

Brief BIO-DATA

1. Name and full correspondence address:

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Academic Qualification (Undergraduate Onwards)

| S. No. | Examination passed | Year of passing | Major Subjects/ Specialization | University/Institution | % Marks/ Grade |
|--------|----------------------------------|-----------------|--------------------------------|---|--|
| 1 | B Pharm | 1975 | Pharmacy | Nagpur University Nagpur India | 58% |
| 2 | M Pharm | 1977 | Pharmaceutical Technology | Nagpur University Nagpur India | 64% |
| 3 | PhD | 1989 | Pharmaceutical Sciences | Nagpur University Nagpur India | No grade |
| 4 | Executive MBA | 2009 | Business Management | Sullivan University, Louisville, KY USA | Suma Cum Laude (over 90%) |
| 5 | MS in Conflict Management (MSCM) | 2010 | Conflict Management | Sullivan University, Louisville, KY USA | Suma Cum Laude (over 90%) Recipient of President's Medal for Academic Achievement |

Work experience (in chronological order) International Appointments

| Name and address of employer | Position held | Duration | | Nature of Duties |
|---|-------------------|--------------------------|-----------|--|
| | | From | To | |
| University of South Florida Tampa USA | Regular full time | 1 st Aug 2010 | Date | Full rank Tenured Professor and Associate Dean for faculty Affairs |
| Sullivan University College of Pharmacy, Louisville, KY USA | Regular full time | July 2007 | July 2010 | Assistant Dean for Research and Graduate programs, for Academic Affairs, |

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|--|-------------------|---------------|-------------|--|
| | | | | Chair of Department of Pharmaceutical Sciences, Director of CENTERA (Nano center) |
| Director of R and D Neos Therapeutics, Grand prairie, Texas, USA | Regular full time | July 2006 | June 2007 | Pharmaceutical products and nutraceuticals research and development |
| Senior Scientist, Global Product and Technology Development | Regular full time | August 2003 | May 2007 | Pharmaceutical products research and development especially fine particle delivery systems |
| Pharma Consultant for tech transfer from India to USA | Regular full time | June 1993 | July 2003 | Pharmaceutical Consultant for tech transfer and process development and transfer |
| South Dakota State University, Brookings SD USA | Regular full time | July 1990 | May 1993 | Assist Prof for Pharmaceutics and drug delivery systems |
| University of Michigan , Ann Arbor, MI USA | Regular full time | July 1989 | June 1990 | Postdoctoral Scientist American Heart Association Fellow |
| Hebrew University of Jerusalem, Jerusalem Israel | Regular full time | December 1987 | June 1989 | Postdoctoral Fellow ADRDA fellowship |
| Royal free Hospital MRC Unite, Hampstead, London, UK | Regular full time | May 1987 | August 1987 | Visiting Scientist for Research on nanoparticles |

Professional Recognition/ Award/Fellowship received by the applicant (in last 10 years only)

| S.No. | Name of Award | Awarding Agency | Year |
|-------|---|---|---|
| 1 | Fulbright Senior Scholar Fellow Masaryk University, Brno, Czech Republic for nano technology | US Government State department | 2023-2024 (15 th March - 15 th June 2024) |
| 2 | Fulbright Specialist For Colombia teaching and research on nanotechnology | US Government State department | 2023 (18 th October- 18 th Nov 2023) |
| 3 | Fellow of American Association for Advancement of Sciences (FAAAS) | AAAS, Washington DC, USA | 2022 (for life) |
| 4 | Book of the year award 2022 for Handbook of Space Pharmaceuticals | International Academy of Aeronautics, Switzerland | 2022 |
| 5 | Fulbright Specialist University of Witwatersrand, Johannesburg, teaching and research on nanotechnology | US Government State department | 2019 (1 st July-31 st July) |
| 6 | Endeavour Executive fellowship for Deakin University, Geelong /Melbourne for siRNA drug delivery | Australian Government | 2015 (1 st July- 31 st July) |
| 7 | CNPQ Fellowship for research on impact of microgravity on nano drug | Brazil Government | 2015 to 2017 (one month every year) |

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| | delivery systems and space pharmaceuticals | | |
| 8 | Fulbright Senior Scholar Core Fellowship Udaya University Surabaya, Indonesia | US Government State department | 2017 for six Months (Jan 2017 to July 2017) |
| 9 | Prometeo Fellowship for research and teaching of nano applications | Ecuador Government | 2014 for two months |
| 10 | Awarded research fellowship/grant | Dalian Medical College and hospitals, Dalian China | 2014 for one month research and teaching |
| 11 | University of South Florida awards (USF) <ol style="list-style-type: none"> 1. Outstanding faculty award 2. Outstanding Achievement Award for Global Engagement 3. Outstanding faculty award 4. Outstanding faculty award 5. USF Outstanding Research Faculty Award 6. Fellow of NSF I-Corps 7. Outstanding faculty award | USF | 2017 2016 2019 2020 2022 2016 and 2020 2023 |

