

Koshika Yadava

Immunologist and Illustrator

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Education

- 2009–2014 **PhD**, *Immunology*, University of Lausanne (UNIL), Switzerland
- 2007 **MSc**, *Integrated Immunology*, University of Oxford, UK
- 2006 **BSc**, *Microbiology with honours*, University of Delhi, India

Art courses and training

- 2024 **Art for other worlds**, *Mitch Speed*, Berlin Art Institute, Berlin, Germany
- 2024 **Socially engaged art: curating for empowerment and disruption**, *Creative association of curators TOK*, Node Center, Online
- 2024 **Figure Drawing**, *Lucia Fischer*, Paint it Easy, Basel, Switzerland
- 2023 **Kinder- und Jugendbuchkurs**, *Klaus Baumgart*, Akademie für Illustration und Design Berlin, Germany
- 2023 **Die Farbe des Menschen, Inkarnat**, *Charles Blockey, Fredy Buchwalder*, Visual Art school, Basel, Switzerland
- 2023 **Experimentelles figur und aktzeichnen**, *Eunjin Kim*, Visual Art school, Basel, Switzerland
- 2022 **Introduction to Watercolours**, *Robin Ballard*, Paint it easy, Basel, Switzerland
- 2022 **Introduction to Abstract painting**, *Jael Ludewig*, Paint it easy, Basel, Switzerland
- 2021 **Introduction to drawing**, *Patricia Kaliczka*, Paint it easy, Basel, Switzerland
- 2021 **Introduction to Acrylic painting**, *Patricia Kaliczka*, Paint it easy, Basel, Switzerland
- 2020 **Introduction to Image making**, *California Institute of Arts*, Coursera, Online
- 2020 **Fundamentals of Graphic Design**, *California Institute of Arts*, Coursera, Online

Art work and experience

Commissions

- 2023 **Acrylic painting Commission**, *Wulfram Gerstner*, EPFL, Switzerland
- 2023 **Acrylic painting Commission**, *Walter Senn*, Universität Bern, Switzerland
- 2023 **Acrylic painting Commission**, *Henning Sprekeler*, Technische Universität Berlin, Germany

Awards

- 2024 **Award for Wickelfisch design contest**, *Wickelfisch AG*, Basel, Switzerland

Animation

2023 **Animation**, *Collaboration KathaskFilms*, Microbiology and Immunology Program, UNC, Chapel Hill, USA

Exhibitions

2024 **49 to 51, a conversation through art**, *Charcoal sketches, Mixed media, Group exhibition*, Barzakh cafe, Brooklyn, New York, USA

2024 **49 to 51, a conversation through art**, *Charcoal sketches, Mixed media, Group exhibition*, Jele Cafe, Basel, Switzerland

2024 **49 to 51, a conversation through art**, *Charcoal sketches, Mixed media, Group exhibition*, Alliance francaise, Delhi, India

2023 **Science Stories**, *Acrylic paintings Solo*, OpenArt Gallerie, Basel, Switzerland

Published Schematics

2023 Zenke F, **Yadava K**. A brief primer on artificial intelligence — The technological advances behind the smart devices in our lives

2021 Devon J Eddins, Astrid Kusters, Jeffrey Waters, Jasmine Sosa, Megan Phillips, **Koshika Yadava**, Leonore A Herzenberg, Hedwich F Kuipers, Eliver Eid Bou Ghosn, Hematopoietic Stem Cell Requirement for Macrophage Regeneration Is Tissue Specific.

J. Immunol

2016 **Yadava K***, Bollyky P, Lawson MA. The formation and function of tertiary lymphoid follicles in chronic pulmonary inflammation.

Immunology *Corresponding and senior author

2013 Marsland BJ, **Yadava K**, Nicod LP. The airway microbiome and disease.
Chest

2013 **Yadava K**, Marsland BJ. Lymphoid follicles in chronic lung diseases.
Thorax

2013 **Yadava K**, Sichelstiel A, Luescher IF, Nicod LP, Harris NL, Marsland BJ. TSLP promotes influenza-specific CD8+ T-cell responses by augmenting local inflammatory dendritic cell function.

Mucosal Immunol

Scientific Work & research experience

2021–2022 **Principal scientist**, *VectorBiopharma*, Basel, Switzerland
Developing Immuno-oncology projects using precision gene delivery

2021 **Senior scientist**, *Hays, Hoffman-La Roche*, Basel, Switzerland
Identifying host restriction and host dependency factors as targets to prevent acute exacerbation in COPD

2020–2021 **Postdoctoral scientist**, *Keller Lab*, Friedrich Miescher Institute, Basel, Switzerland
Investigated COVID-19 spread through aerosols.

