

Qualifikationen

Medizin, Habilitation, Habil Test-Titel, Friedrich-Alexander-Universität Erlangen-Nürnberg
Datum der Vergabe: 19.12.1996

Medizin, Dr. med., title of dissertation, Friedrich-Alexander-Universität Erlangen-Nürnberg
Datum der Vergabe: 01.01.1978

2002 → 2008 gewählter Fachkollegiat der DFG

2003 → ... Fachimmunologe (DGfI)

1985 → ... Facharzt für Mikrobiologie und Hygiene, FA

Organisationszugehörigkeiten

Past-Präsident der Paul-Ehrlich-Gesellschaft

Paul-Ehrlich-Gesellschaft für antimikrobielle Chemotherapie e. V.
Deutschland

01.10.2018 → 30.09.2020

Präsident der Paul-Ehrlich-Gesellschaft

Paul-Ehrlich-Gesellschaft für antimikrobielle Chemotherapie e. V.
Deutschland

01.10.2016 → 30.09.2018

Vizepräsident der Paul-Ehrlich-Gesellschaft

Paul-Ehrlich-Gesellschaft für antimikrobielle Chemotherapie e. V.
Deutschland

01.10.2014 → 30.09.2016

Vorstand der Renate-Maaß-Stiftung

Renate-Maaß-Stiftung Lübeck
Lübeck, Deutschland

01.01.2009 → present

Publikationen

Chronic Inflammation Disrupts Circadian Rhythms in Splenic CD4+ and CD8+ T Cells in Mice

Hirose, M., Leliavski, A., de Assis, L. V. M., Matveeva, O., Skrum, L., Solbach, W., Oster, H. & Heyde, I., 13.01.2024, in: Cells. 13, 2, 151.

Dynamics of immunity over time: decline of anti-SARS-CoV-2 IgG antibodies and T-cell responses after mRNA vaccination in residents and health care workers in nursing homes and homes with assisted living support

Schiffner, J., Eisemann, N., Baltus, H., Jensen, S., Wunderlich, K., Schuesseler, S., Eicker, C., Teegen, B., Boniakowsky, D., Solbach, W. & Mischnik, A., 2023, in: GMS infectious diseases. 11, S. Doc02

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Schiffner, J., Backhaus, I., Rimmele, J., Schulz, S., Möhlenkamp, T., Klemens, J. M., Zapf, D., Solbach, W. & Mischnik, A., 27.09.2021, in: Frontiers in Public Health. 9, 732787.

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Solbach, W., Schiffner, J., Backhaus, I., Burger, D., Staiger, R., Tiemer, B., Bobrowski, A., Hutchings, T. & Mischnik, A., 22.09.2020, in: Frontiers in Public Health. 8, 570543.

Combined culture and metagenomic analyses reveal significant shifts in the composition of the cutaneous microbiome in psoriasis

Langan, E. A., Künstner, A., Miodovnik, M., Zillikens, D., Thaçi, D., Baines, J. F., Ibrahim, S. M., Solbach, W. & Knobloch, J. K., 12.05.2019, in: British Journal of Dermatology.

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Langan, E. A., Griffiths, C. E. M., Solbach, W., Knobloch, J. K., Zillikens, D. & Thaçi, D., 2018, in: *British Journal of Dermatology*. 178, 5, S. 1020-1027 8 S.

"Life-like" assessment of antimicrobial surfaces by a new touch transfer assay displays strong superiority of a copper alloy compared to silver containing surfaces

Knobloch, J. K. M., Tofern, S., Kunz, W., Schütze, S., Riecke, M., Solbach, W. & Wuske, T., 01.11.2017, in: *PLoS ONE*. 12, 11, e0187442.

Lymphocyte Circadian Clocks Control Lymph Node Trafficking and Adaptive Immune Responses

Druzd, D., Matveeva, O., Ince, L., Harrison, U., He, W., Schmal, C., Herzel, H., Tsang, A. H., Kawakami, N., Leliavski, A., Uhl, O., Yao, L., Sander, L. E., Chen, C. S., Kraus, K., de Juan, A., Hergenhan, S. M., Ehlers, M., Koletzko, B. & Haas, R. & 3 mehr, Solbach, W., Oster, H. & Scheiermann, C., 17.01.2017, in: *Immunity*. 46, 1, S. 120-132 13 S.

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Roth, S., Solbach, W. & Laskay, T., 14.01.2016, in: *Cell Death and Disease*. 7, S. e2049

Dimethylfumarate impairs neutrophil functions

Müller, S., Behnen, M., Bieber, K., Möller, S., Hellberg, L., Witte, M., Hänsel, M., Zillikens, D., Solbach, W., Laskay, T. & Ludwig, R. J., 01.01.2016, in: *Journal of Investigative Dermatology*. 136, 1, S. 117-126 10 S.

Hypertension and mild chronic kidney disease persist following severe haemolytic uraemic syndrome caused by Shiga toxin-producing Escherichia coli O104: H4 in adults

Derad, I., Obermann, B., Katalinic, A., Eisemann, N., Knobloch, J. K. M., Sayk, F., Wellhöner, P., Lehnert, H., Solbach, W., Süfke, S., Steinhoff, J. & Nitschke, M., 01.01.2016, in: *Nephrology Dialysis Transplantation*. 31, 1, S. 95-103 9 S.

