

# LEBENS LAUF UND PUBLIKATIONS LISTE



## Persönliche Daten

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## Ausbildung

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05/2008-03/2013 Doktorarbeit mit dem Ziel zum Dr. rer. nat. an der Friedrich-Alexander-Universität Erlangen-Nürnberg im Institut für klinische Immunologie, Medizinische Klinik 3, Erlangen

03/2008 Biologie Diplom (Note: 1,3) an der Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen

2007/2008 Diplomarbeit am Institut für Klinische Immunologie und Rheumatologie, Medizinische Klinik 3, der Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen (Note: 1,0):  
*„Die Bedeutung von Harnsäure und ihren Kristallen für die Immunogenität spätapoptotischer Zellen.“*  
1. Berichterstatter: Prof. Dr. Uwe Sonnewald  
2. Berichterstatter: Prof. Dr. Dr. Martin Herrmann

03/2005 Biologie Vordiplom an der Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen

WS 2002 Studium der Biologie an der Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen

06/2002 Allgemeine Hochschulreife

1993 - 2002 Franz-Ludwig-Gymnasium, Bamberg

1989 - 1993 Adam-Riese Grundschule, Bad Staffelstein

## Förderungen / Stipendien

seit 10/2008	Mitglied im DFG geförderten Graduiertenkolleg "Zelluläre Immuninterventionen" SFB 643
06/2009	Reisestipendium vom DAAD zur "Gordon Research Conference on Apoptotic Cell Recognition & Clearance <i>Worm-Fly-Vertebrate-Human Clearance And Failure</i> " vom 28.06. bis 03.07.2009, Colby-Sawyer College in New London, NH, USA
01.01.-31.03.2010	Stipendium zur Ausbildungsförderung im Rahmen von wissenschaftlichen Forschungsprojekten von der K. und R. Wucherpfennig-Stiftung
06/2011	Reisestipendium vom DAAD zur "Gordon Research Conference on Apoptotic Cell Recognition & Clearance", vom 17.07. bis 22.07.2011, Bates College in Lewiston, ME, USA
10/2012	Verleihung des „ImmunoTools IT-Box-139 Award 2012“

## Wissenschaftliche Veröffentlichungen

- 1 Janko, C., **Schorn C.**, Weidner, D., Sarter K., Chaurio R., Sheriff, A., Schett, G., Munoz, L.; "Treatment with DNase I fosters binding to nec PBMC of CRP". *Autoimmunity*, April 2009; 42(4): 1–3.
- 2 **Schorn, C.**, Janko, C., Munoz L., Schulze, C., Strycio, M., Schett, G., Herrmann M.; "Sodium and potassium urate crystals differ in their inflammatory potential". *Autoimmunity*, April 2009; 42(4): 1–3.
- 3 **Schorn, C.**, Strycio, M., Janko, C., Munoz L., Schett, G., Herrmann M.; "The uptake of blood-borne phagocytes of monosodium urate is dependent on heat-labile serum factor(s) and bivalent cations". *Autoimmunity*, May 2010; 43(3): 1–3.
- 4 **Schorn C.**, Frey B., Lauber K., Janko C., Strycio M., Keppeler H., Gaipf U.S., Voll R.E., Springer E., Munoz L.E., Schett G., Herrmann M.; "Sodium overload and water influx activate the NALP3 inflammasome". *J Biol Chem*. 2011 Jan 7; 286(1): 35-41.
- 5 Janko C., André S., Munoz L.E., **Schorn C.**, Winkler S., Schett G., Gabius H.J., Muller S., Herrmann M.; "Autoantibodies against galectin-2 peptides as biomarkers for the antiphospholipid syndrome". *Lupus*. 2012; 21(7): 781-783
- 6 Lodermann B., Wunderlich R., Frey S., **Schorn C.**, Stangl S., Rödel F., Keilholz L., Fietkau R., Gaipf U.S., Frey B.; "Low dose ionising radiation leads to a NF- $\kappa$ B dependent decreased secretion of active IL-1 $\beta$  by activated macrophages in a discontinuous dose-dependency". *Int J Radiat Biol*. 2012; 88(10): 727-34
- 7 Frischholz B., Wunderlich R., Rühle P.F., **Schorn C.**, Rödel F., Keilholz L., Fietkau R., Gaipf U.S., Frey B.; "Reduced secretion of the inflammatory

