



CURRICULUM VITAE

CURRENT POSITION Assistant Professor, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute

PERSONAL INFORMATION

Title Dr. rer.nat
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ACADEMIC QUALIFICATION

Jan'17-Present MBA, Prin. L. N. Welingkar Institute of Management Development & Research, Mumbai, Maharashtra (<http://www.welingkar.org>)
Oct'11 – June'15 **Postdoc Fellow - II**, Maastricht University, Netherlands (<http://www.maastrichtuniversity.nl/web/Main/AboutUM.htm>)
Jun'09 – Jun'11 **Postdoc Fellow - I**, Uniklinik RWTH, Aachen, Germany (<http://www.rwth-aachen.de/go/id/bdz/>)
Feb'06 – Mar'09 **PhD**, Immunology Group, University of Bonn, Germany (<http://www3.uni-bonn.de/the-university>) (Marie curie fellowship)
 2001 - 2003 **Master of Science: Biochemistry** (<http://www.jamiahamdard.edu/>)

SCHOLARSHIPS & HONOURS

2014 Best Poster Presentation Award, FRONTIERS IN CARDIOVASCULAR BIOLOGY (FCVB), European Society of Cardiology, Barcelona, Spain (300 EUR)
 2012-2015 Worked as a Guest Scientist at IMCAR, Aachen University, Germany
 2014 Editorial Board Members of International Journal of Orthopaedics
 2011 Best Poster Award, 60th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, California, USA.
 2011 DGAV Young investigator Bursary (650 EUR)
 2011 EASL Young investigator Bursary (600 EUR)
 2006-2009 Marie Curie Fellowship for PhD, joined as a Guest Scientist
 2006-2009 Member of Immunology German Society
 2007 Annual meeting of the German Society for Immunology, Heidelberg, Germany
 Student travel fellowship, International Congress of Immunology, Rio de Janeiro, Brazil (1200 EUR)
 2004-2006 Fellowship for Senior Research Fellow (SRF), Department of Biotechnology (DBT), Govt. Of India.
 2004 International symposium Emerging Trends in tuberculosis research held at ICGEB, New Delhi, India
 2003 Qualified for Lectureship by National level tough selection conducted by Council of Scientific And Industrial Research (CSIR), Ministry of Human Resources and Development
 2003 Qualified Graduate Aptitude test (GATE) conducted by Indian Institute of Technology (IIT)

WORK EXPERIENCE

July'17-Present	Assistant Professor, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute
Aug'15 – Feb'17	Principal Scientist – I
Place	Advinus Therapeutics Pvt Ltd, Pune
Topic	<ul style="list-style-type: none">➤ Effect of GPCR Antagonist in Mouse Model of MCD-Diet Induced Non Alcoholic Steatohepatitis (NASH)➤ Role of GPCR antagonist in obesity
Responsibilities	<ul style="list-style-type: none">➤ 1.5 years of industrial and 8.5 years of academic experience in Drug Discovery, primarily in vitro and in vivo biology in the therapeutic areas of immuno-oncology, liver cancer, Rheumatoid Arthritis, Atherosclerosis, Inflammatory Bowel Diseases, Diabetes and obesity.➤ As project leader for an in-house drug discovery project and associate leader for a collaborative project, have responsibility of taking the project forward and meeting all project deliverables, including primary and secondary assays, co-ordination with Chemistry, DMPK and In-vivo teams, presenting at meetings/VCs, report generation and keeping on top of literature.➤ Lead a team, having responsibility of designing and overseeing in vitro and ex vivo and in vivo studies while applying relevant concepts, techniques and technologies to meet project deliverables.➤ In a short span optimized various cell based assays (primary cells eg; isolation of murine hepatocytes and hepatic stellate cells and generate stable cell lines), medium-high throughput assay development for new drug discovery process.➤ Managed research project budgets and other resources
Oct'11 – Jun'15	Postdoc Fellow - II
Place	Maastricht University, The Netherlands
Topic	<ul style="list-style-type: none">➤ CCL18 aggravates atherosclerosis by inducing CCR6, not CCR3, mediated T-cell influx and differentiation➤ CCR6 derived B cells impair heart function after acute myocardial infarction
Responsibilities	<ul style="list-style-type: none">➤ Supervised, graduate, post graduate and PhD research students and be involved in teaching programmes. Also, helped them for project writing and helped them to find the next level jobs➤ Developed proposals for significant research projects which increase the knowledge understanding and discovery of new explanations, insights, concepts and processes➤ Assay development experience, including, design, development and implementation➤ Assessment of in vitro and in vivo pharmacology➤ Prepared reports and presented information to research groups, steering groups, etc➤ Lead the planning process of the research team, including the generation of ideas for investment and application➤ Lead and develop internal and external networks, and collaborative groups, representing the University in a professional manner at all times, including links with professional bodies, research funding streams, etc

