



# JBC Monthly Newsletter

May 2020

## JBC Updates

- **Congratulations** to JBC associate director Dr. Kevin Wei and JBC members Drs. Soumya Raychaudhuri and Dr. Michael Brenner on their recent paper in *Nature* (see Publications).
- The JBC is now in **year 4**, with the underlying P30 AR070253 award ending 7/31/21. We are planning to re-apply. Please send us any suggestions for how we could improve JBC services or otherwise make a compelling proposal ([JBC@bwh.harvard.edu](mailto: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](mailto:JBC@bwh.harvard.edu).
- **Next JBC Synergy Meeting** will be on May 22<sup>nd</sup>, 12:30-1:30 p.m. via Zoom.
  - Talk 1: Jessica Lehoczky, Ph.D.: “Cellular heterogeneity and lineage restriction during mouse digit tip regeneration”
  - Talk 2: Ricardo Grieshaber, M.D. (Nigrovic lab): “How many kinds of neutrophils are there?”
- JBC Microgrant deadline is September 10<sup>th</sup>, 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

**Lauren Henderson** (BCH) received an All Arthritis grant from the ANRF for her proposal entitled, “The function and autoreactivity of Th1 polarized and clonally expanded Treg cells in oligo JIA.”

#### 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

**Ricardo Grieshaber-Bouyer** (BWH/Heidelberg) received a Physician Scientist Grant from the Heidelberg Faculty of Medicine, “Therapeutic reprogramming of neutrophils,” 2020-23.

**Christian Jacome-Galarza** was awarded a second-year renewal for his ANRF grant and a pilot and feasibility grant from the Center for Skeletal Research at MGH, to study the role of lineage-specific osteoclast progenitors in arthritis. He will be presenting his research at the CSR Annual Skeletal Research Symposium (Spring 2021).

**Peter A. Nigrovic** (BWH/BCH) was named to the American Board of Pediatrics Subboard of Pediatric Rheumatology

## PUBLICATIONS

**Wei K\***, Korsunsky I\*, Marshall JL, Gao A, Watts GFM, Major T, Croft AP, Watts J, Blazar PE, Lange JK, Thornhill TS, Filer A, Raza K, Donlin LT, Accelerating Medicines Partnership-Rheumatoid arthritis/Systemic Lupus Erythematosus (AMP RA/SLE) Consortium, Siebel CW, Buckley CD, **Raychaudhuri S\*** and **Brenner MB\*** (\* authors contributed equally). Notch signalling drives synovial fibroblast identity and arthritis pathology. *Nature* 2020; in print

Ingraham NE, Boulware D, Sparks MA, Schacker T, Bensen B, **Sparks JA**, Murray T, Connett J, Chipman JG, Charles A, Tignanelli CJ. Shining a light on the evidence for hydroxychloroquine in SARS-CoV-2. *Crit Care*. 2020 Apr 28;24(1):182.

**Grieshaber-Bouyer R\***, Lorenz HM. Biosimilars: opportunities and risks. *Internist (Berl)*. 2020 Apr 24. doi: 10.1007/s00108-020-00784-2. [Epub ahead of print] \*Corresponding.

Graef ER, Liew JW, Putman MS, Simard J, Sirotich E, Berenbaum F, Duarte-García A, Grainger R, Harrison C, König MF, Korsten P, Proulx L, Richards DP, Robinson PC, Sattui SE, Ugarte-Gil MF, Young KJ, Kim AHJ, **Sparks JA**, COVID-19 Global Rheumatology Alliance. Festina lente: Hydroxychloroquine, COVID-19 and the role of the rheumatologist. *Ann Rheum Dis*. 2020 Apr 15. pii: annrheumdis-2020-217480. doi: 10.1136/annrheumdis-2020-217480. [Epub ahead of print].

**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. 2020 Apr 15. doi: 10.1002/art.41285. [Epub ahead of print] \*Corresponding.

Centor RM, Kim AH, **Sparks JA**. Annals On Call - COVID-19: Is Chloroquine the Answer? *Ann Intern Med*. 2020 Apr 9. doi: 10.7326/A20-0003. [Epub ahead of print]

Cho SK, **Doyle TJ**, Lee H, Jin Y, Tong AY, Ortiz AJS, **Sparks JA**, Kim SC. Validation of claims-based algorithms to identify interstitial lung disease in patients with rheumatoid arthritis. *Semin Arthritis Rheum*. 2020 (In Press).

**Solomon DH**, Bucala R, Kaplan M, **Nigrovic PA**. *Arthritis & Rheumatology*: Evolving to Meet the Challenges of Rheumatology. *Arthritis Rheumatol*. In press 2020.

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Han S, Zhuang H, **Lee PY**, Li M, Yang L, **Nigrovic PA**, Reeves W. Nrf2 regulates interferon receptor expression and alters macrophage polarization in lupus. *Arthritis Rheumatol.* 2020 [in press].

Stoll ML, Duck LW, **Chang MH**, **Nigrovic PA**, Thompson S, Elson CO. Identification of *Prevotella oralis* as a possible target antigen in children with enthesitis related arthritis. *Clinical Immunol.* 2020 [in press].

### **OPEN POSITIONS (NEW FEATURE!)**

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