Transcription regulates HIF-1 α expression in CD4⁺ T cells

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Secondary necrotic neutrophils release interleukin-16C and macrophage migration inhibitory factor from stores in the cytosol

Roth, S., Agthe, M., Eickhoff, S., Möller, S., Karsten, C. M., Borregaard, N., Solbach, W. & Laskay, T., 30.11.2015, in: *Cell Death Discovery*. 1, S. 15056 1 S.

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Sarkar, A., Möller, S., Bhattacharyya, A., Behnen, M., Rupp, J., van Zandbergen, G., Solbach, W. & Laskay, T., 01.09.2015, in: *International Journal of Medical Microbiology*. 305, 6, S. 493-500 8 S.

The role of endoplasmic reticulum-related BiP/GRP78 in interferon gamma-induced persistent Chlamydia pneumoniae infection

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Production, crystallization and X-ray diffraction analysis of the protease CT441 from Chlamydia trachomatis

Kohlmann, F., Shima, K., Rupp, J., Solbach, W., Hilgenfeld, R. & Hansen, G., 01.01.2015, in: Acta Crystallographica Section:F Structural Biology Communications. 71, S. 1454-1458 5 S.

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Kohlmann, F., Shima, K., Hilgenfeld, R., Solbach, W., Rupp, J. & Hansen, G., 01.01.2015, in: Journal of Bacteriology. 197, 1, S. 211-218 8 S.

Immobilized immune complexes induce neutrophil extracellular trap release by human neutrophil granulocytes via FcγRIIIB and Mac-1

Behnen, M., Leschczyk, C., Möller, S., Batel, T., Klinger, M., Solbach, W. & Laskay, T., 15.08.2014, in: Journal of immunology (Baltimore, Md. : 1950). 193, 4, S. 1954-65 12 S.

Recurrent abscesses of the neck: Scrofuloderma

Haase, O., Von Thomsen, A. J., Zillikens, D., Solbach, W. & Kahle, B., 01.01.2014, in: JAMA Dermatology. 150, 8, S. 909-910 2 S.

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Warnke, P., Aepfelbacher, M., Fickenscher, H., Solbach, W., Steinmetz, I. & Podbielski, A., 01.01.2014, in: Deutsche Medizinische Wochenschrift. 139, 25-26, S. 1377-1382 6 S.

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Hellberg, L., Samavedam, U. K. S. R. L., Holdorf, K., Hänsel, M., Recke, A., Beckmann, T., Steinhorst, K., Boehncke, W. H., Kirchner, T., Möckel, N., Solbach, W., Zillikens, D., Schmidt, E., Ludwig, R. J. & Laskay, T., 01.10.2013, in: Journal of Investigative Dermatology. 133, 10, S. 2390-2399 10 S.

Activities of first-choice antimicrobials against gamma interferon-treated Chlamydia trachomatis differ in hypoxia

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Hauswaldt, S., Nitschke, M., Sayk, F., Solbach, W. & Knobloch, J. K. M., 01.02.2013, in: Current Infectious Disease Reports. 15, 1, S. 4-9 6 S.

Infection of neutrophil granulocytes with *Leishmania major* activates ERK 1/2 and modulates multiple apoptotic pathways to inhibit apoptosis

Sarkar, A., Aga, E., Bussmeyer, U., Bhattacharyya, A., Möller, S., Hellberg, L., Behnen, M., Solbach, W. & Laskay, T., 02.2013, in: *Medical Microbiology and Immunology*. 202, 1, S. 25-35 11 S.

Host metabolism promotes growth of *Chlamydia pneumoniae* in a low oxygen environment

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Association between azithromycin therapy and duration of bacterial shedding among patients with shiga toxin-producing enteroaggregative *Escherichia coli* O104:H4

Nitschke, M., Sayk, F., Härtel, C., Roseland, R. T., Hauswaldt, S., Steinhoff, J., Fellermann, K., Derad, I., Wellhöner, P., Büning, J., Tiemer, B., Katalinic, A., Rupp, J., Lehnert, H., Solbach, W. & Knobloch, J. K. M., 14.03.2012, *JAMA - Journal of the American Medical Association*. S. 1046-1052 7 S. (*JAMA - Journal of the American Medical Association*; Band 307).

Circadian clocks in mouse and human CD4+ T cells

Bollinger, T., Leutz, A., Leliavski, A., Skrum, L., Kovac, J., Bonacina, L., Benedict, C., Lange, T., Westermann, J., Oster, H. & Solbach, W., 28.12.2011, in: *PLoS ONE*. 6, 12, e29801.

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Proinflammatory stimuli enhance phagocytosis of apoptotic cells by neutrophil granulocytes

Hellberg, L., Fuchs, S., Gericke, C., Sarkar, A., Behnen, M., Solbach, W. & Laskay, T., 01.12.2011, in: *TheScientificWorldJournal*. 11, S. 2230-2236 7 S.