- cytokine IL-1 $\beta$  by stimulated peritoneal macrophages of radiosensitive Balb/c mice after exposure to 0.5 or 0.7Gy of ionizing radiation". *Autoimmunity*. 2012; [Epub ahead of print]
- 8 Herman S., Kny A., **Schorn C.**, Pfatschbacher J., Niederreiter B., Herrmann M., Holmdahl R., Steiner G., Hoffmann M.H.; "Cell death and cytokine production induced by autoimmunogenic hydrocarbon oils." *Autoimmunity*. 2012; 45(8): 602-11
  - 9 Sarter K., Janko C., André S., Muñoz L.E., **Schorn C.**, Winkler S., Rech J., Kaltner H., Lorenz H.M., Schiller M., Andreoli L., Manfredi A.A., Isenberg D.A., Schett G., Herrmann M., Gabius H.J. "Autoantibodies against galectins are associated with antiphospholipid syndrome in patients with systemic lupus erythematosus". *Glycobiology*. 2012; [Epub ahead of print]
  - 10 **Schorn C.**, Janko C., Latzko M., Chaurio R., Schett G., Herrmann M. "Monosodiumurate crystals induce extracellular DNA traps in neutrophils, eosinophils, and basophils but not in mononuclear cells." *Frontiers in Immunology*. 2012; 3:277. Epub 2012; [doi: 10.3389/fimmu.2012.00277]
  - 11 Chaurio R., Janko C., **Schorn C.**, Maueröder C., Bilyy R., Gaip U., Schett G., Berens C., Frey B., Munoz L. "UVB-irradiated apoptotic cells induce accelerated growth of co-implanted viable tumor cells in immune competent mice." *Autoimmunity*. 2012; [Epub ahead of print]
  - 12 **Schorn C.**, Janko C., Krenn V., Zhao Y., Munoz L.E., Schett G., Herrmann M. "Bonding the foe – NETting neutrophils immobilize the pro-inflammatory monosodium urate crystals." *Frontiers in Immunology*. 2012; [Epub ahead of print]
  - 13 Janko C., Dürr S, Munoz L.E., Lyer S., Chaurio R., Tietze R., Löhneysen Sv., **Schorn C.**, Herrmann M., Alexiou C. „Magnetic drug targeting reduces the chemotherapeutic burden on circulating leukocytes." *Int J Mol Sci*. 2013 Apr 2;14(4):7341-55. doi: 10.3390/ijms14047341.
  - 14 Janko C., Jeremic I., Biermann M., Chaurio R., **Schorn C.**, Muñoz L.E., Herrmann M. "Cooperative binding of Annexin A5 to phosphatidylserine on apoptotic cell membranes." *Phys Biol*. 2013 Dec;10(6):065006. doi: 10.1088/1478-3975/10/6/065006.
  - 15 **Schauer C.**, Janko C., Munoz L.E., Zhao Y., Kienhöfer D., Frey B., Lell M., Manger B., Rech J., Naschberger E., Holmdahl R., Krenn V., Harrer T., Jeremic I., Bilyy R., Schett G., Hoffmann M., Herrmann M. „Aggregated neutrophil extracellular traps limit inflammation by degrading cytokines and chemokines." *Nat Med*. 2014 May;20(5):511-7.

## **Editorials**

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- 1 Harre U, Derer A, **Schorn C**, Schett G, Herrmann M. "T cells as key players for bone destruction in gouty arthritis?" *Arthritis Res Ther*. 2011 Dec 2;13(6):135.

## Reviews

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- 1 Janko, C., **Schorn, C.**, Grossmayer, G.E., Frey, B., Herrmann, M., Gaipf, U.S., and Munoz, L.E.; "Inflammatory clearance of apoptotic remnants in systemic lupus erythematosus (SLE)". *Autoimmun Rev Oct 2008*, 8(1):9-12
- 2 Muñoz L.E., Janko C., Schulze C., **Schorn C.**, Sarter K., Schett G., Herrmann M.; "Autoimmunity and chronic inflammation - two clearance-related steps in the etiopathogenesis of SLE". *Autoimmun Rev. Nov 2010*; 10(1):38-42.
- 3 Cui B., Tan C., **Schorn C.**, Tang H., Liu Y., Zhao Y. „Neutrophil extracellular traps in sterile inflammation: the story after dying?" *Autoimmunity 2012* [Epub ahead of print]
- 4 Janko C., Filipović M., Munoz L.E., **Schorn C.**, Schett G., Ivanović-Burmazović I., Herrmann M. "Redox Modulation of HMGB1-Related Signaling." *Antioxid Redox Signal.* 2014 Mar 1;20(7):1075-85.

## Buchbeiträge

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- 1 Munoz L.E., Schulze C., Janko C., **Schorn C.**, Sarter K., Herrmann M. The mosaic of the etiopathogenesis of SLE - Role of chromatin binding autoantibodies; From Pathogenesis To Therapy of Autoimmune Disease, 2009
- 2 Sarter, K., Schulze, C., Janko, C., **Schorn,C.**, Munoz, LE., Herrmann, M.; Buchkapitel: Apoptosis in Lupus; Apoptosis: Modern Insights into Disease From Molecules to Man, 2010.

