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The **German Heart Center of the Free State of Bavaria associated to the Technical University of Munich** is a clinic with international reputation and a state of the art technical and medical equipment.

The **Sager Laboratory** of cardiovascular inflammation at the **Department of Cardiology** is seeking a

## PhD student (m/f/d)

The "European Research Council starting grant" research group of Dr. Hendrik Sager is looking to recruit a highly motivated PhD student to join a dynamic international research team at the German Heart Center Munich, department of cardiology. Our research focusses on the role of the immune system in cardiovascular disease. Specifically, we are interested in the origin, function and fate of innate immune cells (monocytes, macrophages, neutrophils) in atherosclerosis and wound healing after myocardial infarction. Based on new mechanistic understanding, we seek to develop novel therapeutic concepts. We are part of the German Heart Center Munich and aim translate our findings to better understand and improve human health. We are funded by the "European Research Council (ERC Starting Grant 2017 awarded to H. Sager)", "Deutsche Forschungsgemeinschaft", "Deutsches Zentrum für Herz-Kreislauf-Forschung", "Else-Kröner-Fresenius-Stiftung" and "Deutsche Herzstiftung".

### Profile/Requirements

- An excellent command of flow cytometry techniques, in addition to standard molecular biology
- Strong interest in cardiovascular research
- Accuracy and reliability, initiative, organisational skills and a high sense of responsibility
- Very good written and spoken English
- High level of communication skills
- Ability to work in a team

### Recent publications:

*Colchicine impacts leukocyte trafficking in atherosclerosis and reduces vascular inflammation.*

Meyer-Lindemann U, Mauersberger C, Schmidt A-C, Moggio A, Hinterdobler J, Li X, Khangholi D, Hettwer J, Gräber C, Dutsch A, Schunkert H, Kessler T, Sager HB

*Front. Immunol.*, 04 July 2022 <https://doi.org/10.3389/fimmu.2022.898690> (IF=7.6 (2020))

*Interleukin-1 $\beta$  suppression dampens inflammatory leukocyte production and uptake in atherosclerosis.*

Hettwer J, Hinterdobler J, Miritsch B, Deutsch MA, Li X, Mauersberger C, Moggio A, Braster Q, Gram H, Robertson AAB, Cooper MA, Groß O, Krane M, Weber C, Koenig W, Soehnlein O, Adamstein NH, Ridker P, Schunkert H, Libby P, Kessler T, **Sager HB**.

*Cardiovasc Res.* 2021, DOI: 10.1093/cvr/cvab337 (IF=13.1 (2021))

*Acute mental stress drives vascular inflammation and promotes plaque destabilization in mouse atherosclerosis.*

Hinterdobler J, Schott S, Jin H, Meesmann A, Steinsiek AL, Zimmermann AS, Wobst J, Müller P, Mauersberger C, Vilne B, Baecklund A, Chen

CS, Moggio A, Braster Q, Molitor M, Krane M, Kempf WE, Ladwig KH, Hristov M, Hulsmans M, Hilgendorf I, Weber C, Wenzel P, Scheiermann C, Maegdefessel L, Soehnlein O, Libby P, Nahrendorf M, Schunkert H, Kessler T, **Sager HB.**

*Eur Heart J.* 2021 Oct 14;42(39):4077-4088. doi: 10.1093/eurheartj/ehab371. (IF=35.9 (2021))

*Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure.*

Sager HB, Hulsmans M, Lavine KJ, Beltrami Moreira MB, Heidt T, Courties G, Sun Y, Iwamoto Y, Tricot B, Khan OF, Dahlman JE, Borodovsky A, Fitzgerald K, Anderson DG, Weissleder R, Libby P, Swirski FK, Nahrendorf M.

*Circ Res.* 2016 Sep 16;119(7):853-64. doi: 10.1161/CIRCRESAHA.116.309001. (IF=11.6)

*RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction.*

Sager HB, Dutta P, Dahlman JE, Hulsmans M, Courties G, Sun Y, Heidt T, Vinegoni C, Borodovsky A, Fitzgerald K, Wojtkiewicz GR, Iwamoto Y, Tricot B, Khan OF, Kauffman KJ, Xing Y, Shaw TE, Libby P, Langer R, Weissleder R, Swirski FK, Anderson DG, Nahrendorf M.

*Sci Transl Med.* 2016 Jun 8;8(342):342ra80. doi: 10.1126/scitranslmed.aaf1435. (IF=16.3)

#### **Our offer**

- An employment contract initially limited to three years with longer-term prospects
- Remuneration according to TV-L E13 (65%) (incl. annual bonus)
- Attractive employer offers (e.g. sports programme, staff restaurant, staff sales in the hospital pharmacy)

The German Heart Center Munich promotes professional equality between women and men and provides the same employment opportunity for severely disabled people in case of equal qualifications.

#### **Contacts**

- Hendrik Sager, MD, Principal Investigator, telephone +49 89 1218 2935
- Michaela Frint, project manager, telephone +49 89 1218 1764
- Thomas Schmid, Head of Recruiting/HR, telephone +49 89 1218 1734

#### **Your application should include:**

- Cover letter describing your research interest and why you are suitable for the position (maximum 1 page)
- CV including a list of relevant publications
- Copy of the official academic transcript of your degree or a letter stating when your degree will be obtained
- Names, e-mail addresses, and telephone numbers for academic references/recommendation letters

Please send us your **application until August 31st, 2022** by E-Mail to: **career@dhm.mhn.de**

Interview expenses will not be reimbursed.

**Apply now**