

Biographical Details

Statement regarding my scientific pursuits:

All of us engage in scientific research, whether in basic or applied sciences, driven either by curiosity or the desire to solve pressing problems for humanity. When applied research leads to changes in global medical practice, it is truly remarkable. The pioneering work I led at AIIMS, New Delhi, in the field of thyroid cancer, revolutionized treatment protocols worldwide. Our research optimized the radioiodine dose for remnant thyroid cancer ablation to just 30 mCi, saving millions of dollars, reducing unnecessary radiation exposure to patients, minimizing environmental hazards, and enabling outpatient treatment without hospitalization. This work was recognized in the 2015 ATA Guidelines for the management of DTC (Recommendation 55A - Strong Recommendation, High-Quality Data). This investigator-initiated research has transformed global medical practice.

In addition to this, my research has explored alternatives to second surgery (completion thyroidectomy) (Recommendation 38B) and advanced pediatric thyroid cancer treatment, contributing significantly to clinical practice, with five of my papers cited in the 2015 Pediatric DTC ATA Guidelines. My latest ground-breaking research on “Optimal Cumulative I-131 Activity in Metastatic Differentiated Thyroid Cancer: Balancing Efficacy and Adverse Events. In press (J Clin Endocrinol Metab. 2024 Jan 12:dgae024. doi: 10.1210/clinem/dgae024. Epub ahead of print. PMID: 38214553)” enhances the cumulative activity cut-off from 600 mCi to 1000 mCi likely to change the guidelines.

I have also contributed to neuroendocrine tumor research and metastatic castrate-resistant prostate cancer (mCRPC), advancing both imaging and therapy, placing India at the forefront of Alpha-radionuclide therapy (TAT) research. I have conducted extensive research in the field of radiopharmaceutical development and translation, moving innovations from bench to bedside. My work has spanned various cancers, including prostate cancer and neuroendocrine tumors, where I have significantly advanced radionuclide therapies such as [177Lu]Lu-PSMA-617, [225Ac]Ac-PSMA-617, and FAPI-based radioligand therapies. Through meticulous studies, I have optimized dosing protocols, enhanced imaging accuracy, and demonstrated the efficacy of these therapies, ultimately improving patient outcomes and advancing clinical practices globally.

I was the first in the world to initiate a 3-year Fellowship/DM program in Therapeutic Nuclear Medicine in 2015-16 at AIIMS, New Delhi. My work spans a wide range of cancers, including radioiodine-resistant follicular and para-follicular thyroid cancers, end-stage breast cancers, glioblastoma multiformes, and sarcomas.

As co-inventor of fibroblast activation protein (FAP) inhibitors, I pioneered a novel therapeutic strategy targeting the tumor microenvironment, offering new hope for patients with advanced-stage cancers that resist conventional therapies. In collaboration with the University of Mainz, Department of Chemistry, I played a crucial role in advancing pharmaceutical FAP inhibitors by transitioning from monomers to dimers. This evolution significantly improved pharmacokinetics, extended tumor retention times, and reduced radiation exposure to non-target tissues. I was instrumental in reengineering FAP inhibitors into both homodimer and heterodimer molecules and was the first globally to radiolabel Gallium-68, Lutetium-177, and Actinium-225 with FAP inhibitors. This innovative approach has been applied in the treatment of approximately 100 thyroid cancer patients, 25 breast cancer patients, and 10 sarcoma patients, yielding promising therapeutic outcomes.

1 Name in full: Chandra Sekhar Bal
 2 Date of Birth: 22/10/1960
 3 Nationality: Indian
 4 Field of Specialization: Nuclear Medicine (Sub-specialization: Therapeutic Nucl Medicine)
 5 Designation: Professor & Head
 6 Address
 (a) Official: Department of Nuclear Medicine, AIIMS, New Delhi, Pin: 110029
 (b) Residential: C1/4, AIIMS Campus, East Ansari Nagar, New Delhi 110029
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7. Academic career and professional attainments: Degree and postgraduate academic qualifications and distinctions.

A. Qualifications	Institution	Year	Remarks
MBBS	Utkal University	1984	Gold Medals & Honours
MD (Biophysics)	AIIMS, New Delhi	1988	Talekar Gold Medal
DRM (Nucl Med)	Bombay University	1989	Topper with Distinction
DNB (Nucl Med)	National Board Exam	1990	
MA (Economics)	Annamalai University	1993	
DSc.	SOA University	2011	Honoris Causa

B. Position Held from Post Doc Onwards till date	Institution	From	To
Assistant Professor	AIIMS, New Delhi	09-11-1991	17-06-1998
Associate Professor	AIIMS, New Delhi	18-06-1998	30-06-2002
Additional Professor	AIIMS, New Delhi	01-07-2002	23-09-2005
Professor	AIIMS, New Delhi	24-09-2005	30-11-2013
Professor & Head	AIIMS, New Delhi	01-12-2013	Continuing

