

# SHRUTI JAIN

POST-DOCTORAL RESEARCHER

## CONTACT

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shruti244

Turku, Finland

## LANGUAGES

English



Hindi



German



Finnish



## MEMBERSHIPS

- **Finnish Society of Clinical Chemistry / Suomen Kliinisen Kemian Yhdistys (SKKY)**
- **European Federation of Clinical Chemistry and Laboratory Medicine (EFLM) Academy.**
- **Association for Diagnostics & Laboratory Medicine (ADLM)**

## VOLUNTEER WORK

- **Board Member, International Wing**  
**The Student Union of the University of Turku (TYU)**  
Turku, Finland  
2020-2021

## EDUCATION

**1/2020-12/2024** **PhD**  
Doctoral Programme in Technology (DPT)  
University of Turku, Finland  
Main subject: Molecular Biotechnology & Diagnostics  
PhD topic: *Novel circulatory biomarkers for ovarian cancer diagnosis*

**9/2016-8/2019** **Master of Science (MSc) in Molecular Biotechnology and Diagnostics**  
Faculty of Science and Engineering  
University of Turku, Finland  
Master's Thesis: *A study to discover novel biomarker glycoforms of lung cancer*

**7/2013-6/2016** **Bachelor of Science (BSc) in Biotechnology (Honours) with Chemistry (Subsidiary)**  
Institute for Excellence in Higher Education (IEHE)  
Affiliated to Barkatullah Vishwavidyalaya  
Bhopal, India  
Passed in First Division with Distinction - 80.76%

## WORK EXPERIENCE

**Postdoctoral researcher** 1/2025-Present  
Biotechnology unit, Department of Life Technologies, University of Turku, Finland  
➤ Clinical & epidemiological studies in lung cancer

**Doctoral researcher** 1/2020-12/2024  
Biotechnology unit, Department of Life Technologies, University of Turku, Finland  
➤ Novel circulatory biomarkers for ovarian cancer diagnosis

**Research Assistant** 3/2018-12/2019  
Department of Biochemistry, University of Turku  
➤ Sandwich immunoassay development and optimization, clinical validation studies

**Summer trainee** 6/2017-8/2017  
Department of Biochemistry, University of Turku  
➤ Optimization of diagnostic assays

## PEDAGOGICAL MERITS

- Delivered lectures in the *Advanced Course on Clinical Chemistry* in 2021 and 2023, part of the Master's degree program in Molecular Biotechnology and Diagnostics at the University of Turku, Finland.
- Supervised Master's thesis work of three students in the Molecular Biotechnology and Diagnostics program at the University of Turku.
- Supervised laboratory work in the three-week Master's level course for multiple student cohorts between 2020 and 2024 in the Molecular Biotechnology and Diagnostics program at the University of Turku.
- Supervised a summer trainee in 2020 on extracellular vesicle (EV)-based diagnostics for lung and ovarian cancer.

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### VOLUNTEER WORK

- **Educational visit**  
**Erasmus in Schools programme**  
Visited St Olofsskolan school to give presentation to 7th grade students on their course on intercultural studies.  
11/2019
- **Advisory Board Member, Development Co-operation**  
**National Union of University Students in Finland (SYL)**  
Managed projects for disabled students at 3 different universities in Ethiopia.  
Helsinki, Finland  
2019-2020
- **International Student Tutor**  
**Faculty of Science, University of Turku**  
Turku, Finland  
2019-2020
- **Volunteer**  
**Angels Social Development and Research Association (NGO)**  
Bhopal, India  
2015

### MISCELLANEOUS

- **Co-chair and presenter** of the session 'Prototype development' at the ISEV workshop on 'EV based biomarkers' held in Aalborg, Denmark on 12-14 October 2023.
- **Speaker and performer** at **Aboagora 2022 and 2023** at the Sibelius Museum in Turku, Finland. ABOAGORA is a symposium that brings together the arts, humanities and sciences. The event consists of public keynote lectures and dialogues, as well as various performative sessions that combine artistic and scholarly approaches.

### AWARDS & ACCOLADES

- 2024
  - Selected by the Technology Academy Finland among the **ten top young scientists** from Finnish universities and research centers to participate in the **Global Young Scientists Summit (GYSS)** organized by the National Research Foundation Singapore, Prime Minister's office from 8-13 Jan 2024 in Singapore. Speakers at the Summit include recipients of the Nobel Prize, Fields Medal, Millennium Technology Prize and Turing Award.
- 2023
  - **2023 EFLM Award for Excellence in Outcomes Research in Laboratory Medicine**, awarded by the European Federation of Clinical Chemistry and Laboratory Medicine, sponsored by Abbott Diagnostics with an award of 5000€.
  - **2023 Outstanding Poster Presentation award** at the International Society for Extracellular Vesicles (ISEV) 2023 annual meeting in Seattle, US.
- 2022
  - **2022 Astrup Prize** awarded by the **Nordic Society for Clinical Chemistry (NFKK)** to scientists below the age of 40 years with an educational grant of DKK 60000.
- 2021
  - **Second prize** (5000€) at the **Millennium Graduate Student Contest** in the Millennium Innovation Forum organized by Technology Academy Finland.
  - **Second prize at the poster competition** of UTU Tech Industry Affiliates Program organized by the Faculty of Technology, University of Turku.
- 2020
  - **Winner and People's Choice** of the 2020 Three Minute Thesis (3MT) competition of the University of Turku.
  - **'Union ribbon'** mark of honour and recognition from The Student Union of the University of Turku (TYU).
- 2018
  - **'Best Talk'** award for Master's thesis presentation at the University of Turku.
- 2015
  - Selected amongst the **top-five students** of 2015 at IEHE based upon academic brilliance, scholastic contributions and human excellence.
  - **Third position in poster presentation** at 2015 'Growing India-Agro India: International Conference on Innovative Agriculture for Rural Prosperity'.
  - **Second position in Intercollegiate Debate** by M.P. Biotechnology Council, India.
  - **Second position in oral paper presentation** at the National Conference on 'Emerging Trends in Biological Sciences', Career College, Bhopal, India.

