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Department of Health Science and Technology  
The Faculty of Medicine  
Regenerative Medicine  
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## Employment

### Associate Professor

Department of Health Science and Technology  
The Faculty of Medicine  
Aalborg Øst, Denmark  
1 Sep 2012 → present

### Associate Professor

The Faculty of Medicine  
Aalborg Øst, Denmark  
1 Sep 2012 → present

### Associate Professor

Regenerative Medicine  
The Faculty of Medicine  
Aalborg, Denmark  
1 Sep 2012 → present

### Probiotic Research Initiative™

The Faculty of Medicine  
Aalborg, Denmark  
1 Jan 2022 → present

### Fagstøttelære

Olivia Denmark  
Denmark  
1 Aug 2021 → present

## Research outputs

### Selection and validation of reference genes for qPCR analysis of differentiation and maturation of THP-1 cells into M1 macrophage-like cells

Ren, G., Juhl, M., Peng, Q., Fink, T. & Porsborg, S. R., Nov 2022, In: Immunology & Cell Biology. 100, 10, p. 822-829 8 p.

### A Comparative Analysis of the Wound Healing-Related Heterogeneity of Adipose-Derived Stem Cells Donors

Ren, G., Peng, Q., Emmersen, J., Zachar, V., Fink, T. & Porsborg, S. R., 6 Oct 2022, In: Pharmaceutics. 14, 10, 2126.

### Potency assays for human adipose-derived stem cells as a medicinal product toward wound healing

Ren, G., Peng, Q., Fink, T., Zachar, V. & Porsborg, S. R., 11 Jun 2022, In: Stem Cell Research & Therapy. 13, 1, p. 249 249.

### Distinct Dominant Lineage from In Vitro Expanded Adipose-Derived Stem Cells (ASCs) Exhibits Enhanced Wound Healing Properties

Peng, Q., Ren, G., Xuan, Z., Duda, M., Pennisi, C. P., Porsborg, S. R., Fink, T. & Zachar, V., 6 Apr 2022, In: Cells. 11, 7, 1236.

### **Stamceller og sårheling**

Porsborg, S. R., Mar 2021, In: *Aktuel Naturvidenskab*. 2021, 2, p. 34-38 4 p.

### **Multiplex Analysis of Adipose-Derived Stem Cell (ASC) Immunophenotype Adaption to In Vitro Expansion**

Peng, Q., Duda, M., Ren, G., Xuan, Z., Pennisi, P., Porsborg, S. R., Fink, T. & Zachar, V., 22 Jan 2021, In: Cells. 10, 2, p. 1-13 13 p., 218.

### **Systematic Review of Stem-Cell-Based Therapy of Burn Wounds: Lessons Learned from Animal and Clinical Studies**

Henriksen, J. L., Sørensen, N. B., Fink, T., Zachar, V. & Porsborg, S. R., 26 Nov 2020, In: Cells. 9, 12, 2545.

### **Distribution of Stromal Cell Subsets in Cultures from Distinct Ocular Surface Compartments**

Liu, L., Yu, Y., Peng, Q., Porsborg, S. R., Nielsen, F. M., Jørgensen, A., Grove, A., Bath, C., Hjortdal, J., Christiansen, O. B., Fink, T. & Zachar, V., 3 Nov 2020, In: *Journal of ophthalmic & vision research*. 15, 4, p. 493-501 9 p.

### **Evolution of ASC Immunophenotypical Subsets During Expansion In Vitro**

Peng, Q., Alipour, H., Porsborg, S., Fink, T. & Zachar, V., 19 Feb 2020, In: *International Journal of Molecular Sciences* . 21, 4, 1408.

### **Fabrication and characterization of extracellular matrix scaffolds obtained from adipose-derived stem cells**

Riis, S., Hansen, A. C., Johansen, L., Lund, K., Pedersen, C., Pitsa, A., Hyldig, K., Zachar, V., Fink, T. & Pennisi, C. P., 15 Jan 2020, In: *Methods*. 171, p. 68-76 9 p.

### **Stamceller fra fedtvæv kan få dit sår til at hele hurtigere!**

Porsborg, S. R., 2020

### **Potency markers for Adipose-derived Stem Cells for treatment of Chronic Wound**

Ren, G., Porsborg, S. R. & Fink, T., 2 May 2019.

### **Pigmentation is associated with stemness hierarchy of progenitor cells within cultured limbal epithelial cells**

Liu, L., Nielsen, F. M., Emmersen, J., Bath, C., Hjortdal, J. Ø., Riis, S., Fink, T., Pennisi, C. P. & Zachar, V., Sep 2018, In: *Stem Cells*. 36, 9, p. 1411-1420 10 p.

### **Maintaining RNA integrity for transcriptomic profiling of ex vivo cultured limbal epithelial stem cells after fluorescence-activated cell sorting (FACS)**

Liu, L., Nielsen, F. M., Riis, S. E., Emmersen, J., Fink, T., Hjortdal, J. Ø., Bath, C. & Zachar, V., 12 Dec 2017, In: *Biological Procedures Online*. 19, 7 p., 15.

