



JBC Monthly Newsletter

SEPTEMBER 2018

JBC Updates

Next JBC Synergy

Meeting:

Date: September 28th, 2018

Time: 12:30—1:30 p.m.

Location: BTM 02006B

THE JBC TEAM

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

Human Biosamples Core:

- Elizabeth Karlson, M.D.
Director (BWH)
- 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 (BWH)
- Chad Nusbaum, Ph.D.
Associate Director
Broad Institute
- Peter Nigrovic, M.D.
Associate Director BWH

- **Next JBC Synergy Meeting** will be on September 28th, 12:30-1:30 p.m. (BTM 02006B).
Speaker: Dr. Jeffrey Sparks
Topic: Prospective recruitment of healthy volunteers by genotype using the Partners Biobank
Speaker: Dr. Daimon Simmons
Topic: RNA sequencing of monocyte subsets from blood and synovial fluid
- **Jeff Duryea** and **Jamie Collins** would like to announce the Brigham Research Institute's Cross-Departmental Affinity Group for Machine Learning Applied to Radiological Imaging. Individuals who are interested should contact Jeff Duryea or Jamie Collins at jduryea@bwh.harvard.edu and jcollins13@bwh.harvard.edu.
- Next JBC Microgrant deadline is November 9th, 2018.

JBC Updates

Awards:

- Dr. **Michael Brenner** (BWH) has been named the recipient of the American College of Rheumatology Distinguished Basic Investigator Award for 2018. This award recognizes a basic scientist who has made outstanding contributions to the field of rheumatology, and will be presented at the opening ceremony of the ACR Annual Meeting in Chicago this October.

JBC Member News (continued)

Awards (continued):

- JBC Director Dr. **Peter Nigrovic (BWH & BCH)** served as an ACR Ambassador for the inaugural ACR-Emirates Society of Rheumatology annual scientific meeting in Dubai, UAE, September 19-22.
- Dr. **I-Cheng Ho** and Dr. **Kat Liao (BWH)** were awarded an R21 application titled “Utilizing the RA signature to predict TNFi response”
- Dr. **Sander W. Tas** (Amsterdam Rheumatology and immunology Center) was awarded a consortium grant titled “Dendritic Cell Targeting for Resetting Immune balance; the DC4Balance Project”. The overarching hypothesis of DC4Balance is that persistent disease-specific immunity/tolerance can be achieved using DC-modulating therapeutics that are composed of particulated immunogenic/tolerogenic adjuvant/antigen combinations. This approach will be used for reprogramming immune responses in cancer and chronic inflammatory diseases.
- Dr. **Julia Charles** (BWH) was awarded a R01 grant titled “Influence of SSRI Use During Pregnancy and Lactation on Maternal Bone Health”
- Dr. **Jeffrey Sparks** (BWH) was awarded a K Supplement Award from the Rheumatology Research Foundation: titled “Rheumatoid Arthritis-Related Autoantibodies and Respiratory Function/Structure”

Publications

Rao, DA. T Cells That Help B Cells in Chronically Inflamed Tissues. *Front. Immunol.*, 23 August 2018 | <https://doi.org/10.3389/fimmu.2018.01924>

Grieshaber-Bouyer R, Nigrovic PA. Maestro endothelium plays the neutrophils. *Blood* 2018 [invited commentary, in press].

JBC Member News (continued)

Publications (continued)

Weaver SR, Fricke HP, Xie C, Lipinski RJ, Vezina CM, **Charles JF**, Hernandez LL. Peripartum Fluoxetine Reduces Maternal Trabecular Bone After Weaning and Elevates Mammary Gland Serotonin and PTHrP. *Endocrinology*. 2018 Aug 1;159(8):2850-2862. doi: 10.1210/en.2018-00279. PubMed PMID: 29893816.

Yan J, Charles JF. Gut Microbiota and IGF-1. *Calcif Tissue Int*. 2018 Apr;102(4):406-414. doi: 10.1007/s00223-018-0395-3. Epub 2018 Jan 23. Review. PubMed PMID: 29362822; PubMed Central PMCID: PMC6132071.

Carey HA, Hildreth BE 3rd, Geisler JA, Nickel MC, Cabrera J, Ghosh S, Jiang Y, **Yan J**, Lee J, Makam S, Young NA, Valiente GR, Jarjour WN, Huang K, Rosol TJ, Toribio RE, **Charles JF**, Ostrowski MC, Sharma SM. Enhancer variants reveal a conserved transcription factor network governed by PU.1 during osteoclast differentiation. *Bone Res*. 2018 Mar 28;6:8. doi: 10.1038/s41413-018-0011-1. eCollection 2018. PubMed PMID: 29619268; PubMed Central PMCID: PMC5874256.

Throm AT, **Moncrieffe H**, Orandi AB, Pingel JT, Geurs TL, Miller HL, Daugherty AL, Malkova ON, Lovell DJ, Thompson SD, Grom AA, Cooper MA, Oh ST, French AR. Identification of Enhanced Interferon-Gamma Signaling in Polyarticular Juvenile Idiopathic Arthritis with Mass Cytometry. *JCI Insight*. 2018;3(15):e121544. Doi: 10.1172/jci.insight.121544

Sparks JA, Barbhaiya M, Tedeschi SK, Leatherwood CL, Tabung FK, Speyer CB, Malspeis S, **Costenbader KH, Karlson EW, Lu B**. Inflammatory dietary pattern and risk of developing rheumatoid arthritis in women. *Clin Rheumatol*. 2018 Aug 14. doi: 10.1007/s10067-018-4261-5. [Epub ahead of print]

Miller ER, Fanta CH, McSparron JL, Pan B, Coblyn JS, **Sparks JA**. Musculoskeletal and pulmonary outcomes of sarcoidosis after initial presentation of osseous involvement. *Sarcoidosis Vasc Diffuse Lung Dis*. 2018 (In Press).

Gerlag DM, Safy M, Maijer KI, Tang MW, **Tas SW**, Starmans-Kool MJF, van Tubergen A, Janssen M, de Hair M, Hansson M, de Vries N, Zwinderman AH, Tak PP. The effects of B-cell directed therapy on the preclinical stage of rheumatoid arthritis: the PRAIRI study. *Ann Rheum Dis*. *Accepted for publication*.