



## Stephan Rogalla, M.D. PhD

Clinical Assistant Professor, Medicine - Gastroenterology & Hepatology

### CLINICAL OFFICES

- **Gastroenterology**

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### Bio

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### CLINICAL FOCUS

- Gastroenterology

### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Medicine - Gastroenterology & Hepatology

### HONORS AND AWARDS

- Seed Grant Esophagus Disease, Division of Gastroenterology and Hepatology, Stanford Medicine (04/2018-03/2019)
- Seed Grant, Canary Foundation (2016-2017)
- Postdoctoral Fellowship, Will Foundation (10/2012 - 09/2013)
- Synergy Award, Kenneth Rainin Foundation (02/2018-02/2020)
- Scholarship for extraordinary Attainment, Konrad-Adenauer Foundation (06/2002 - 11/2006)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Gastroenterological Association (AGA) (2017 - present)
- Chair, Intra-operative Imaging Study Group ESMI (2016 - present)
- Member, AACR (2014 - present)
- Member, European Society of Molecular Imaging (2014 - present)
- Member, ASCO (2014 - present)
- Member, World Molecular Imaging Society (2013 - present)

### PROFESSIONAL EDUCATION

- Fellowship: Charite University Medicine Hospital (2012) Germany
- Residency: Charite University Medicine Hospital (2010) Germany
- Internship: Charite University Medicine Hospital (2008) Germany

- Medical Education: Charite-Universitätsmedizin (2006) Germany
- Postdoctoral Fellowship, Stanford Medical School, Department of Pediatrics Molecular Imaging Program at Stanford (MIPS) , Molecular Imaging: Early Detection and Guided Resection of Malignancies (2015)
- Residency and Fellowship, Charité University Medicine Berlin, Germany , Gastroenterology, Oncology (2010)
- Residency, Charité University Medicine Berlin, Germany , General, Visceral, Vascular and Thoracic Surgery (2007)

## COMMUNITY AND INTERNATIONAL WORK

- Chair Intra-operative Imaging Interest Group

## PATENTS

- Stefan Harmsen, Stephan Rogalla, Sanjiv Gambhir. "United States Patent 62/639,795 Functional Dyes for Early Lesion Detection", Leland Stanford Junior University, Mar 7, 2018

## Research & Scholarship

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## PROJECTS

- Development of new Imaging Tools in Neoplasia of the GI-Tract - Stanford University (October 1, 2012 - present)
- Anti-Angiogenic Drugs in the Treatment of Colon Cancer and Osteosarcoma - Charité University Medicine Berlin, Germany (February 1, 2007 - September 30, 2012)
- Guided resection of medulloblastoma using integrated optical tools for multimodality imaging - Stanford University
- Precision Medicine in Inflammatory Bowel Disease - Stanford University

## Publications

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## PUBLICATIONS

- **A protease-activated, near-infrared fluorescent probe for early endoscopic detection of premalignant gastrointestinal lesions.** *Proceedings of the National Academy of Sciences of the United States of America*  
Yim, J. J., Harmsen, S., Flisikowski, K., Flisikowska, T., Namkoong, H., Garland, M., van den Berg, N. S., Vilches-Moure, J. G., Schnieke, A., Saur, D., Glasl, S., Gorpas, D., Habtezion, et al  
2021; 118 (1)
- **AND-gate contrast agents for enhanced fluorescence-guided surgery.** *Nature biomedical engineering*  
Widen, J. C., Tholen, M. n., Yim, J. J., Antaris, A. n., Casey, K. M., Rogalla, S. n., Klaassen, A. n., Sorger, J. n., Bogyo, M. n.  
2020
- **Biodegradable Fluorescent Nanoparticles for Endoscopic Detection of Colorectal Carcinogenesis** *ADVANCED FUNCTIONAL MATERIALS*  
Rogalla, S., Flisikowski, K., Gorpas, D., Mayer, A. T., Flisikowska, T., Mandella, M. J., Ma, X., Casey, K. M., Felt, S. A., Saur, D., Ntziachristos, V., Schnieke, A., Contag, et al  
2019; 29 (51)
- **Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering-Nanoparticle Endoscopy.** *ACS nano*  
Harmsen, S., Rogalla, S., Huang, R., Spaliviero, M., Neuschmelting, V., Hayakawa, Y., Lee, Y., Taylor, Y., Toledo-Crow, R., Kang, J. W., Samii, J. M., Karabeber, H., Davis, et al  
2019; 13 (2): 1354–64
- **Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering-Nanoparticle Endoscopy** *ACS NANO*  
Harmsen, S., Rogalla, S., Huang, R., Spaliviero, M., Neuschmelting, V., Hayakawa, Y., Lee, Y., Taylor, Y., Toledo-Crow, R., Kang, J., Samii, J. M., Karabeber, H., Davis, et al  
2019; 13 (2): 1354–64
- **Biodegradable fluorescent nanoparticles for endoscopic detection of colorectal carcinogenesis.** *Advanced functional materials*  
Rogalla, S. n., Flisikowski, K. n., Gorpas, D. n., Mayer, A. T., Flisikowska, T. n., Mandella, M. J., Ma, X. n., Casey, K. M., Felt, S. A., Saur, D. n., Ntziachristos, V. n., Schnieke, A. n., Contag, et al  
2019; 29 (51)