2019 **Scientific writer**, *Freelance*, Basel, Switzerland
Completed contract project on on Spinal Muscular Atrophy with EPG Online learning portal for health care professionals

- 2017–2019 **Postdoctoral scientist**, *Ogg Lab*, University of Oxford, UK
The role of lipid antigens and lipid-CD1a reactive T cells in immune surveillance of human skin
- 2015–2017 **Postdoctoral fellow**, *Bollyky Lab*, Stanford University, USA
Extracellular matrix and tissue-resident memory T cells in allergic asthma

Honors

Grants and fellowships

- 2016–2017 **Postdoc fellowship**, *Child Health Research Institute*, Stanford University, \$50k
- 2014–2016 **Postdoc fellowship**, Swiss National Science Foundation (SNSF), CHF 70k
- 2013 **Travel grant**, *Subvention Egalité*, University of Lausanne, CHF 1.5k
- 2006 **MSc fellowship**, University of Oxford, GBP 8,000

Awards

- 2014 **Prix d'excellence de Jeune Chercheur**, *University of Lausanne*, Switzerland
Awarded to the best young researcher at the University of Lausanne.
- 2011 **Best Young Investigator Award**, *9th Lung Science Conference (LSC)*, *European respiratory society*, Estoril, Portugal

Publications

Research articles

- 2021 Devon J Eddins, Astrid Kusters, Jeffrey Waters, Jasmine Sosa, Megan Phillips, **Koshika Yadava**, Leonore A Herzenberg, Hedwich F Kuipers, Eliver Eid Bou Ghosn, Hematopoietic Stem Cell Requirement for Macrophage Regeneration Is Tissue Specific.
J. Immunol
- 2021 Payton L Marshall, Nadine Nagy, Gernot Kaber, Graham L Barlow, Amrit Ramesh, Bryan J Xie, Miles H Linde, Naomi L Haddock, Colin A Lester, Quynh-Lam Tran, Christiaan R de Vries, Aviv Hargil, Andrey V Malkovskiy, Irina Gurevich, Hunter A Martinez, Hedwich F Kuipers, **Koshika Yadava**, Xiangyue Zhang, Stephen P Evanko, John A Gebe, Xi Wang, Robert B Vernon, Carol de la Motte, Thomas N Wight, Edgar G Engleman, Sheri M Krams, Everett H Meyer, Paul L Bollyky
Matrix Biol
- 2021 Nagy N, Kaber G, Kratochvil MJ, Kuipers HF, Ruppert SM, **Yadava K**, Yang J, Heilshorn SC, Long A, Pugliese A, Bollyky PL. Sustained Release of IL-2 Using an Injectable Hydrogel Prevents Autoimmune Diabetes.
Diabetologia

- 2020 Marshall PL, Nagy N, Kaber G, Barlow GL, Ramesh A, Xie B, Zhang X, Linde MH, Haddock NL, Lester CA, Tran Q, de Vries C, Andrey Malkovskiy A, **Yadava K**, Gurevich I, Martinez HA, Aviv Hargil1 A, Kuipers HF, Evanko SP, Gebe JA, Wang X, Vernon RB, de la Motte C, Wight TN, Engleman EG, Krams SM, Everett Meyer E, and Bollyky PL. Hyaluronan Synthesis Inhibition Disrupts Antigen Presentation and Prevents Transplant Rejection.
Matrix Biol.
- 2019 **Yadava K***, Medina C, Ishak H, Gurevich I, Kuipers H, Shamskou E, Nadeau K, Bollyky P, Naturally arising Tr1-like cells do not confer lasting tolerance to airway allergens.
eLife *Corresponding author
- 2020 Sweere JM, Ishak H, Sunkari V, Bach MS, Manasherob R, **Yadava K**, Ruppert SM, Sen CK, Balaji S, Keswani SG, Secor PR, Bollyky PL. The Immune Response to Chronic Pseudomonas aeruginosa Wound Infection in Immunocompetent Mice.
Advances in wound care
- 2017 Nagy N, de la Zerda A, Kaber G, Johnson PY, Hu KH, Kratochvil MJ, **Yadava K**, Zhao W, Cui Y, Navarro G, Annes JP, Wight TN, Heilshorn SC, Bollyky PL, Butte MJ. Hyaluronan content governs stiffness in pancreatic islet inflammation.
J Biol Chem
- 2016 Gebe JA, **Yadava K**, Ruppert SM, Marshall P, Hill P, Falk BA, Sweere JM, Han H, Kaber G, Medina C, Mikecz K, Ziegler SF, Balaji S, Keswani SG, de Jesus Perez VA, Butte MJ, Nadeau K, Altemeier WA, Fanger N, Bollyky PL. Modified High Molecular Weight Hyaluronan Promotes Allergen-Specific Immune Tolerance.
Am J Respir Cell Mol Biol
- 2015 **Yadava K***, Pattaroni C, Sichelstiel AK, Trompette A, Gollwitzer ES, Salami O, von Garnier C, Nicod LP, Marsland BJ. Microbiota Promotes Chronic Pulmonary Inflammation by Enhancing IL-17A and Autoantibodies.
Am J Respir Crit Care Med
*Corresponding author
- 2014 **Yadava K**, Massacand J, Mosconi I, Nicod LP, Harris NL, Marsland BJ. Thymic stromal lymphopoietin plays divergent roles in murine models of atopic and nonatopic airway inflammation.
Allergy
- 2014 Gollwitzer ES, Saglani S, Trompette A, **Yadava K**, Sherburn R, McCoy KD, Nicod LP, Lloyd CM, Marsland BJ. Lung microbiota promotes tolerance to allergens in neonates via PD-L1.
Nat Med
- 2014 Trompette A, Gollwitzer ES, **Yadava K**, Sichelstiel AK, Sprenger N, Ngom-Bru C, Blanchard C, Junt T, Nicod LP, Harris NL, Marsland BJ. Gut microbiota metabolism of dietary fiber influences allergic airway disease and hematopoiesis.
Nat Med

