

Publication List – Natalia Pikor, PhD

1. Publications in peer-reviewed scientific journals

Lütge M., **Pikor, NB.**, and Ludewig B. 2021. Differentiation and activation of fibroblastic reticular cells. *Immunological Reviews*. 302(1): 32-46.

Grabherr S., Ludewig B., and **Pikor NB.** Insights into coronavirus immunity taught by the mouse hepatitis virus. 2021. *Eur J Immunol.*, Eur J Immunol. Mar 9. doi: 10.1002/eji.202048984.

Pikor NB, Cheng HW, Onder L, and Ludewig B. 2021. Development and immunological function of lymph node stromal cells. *J. Immunol.* 206(2): 257-263.

Cosgrove J, Novkovic M, Albrecht S, **Pikor NB,** Zhou Z, Onder L, Mörbe U, Cupovic J, Miller H, Alden K, Thuery A, O'Toole P, Pinter R, Jarrett S, Taylor E, Venetz D, Heller M, Uguccioni M, Legler DF, Lacey CJ, Coatesworth A, Polak WG, Cupedo T, Manoury B, Thelen M, Stein JV, Wolf M, Leake MC, Timmis J, Ludewig B, and Coles MC. 2020. B cell zone reticular cell microenvironments shape CXCL13 gradient formation. *Nat. Commun.* 11(1): 3677.

Pikor NB, Mörbe U, Lütge M, Gil-Cruz C, Perez-Shibayama C, Novkovic M, Cheng HW, Nombela-Arrieta C, Nagasawa T, Linterman MA, Onder L, and Ludewig B. 2020. Remodeling of light and dark zone follicular dendritic cells governs germinal center responses. *Nat. Immunol.* 21(6): 649 – 659.

Lercher A, Bhattacharya A, Popa AM, Caldera M, Schlapansky MF, Baazim H, Agerer B, Gürtl B, Kosack L, Mäjek P, Brunner JS, Vitko D, Pinter T, Genger JW, Orlova A, **Pikor N,** Reil D, Ozsvâr-Koyma M, Kalike U, Ludewig B, Moriggl R, Bennett KL, Menche K, Cheng PN, Schabbauer G, Trauner M, Klavins K, and Bergthaler A. 2019. Type I interferon signaling disrupts hepatic urea cycle and alters systemic metabolism to suppress T cell function. *Immunity*. Dec. 17; 51(6):1074-1087.e.9.

Berner F, Bomze D, Diem S, Ali OH, Fässler M, Ring S, Niederer R, Ackermann CJ, Baumgaertner P, **Pikor N,** Cruz CG, van de Veen W, Akdis M, Nikolaev S, Läubli H, Zipperli A, Hartmann F, Cheng HW, Hönger G, Recher M, Goldman J, Cozzio A, Früh M, Neefjes D, Driessen C, Ludewig B, Hegazy AN, Jochum W, Speiser DE, and Flatz L. 2019. Association of Checkpoint Inhibitor-Induced Toxic Effects with Shared Cancer and Tissue Antigens in Non-Small Cell Lung Cancer. *JAMA Oncol.* Jul 1; 5(7): 1043-1047.

Cheng HW, Onder L, Novkovic M, Soneson C, Lütge M, **Pikor N,** Scandella E, Robinson MD, Miyazaki Ji, Tersteegen A, Sorg U, Pfeffer K, Rüllicke T, Hehlgans T, and Ludewig B. 2019. Origin and differentiation trajectories of fibroblastic reticular cells in the splenic white pulp. *Nature Communications*. Apr 15; 10(1):1739.

Cheng HW, Onder L, Cupovic J, Boesch M, Novkovic M, **Pikor N,** Tarantino I, Rodriguez R, Schneider T, Jochum W, Brutsche M, and Ludewig B. 2018. CCL19-producing fibroblastic stromal cells restrain lung carcinoma growth by promoting local antitumor T-cell responses. *J Allergy Clin Immunol.* 142(4): 1257-1271.

