



JBC Monthly Newsletter

March 2022

JBC UPDATES

- With **Dr. Elizabeth Karlson**'s assumption of the roles of Scientific Director, Mass General Brigham Personalized Medicine and Principal Investigator of the Mass General Brigham Biobank. **Dr. Jeffrey Sparks** has been approved by the NIH as Co-PI of the JBC and Director of the JBC's Human Biosamples Core. Congratulations and thank you Jeff!
- Next **JBC Synergy Meeting** will be on March 25th, 12:30-1:30 p.m. Eastern Time via Zoom.
Talk 1: Zach Wallace (MGH) – title TBD
Talk 2: May Choi (Calgary, BWH) – title TBD
- Next **JBC Aims Review Committee meeting** will be at the prior BWH time: Thursday March 31 12:30-1:30. Zoom link to follow. If you have aims to discuss, please email peter.nigrovic@childrens.harvard.edu.
- Next **JBC Data Club** meeting will be on March 31st. Please email 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

- **Jeffrey Sparks** (BWH) has become Multi-PI of the JBC and Director of the HBC
- **Maria Taylor** from the Henderson Lab fundraising for Boston Children's Hospital by running on their Miles for Miracles Team in the Boston Marathon. Please see the attached QR code and a recent photo of her participation in a recent event to fundraise for Boston Children's Every Child Fund by donating her hair at the end of the newsletter.

The JBC Team:

- Peter Nigrovic, M.D.
Director (BCH & BWH)
- Elizabeth Karlson, M.D.
Co-PI, Associate Director
- Jeffrey Sparks, M.D., M.M.Sc.
Co-PI, Associate Director

Human Biosamples Core:

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

Cellular Systems Core:

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

- **David Hoytema** will present the following poster at the Clinical Immunology Society 2022 Meeting in March - **A novel variant in FAS leading to atypical granulomatous bone marrow disease with fever, pancytopenia and hepatosplenomegaly**
David P. Hoytema van Konijnenburg, MD, PhD1*, **Rebecca C. Hale, MD, PhD1***, Jonathan C. Slack, MD2, Karen Alexander, MD3, Alba Sommerschild, MD4, Holly Wobma, MD, PhD1, **Lauren A. Henderson, MD, MMSc1**, Akiko Shimamura, MD, PhD5, Stephan D. Voss, MD, PhD3, Roberto Chiarle, MD2, **Ari J. Fried, MD1**
- **Mary Beth Son** was quoted in Time magazine and **Joyce Chang** was featured on CBS News in coverage related to new evidence for the safety of COVID vaccination in Children (see [COVID-19 Vaccines Are Unlikely to Trigger MIS-C in Kids | Time](#) and [Data suggests COVID vaccine protects against ... - CBS News](#)).

JBC MEMBER PUBLICATIONS

- **McDermott G**, Gill R, Gagne S, Byrne S, Huang W, Kronzer VL, Prisco LC, Zaccardelli A, Martin LW, Masto L, Kronzer VL, **Shadick N**, Dellaripa P, Doyle TJ, **Sparks JA**. Demographic, lifestyle, and serologic risk factors for rheumatoid arthritis-associated bronchiectasis: Role of RA-related autoantibodies. *J Rheumatol.* 2022 (In Press).
- Liew JW, Gianfrancesco MA, Harrison C, Izadi Z, Rush S, Lawson-Tovey S, Jacobsohn L, Ja C, Hyrich KL, Gossec L, Strangfeld A, Carmona L, Schäfer M, Mateus EF, Bulina I, Stafford F, Tufan A, Graver C, Yardimci GK, Zepa J, Al-Emadi S, Cook C, Abutiban F, Dey D, Katigbak G, Kaufman L, Kowalski E, Martinez MU, Patel NJ, Reyes-Cordero G, Salido E, Smith E, Snow D, **Sparks JA**, Wise L, Bhana S, GoreMassy M, Grainger R, Hausmann JS, Sirotich E, Sufka P, Wallace ZS, Machado PM, Robinson PC, Yazdany J. SARS-CoV-2 breakthrough infections among vaccinated individuals with rheumatic disease: Results from the COVID-19 Global Rheumatology Alliance Provider Registry. *RMD Open.* 2022 (In Press).
- **Tedeschi SK#**, Stratton J, Ellrodt JE, Whelan MG, Hayashi K, Yoshida K, Chen L, Adejorin I, Marks KE, **Jonsson AH**, **Rao DA***, Solomon DH*. Rheumatoid arthritis disease activity assessed by patient-reported outcomes and flow cytometry before and after an additional dose of COVID-19 vaccine. *Ann Rheum Dis.* 2022 Feb 15;annrheumdis-2022-222232. doi: 10.1136/annrheumdis-2022-222232. Online ahead of print. PMID: 35168944
- **Simmons DP**, **Nguyen HN**, Gomez-Rivas E, Jeong Y, **Jonsson AH**, Chen AF, Lange JK, Dyer GS, Blazar P, Earp BE, Coblyn JS, Massarotti EM, **Sparks JA**, Todd DJ; Accelerating Medicines Partnership (AMP) RA/SLE Network, **Rao DA**, Kim EY, **Brenner MB**. SLAMF7 engagement superactivates macrophages in acute and chronic inflammation. *Sci Immunol.* 2022 Feb 11;7(68):eabf2846. doi: 10.1126/sciimmunol.abf2846. Epub 2022 Feb 11. PMID: 35148199
- Marks KE, **Rao DA**. T peripheral helper cells in autoimmune diseases. *Immunol Rev.* 2022 Feb 1. doi: 10.1111/imr.13069. Online ahead of print. PMID: 35103314 Review.
- **Wacleche VS**, Wang R, **Rao DA**. Identification of T Peripheral Helper (Tph) Cells. *Methods Mol Biol.* 2022;2380:59-76. doi: 10.1007/978-1-0716-1736-6_6. PMID: 34802122
- Lagattuta KA, Kang JB, Nathan A, Pauken KE, **Jonsson AH**, **Rao DA**, Sharpe AH, Ishigaki K, **Raychaudhuri S**. Repertoire analyses reveal T cell antigen receptor sequence features that influence T cell fate. *Nat Immunol.* 2022 Feb 17. doi: 10.1038/s41590-022-01129-x. Online ahead of print. PMID: 35177831