- 2014 Pasquali C, Salami O, Taneja M, Gollwitzer ES, Trompette A, Pattaroni C, **Yadava K**, Bauer J, Marsland BJ. Enhanced Mucosal Antibody Production and Protection against Respiratory Infections Following an Orally Administered Bacterial Extract.
Front Med
- 2014 Sichelstiel A, **Yadava K**, Trompette A, Salami O, Iwakura Y, Nicod LP, Marsland BJ. Targeting IL-1 β and IL-17A driven inflammation during influenza-induced exacerbations of chronic lung inflammation.
PLoS One
- 2013 **Yadava K**, Sichelstiel A, Luescher IF, Nicod LP, Harris NL, Marsland BJ. TSLP promotes influenza-specific CD8⁺ T-cell responses by augmenting local inflammatory dendritic cell function.
Mucosal Immunol
- 2011 Herbst T, Sichelstiel A, Schär C, **Yadava K**, Bürki K, Cahenzli J, McCoy K, Marsland BJ, Harris NL. Dysregulation of allergic airway inflammation in the absence of microbial colonization.
Am J Respir Crit Care Med
- 2010 Tortola L, **Yadava K**, Bachmann MF, Müller C, Kisielow J, Kopf M. IL-21 induces death of marginal zone B cells during chronic inflammation.
Blood

[Invited review articles](#)

- 2020 Chen YL, Hardman CS, **Yadava K***, Ogg G. Novel innate lymphocyte mechanisms in skin diseases.
Annual Reviews in Immunology
- 2016 **Yadava K***, Bollyky P, Lawson MA. The formation and function of tertiary lymphoid follicles in chronic pulmonary inflammation.
Immunology *Corresponding and senior author
- 2013 Marsland BJ, **Yadava K**, Nicod LP. The airway microbiome and disease.
Chest
- 2013 **Yadava K**, Marsland BJ. Lymphoid follicles in chronic lung diseases.
Thorax

[Editorial](#)

- 2014 **Yadava K**, Marsland BJ. IL-4R α , a STUB-strate for proteasomal degradation: understanding the termination of cytokine signaling in asthma.
Am J Respir Crit Care Med

[Book Chapter](#)

- 2024 Zenke F, **Yadava K**. A brief primer on artificial intelligence — The technological advances behind the smart devices in our lives

[Academic services & positions held](#)

- 2019 **Member of organizing committee, Postdoc Symposium**, University of Oxford

- 2018 **“Science in Progress” seminar coordinator**, *Postdoctoral association*, Weatherall Institute of Molecular Medicine (WIMM), University of Oxford
- 2016–2017 **Co-chair**, *Stanford University Postdoc Association (SURPAS)*, Stanford University
- 2016 **Postdoctoral representative**, *School of Medicine*, Stanford University
Served on faculty senate and on the provost’s advisory committee for postdoctoral affairs
- 2016 **Member of organizing committee**, *Postdoctoral symposium*, Stanford University
- 2015 **Elected council member**, *SURPAS*, Stanford University
- Review Editor *Frontiers in Medicine (Pulmonary Medicine)*
- Reviewer *Frontiers in Medicine, Frontiers in Microbiology, Mucosal Immunology, Immunology*

■ Languages

- Mother tongue English, Hindi
- Intermediate German (B2), French (B1)