



JBC Monthly Newsletter

September 2021

JBC UPDATES

- Next **JBC Aims Review Committee meeting** will be on September 13th, 12-1 p.m. Eastern Time via Zoom. If you are not on the ARC email list and wish to be, please email peter.nigrovic@childrens.harvard.edu.

- Next **JBC Synergy Meeting** will be on September 24th, 12:30-1:30 p.m. Eastern Time via Zoom.

Topic: ***JBC Cycle II: what's staying, what's new?***

(Speakers: Peter Nigrovic, Jeff Sparks, Kevin Wei, Maria Gutierrez-Arcelus, and others)

- **JBC Microgrant** application will be open from September 7th - October 7th. Please send your applications early.
- The JBC will have **JBC Data Club** starting on September, with the objective of helping JBC members develop proficiency in experimental design and computational analysis. In each session, 2 participants will present their work in progress. The JBC Data Club will take place the last Thursday of every month at 3-4pm. **We are looking for participants for our first session on September 30th.** Please email Maria Gutierrez-Arcelus (Maria.Gutierrez-Arcelus@childrens.harvard.edu) if you want to be added to the JBC Data Club email list, and if you want to present, please provide dates that work for you.

JBC MEMBER NEWS

- **Lise Nigrovic** (BCH) was awarded NIAID R01A151180, “Comparative effectiveness and complications of intravenous ceftriaxone compared with oral doxycycline in Lyme meningitis” [Garro/Nigrovic].
- **Lise Nigrovic** (BCH) was awarded Department of Defense Idea Development Award W81XWH2110499, “Host-based proteomic biosignatures for the diagnosis of Lyme disease in children” [Nigrovic/Steen].

The JBC Team:

- Peter Nigrovic, M.D.
Director (BCH & BWH)
- Elizabeth Karlson, M.D.
Co-Director (BWH)

Human Biosamples Core:

- Elizabeth Karlson, M.D.
Director
- Jeffrey Sparks, M.D., M.M.Sc.
Associate Director BWH
- Lauren Henderson, M.D., M.M.Sc.
Associate Director BCH
- Deepak Rao, MD, PhD

Cellular Systems Core:

- Jim Lederer, Ph.D.
Director
- Kevin Wei, M.D., Ph.D.
Associate Director

JBC MEMBER PUBLICATIONS

Radtke FA, Ramadoss N, Garro AC, Bennett JE, Levas MN, Robinson WH, **Nigrovic PA**, **Nigrovic LE**. Serologic response to Borrelial antigens varies with clinical phenotype in children and young adults with Lyme disease. *J Clin Microbiol* 2021 Aug 11. [ePub ahead of print]. PMID: 34379528

Boekel L, Steenhuis M, Hooijberg F, Besten YR, van Kempen ZLE, Kummer LY, van Dam KPJ, Stalman EW, Vogelzang EH, Cristianawati O, Keijzer S, Vidarsson G, Voskuyl AE, Wieske L, Eftimov F, van Vollenhoven R, Kuijpers TW, van Ham SM, **Tas SW**, Killestein J, Boers M, Nurmohamed MT, Rispens T, Wolbink G. Antibody development after COVID-19 vaccination in patients with autoimmune diseases in the Netherlands: a substudy of data from two prospective cohort studies. *Lancet Rheumatol*. 2021 Aug 6. doi: 10.1016/S2665-9913(21)00222-8. Online ahead of print. PMID: 34396154 Free PMC article.

van Vollenhoven RF, **Tas SW**, Nurmohamed MT. Correspondence on "Associations of baseline use of biologic or targeted synthetic DMARDs with COVID-19 severity in rheumatoid arthritis: results from the COVID-19 global rheumatology alliance physician registry" by Sparks et al. *Ann Rheum Dis*. 2021 Aug 13:annrheumdis-2021-221146. doi: 10.1136/annrheumdis-2021-221146. Online ahead of print. PMID: 34389606

Boekel L, Hooijberg F, Vogelzang EH, Klarenbeek PL, Bos WH, **Tas SW**, Wolbink GJ. Spinning straw into gold: description of a disruptive rheumatology research platform inspired by the COVID-19 pandemic. *Arthritis Res Ther*. 2021 Aug 5;23(1):207. doi: 10.1186/s13075-021-02574-z. PMID: 34348783 Free PMC article. Review.

Jeucken KCM, Koning JJ, van Hamburg JP, Mebius RE, **Tas SW**. A Straightforward Method for 3D Visualization of B Cell Clusters and High Endothelial Venules in Lymph Nodes Highlights Differential Roles of TNFRI and -II. *Front Immunol*. 2021 Jun 21;12:699336. doi: 10.3389/fimmu.2021.699336. eCollection 2021. PMID: 34234786 Free PMC article.