- **Emerging Intraoperative Imaging Modalities to Improve Surgical Precision** *MOLECULAR IMAGING AND BIOLOGY*  
Alam, I. S., Steinberg, I., Vermesh, O., van den Berg, N. S., Rosenthal, E. L., van Dam, G. M., Ntziachristos, V., Gambhir, S. S., Hernot, S., Rogalla, S.  
2018; 20 (5): 705–15
- **Emerging Intraoperative Imaging Modalities to Improve Surgical Precision.** *Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging*  
Alam, I. S., Steinberg, I., Vermesh, O., van den Berg, N. S., Rosenthal, E. L., van Dam, G. M., Ntziachristos, V., Gambhir, S. S., Hernot, S., Rogalla, S.  
2018
- **Intraoperative Molecular Imaging in Lung Cancer: The State of the Art and the Future.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Rogalla, S. n., Joosten, S. C., Alam, I. S., Gambhir, S. S., Vermesh, O. n.  
2018; 26 (2): 338–41
- **The tyrosine kinase inhibitor imatinib mesylate suppresses uric acid crystal-induced acute gouty arthritis in mice** *PLOS ONE*  
Reber, L. L., Starkl, P., Balbino, B., Sibilano, R., Gaudenzio, N., Rogalla, S., Sensarn, S., Kang, D., Raghu, H., Sokolove, J., Robinson, W. H., Contag, C. H., Tsai, et al  
2017; 12 (10): e0185704
- **Neutrophil myeloperoxidase diminishes the toxic effects and mortality induced by lipopolysaccharide** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Reber, L. L., Gillis, C. M., Starkl, P., Joensson, F., Sibilano, R., Marichal, T., Gaudenzio, N., Berard, M., Rogalla, S., Contag, C. H., Bruhns, P., Galli, S. J.  
2017; 214 (5): 1249-1258
- **Dose-dependent role of novel agents emodin and BTB14431 in colonic cancer treatment in rats.** *Acta chirurgica Belgica*  
Braumann, C. n., Koplin, G. n., Geier, C. n., Höhn, P. n., Pohlenz, J. n., Dubiel, W. n., Rogalla, S. n.  
2017: 1–9
- **A Clinical Wide-Field Fluorescence Endoscopic Device for Molecular Imaging Demonstrating Cathepsin Protease Activity in Colon Cancer.** *Molecular imaging and biology*  
Sensarn, S., Zavaleta, C. L., Segal, E., Rogalla, S., Lee, W., Gambhir, S. S., Bogoyo, M., Contag, C. H.  
2016; 18 (6): 820-829
- **A Clinical Wide-Field Fluorescence Endoscopic Device for Molecular Imaging Demonstrating Cathepsin Protease Activity in Colon Cancer** *MOLECULAR IMAGING AND BIOLOGY*  
Sensarn, S., Zavaleta, C. L., Segal, E., Rogalla, S., Lee, W., Gambhir, S. S., Bogoyo, M., Contag, C. H.  
2016; 18 (6): 820–29
- **SU-E-J-274: Responses of Medulloblastoma Cells to Radiation Dosimetric Parameters in Intensity-Modulated Radiation Therapy.** *Medical physics*  
Park, J., Park, J., Rogalla, S., Woo, D., Lee, D., Park, H., Contag, C., Suh, T.  
2015; 42 (6): 3330-?
- **Early Cancer Detection at the Epithelial Surface** *CANCER JOURNAL*  
Rogalla, S., Contag, C. H.  
2015; 21 (3): 179-187
- **A Real-Time Clinical Endoscopic System for Intraluminal, Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles** *PLOS ONE*  
Garai, E., Sensarn, S., Zavaleta, C. L., Loewke, N. O., Rogalla, S., Mandella, M. J., Felt, S. A., Friedland, S., Liu, J. T., Gambhir, S. S., Contag, C. H.  
2015; 10 (4)
- **Atherosclerotic Plaque Targeting Mechanism of Long-Circulating Nanoparticles Established by Multimodal Imaging** *ACS NANO*  
Lobatto, M. E., Calcagno, C., Millon, A., Senders, M. L., Fay, F., Robson, P. M., Ramachandran, S., Binderup, T., Paridaans, M. P., Sensarn, S., Rogalla, S., Gordon, R. E., Cardoso, et al  
2015; 9 (2): 1837-1847
- **A real-time clinical endoscopic system for intraluminal, multiplexed imaging of surface-enhanced Raman scattering nanoparticles.** *PloS one*  
Garai, E., Sensarn, S., Zavaleta, C. L., Loewke, N. O., Rogalla, S., Mandella, M. J., Felt, S. A., Friedland, S., Liu, J. T., Gambhir, S. S., Contag, C. H.  
2015; 10 (4)
- **The tumor suppressive reagent tauroldine inhibits growth of malignant melanoma - a mouse model** *JOURNAL OF SURGICAL RESEARCH*  
Braumann, C., Jacobi, C. A., Rogalla, S., Menenakos, C., Fuehrer, K., Trefzer, U., Hofmann, M.

2007; 143 (2): 372-378

- **High doses of taurolidine inhibit advanced intraperitoneal tumor growth in rats** *JOURNAL OF SURGICAL RESEARCH*

Braumann, C., Stuhldreier, B., Bobrich, E., Menenakos, C., Rogalla, S., Jacobi, C. A.

2005; 129 (1): 129-135