- Steinz MM, Ezdoglian A, Khodadust F, Molthoff CFM, Srinivasarao M, Low PS, Zwezerijnen GJC, Yaqub M, Beaino W, Windhorst AD, **Tas SW**, Jansen G, van der Laken CJ. Folate Receptor Beta for Macrophage Imaging in Rheumatoid Arthritis. *Front Immunol.* 2022 Feb 2;13:819163. doi: 10.3389/fimmu.2022.819163. PMID: 35185910; PMCID: PMC8849105.
- Boekel L, Hooijberg F, Besten YR, Vogelzang EH, Steenhuis M, Leeuw M, Atiqi S, van Vollenhoven R, Lems WF, Bos WH, Wijbrandts CA, Gerritsen M, Krieckaert C, Voskuyl AE, van der Horst-Bruinsma IE, **Tas SW**, Boers M, Rispens T, Nurmohamed MT, Wolbink G. COVID-19 vaccine acceptance over time in patients with immune-mediated inflammatory rheumatic diseases. *Lancet Rheumatol.* 2022 Feb 8. doi: 10.1016/S2665-9913(22)00009-1. Epub ahead of print. PMID: 35156061; PMCID: PMC8824534.
- Fiechter RH, Bolt JW, van de Sande MGH, Aalbers CJ, Landewé RBM, Maas M, van Baarsen LGM, **Tas SW**. Ultrasound-guided lymph node biopsy sampling to study the immunopathogenesis of rheumatoid arthritis: a well-tolerated valuable research tool. *Arthritis Res Ther.* 2022 Feb 3;24(1):36. doi: 10.1186/s13075-022-02728-7. PMID: 35115042; PMCID: PMC8812012.
- Nagy NA, Castenmiller C, Vigario FL, Sparrius R, van Capel TMM, de Haas AM, van Kooyk Y, van Ree R, **Tas SW**, Geijtenbeek TBH, Jiskoot W, Slütter B, de Jong EC. Uptake Kinetics Of Liposomal Formulations of Differing Charge Influences Development of in Vivo Dendritic Cell Immunotherapy. *J Pharm Sci.* 2022 Jan 31:S0022-3549(22)00032-6. doi: 10.1016/j.xphs.2022.01.022. Epub ahead of print. PMID: 35114209.
- Hammoura I, Fiechter RH, Bryant SH, Westmoreland S, Kingsbury G, Waegell W, **Tas SW**, Baeten DL, van de Sande MGH, van Tok MN, van Duivenvoorde LM. Dual Blockade of TNF and IL-17A Inhibits Inflammation and Structural Damage in a Rat Model of Spondyloarthritis. *Int J Mol Sci.* 2022 Jan 13;23(2):859. doi: 10.3390/ijms23020859. PMID: 35055042; PMCID: PMC8776047.
- Najm A, Costantino F, Alivernini S, Alunno A, Bianchi E, Bignall J, Boyce B, Canete JD, Carubbi F, Durez P, Fonseca JE, Just SA, Largo R, Manzo A, Maybury M, Naredo E, Orr C, Pitzalis C, Rivellese F, Romão VC, van Rompay J, **Tas SW**, Veale DJ, D'Agostino MA, Filer A. EULAR points to consider for minimal reporting requirements in synovial tissue research in rheumatology. *Ann Rheum Dis.* 2022 Feb 24;annrheumdis-2021-221875. doi: 10.1136/annrheumdis-2021-221875. Epub ahead of print. PMID: 35210263.
- Case SM, **Nigrovic PA**. Implications of evolving disease classification for drug approval in juvenile idiopathic arthritis. *Pediatric Drugs* 2022 in press.

OPEN POSITIONS

- The Grieshaber-Bouyer Lab (Heidelberg) is looking for a postdoctoral scientist in the field of Systems Immunology
- Team Sparks (BWH) is hiring a Research Assistant.

HELP ME RUN FOR THE BOSTON CHILDREN'S HOSPITAL "MILES FOR MIRACLES" TEAM IN THE BOSTON MARATHON!



miles for miracles



DONATE ABOVE OR HERE :
[HTTP://FUNDRAISE.CHILDRENSHOSPITAL.ORG/GOTO/ROLLICKINGRIA](http://fundraise.childrenshospital.org/goto/rollickingria)
WATCH MY TRAINING HERE: @ROLLICKING_RIA 