Representative Publications (*List of papers published in SCI Journals, in year wise descending order*).

| S.No. | Author (s) | Title | Name of Journal | Volume | Page | Year |
|-------|---|---|-----------------------|--------|---------|--|
| 1 | Pathak YV, Nikore RL and Dorle AK (My First Published paper) | Study of rosin and rosin esters as coating materials | Int. J. Pharm. | 24 | 351-354 | 1985 Journal Impact Index 6.51 (2021) |
| 2 | Benita S, Barkai A and Pathak YV. | Effect of drug loading on the In Vitro release kinetic behavior of Nifedepine from Polyacrylate microspheres | J. Controlled Release | 12 | 213-222 | 1990 Journal Impact Index 11.467 (2024) |
| 3 | Pathak YV, Boyd J, Schoen FJ and Levy RJ. | Prevention of calcification of glutaraldehyde pretreated bovine pericardium through controlled release polymeric implants: studies of Fe 3+, Al 3+, | Biomaterials, | 11 | 718-723 | 1990 Journal Impact Index 14.67 (2024) |

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|---|--|---|--------------------------------------|--|---------|--|
| | | Protamine sulfate an Levamisole | | | | |
| 4 | Farooq marofi, -- Yashwant Pathak and Farhad Motavalli Khiavi, | CAR-engineered NK cells; a promising therapeutic option for treatment of hematological malignancies, | Stem Cell Research & Therapy | 12 | 374-392 | 2021 Journal Impact Index 8.079 (2024) |
| 5 | Christian Sabbagh, Kevin Sneed and Yashwant Pathak | Hydrocortisone therapy for critically III trauma patients to decrease ventilator use in pneumonia patients, | Chem Pharm Res | 4 | 1-7 | 2022 Open access |
| 6 | Marelis Molina Otero, K B Sneed and YV Pathak | Effects of nanotechnology and theranostic on neurodegenerative diseases | Chem Pharm Res | 6 | 1-8 | 2024 Open access |
| 7 | Nikita Gupta, Mitali Prayani, Snehal Patel, Aditya baria, Anshu Srivastava, Yashwant pathak and Shital Bhutani | Therapeutic strategies for idiopathic pulmonary fibrosis-thriving present and promising tomorrow | The Journal of Clinical Pharmacology | PMID: 38346921 DOI: 10.1002/jcph.2408 | 1-20 | 2024 Journal Impact Index 2.842 (2024) |

Details of Patents

| S.No. | Patent Title | Name of Applicant (s) | Patent No. | Award Date | Agency/Country | Status |
|-------|--|--|----------------------|-----------------------------|----------------|---------|
| 1 | Modifying drug release in suspensions of ionic resin systems | Yashwant V Pathak, Russell Lee Mc McMahan and Mark Tengler Neos Therapeutics | US Patent: 8,313,770 | Nov 20, 2012 | US Patent | Awarded |
| 2 | Nanoparticles in thermoreversible gels for | Sutariya, Vijaykumar Bhadabhai | US patent 10729663 | 4 th August 2022 | US patent | Awarded |

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|---|--|--|------------------------|------------------------------|-----------|---------|
| | enhanced therapeutics | Hirani, Anjali A. Pathak, Yashwant V. | | | | |
| 3 | Nanoparticles for Treatment of Posterior Segment Ocular Diseases and Conditions | Kathleen Halasz, Yashwant Pathak, Vijaykumar Sutariya, USF | US Patent No. 11207274 | 4 th march 2021 | US Patent | Awarded |
| 4 | Loteprednol Etabonate Nanoparticles in Thermoreversible Gels for Enhanced Therapeutics | Vijaykumar Sutariya, Anjali Hirani, Yashwant Pathak(USF) | US Patent No. 10973776 | December 2021 | US Patent | Awarded |
| 5 | Nanoparticles for Treatment of Posterior Segment Ocular Diseases and Conditions | Kathleen Halasz, Yashwant Pathak, Vijaykumar Sutariya, USF | US Patent 11730703 | 23 rd August 2023 | US Patent | Awarded |

Representative Books/Reports/Chapters/General articles etc.