- Jun'09 – Jun'11 **Postdoc Fellow – I**
 Place **Uniklinik RWTH, Aachen, Germany**
 Topic ➤ TRAIL and TNFR1-dependent pathways and their role for progression of Nemo-dependent hepatitis.
- Responsibilities ➤ Lead research activities and projects within the Unit of Assessment, including the development of personal, group or collaborative objectives
 ➤ Prepared reports and present information to research groups, steering groups, etc.
 ➤ Supervised, graduate, post graduate and PhD research students
 ➤ Developed proposals for significant research projects which increase the knowledge understanding and discovery of new explanations, insights, concepts and processes
 ➤ Developed own or group work, interpret research findings, generating high quality publications and disseminating results through appropriate media
 ➤ Contributed to the development of research strategies
 ➤ Assessment of in vitro and in vivo pharmacology
 ➤ Manage research project budgets and other resources
- Feb'06 – Mar'09 **PhD**
 Place **University of Bonn, Germany**
 Topic ➤ Role of pathogenic mediators in K/BxN Murine Model for Rheumatoid Arthritis and levels of serum soluble CD21 and CD23 in autoimmune patients
 ➤ Supervised Bachelor's and Master's students
 ➤ Responsible for scientific publications and was leading author for various research papers published in cutting edge peer reviewed journals
- Jul'04 – Jan'06 **Senior Research Fellow (SRF)**
 Place **Immunology Group, International Centre of Genetic Engineering and Biotechnology (ICGEB), New Delhi, India**
 Topic ➤ Impaired generation of reactive oxygen Species (ROS) in Mycobacterium tuberculosis Secretary Antigen (MTSA) Differentiated DC Ensures survival of Intracellular Mycobacterium
- Responsibilities ➤ Undertook duties as directed/requested by the Project officer to support the project
 ➤ Delivered and Implementation of distinct projects
 ➤ Constantly monitored and report on progress of the project to all stakeholders
 ➤ Presented reports defining project progress, problems and solutions
 ➤ Implemented and manage project changes and interventions to achieve project outputs
 ➤ Handled requests for information and data
 ➤ Prepared written responses to routine enquiries

TECHNICAL KNOWLEDGE

Molecular Biology Techniques

RNA and DNA isolation, cDNA preparation, gene isolation by PCR, subcloning, plasmid isolation, CsCl purification and large scale preparation of plasmid DNA, Electroporation, RT-PCR, transient transfection.

Biochemical and Protein related Techniques

Cytoplasmic and periplasmic protein isolation, SDS and PAGE analysis, Protein purification by Ni-NTA, Western Blot, ELISA, immunoprecipitation, cell culture (Primary cell culture, Cell line), stable cell line generation, Immuno-

histochemistry (IHC), ELISOPT, Screening the compounds by Ca²⁺ assay, IP3 accumulation assay, cAMP assay

8-color FACS analysis using FACS Canto, FACS data analysis using cell quest and with Flowjo

Attended confocal microscope workshop, DPU, Medical college Pimpri, Pune Maharashtra

Animal Techniques

FACS screening, breeding of transgenic mice, Intraperitoneal, Intravenous and intra-articular injection, subcutaneous injection, tail and eye bleeding, isolation of peritoneal cells, Immunization of mice, Liver perfusion to isolate hepatocytes and hepatic stellate cells, Jugular vein cannulation, Lung perfusion, in-house developed Cancer models