Kaaij MH, Rip J, Jeucken KCM, Kan Y, van Rooijen CN, Saris J, Pots D, Frey S, Grootjans J, Schett G, van Duivenvoorde LD, Nolte MA, Hendriks RW, Corneth OBJ, van Hamburg JP, Baeten DLP, **Tas SW**. Overexpression of transmembrane TNF drives development of ectopic lymphoid structures in the bone marrow and B cell lineage alterations in experimental spondyloarthritis. *J Immunol*. Accepted for publication.

Sattui SE, Liew JW, Kennedy K, Sirotich E, Putman M, Moni TT, Akpabio AA, Alpizar-Rodriguez D, Berenbaum F, Bulina I, Conway R, Singh AD, Duff E, Durrant K, Gheita TA, Hill CL, Howard R, Hoyer BF, Hsieh E, el Kibbi L, Kilian A, Kim AHJ, Liew D, Lo C, Miller B, Mingolla S, Nudel M, Palmerlee CA, Singh JA, Singh N, Ugarte-Gil MF, Wallace J, Young KJ, Bhana S, Costello W, Grainger R, Machado PM, Robinson PC, Sufka P, Wallace ZS, Yazdany J, Harrison C, Larché MJ, Levine M, Foster G, Thabane L, Rider LG, Hausmann JS, Simard J, **Sparks JA**. Early experience of COVID-19 vaccination among adults with systemic rheumatic diseases: Results from the COVID-19 Global Rheumatology Alliance Vaccine Survey. *RMD Open*. 2021 (In Press).

Cook C, Patel NJ, D'Silva KM, **Hsu TY**, DiIorio M, **Prisco L**, **Martin L**, Vanni KMM, **Zaccardelli A**, Todd DJ, **Sparks JA***, Wallace ZS*. Clinical characteristics and outcomes of COVID-19 breakthrough infections among vaccinated patients with systemic autoimmune rheumatic diseases. *Ann Rheum Dis*. 2021 (In Press). *Contributed equally.

Sparks JA, Vanni KMM, Sparks MA, Xu C, Santacroce LM, Glynn RJ, Ridker PM, Solomon DH. Effect of low-dose methotrexate on estimated glomerular filtration rate and kidney adverse events: A randomized clinical trial. *J Am Soc Nephrol*. 2021 (In Press).

Martin LW, **Prisco LC**, Huang W, **Shadick NA**, McDermott G, Doyle TJ, **Sparks JA**. Prevalence and risk factors of bronchiectasis in rheumatoid arthritis: A systematic review and meta-analysis. *Semin Arthritis Rheum*. 2021 Aug 20;51(5):1067-1080. doi: 10.1016/j.semarthrit.2021.08.005. Online ahead of print.

Izadi Z, Brenner EJ, Mahil S, Smith C, Griffiths C, Yates M, Ungaro RC, Zhang X, Agrawal M, Colombel JF, Gianfrancesco M, Hyrich KL, Strangfeld A, Gossec L, Carmona L, Mateus EF, Lawson-Tovey S, Trupin L, Rush S, Katz P, Schmajuk G, Jacobsohn L, Seet AM, Al Emadi S, Wise L, Gilbert EL, Duarte-Garcia A, Valenzuela-Almada MO, Pons-Estel G, Isnardi CA, Berbotto GA, His TY, D'Silva KM, **Sparks JA**, Patel NJ, de Souza VA, da Mota LMH, Gomides APM, Wallace ZS, Bhana S, Costello W, Grainger R, Hausmann JS, Liew JW, Sirocich E, Sufka P, Robinson PC, Machado PM, Yazdany J, Kappelman MD. TNF inhibitors are associated with a lower risk of adverse COVID-19 outcomes in patients with immune-mediated disease: Pooled data from three global registries. *JAMA Netw Open*. 2021 (In Press).

Roofeh D, Barratt SL, Wells AU, Kawano-Dourado L, Tashkin D, Strand V, Seibold J, Proudman S, Brown KK, Dellaripa PF, Doyle TJ, Leonard T, Matteson E, Oddis C, Solomon J, **Sparks JA**, Vassallo R, Maxwell L, Beaton D, Christensen R, Townsend W, Khanna D. Outcome measurement instrument selection for lung physiology in systemic sclerosis associated interstitial lung disease: A systematic review using the OMERACT Filter 2.1 process. *Semin Arthritis Rheum*. 2021 (In Press).

OPEN POSITIONS

The **Nigrovic lab** (Boston Children's Hospital/Brigham and Women's Hospital) has postdoctoral position open in the areas of megakaryocyte biology and human genetics.