## Konferenzbeiträge

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- 1 **Schorn C.**, Frey B., Janko C., Muñoz L.E., Naschberger E., Herrmann M. "Formation of gouty tophi is initiated by extranuclear DNA." *Ann Rheum Dis* 2011;70:A8 doi:10.1136/ard.2010.149096.18
- 2 Janko C., **Schorn C.**, Grossmayer G., Gaipf U.S., Herrmann M., Munoz L.E. "Anti-dsDNA autoantibodies mediate inflammatory clearance of nuclear fragments in whole blood in patients with SLE." *Clinical and Experimental Rheumatology* 2008; 26; 1; Supp 48; S89-S89
- 3 **Schorn C.**, Stryio M., Janko C., Springer E., Muñoz L.E.; Schett G., Herrmann M. "MSU, the adjuvans of dying cells activates the NALP3 inflammasome by sodium overload." *Ann Rheum Dis* 2011;70:A8-A9 doi:10.1136/ard.2010.149096.20
- 4 **Schorn C.**, Frey B., Janko C., Schett G., Herrmann M.. "The NALP3 inflammasome is activated by sodium overload and water influx in gouty arthritis." *Arthritis Rheum* 2010;62 Suppl 10 :2150 DOI: 10.1002/art.29914
- 5 Janko C., **Schorn C.**, Munoz L.E., Rauh M., Lauber K., Schett G., et al; "Binding Target for C-Reactive Protein Is Released from Secondary Necrotic

Cells." *Arthritis Rheum* 2010;62 Suppl 10 :490 DOI: 10.1002/art.28259

- 6 Pauthner M., Janko C., Baum W., **Schorn C.**, Dobias H., Moder A., Schett G., Herrmann M. "Radon therapy ameliorates disease progression and prolongs survival in TNF  $\alpha$  tg mice." *Ann Rheum Dis* 2012;71:Suppl 1 A30-A31 doi:10.1136/annrheumdis-2011-201233.1
- 7 Janko C., **Schorn C.**, Muñoz L.E., Rauh M., Schett G., Herrmann M. "CRP discriminates primary from secondary necrosis." *Ann Rheum Dis* 2011;70:A8 doi:10.1136/ard.2010.149096.19
- 8 **Schorn C.**, Frey B., Janko C., Muñoz L.E., Naschberger E., Herrmann M. "Formation of gouty tophi is initiated by extranuclear DNA." *Ann Rheum Dis* 2011;70:Suppl 2 A8 doi:10.1136/ard.2010.149096.18

### **Vorträge international**

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- 1 *MSU, the adjuvans of dying cells activates the NALP3 inflammasome by sodium overload.*  
"Gordon Research Conference on Apoptotic Cell Recognition & Clearance *Worm-Fly-Vertebrate-Human Clearance And Failure*"; 28.06.-03.07.2009, Colby-Sawyer College in New London, NH, USA
- 2 *MSU crystals activate the NALP3 inflammasome by sodium overload.*  
"European Workshop on microcrystal-induced inflammation and diseases in human", 11.03.-12.03.2010, Paris, France
- 3 *Sodium overload and water influx activate the NALP3 inflammasome.*  
"Clearance of dying cells in a Healthy and Diseased Immune System", 09.05.-11.05.2010, Jerusalem, Israel
- 4 *The NALP3 inflammasome is Activated by sodium overload and water influx in gouty arthritis.*  
"Annual Scientific Meeting of the American College of Rheumatology (ACR)", 06.11.-11.11.2010, Atlanta, USA
- 5 *Neutrophil extracellular traps and gout.*  
"3<sup>rd</sup> European workshop on Crystal and Human diseases", 08.03.-09.03.2012, Paris, France

### **Vorträge national**

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- 1 *MSU crystals activate the NALP3 inflammasome by sodium overload.*  
"ECI Satellite Symposium: NK cells, Myeloid Cells and Lymphocytes in Autoimmunity and Infection", 17.09.2009, Mikrobiologisches Institut, Wasserturmstraße 3-5, Erlangen
- 2 *Autoimmunity and Transplantation.*  
„Jour-Fix-Seminar“ des SFB 643 Graduiertenkollegs, 05.11.2009, Erlangen
- 3 *The NALP3 inflammasome is activated by sodium overload.*

- „2. Symposium des SFB 643 Graduiertenkollegs“, 11.11-12.11.2009, Effeltrich
- 4 *The complement system.*  
„Jour-Fix-Seminar“ des SFB 643 Graduiertenkollegs, 28.10.2010, Erlangen
- 5 *MSU activates the NALP3 inflammasome by sodium overload.*  
„3. Symposium des SFB 643 Graduiertenkollegs“, 11.10-12.10.2010, Heiligenstadt
- 6 *MSU-induced responses of granulocytes.*  
„4. Symposium des SFB 643 Graduiertenkollegs“, 18.10-19.10.2011, Heiligenstadt
- 7 *NETs Formation – an overview.*  
„Jour-Fix-Seminar“ des SFB 643 Graduiertenkollegs, 12.07.2012, Erlangen
- 8 *Tophus formation regulates inflammation in gout.*  
„5. Symposium des SFB 643 Graduiertenkollegs“, 05.11-07.11.2012, Garmisch-Partenkirchen