



Carl-Magnus Svensson

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Curriculum vitae

Main Research Areas

- signal and data analysis
- analysis of medical and microscopy images using computer vision approaches
- statistical modeling and machine learning

Professional Career

since 2012	Postdoctoral researcher in the Applied Systems Biology group, Hans Knöll Institute, Jena, Germany.
2011-2012	Postdoctoral researcher in the group Computational Neuroscience and Machine Learning at Frankfurt Institute for Advanced Studies (FIAS) in Frankfurt am Main
2009-2011	Postdoctoral researcher in the Visual Neuroscience group at the School of Psychology at the University of Nottingham (GB)
2009	PhD in Applied Mathematics at the University of Nottingham (GB)
2005	M.Sc. in Engineering Physics at the Royal Institute of Technology in Stockholm (SWE)

Publications

González K^{*}, Gangapurwala G^{*}, Alex J^{*}, Vollrath A, Cseresnyés Z, Weber C, Czaplewska JA, Hoeppener S, Svensson CM, Orasch T, Heinekamp T, Guerrero-Sánchez C, Figge MT, Schubert US, Brakhage AA (2023) Targeting of phagolysosomes containing conidia of the human pathogenic fungus *Aspergillus fumigatus* with polymeric particles. *Appl Microbiol Biotechnol* 107(2-3), 819-834.

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PubMed

OPEN ACCESS

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Praetorius JP, Walluks K, Svensson CM, Arnold D, Figge MT[#] (2023) IMFSegNet: Cost-effective and objective quantification of intramuscular fat in histological sections by deep learning. *Comput Struct Biotechnol J* 21, 3696-3704.

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Svensson CM^{*}, Reglinski K^{*}, Schliebs W, Erdmann R, Eggeling C[#], Figge MT[#] (2023) Quantitative analysis of peroxisome tracks using a Hidden Markov Model. *Sci Rep* 13(1), 19694.

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Schmidt C^{*}, Hanne J^{*}, Moore J, Meesters C, Ferrando-May E, Weidtkamp-Peters S, members of the NFDI4BIOIMAGE initiative (incl. Svensson CM, Figge MT) (2022) Research data management for bioimaging: The 2021 NFDI4BIOIMAGE community survey. *F1000Research* 11, 638.

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Stanišić A, Svensson CM, Ettelt U, Kries H[#] (2022) Defining a nonribosomal specificity code for design. *bioRxiv* [Preprint]

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Campagner A, Ciucci D, Svensson CM, Figge MT, Cabitza F (2021) Ground truthing from multi-rater labeling with three-way decision and possibility theory. *Inf Sci* 545, 771-790.

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Kästner B, Hengoju S, Svensson CM, Figge MT, Rosenbaum MA (2021) Mit Tropfenmikrofluidik zu Hochgeschwindigkeits-Biotechnologie. *BIOspektrum* 27(3), 260-262. (Review)

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Shopova IA, Belyaev I, Dasari P, Jahreis S, Stroe MC, Cseresnyés Z, Zimmermann AK, Medyukhina A, Svensson C-M, Krüger T, Szeifert V, Nietzsche S, Conrad T, Blango MG, Kniemeyer O, von Lilienfeld-Toal M, Zipfel PF, Ligeti E, Figge MT, Brakhage AA (2020) Human neutrophils produce antifungal extracellular vesicles against *Aspergillus fumigatus*. *mBio* 11(2), e00596-20.

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Hirth G, Svensson C-M, Böttcher K, Ullrich S, Figge MT, Jungnickel B (2019) Regulation of the germinal center reaction and somatic hypermutation dynamics by homologous recombination. *J Immunol* 203(6), 1493-1501.

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Kresinsky A, Schnöder TM, Jacobsen ID, Rauner M, Hofbauer LC, Ast V, König R, Hoffmann B, Svensson C-M, Figge MT, Hilger I, Heidel FH, Böhmer FD, Müller JP (2019) Lack of CD45 in FLT3-ITD mice results in a myeloproliferative phenotype, cortical porosity, and ectopic bone formation. *Oncogene* 38(24), 4773-4787.

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