### **Implications of extracellular matrix production by adipose tissue-derived stem cells for development of wound healing therapies**

Hyldig, K., Riis, S., Pennisi, C. P., Zachar, V. & Fink, T., 31 May 2017, In: *International Journal of Molecular Sciences* . 18, 6, 11 p., 1167.

### **Hypoxia enhances the wound-healing potential of adipose-derived stem cells in a novel human primary keratinocyte-based scratch assay**

Riis, S., Newman, R., Ipek, H., Andersen, J. I., Kuningger, D., Boucher, S., Vemuri, M. C., Pennisi, C. P., Zachar, V. & Fink, T., 2017, In: *International Journal of Molecular Medicine*. 39, 3, p. 587-594

### **Adipose-derived stem cells for treatment of chronic wounds**

Riis, S. E., 2016, Aalborg Universitetsforlag. (Ph.d.-serien for Det Sundhedsvidenskabelige Fakultet, Aalborg Universitet).

### **Comparative analysis of media and supplements on initiation and expansion of adipose-derived stem cells**

Riis, S., Nielsen, F. M., Pennisi, C. P., Zachar, V. & Fink, T., 2016, In: *Stem Cells Translational Medicine*. 5, 3, p. 314-324

### **Discrete adipose-derived stem cell subpopulations may display differential functionality after in vitro expansion despite convergence to a common phenotype distribution**

Nielsen, F. M., Riis, S. E., Andersen, J. I., Lesage, R., Fink, T., Pennisi, C. P. & Zachar, V., 2016, In: *Stem Cell Research & Therapy*. 7, 13 p., 177.

### **Mass spectrometry analysis of adipose-derived stem cells reveals a significant effect of hypoxia on pathways regulating extracellular matrix**

Riis, S. E., Stensballe, A., Emmersen, J., Pennisi, C. P., Birkelund, S., Zachar, V. & Fink, T., 2016, In: *Stem Cell Research & Therapy*. 7, 1, 14 p., 52.

### **Pooled human platelet lysate supports the isolation and efficient expansion of skeletal muscle myoblasts**

Pennisi, C. P., Riis, S. E., Boyer, A., Fink, T. & Zachar, V., 2016, *Abstracts, DASCs Stem Cell Conference 2016, 10-11 November 2016, Copenhagen, Denmark*. Danish Stem Cell Society, p. 23 P10

### **Critical steps in the isolation and expansion of adipose-derived stem cells for translational therapy**

Riis, S. E., Zachar, V., Boucher, S., Vemuri, M. C., Pennisi, C. P. A. & Fink, T., 2015, In: *Expert Reviews in Molecular Medicine*. 17, 11 p., e11.

### **Investigation of ASC-mediated wound healing in in vitro skin injury models**

Riis, S. E., Newman, R., Kuninger, D., Boucher, S., Vermuri, M., Zachar, V. & Fink, T., 2014, In: *Cytherapy*. 16, 4, Suppl., p. S93 Abstract No. 326.

### **Activation of protease-activated receptor 2 induces VEGF independently of HIF-1**

Rasmussen, J., Riis, S. E., Frøbert, O., Yang, S., Kastrup, J., Zachar, V., Simonsen, U. & Fink, T., 25 Sep 2012, In: *PLoS One*. 7, 9, p. Article No. e46087

### **Effect of unaccustomed eccentric exercise on proprioception of the knee in weight and non-weight bearing tasks**

Vila-Cha, C., Riis, S. E., Lund, D. H., Møller, A. H., Farina, D. & Falla, D. L., 2011, In: *Journal of Electromyography & Kinesiology*. 21, 1, p. 141-147

### **In human adipose stem cells trypsin treatment upregulates expression and secretion of VEGF in a manner independent of hypoxia inducible factor 1**

Fink, T., Rasmussen, J., Porsborg, S. R., Lundsted, D. H., Larsen, B. F., Frøbert, O., Kastrup, J., Simonsen, U. & Zachar, V., 2011, *Miami IFATS 2011 Conference: [The 9th Annual Symposium on Adipose Stem Cells and Clinical Applications of Adipose Tissue], 4-6 November 2011, Miami, FL, USA*. International Federation for Adipose Therapeutics and Science, IFATS, p. 84, No. 109

## **Press/Media**

### **Legat til talentfuld diabetesforsker**

Simone Riis Porsborg

03/12/2018

1 item of Media coverage

### **Overrækkelse af Diabetesforeningens Forskningslegat 2018**

Simone Riis Porsborg

16/11/2018 → 16/11/2018

12 items of Media coverage

### **Tre forskertalenter fik legater**

Simone Riis Porsborg

21/02/2019

1 item of Media coverage

**Uddannelse: Tidligere Ryomgård pige scorer ph.d.-grad**

Simone Elkjær Riis

19/05/2016

13 items of Media coverage