SEMINARS & CONFERENCES

- Nov 2016 62th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, Massachusetts, USA. **Poster Presentation**
- March 2015 13th Dutch German Joint Meeting of the Molecular Cardiology Working Groups, Garmisch-Partenkirchen, Munich, Germany. **Poster Presentation**
- July 2014 Frontiers in CardioVascular Biology (FCVB), European Society of Cardiology, Barcelona, Spain. **Poster Presentation**
- June 2014 CARIM course, School of Cardiovascular disease, Maastricht, The Netherlands
- October 2012 Pathology Day, University of Maastricht, Maastricht, The Netherlands. **Oral Presentation**
- November 2011 60th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, California, USA. **Poster Presentation**
- April 2011 Annual Meeting of the European Association for the Study of Liver (EASL), Berlin, Germany. **Oral Presentation**
- February 2011 Deutsche Gesellschaft für Allgemein- und Viszeralchirurgie (DGAV) Leipzig, Germany. **Oral Presentation**
- January 2011 Annual Meeting of the German Association for the Study of the Liver (GASL) Germany. **Poster Presentation**
- October 2010 60th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, Massachusetts, USA. **Oral Presentation**
- Sep 2007 37th Annual meeting of German Society, Heidelberg, Germany. **Poster Presentation**
- Aug 2007 13th International Congress of Immunology, Rio de Janeiro, Brazil. **Oral and Poster Presentation**
- Sep 2006 16th European Congress of Immunology, Paris, France. **Poster Presentation**
- Nov 2004 International symposium Emerging Trends in tuberculosis research held at ICGEB, New Delhi, India

PUBLICATIONS

- 1)** Ruben G. de Bruin, Lily Shiue, Jurrie'n Prins, **Anjana Singh**, W. Samuel Fagg, Janine M. van Gils, Jacques M.G.J. Duijs, Sol Katzman, Adriaan O. Kraaijeveld, Stefan Bo'hlinger, Wai Y. Leung, Szymon M. Kielbasa, John P. Donahue, Patrick H.J. van der Zande, Rick Sijbom, Carla M.A. van Alem, Ilze Bot, Cees van Kooten, J. Wouter Jukema, Hilde Van Esch, Ton J. Rabelink, Hilal Kazan, Erik A.L. Biessen, Manuel Ares Jr., Anton Jan van Zonneveld & Eric P. van der Veer¹ Quaking post-transcriptionally promotes differentiation of monocytes into pro-atherogenic macrophages by controlling pre-mRNA splicing and gene expression. Accepted in **Nature Communication**. (IF: 11.47)
- 2) Singh A***, Cubero FJ*, Borkham-Kamphorst E, Nevzorova YA, Al Masaoudi M, Haas U, Boekschoten MV, Gassler N, Weiskirchen R, Muller M, Liedtke

C, Trautwein C. TNFR1 determines progression of chronic liver injury in the IKK γ /Nemo genetic model. **Cell Death Differ.** 2013 Aug 9. (* Contributed Equally) (IF: 8.3)

3) Anjana Singh*, Aprajita Sinha*, Vijaya Satchidanadan, Krishanmurthy Natarajan (2006) Impaired generation of reactive oxygen Species (ROS) in Mycobacterium tuberculosis Secretary Antigen (MTSA) Differentiated DC Ensures survival of Intracellular Mycobacterium: **J. Immunol** 177: 468-78 (* Contributed Equally) (IF: 5.52)

4) Anjana Singh, Miri Blank, Yehuda Shoenfeld, Harald Illges (2008). Antiphospholipid Syndrome patients display reduced titers of soluble CD21 in their plasma irrespective of the presence of immune complex generating autoantibodies : **Rheumatol Int** 28: 661-665 (IF: 2.214)

