



JBC Monthly Newsletter

April 2020

JBC Updates

- The JBC is now in **year 4**, with the underlying P30 AR070253 award ending 7/31/21. NIAMS has indicated that they intend to accept new P30 applications this October, and we are planning to re-apply. In this context, please send us any suggestions you have for ways we could improve JBC services or otherwise make an optimally compelling proposal (JBC@bwh.harvard.edu). Similarly, please cite the JBC where you can, in your papers, talks, and other venues, to give us the best shot at being able to continue providing services to researchers in rheumatology.
- New service – Dr. Miriam Shelef (Wisconsin) has suggested that we use part of the JBC Newsletter to post open positions. We have begun such a section at the end of this newsletter. Please send any announcements (brief please – 1-2 lines of text, plus contact information) to JBC@bwh.harvard.edu.
- **Next JBC Synergy Meeting** will be on April 17th, 12:30-1:30 p.m. via Zoom. Speakers are Dr. Joseph Merola and Dr. Nancy Shadick who will be presenting on the COPPAR program, and Dr. Jeffrey Katz who will be presenting on projects relating to OA and meniscal tear.
- JBC Microgrant deadline is September 10th, 2020. Please visit our website <http://www.jbcwebportal.org/jbc-microgrant-program/> for more information about how to apply for up to \$5,000 in free JBC services including patient samples, CyTOF, and RNAseq.

JBC Member News

AWARDS AND GRANTS

Dr. Peter Nigrovic (BWH) has been awarded an R01 renewal from NIAMS, 2R01AR065538 “Control of neutrophil migration via Ly6 family members” (Co-I **Dr. Roy Soberman**, MGH).

The JBC Team:

Peter Nigrovic, M.D.
Director (BWH & BCH)

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

Cellular Systems Core:

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

PUBLICATIONS

Huang Z, Li T, **Nigrovic PA**, **Lee PY**. Polyarteritis nodosa and deficiency of adenosine deaminase 2 – shared genealogy, generations apart. *Clinical Immunology*. In press 2020.

Henderson LA, Canna SW, Schulert GS, Volpi S, **Lee PY**, Kernan KF, Caricchio R, Mahmud S, Hazen MM, **Halyabar O**, **Hoyt KJ**, Han J, Grom AA, Gattorno M, Ravelli A, de Benedetti F, Behrens EM, Cron RQ, **Nigrovic PA**. On the alert for cytokine storm: Immunopathology in COVID-19. *Arthritis Rheum* 2020. In press.

Angela B. Schmider, Nicholas C. Bauer, Hongjae Sunwoo, Matthew D. Godin, Giorgianna E. Ellis, Jeannie T. Lee, **Peter A. Nigrovic**, and **Roy J. Soberman**. Two and three-color STORM analysis reveals higher-order assembly of leukotriene synthetic complexes on the nuclear envelope of murine neutrophils *J. Biol. Chem.* jbc.RA119.012069. doi:10.1074/jbc.RA119.012069. First Published on March 9, 2020

Facciotti F, Larghi P, Bosotti R, Vasco C, Gagliani N, Cordiglieri C, Mazzara S, Ranzani V, Rottoli E, Curti S, Penatti A, Karnani B, Kobayashi Y, Crosti M, Bombaci M, van Hamburg JP, Rossetti G, Gualtierotti R, Gerosa M, Gatti S, Torretta S, Pignataro L, **Tas SW**, Abrignani S, Pagani M, Grassi F, Meroni PL, Flavell RA, Geginat J. Evidence for a pathogenic role of extrafollicular, IL-10-producing CCR6(+)B helper T cells in systemic lupus erythematosus. *Proc Natl Acad Sci U S A*. 2020 Mar 17. pii: 201917834. doi: 10.1073/pnas.1917834117. [Epub ahead of print] PubMed PMID: 32184325.

Busold S, Nagy NA, **Tas SW**, van Ree R, de Jong EC, Geijtenbeek TBH. Various Tastes of Sugar: The Potential of Glycosylation in Targeting and Modulating Human Immunity via C-Type Lectin Receptors. *Front Immunol*. 2020 Feb 7;11:134. doi: 10.3389/fimmu.2020.00134. eCollection 2020. Review. PubMed PMID: 32117281; PubMed Central PMCID: PMC7019010.

Musters A, **Tas SW**. Room for improvement in clinical trials for rare diseases. *Nat Rev Rheumatol*. 2020 Mar;16(3):131-132. doi: 10.1038/s41584-020-0376-6. PubMed PMID: 31996788.

Magrey MN, Danve AS, **Ermann J**, Walsh JA. Recognizing Axial Spondyloarthritis: A Guide for Primary Care. *Mayo Clin Proc*. In press.

Chen, P.-Y.**, Qin, L., Li, G., Malagon-Lopez, J., Wang, Z., Bergaya, S., Gujja, S., Caulk, A.W., Murtada, SI., Zhang, X., Zhuang, Z.W., **Rao, D.A.**, Wang, G., Tobiasova, Z., Jiang, B., Montgomery, R.R., Sun, L., Sun, H., Fisher, E.A., Gulcher, J.R., Fernandez-Hernando, C., Humphrey, J.D., Tellides, G., Chittenden, T.W., Simons, M. Smooth muscle cell reprogramming in aortic aneurysms. *Cell Stem Cell* in press (2020). (****JBC Microgrant project**)

Kim AHJ*, **Sparks JA***, Liew JW, Putman MS, Berenbaum F, Duarte-García A, Graef ER, Korsten P, Sattui SE, Sirotich E, Ugarte-Gil MF, Webb K, Grainger R, COVID-19 Global Rheumatology Alliance. A rush to judgment? Rapid reporting and dissemination of results and its consequences regarding the use of hydroxychloroquine for COVID-19. *Ann Intern Med*. 2020 Mar 30. doi: 10.7326/M20-1223. [Epub ahead of print]. *Contributed equally.

OPEN POSITIONS (NEW FEATURE!)

The **Nigrovic lab** (Brigham and Women's Hospital) has postdoctoral positions open in the areas of neutrophil and megakaryocyte biology.