Fluorescence lifetime imaging unravels *C. trachomatis* metabolism and its crosstalk with the host cell

Szaszák, M., Steven, P., Shima, K., Orzekowsky-Schröder, R., Hüttmann, G., König, I. R., Solbach, W. & Rupp, J., 01.07.2011, in: *PLoS Pathogens*. 7, 7, e1002108.

Impact of a low-oxygen environment on the efficacy of antimicrobials against intracellular *Chlamydia trachomatis*

Shima, K., Szaszák, M., Solbach, W., Gieffers, J. & Rupp, J., 01.05.2011, in: *Antimicrobial Agents and Chemotherapy*. 55, 5, S. 2319-2324 6 S.

The influence of regulatory T cells and diurnal hormone rhythms on T helper cell activity

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Sleep, immunity, and circadian clocks: A mechanistic model

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T cells are required for the production of blister-inducing autoantibodies in experimental epidermolysis bullosa acquisita

Sitaru, A. G., Sesarman, A., Mihai, S., Chiriac, M. T., Zillikens, D., Hultman, P., Solbach, W. & Sitaru, C., 01.02.2010, in: *Journal of Immunology*. 184, 3, S. 1596-1603 8 S.

Impairment of gamma interferon signaling in human neutrophils infected with *Anaplasma phagocytophilum*

Bussmeyer, U., Sarkar, A., Broszat, K., Lüdemann, T., Möller, S., Van Zandbergen, G., Bogdan, C., Behnen, M., Dumler, J. S., Von Loewenich, F. D., Solbach, W. & Laskay, T., 01.01.2010, in: *Infection and Immunity*. 78, 1, S. 358-363 6 S.

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7. Analysis of the molecular clock in CD4+ T cells and its relevance for the functional circadian rhythm of CD4+ T cells

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***Chlamydia pneumoniae* hides inside apoptotic neutrophils to silently infect and propagate in macrophages**

Rupp, J., Pfeleiderer, L., Jugert, C., Moeller, S., Klinger, M., Dalhoff, K., Solbach, W., Stenger, S., Laskay, T. & van Zandbergen, G., 23.06.2009, in: *PLoS ONE*. 4, 6, e6020.

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Bollinger, T., Bollinger, A., Skrum, L., Dimitrov, S., Lange, T. & Solbach, W., 01.02.2009, in: *Clinical and Experimental Immunology*. 155, 2, S. 231-238 8 S.

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Müller, M., Ewert, I., Hansmann, F., Tiemann, C., Hagedorn, H. J., Solbach, W., Roeder, J., Nölle, B., Laqua, H. & Hoerauf, H., 01.05.2007, in: British Journal of Ophthalmology. 91, 5, S. 592-595 4 S.

Evidence of direct interactions between the CC-chemokines CCL3, CCL4 and CCL5 and *Leishmania promastigotes*

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Erratum: *Leishmania* disease development depends on the presence of apoptotic promastigotes in the virulent inoculum (Proceedings of the National Academy of Sciences of the United States of America (September 12, 2006) 37, 103 (13837-13842) DOI: 10.1073/pnas.0600843103)

Van Zandbergen, G., Bollinger, A., Wenzel, A., Kamhawi, S., Voll, R., Klinger, M., Müller, A., Hölscher, C., Herrmann, M., Sacks, D., Solbach, W. & Laskay, T., 31.10.2006, in: Proceedings of the National Academy of Sciences of the United States of America. 103, 44, 1 S.

***Leishmania* disease development depends on the presence of apoptotic promastigotes in the virulent inoculum**

Van Zandbergen, G., Bollinger, A., Wenzel, A., Kamhawi, S., Voll, R., Klinger, M., Müller, A., Hölscher, C., Herrmann, M., Sacks, D., Solbach, W. & Laskay, T., 12.09.2006, in: Proceedings of the National Academy of Sciences of the United States of America. 103, 37, S. 13837-13842 6 S.

Influence of a new surface modification of intraocular lenses with fluoroalkylsilan on the adherence of endophthalmitis-causing bacteria in vitro

Kienast, A., Kämmerer, R., Weiss, C., Klinger, M., Menz, D. H., Drespe, J., Ohgke, H., Solbach, W., Laqua, H. & Hoerauf, H., 01.09.2006, in: Graefes Archive for Clinical and Experimental Ophthalmology. 244, 9, S. 1171-1177 7 S.

β -lactam antibiotic-induced release of lipoteichoic acid from *Staphylococcus aureus* leads to activation of neutrophil granulocytes

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Single-nucleotide-polymorphism-specific PCR for quantification and discrimination of *Chlamydia pneumoniae* genotypes by use of a "locked" nucleic acid

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Cutting edge: Neutrophil granulocyte serves as a vector for Leishmania entry into macrophages

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First-Choice Antibiotics at Subinhibitory Concentrations Induce Persistence of Chlamydia pneumoniae

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Highly purified lipoteichoic acid activates neutrophil granulocytes and delays their spontaneous apoptosis via CD14 and TLR2

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