### RESEARCH BASED SKILLS

- Research & development, biochemistry, clinical chemistry, laboratory medicine, diagnostics, immunology
- Immunoassays, point-of-care testing, assay optimization, prototype development, clinical validation, verification, analytical techniques
- Biomarkers, tumor markers, extracellular vesicle (EV) diagnostics, cell culture, flow cytometry
- Presentation skills, public speaking, teaching, collaboration, technical writing skills
- Statistical analysis, SPSS, Origin, JMP and R software

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## GRANTS

- **Postdoctoral research grant** (2025) – 4000€ Foundation of the Finnish Anti-Tuberculosis Association.
  - **Dissertation & doctoral research grants** (2024) – 5000€ Cancer Foundation Finland, 5000€ Paulo Foundation, 5000€ Cancer Society of South-West Finland, 6000€ Maud Kuistila Memorial Foundation, 3000€ Ida Montinin Säätiö, 6000€ Orion Research Foundation sr.
  - Received the 2023 University of Turku, Faculty of Technology '**scientific research on cancer**' grant of 800€.
  - **4 year funded doctoral candidate position** (1/2020-12/2023) from the University of Turku Graduate School (UTUGS) in the Doctoral Programme in Technology (DPT).
  - **Travel Grants:**
    - Received a travel grant of 1900€ from **Cancer Foundation Finland** to attend the ADLM (Association for Diagnostics & Laboratory Medicine) annual meeting in Chicago, USA 27-31 July 2025.
    - Received a travel grant of 1000€ from **InFLAMES Flagship** and **EFLM** covered certain expenses to attend the EuroMedLab Rome conference 21-25 May 2023.
    - Received a travel grant of 800€ from **Magnus Ehrnrooth Foundation**, 1500€ from **InFLAMES Flagship**, 1200€ from **Doctoral Programme in Technology (DPT)** in 2023 for the ISEV conference 17-21 May, Seattle, USA.
    - Received the **Turku University Foundation grant** to attend the Granö Research and Networking Workshop in Tartu, Estonia from 17-21 April 2023. The theme of the workshop was 'From research to products'.
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## PUBLICATIONS

### Peer-reviewed scientific articles

- Alexander HR, **Jain S**, Gidwani K, Ulfenborg B, Ottander U, Lundin E, Hynninen J, Ruma SA, Huhtinen K, Sundfeldt K, Pettersson K, Idahl A (2025) Novel glycovariant biomarkers of CA125 and CA15-3 and their diagnostic performance across histotypes of ovarian cancer: A multi-cohort study in Sweden and Finland. *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 312:114525.
- Ruma SA, Vinod R, **Jain S**, Huhtinen K, Hynninen J, Leivo J, Pettersson K, Sundfeldt K, Gidwani K (2025) MUC1 and glycan probing of CA19-9 captured biomarkers from cyst fluids and serum provides enhanced recognition of ovarian cancer. *Scientific Reports*, 15:3171.
- Gregorčič N, **Jain S**, Gidwani K (2024) Aberrant glycosylation as a biomarker in oncology. *Lab Med (Slovenia)*, 6:61-74.
- **Jain S**, Parimelazhagan Santhi P, Vinod R, Afrin Ruma S, Huhtinen K, Pettersson K, Sundfeldt K, Leivo J, Gidwani K (2023) Aberrant glycosylation of  $\alpha 3$  integrins as diagnostic markers in epithelial ovarian cancer. *Clinica Chimica Acta*, 543:117323.
- **Jain S**, Nadeem N, Ulfenborg B, Mäkelä M, Ruma SA, Terävä J, Huhtinen K, Leivo J, Kristjansdottir B, Pettersson K, Sundfeldt K, Gidwani K (2022) Diagnostic potential of nanoparticle aided assays for MUC16 and MUC1 glycovariants in ovarian cancer. *International Journal of Cancer*, 151(7): 1175-1184.
- Salminen L, Nadeem N, **Jain S**, Grønman S, Carpén O, Hietanen S, Oksa S, Lamminmäki U, Pettersson K, Gidwani K, Huhtinen K, Hynninen J (2020) A longitudinal analysis of CA125 glycoforms in the monitoring and follow-up of high grade serous ovarian cancer. *Gynecologic Oncology*, 156(3): 689-694.

### PhD thesis

- **Jain Shruti** (2024) Novel circulatory biomarkers for ovarian cancer diagnosis: Nanoparticle based glycovariant assays. <https://urn.fi/URN:ISBN:978-951-29-9954-5>

### Scientific Blog

- **Jain Shruti** (2024) In the Company of Giants: GYSS 2024 and the Nobel Laureate Experience. InFLAMES Flagship Blog.
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