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Bioimage Profiling  
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## Employment

### Postdoctoral Researcher

Institute for Molecular Medicine Finland  
University of Helsinki  
Finland  
1 Nov 2022 → present

### Bioimage Profiling

University of Helsinki  
Finland  
1 Mar 2022 → present

## Publications

### Application of Self Supervised Vision Transformers for Multiplexed Microscopy Images and Its Challenges

Atarsaikhan, G., Mogollon Figueroa, I., Välimäki, K., Pellinen, T., Mirtti, T. & Paavolainen, L., 16 Dec 2023.

### Imaging Cellular Mechanisms of Oral Ectodermal Development and Disease

Mogollon Figueroa, I., 12 Sept 2022, University of Helsinki. 70 p.

### Foxi3 Suppresses Signaling Center Fate and is Necessary for the Early Development of Mouse Teeth

Mogollon Figueroa, I., 18 Jun 2022, In: bioRxiv. 46 p., 2022.07.18.500404.

### The initiation knot is a signaling center required for molar tooth development

Mogollon Figueroa, I., Moustakas-Verho, J. E., Niittykoski, M. J. & Ahtiainen, L., May 2021, In: Development. 148, 9, 16 p., 194597.

### Live Tissue Imaging Sheds Light on Cell Level Events During Ectodermal Organ Development

Mogollon, I. & Ahtiainen, L., 16 Jul 2020, In: Frontiers in Physiology. 11, 14 p., 818.

### p75 Neurotrophin Receptor Signaling Activates Sterol Regulatory Element-binding Protein-2 in Hepatocyte Cells via p38 Mitogen-activated Protein Kinase and Caspase-3

Pham, D. D., Do, H. T., Bruelle, C., Kukkonen, J., Eriksson-Rosenberg, O., Mogollon Figueroa, I., Korhonen, L., Arumäe, U. & Lindholm, D. B., 13 May 2016, In: Journal of Biological Chemistry. 291, 20, p. 10747-10758 12 p.

### Análisis químico preliminar y actividad antimicrobiana de los extractos obtenidos de cuatro especies del género Xylaria

Mogollon Figueroa, I., Moreno, S., Iturriaga, T. & Taddei, A., 2013, In: Avances en Ciencias e Ingenieria. p. 75-83 9 p., Vol. 4, N°. 1, 2013.

## Projects

**COMPASS Era PERMED: Fenotyyppisen lääkeaineseulonnan kliininen toteutus lasten syöpäsairauksien täsmälääketieteessä (COMPASS)**

Kallioniemi, O., Pietiäinen, V., Buchwald, J., Feodoroff, M. J., Kuusela, S., Merivirta, R., Mogollon Figueroa, I., Potdar, S., Saarela, J. & Turunen, L.

European Commission, Suomen Akatemia Projektilaskutus

01/01/2019 → 30/04/2023

**Pan-cancer tumor microenvironment exploration with vision transformers**

Paavolainen, L., Mogollon Figueroa, I. & Mogollon Figueroa, I.

Syöpäsäätiö sr Cancerstiftelsen sr

01/01/2023 → 31/12/2024

**SYÖPÄSÄÄTIÖ 2023 HORVATH PETER**

Pietiäinen, V., Mogollon Figueroa, I. & Polso, M. M. M.

Syöpäsäätiö sr Cancerstiftelsen sr

01/01/2023 → 31/12/2024

**Uncovering patterns in cancer cells with visual representation learning**

Paavolainen, L., Atarsaikhan, G., Mogollon Figueroa, I. & Sanian, M. V.

01/09/2021 → 31/08/2026