| S. No. | Title | Author's name | Publisher | Year of Publication |
|--------|--|---|--------------------------|-----------------------------|
| 1 | Nano particulate drug delivery systems | Deepak Thassu, Michele Deelers and Yashwant Pathak | Informa healthcare | 2007 (My first edited book) |
| 2 | Gandhi and the World | Debidatta Mahapatra and Yashwant Pathak | Lexington Books New York | 2018 |
| 2 | Genomics driven health care | Yashwant Pathak | Soringer /Nature Inc USA | 2020 |
| 3 | Nanomedicine and nano safety | Malay K Das and Yashwant Pathak | Soringer /Nature Inc USA | 2020 |
| 4 | Emerging technologies for nanoparticle manufacturing | Jayvadan Patel and Yashwant Pathak | Soringer /Nature Inc USA | 2021 |
| 5 | Handbook of Space Pharmaceuticals | Yashwant Pathak, Marlise Araujo Dos Santos and Luis Zea | Springer /Nature Inc USA | 2022 |
| 6 | Viral drug delivery systems | Ranjita Shegokar and Yashwant Pathak | Springer \Nature Inc | 2023 |
| 7 | DE GRUYTER handbook of | LaVena Wilkin and Yashwant Pathak | DeGruyter Germany | 2022 |

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| | organizational conflict management | | | |
| 7 | Artificial intelligence in bioinformatics and chemoinformatics | Yashwant Pathak, Surovi Saikia, Sarvadaman Pathak, Jayvadan Patel and Bhupendra Prajapati | CRC Press, USA | 2024 |
| 8 | Therapeutic nutrition in Ayurveda | Pankaj Wanjarkhedkar and Yashwant Pathak | CRC press USA | 2024 |
| 9 | Site specific cancer nano theranostics | Yashwant Pathak, Jayvadan patel, Namdev Dhas and Vipiul patel | CRC press USA | 2024 |
| 10 | Rising contagious diseases | Seth Kwabana Amponsah, Ranjita Shegokar and Yashwant Pathak | John Wiley and Sons New York | 2024 |

Link for books of Yashwant Pathak published https://www.amazon.com/Books-Yashwant-Pathak/s?rh=n%3A283155%2Cp_27%3AYashwant+Pathak

Current research Activities (**Ongoing projects**)

1. Nano based drug delivery systems for ophthalmic diseases
2. Nutraceutical formulations and evaluations using nanotechnology
3. Effervescent products for herbal and nutraceutical applications
4. Nanotechnology applications to deliver advanced therapeutics
5. Application of nano drug delivery systems to extend the IP life or create new IP
6. E Cigarettes as a platform for delivering herbal drugs

Partnerships and International Collaborations:

1. Adjunct Professor at Faculty of Pharmacy, Airlangga University, Surabaya, **Indonesia**
2. Adjunct Professor, Witwatersrand University, Jonesburg **South Africa**
3. Member of Board of Studies at Nirma University Faculty of Pharmacy, Ahmadabad **India**,
Jointly editing books and publishing papers with faculty at Nirma
4. University of Los Andes, Bogota **Colombia**
5. University of Ghana medical College Accra **Ghana**, Jointly editing books
6. Ganapat University, Gujrat, **India**, Jointly Editing books in Nanotechnology
7. Dibrugarh University, Dibrugarh, Assam, **India**

Significant accomplishments:

Fellow of AAAS (Most prestigious in United States and Globally recognized)

Four Fulbright fellowships ((Most prestigious in United States and Globally recognized)

Several international awards and fellowships from different Countries Australia, China, Brazil, Ecuador, United Kingdom, Israel, Indonesia and South Africa

Lectured over 100 Universities and traveled to more than 80 countries for professional purpose
Four times outstanding faculty awards from USF, One award for Global engagement achievement award and outstanding researcher Award from USF.

Series Editor for CRC Press on Nutraceuticals basic research and clinical evidence

Total Books edited: 60 on 23rd Feb 20204 plus few under contracts

Nanotechnology: 17 Books

Nutraceuticals, Ayurveda and herbal drugs: 20 Books

Drug delivery systems: 15 books

Conflict management: 5 books

AI and ANN : 3 Books

Total Publications: 375 including research papers (155), reviews and chapters (220) and 5 patents

Google Cited by VIEW ALL

| | All | Since 2019 |
|------------------|------|------------|
| <u>Citations</u> | 4405 | 2837 |
| <u>h-index</u> | 32 | 24 |
| <u>i10-index</u> | 66 | 47 |

Total list of publications are available on google scholar

<https://scholar.google.com/citations?user=aqah7JAAAAAJ&hl=en>