sandberg, M. B., Bloksgaard, M., Duran-Sandoval, D., Duval, C., Staels, B. & Mandrup, S., 18. Feb 2005, In: *Journal of Biological Chemistry*. 280, 7, p. 5258-5266

## Activities

**11th International Symposium on Resistance Arteries**

Bloksgaard, M. (Speaker)

7. Sept 2014 → 11. Sept 2014

**12th International Symposium on the Mechanisms of Vasodilatation**

Bloksgaard, M. (Participant)

6. Nov 2016 → 9. Nov 2016

**24th Meeting of the European Council for Cardiovascular Research (ECCR)**

Bloksgaard, M. (Participant)

8. Oct 2021 → 9. Oct 2021

**7th Annual Meeting in Danish society for Pharmacology**

Bloksgaard, M. (Participant)

14. Jan 2015

**9th LFD Workshop in Advanced Fluorescence Imaging and Dynamics**

Bloksgaard, M. (Participant)

27. Oct 2014 → 31. Oct 2014

**Åben Forskerdag 2014**

Bloksgaard, M. (Speaker)

24. Apr 2014

**American Journal of Physiology: Heart and Circulatory Physiology (Journal)**

Bloksgaard, M. (Peer reviewer)

1. Jul 2017 → ...

**A novel role for cyclooxygenase, NO-synthase and soluble guanylyl cyclase in resistance arteries from patients with cardiovascular disease**

Matthies, M. (Guest lecturer), Bloksgaard, M. (Other), Rieber, L. P. (Other), Irmukhamedov, A. (Other) & De Mey, J. G. R. (Guest lecturer)

15. Sept 2018

**Arbejdsmiljørepræsentant/Arbejdsmiljølederuddannelsen**

Mølgaard, M. B. (Participant)

1. Feb 2019 → 1. Mar 2019

**Arrangør: Sundhedsvidenskabelige StudenterForskere (External organisation)**

Bloksgaard, M. (Member)

19. Sept 2013

**Biological and pharmaceutical applications of Coherent Raman Scattering Microscopy CRS Odense 2019**

Mølgaard, M. B. (Participant)

2. Dec 2019 → 4. Dec 2019

**Biomechanics of resistance arteries from patients with CVD in relation to the microarchitecture of their extracellular matrix**

Bloksgaard, M. (Guest lecturer)

24. Jan 2017

**Cardiovascular disease in diabetic patients**

Bloksgaard, M. (Participant)

5. Feb 2015

**Censor ved to specialeksaminer på Københavns universitet**

Mølgaard, M. B. (Censor)

1. Oct 2019 → 31. Oct 2019

**CIMA/CAVAC symposium on diabetes and CVD**

Bloksgaard, M. (Participant)  
30. Jan 2018

**Computational image Analysis and computer assisted applications**

Mølgaard, M. B. (Participant)  
1. Mar 2019

**Copenhagen Business School Research Management Course 31**

Bloksgaard, M. (Participant)  
26. Oct 2021 → 30. Jun 2022

**DaCRA**

Bloksgaard, M. (Participant)  
11. Jun 2014 → 13. Jun 2014

**DaCRA 2019**

Mølgaard, M. B. (Participant)  
12. Jun 2019 → 14. Jun 2019

**DaCRA summer meeting 2013**

Bloksgaard, M. (Participant)  
5. Jun 2013 → 7. Jun 2013

**Danish Bioimaging Meeting**

Bloksgaard, M. (Participant)  
2. Oct 2018

**Danish Cardiovascular Academy Summer Meeting 2021**

Bloksgaard, M. (Participant)  
6. Jun 2021 → 8. Jun 2021

**Danish Cardiovascular Research Academy 2018 Summer Meeting**

Bloksgaard, M. (Participant)  
13. Jun 2018

**Danish Cardiovascular Research Academy annual meeting 2015**

Bloksgaard, M. (Speaker)  
10. Jun 2015 → 12. Jun 2015

**Danish Cardiovascular Research Academy, Summer Meeting at The Sandbjerg Estate 2016**

Bloksgaard, M. (Chairman)  
26. May 2016 → 28. May 2016

**Determinants of smooth muscle contractile function**

Bloksgaard, M. (Guest lecturer)  
13. Jun 2018

**Determinants of vascular smooth muscle contractility in resistance arteries from patients with residual cardiovascular disease**

Bloksgaard, M. (Guest lecturer)  
7. Sept 2018

**Ekstern bedømmer af ansøgere til stilling som Førsteamanuensis ved Universitet i Oslo, Norge (Event)**

Mølgaard, M. B. (Member)



1. Nov 2019 → 30. Nov 2019

**Endothelium-Dependent Hyperpolarizations in Health and Disease**

Bloksgaard, M. (Participant)

14. Sept 2015 → 17. Sept 2015

**ESM-EVBO 2017**

Bloksgaard, M. (Participant)

29. May 2017 → 1. Jun 2017

**Europhysiology 2018**

Bloksgaard, M. (Participant)

14. Sept 2018 → 16. Sept 2018

**Focus on Microscopy**

Bloksgaard, M. (Speaker)

30. Mar 2015

**Formand (M/K) for bedømmelseskomite ved Marlene Thorsen Mørchs ph.d.-forsvar (Event)**

Mølgaard, M. B. (Chairman)

