



## Anne Ernst

Postdoctoral Research Fellow, Radiation Biology

### Bio

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#### HONORS AND AWARDS

- DFG Fellowship at Giaccia Lab, Department of Radiation Oncology, Stanford University, DFG (Deutsche Forschungsgesellschaft) (9/1/2018-8/31/2020)
- Participant at the Merck Innovation Cup 2018 – Anniversary Addition in Frankfurt, Germany, Merck KGaA (07/2018)
- Travel Award at the 5th International Conference on Tumor Microenvironment and Cellular Stress, Aegean Conferences (06/2018)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Ludwig Maximilian Universitat Munchen (2016)
- Dr. rer. nat., LMU Munich, Germany, Radiation Oncology (2016)
- Diplom, Ernst Moritz Arndt Universitat (2011)

#### STANFORD ADVISORS

- Amato Giaccia, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Priming anti-tumor immunity by radiotherapy: Dying tumor cell-derived DAMPs trigger endothelial cell activation and recruitment of myeloid cells.** *Oncoimmunology*  
Krombach, J., Hennel, R., Brix, N., Orth, M., Schoetz, U., Ernst, A., Schuster, J., Zuchtriegel, G., Reichel, C. A., Bierschenk, S., Sperandio, M., Vogl, T., Unkel, et al  
2019; 8 (1): e1523097
- **A novel HSP90 inhibitor with reduced hepatotoxicity synergizes with radiotherapy to induce apoptosis, abrogate clonogenic survival, and improve tumor control in models of colorectal cancer** *ONCOTARGET*  
Kinzel, L., Ernst, A., Orth, M., Albrecht, V., Hennel, R., Brix, N., Frey, B., Gaipl, U. S., Zuchtriegel, G., Reichel, C. A., Blutke, A., Schilling, D., Multhoff, et al  
2016; 7 (28): 43199-43219
- **Targeting the heat shock response in combination with radiotherapy: Sensitizing cancer cells to irradiation-induced cell death and heating up their immunogenicity** *CANCER LETTERS*  
Lauber, K., Brix, N., Ernst, A., Hennel, R., Krombach, J., Anders, H., Belka, C.  
2015; 368 (2): 209-229
- **HSP90 inhibition as a means of radiosensitizing resistant, aggressive soft tissue sarcomas** *CANCER LETTERS*  
Ernst, A., Anders, H., Kapfhammer, H., Orth, M., Hennel, R., Seidl, K., Winssinger, N., Belka, C., Unkel, S., Lauber, K.  
2015; 365 (2): 211-222
- **Low and moderate doses of ionizing radiation up to 2 Gy modulate transmigration and chemotaxis of activated macrophages, provoke an anti-inflammatory cytokine milieu, but do not impact upon viability and phagocytic function** *CLINICAL AND EXPERIMENTAL IMMUNOLOGY*

Wunderlich, R., Ernst, A., Roedel, F., Fietkau, R., Ott, O., Lauber, K., Frey, B., Gaipf, U. S.

2015; 179 (1): 50-61

● **Release of monocyte migration signals by breast cancer cell lines after ablative and fractionated gamma-irradiation** *RADIATION ONCOLOGY*

Hennel, R., Brix, N., Seidl, K., Ernst, A., Scheithauer, H., Belka, C., Lauber, K.

2014; 9

● **Current concepts in clinical radiation oncology** *RADIATION AND ENVIRONMENTAL BIOPHYSICS*

Orth, M., Lauber, K., Niyazi, M., Friedl, A. A., Li, M., Maihoefer, C., Schuettrumpf, L., Ernst, A., Niemoeller, O. M., Belka, C.

2014; 53 (1): 1-29

● **Serum-Derived Plasminogen Is Activated by Apoptotic Cells and Promotes Their Phagocytic Clearance** *JOURNAL OF IMMUNOLOGY*

Rosenwald, M., Koppe, U., Keppeler, H., Sauer, G., Hennel, R., Ernst, A., Blume, K. E., Peter, C., Herrmann, M., Belka, C., Schulze-Osthoff, K., Wesselborg, S., Lauber, et al

2012; 189 (12): 5722-5728

● **Dying cell clearance and its impact on the outcome of tumor radiotherapy.** *Frontiers in oncology*

Lauber, K., Ernst, A., Orth, M., Herrmann, M., Belka, C.

2012; 2: 116-?