5) Anjana Singh, Narendiran Rajasekaran, Gaida, Peter Angel, Rolf Brauer, Harald Illges. Collagenase-3 (MMP13) deficiency protects from Antibody-induced Arthritis (**Arthritis Res Ther.** 2013 Dec 27;15(6))(IF: 4.3)

6) Bente Halvorsen, Anjana Singh*, Tuva B.Dahl*, Linda M*, Smedbakken, Annika E. Michelsen, Mona Skjelland, Kirsten Krohg-Sørensen, David Russell, Uta E. Höpken, Martin Lipp, Jan K. Damås, Sverre Holm, Arne Yndestad, Erik A Biessen, Pål Aukrust, Increased levels of CCR7 ligands in carotid atherosclerosis – different effects of CCL19 and CCL21 in foam cell formation and vascular smooth muscle cell activation (*Contributed Equally) (**Cardiovasc Res.** 2014 Feb 11)(IF: 5.9)

7) Anjana Singh, Mieczyslaw Gaida, Rolf Brauer, Günter Fingerle Rowson, Richard Bucala and Harald Illges. Inhibition of joint inflammation and destruction induced by K/BxN serum-induced arthritis in mice due to depletion of macrophage secreted macrophage migration inhibitory factor (MIF), **Rheumatol Int.** 2013 Sep;33(9):2301-8. (IF: 2.214)

8) Anjana Singh, Sebastiaan J.Vastert, Berent J. Prakken, and Harald Illges (2011) Decreased levels of sCD21 and sCD23 in blood of patients with Systemic-JA, Polyarticular-JA, Pauciarticular-JA : **Rheumatol Int.** 2012 Jun;32(6):1581-7 (IF: 2.214)

9) Madhan Masilamani, Narendiran Rajasekaran, Anjana Singh, Hui Zhi Low, Kerstin Albu, Swentje Anders, Frank Behne, Peter Eiermann, Katharina König, Clarissa Mindnich, Terdora Ribaraka, Harald Illges (2008). Systemic reduction of soluble complement receptor II/ CD21 during pregnancy reminiscent of autoimmune disease: **Rheumatol Int 28: 1137-1141 (IF: 2.214)**

10) Anjana Singh, Adriaan O. Kraaijeveld, Bart Legein, Adelina Curaj, Kanin Wichapong, Linda Hammerich, Raj Kumar Manivel, Isabelle Daissormont, Saskia C.A. de Jager , Ilze Bot, Sergei P. Atamas, Theo J.C. van Berkel, J. Wouter Jukema, Iain Comerford, Shaun R. McColl , Johan W. M. Heemskerck, Gerry A.F. Nicolaes , Elisa Anamaria Liehn , Frank Tacke , Erik A.L. Biessen. CCL18 aggravates atherosclerosis by inducing CCR6- dependent T cell influx and polarization (Submitted in **European Heart Journal**, IF:15.2)

11) Anjana Singh, Adelina Curaj, Bart Legein, Ilvy Geraetes, Raj Kumar Manivel, Linda Hammerich, Frank Tacke , Elisa Anamaria Liehn , Erik A.L. Biessen CCR6 derived B cells impair heart function after acute myocardial infarction (**Manuscript in preparation**)

12) Anjana Singh, A. Pftzner and Harald Illges. Decreased levels of sCD21 and sCD23 in patients with autoimmune diabetes type I not with type II (**Manuscript in preparation**)

13) Anjana Singh, Narendiran Rajasekaran, Harald Illges. Oxydative Burst inducer protects from Antibody-induced Arthritis (**Manuscript in preparation**)

TEACHING COURSE

- 1) Attended one week workshop for teaching, DPU Medical college, Pimpri, Pune, Maharashtra
- 2) Qualified **Problem Based Learning** (PBL) course for Tutor from Maastricht University, The Netherlands

NETWORKING & REPONSIBILITIES

- 1) Organizing committee of Academia – Industry interface, DPU, Tathawade, Pune
- 2) Part of Anti-ragging committee, DPU, Tathawade, Pune
- 3) I have collaboration in Germany, Finland, Australia few universities in Holland

REFERENCES

Dr Dhananjay Umrani

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