1. Apr 2019 → 30. Apr 2019

**Imaging 2020**

Bloksgaard, M. (Participant)

6. Apr 2018

**IMM confocal core and FACS facility (Event)**

Mølgaard, M. B. (Member)

1. Jan 2019 → ...

**INCREASED VELOCITY AND AMPLITUDE OF ENDOTHELIN-1 INDUCED RESISTANCE ARTERY CONTRACTION IN DIABETES**

Bloksgaard, M. (Speaker), Lintrup, K. K. (Co-author), Rosenstand, K. (Co-author), De Mey, J. (Co-author) & Lomholt, M. A. (Co-author)

16. Nov 2021 → 29. Nov 2021

**International Congress of Pathophysiology**

Bloksgaard, M. (Participant)

5. Sept 2018 → 18. Sept 2018

**International Vascular Biology Meeting 2016**

Bloksgaard, M. (Participant)

30. Oct 2016 → 3. Nov 2016

**Joint EFE/CIMA seminar**

Bloksgaard, M. (Participant)

28. May 2015

**Kom under Huden: Sammenligning af normal og unormal hud ved hjælp af to photon excitation mikroskopi og andre biofysiske metoder**

Bloksgaard, M. (Lecturer)

11. Dec 2007

**Kulturmaskinen (External organisation)**

Bloksgaard, M. (Member)

25. Sept 2009

**Light Sheet Imaging**

Mølgaard, M. B. (Organizer)  
27. Nov 2019

**Looking into resistance artery structure and contractile function in light of patients' disease(s) and pharmacological therapies**

Bloksgaard, M. (Guest lecturer)  
19. Nov 2017

**Microarchitecture and Mechanics of Pericardial Resistance Arteries**

Bloksgaard, M. (Lecturer)  
28. Oct 2013

**Microarchitecture of elastin in pericardial resistance arteries**

Bloksgaard, M. (Lecturer)  
9. Dec 2013

**MMI: Multiple Mini Interviews - kvote 2 optag på medicinuddannelsen**

Mølgaard, M. B. (Organizer)  
1. Jan 2018

**MOVD 2019 (mechanism of vasodilatation)**

Mølgaard, M. B. (Participant)  
19. May 2019 → 22. May 2019

**NAVBO Vascular Biology 2019 (North American Vascular Biology Organisation)**

Mølgaard, M. B. (Participant)  
12. Jun 2019 → 14. Jun 2019

**Omental arteries from diabetic hypertensive subjects are larger and stiffer than those from nondiabetic normotensives**

Mølgaard, M. B. (Other)  
9. Apr 2019

**Oxidative stress and microvascular dysfunction. Any hope for the future?**

Bloksgaard, M. (Guest lecturer)  
30. Nov 2021

**Pericardial resistance arteries show biaxial mechanics and pressure dependent microarchitecture of the extracellular matrix.**

Bloksgaard, M. (Speaker)  
9. Sept 2014

**Research visit Dalton Cardiovascular Research Center, Columbia MO, USA**

Mølgaard, M. B. (Other)  
1. Nov 2019 → 7. Nov 2019

**Scandinavian Physiological Society**

Bloksgaard, M. (Participant)  
2. Mar 2016

**SDU Imaging (Event)**

Mølgaard, M. B. (Member)  
1. Jan 2019 → ...

**Skab og bevar balancen i arbejdslivet**

Mølgaard, M. B. (Participant)  
1. Oct 2019 → 31. Oct 2019

**Special interest group within vascular physiology**

Bloksgaard, M. (Participant)  
28. Jan 2015

**Symposium of Atherosclerosis**

Bloksgaard, M. (Participant)  
25. Nov 2021

**The extracellular matrix and vascular mechanics**

Bloksgaard, M. (Lecturer)  
11. Jun 2015

**Towards identifying the determinants of cardiovascular disease patients' resistance artery contractility**

Bloksgaard, M. (Speaker)  
27. Oct 2016

**Translational Diabetes Research meeting**

Bloksgaard, M. (Participant)  
16. Apr 2018

**University College Lillebælt (External organisation)**

Bloksgaard, M. (Member)  
23. Apr 2009

**University of Missouri**

Bloksgaard, M. (Visiting researcher)  
17. Aug 2017 → 30. Nov 2017

**Vascular Biology 2013**

Bloksgaard, M. (Participant)  
20. Oct 2013 → 24. Oct 2013

**Vascular Biology 2017 - North American Vascular Biology Organisation**

Bloksgaard, M. (Participant)  
15. Oct 2017 → 19. Oct 2017

**Vascular Biology 2021**

Bloksgaard, M. (Participant)  
25. Oct 2021 → 29. Oct 2021

**Vascular Imaging - session chair**

Bloksgaard, M. (Participant)  
18. Oct 2017

**Vascular Physiology Satellite Meeting**

Bloksgaard, M. (Participant)  
13. Sept 2018

**VITAL IMAGING OF PRESSURE INDUCED CHANGES IN THE EXTRACELLULAR MATRIX OF THE RESISTANCE  
ARTERIAL WALL**

Bloksgaard, M. (Speaker)

30. Mar 2015

**Workshop Arterial Stiffness, Basic and Clinical Aspects**

Bloksgaard, M. (Speaker)

19. Sept 2014