



CRC/TRR241 Newsletter

December 2019 – Issue 4

New TRR 241 First and Senior Author Publications

Raja Atreya (C02/C03) and Christoph Becker (A03) published the review **Tumour Necrosis Factor Alpha in Intestinal Homeostasis and Gut Related Diseases** in the **International Journal of Molecular Sciences**.

Sebastian Schürmann (C01) published with the support of **Markus Neurath (C04)** and **Maximilian Waldner (C01)** the article **Label-Free Multiphoton Endomicroscopy for Minimally Invasive In Vivo Imaging** in the journal **Advanced Science**.

Markus Neurath (C01) and Raja Atreya (C02/C03) published the review **Oligonucleotides-A Novel Promising Therapeutic Option for IBD** in the journal **Frontiers in Pharmacology**.

Zlatko Trajanoski (IBDome) published the review **Molecular and pharmacological modulators of the tumor immune contexture revealed by deconvolution of RNA-seq data** in the journal **Genome Medicine**.

Claudia Günther (A02) and Markus Neurath (C04) published the review **What gastroenterologists and hepatologists should know about organoids in 2019** in the journal **Digestive and Liver Disease**.

Christian Bojarski (C02), Maximilian Waldner (C01) and Raja Atreya (C02/C03) published the review **Targeting mucosal healing in Crohn's disease: what the clinician needs to know** in the journal **Therapeutic Advances in Gastroenterology**.

Moritz Leppkes and Martin Herrmann (B04) published the review **Extracellular DNA traps in inflammation, injury and healing** in the journal **Nature Reviews Nephrology**.

Markus Neurath (C04) published the review **Targeting immune cell circuits and trafficking in inflammatory bowel disease** in the journal **Nature Immunology**.

Zlatko Trajanoski (IBDome) published the review **Advancing cancer immunotherapy: a vision for the field** in the journal **Genome Medicine**.

Zlatko Trajanoski (IBDome) published the review **Next-generation computational tools for interrogating cancer immunity** in the journal **Nature Reviews Genetics**.

Moritz Leppkes and Martin Herrmann (B04) published the article **Aggregated NETs Sequester and Detoxify Extracellular Histones** in the journal **Frontiers in Immunology**.

Claudia Günther (A02) published with the support of **Raja Atreya (C02/C03), Markus Neurath (C04), Stefan Wirtz (A03) and Christoph Becker (A03)** the article **Interferon Lambda Promotes Paneth Cell Death Via STAT1 Signaling in Mice and Is Increased in Inflamed Ileal Tissues of Patients With Crohn's Disease** in the journal **Gastroenterology**.

Rocio Lopez-Posadas (A07) published with the support of **Stefan Wirtz (A03), Raja Atreya (C02/C03), Sebastian Schürmann (C01), Maximilian Waldner (C01), Clemens Neufert (A08), Markus Neurath (C04) and Imke Atreya (A07)** the article **Inhibiting PGGT1B Disrupts Function of RHOA, Resulting in T-cell Expression of Integrin alpha 4 beta 7 and Development of Colitis in Mice** in the journal **Gastroenterology**.

Markus Neurath (C04), Imke Atreya (A07) and Stefan Wirtz (A03) published the article **A CCL1/CCR8-dependent feed-forward mechanism drives ILC2 functions in type 2-mediated inflammation** in the **Journal of Experimental Medicine**.



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Joint TRR241 Workshop 2019 – Schloß Thurn

The TRR241 welcomed all members for the joint workshop in Schloß Thurn. In addition to progress reports from all projects, Mario Zaiss Department of Medicine 3 – Rheumatology and Immunology and Sebastian Zundler Department of Medicine 1 presented guest lectures and Nadine Cerf Bensussan, head of the Laboratory of Intestinal Immunity Université Paris Descartes-Sorbonne Paris Cité, joined as keynote speaker. In round table meetings, progress and aims regarding the IBDome project, data management, the iRTG and the establishment of the mouse IBDome were discussed.



TRR241 PI Agreements

During the Project Leader Assembly, the TRR241 members agreed that Lump Sum Funds will be used in 2020 to support projects of young researchers, high risk projects, projects bridging Erlangen, Berlin, Kiel and Innsbruck. Moreover, financial support for the use of expensive scientific technologies were concluded. Application forms were recently distributed.

Further on, the TRR241 announced two travels awards for visiting the ECCO 2020 in Vienna to support the international visibility of the TRR241 and its excellent young iRTG scientists on a European level. The awards will be given to the two best abstracts submitted by a MD or PhD doctoral candidate of the iRTG TRR 241 and accepted by the ECCO for poster or oral presentation at the upcoming ECCO Congress. Further information: <https://www.transregio241.de/grk/young-scientist-support/>



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Looking for MD Students

In order to support the career of young researchers, 18 medical doctoral researcher fellowships have been granted for the first funding period. The TRR241 is able to support **6 MD students in the year 2020**. If you are interested in supporting an MD student in your lab and need further information please contact Ina Schlelein (ina.schlelein@uk-erlangen.de) or Erika von Bühler (erika.buehler@charite.de).

Currently, the TRR241 supports the MD projects of Leonard Diemand (A03), Lina Dinse (A03), Florian Krämer (C04), Annegret Sand (B01) and Alexis Haller (A01).

Save the Date

In 2021, June 10th-11th, the International Symposium “Immune-Epithelial Communication in IBD” (working title) will take place in the Berlin-Brandenburgische Akademie der Wissenschaften in Berlin. The international congress will be divided into a basic, translational and clinical part. You are welcome to make suggestions regarding international speakers, presentation of TRR241 projects and sponsorship.



Supporting early career

One task of the TRR241 is to support young scientists. Beside supporting MD students we would like to offer young scientists (Master student) the opportunity to do an internship in a TRR241 associated research group. The internship will be organized by the DAAD- RISE program (<https://www.daad.de/rise/de/rise-germany/>). Costs (750€/month + additional 500€ project specific money) will be covered by the TRR241. If you are interested in joining the RISE program please contact Ina Schlelein or Erika Bühler. Joining the RISE program would be a great chance to recruit future Master and PhD students.

TRR241 travel related costs

We would like to remind you that the TRR241 supports its members (PIs, PostDocs, PhD students) to participate at national and international congresses. TRR241 related congress and abstract fees can be covered by the TRR241. Attached please find some upcoming conferences that you might like to join

- 15th Congress of ECCO, February 12-15, 2020, Vienna/Austria, Registration until 29th January 2020
- DDW, May 02-05, Chicago/USA, Registration opens in January 2020
- FALK-Symposium 219 “IBD-Patients” – In the Center of Care, May 22-23, Copenhagen/Denmark, Registration is open now
- 12th European Mucosal Immunology Group Meeting August 19-21, 2020 in Bern, Switzerland; Registration will open in January 2020



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TRR241 Acknowledgement

In order to clearly demonstrate the importance and impact of the **INF Project** as a central part of the TRR241, please mention the “**TRR241 - IBDome Consortium**” on each poster you or your PhD students present, during your presentation or in the acknowledgement of publication in the case you used human samples. A respective Logo will follow soon.