Onder L, Mörbe U, **Pikor N,** Novkovic M, Cheng HW, Hehlgans T, Pfeffer K, Becher B, Waisman A, Rüllicke T, Gommerman J, Mueller CG, Sawa S, Scandella E, and Ludewig B. 2017. Lymphatic endothelial cells control initiation of lymph node organogenesis. *Immunity*. 18;47(1)80-92.

Pikor NB, Cupovic J, Onder L, Gommerman JL, and Ludewig B. 2017. Stromal cell niches in the inflamed central nervous system. *J. Immunol.* 198(5):1775-1781.

Publications in peer-reviewed journals resulting from PhD:

Ward LA, Lee DS, Sharma A, Wang A, Naouar I, Ma XI, **Pikor N**, Nuesslein-Hildesheim B, Ramaglia V, and Gommerman JL. 2020. Siponimod therapy implicates Th17 cells in a preclinical model of subpial cortical injury. *JCI Insight.* Jan. 16; 5(1):e132522.

Pikor NB, Prat A, Bar-Or A, and Gommerman JL. 2016. Meningeal tertiary lymphoid tissues and Multiple Sclerosis: A gathering place for diverse types of immune cells during CNS autoimmunity. *Front Immunol.* 6:657

Michel L, Touil H, **Pikor NB**, Gommerman JL, Prat A, and Bar-Or A. 2015. B cells in the Multiple Sclerosis Central Nervous System: Trafficking and contribution to CNS-compartmentalized inflammation. *Front Immunol.* 6:636

Pikor NB, Astarita JL, Summers-Deluca L, Galicia G, Qu J, Ward LA, Armstrong S, Dominguez CX, Malhorta D, Heiden B, Kay R, Castanov V, Touil H, Boon L, O'Connor P, Bar-Or A, Prat A, Ramaglia V, Ludwin S, Turley SJ, and Gommerman JL. 2015. Integration of Th17- and Lymphotoxin-derived signals initiates meningeal-resident stromal cell remodeling to propagate neuroinflammation. *Immunity.* 43(6):1160-73.

Galicia G, Boulianne B, **Pikor N**, Martin A, and Gommerman JL. 2013. Secondary B cell receptor diversification is necessary for T cell mediated neuro-inflammation during experimental autoimmune encephalomyelitis. *PLoS ONE.* 8(4): e61478.

Galicia-Rosas G, **Pikor N**, Sczwartz JA, Rojas O, Jian A, Summers-Deluca L, Ostrowski M, Nuesslein-Hildesheim B, and Gommerman JL. 2012. A sphingosine-1-phosphate receptor 1-directed agonist reduces central nervous system inflammation in a plasmacytoid dendritic cell-dependent manner. *J Immunol.* 189 (7):3700-3706.

Boulianne B, Porfilio EA, **Pikor N**, and Gommerman JL. 2012. Lymphotoxin-sensitive microenvironments in homeostasis and inflammation. *Front Immunol.* 3:243.

Pikor N and Gommerman JL. 2012. B cells in MS: Why, where and how? *Mult Scler Relat Disord.* 1(3):123–30.

Pikor NB*, deLuca, LE.*, O'Leary J, Galicia-Rosas G, Ward LA, Defreitas D, Finlay TM, Ousmann SS, Osborne LR, and Gommerman JL. 2010. Substrain differences reveal novel disease-modifying gene candidates that alter the clinical course of a rodent model of Multiple Sclerosis. *J Immunol.* 184(6):3174 – 3185. (*equal contribution)

2. Preprints:

Grabherr S., Waltenspühl A., Lütge, M. Büchler L., Cheng, H.W., Zielińska, K., Caviezel-Firner S., Krebs P., Ludewig B., and **Pikor NB**. Type I Interferon-dependent cellular remodeling during acute pulmonary MHV infection.

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