C. Awards/ Special Attainments

1. Elected as **Fellow of Indian National Science Academy, New Delhi (FNA)** from the year 2023
2. Elected as **Fellow of Indian Thyroid Society** in 2023.
3. **2022 Dr. Henry N. Wagner, Jr., MD, Best International Abstract of the Year** at the Society of Nuclear Medicine and Molecular Imaging Annual Meeting at Vancouver, Canada June 2022.
4. **2021 Dr. Henry N. Wagner, Jr., MD, Best Abstract of the Year** at the Society of Nuclear Medicine and Molecular Imaging Annual Meeting on June15, 2021 at the SNMMI Annual Meeting.
5. Member of the **“International Committee for Defining Radioiodine Refractory Differentiated Thyroid Cancer”**. Other six members are from Europe and USA.
6. Elected as **Fellow of Indian Academy of Sciences, Bengaluru (FASc)** from the year 2020.
7. **AIIMS Excellence Award in Clinical Research** for 2021.
8. **AIIMS Excellence Award (First Prize) in Clinical Oncology Research** for 2020.
9. . Elected as **Fellow of National Academy of Sciences, India (FNASc)** from the year 2019
10. **The EANM Springer Prize for BEST PAPER October 2019** published in European Journal of Nuclear medicine.
11. Society of Nuclear Medicine and Molecular Imaging (SNMMI), North America, Therapy Council Conferred **Best Researcher award in Nuclear Medicine Therapy** (^{225}Ac - DOTATATE in progressive NETs) in June 2019 at Los Angeles, California.
12. Delivered **IGCDA Oration** on 17th March 2019 at Metabolic Conclave 2019 at Dubai, United Arab Emirates.
13. Elected as Fellow of National Academy of Medical Sciences (**FAMS**) from the year

2017.

14. Conferred **Oration Award** by the Indian Society of Thyroid Surgeons (ISTS) held at CMC, Vellore from 16-18 November 2017.
15. **AIIMS Excellence Award in Clinical Research** for 2017
16. **AIIMS Excellence Award in Clinical Research** for 2015
17. Awarded '**Prof R D Lele Oration**' at the Annual Conference of Association of Nuclear Medicine Physicians of India (ANMPI) at New Delhi on 30th September 2012
18. **Awarded Kellersberger Memorial Oration** by the Ethiopian Medical Association at United Nations' Convention Centre at Addis Ababa, Ethiopia on 25th May 2005.
19. **Emeritus Professor N Ramdas Award** in the field of Clinical Thyroidology for the year 2003 by Society of Nuclear Medicine-India.
20. **Brig.SK Majumdar Memorial Oration Award** for the Year 2002 by Society of Nuclear Medicine-India.
21. Conferred '**Young Investigator Award**' by Indo-American Society of Nuclear Medicine at Toronto, Canada for the year 2001.

D. Contribution to National/International issues

1. Invited as part of an **International Expert Group** to develop "**International Guideline on SLND in Early Stage Oral SCC**" by IAEA, Vienna
2. Started Alpha Therapy (225Ac-PSMA-617 in metastatic castration resistant prostate cancer) for the first time in Govt. Institution in India.
3. The results of **225Ac-DOTATATE in 177Lu-DOATATE Failure Neuroendocrine Tumor Patients** are published as **Featured Article in JNM** and put on the cover page of JNM. (JNM is the Official Journal of Society of Nuclear Medicine, USA with Impact Factor >11.6).
4. Another Innovating Research on **Fibroblast Activation Protein Inhibitor based Theranostic in Radioiodine Refractory Differentiated Thyroid Cancer** Published on the **Cover Page of THYROID** (Official Journal of American Thyroid Association, USA)
5. **Chairman**, Curriculum Committee for Nuclear Medicine Specialty of National Medical Commission (NMC) of India from 2020 -until now
6. Invited to conduct "**Meet-the-Professor**" Session in World Congress of Thyroid Cancer at Boston, USA July 2017.
7. **FIRST in the World to Start a DM** Course in Therapeutic Nuclear Medicine at

AIIMS, New Delhi in 2015-16.

President, Indian Thyroid Society 2015 -2018.

8. **President**, Association of Nuclear Medicine Physician of India (ANMPI) 2012-2014.
9. **Visiting Professor** to Wright State University and Charles Kettering Memorial Hospital, Dayton, Ohio USA from 15th May 2010 to 10th August 2010.
10. **Honorary Secretary** of Indian College of Nuclear Medicine 2005-2008
11. **Consultant to International Atomic Energy Agency (IAEA, Vienna)** from 15th January 2009 –14 March 2009.
12. **Chairman**, Curriculum Committee for Nuclear Medicine Specialty of Medical Council of India (MCI) from 2005 -2018

E. Executive Member of Society of Nuclear Medicine - India from 1998-2000. Expert for International Atomic Energy Agency (IAEA), Vienna

1. Expert Mission to consolidate the clinical Nuclear Medicine services at Institute of Nuclear Medicine, Molecular Biology and Oncology, **University of Gezira, Wad Medani, Sudan** from 10th-24th June 2000

2. Expert mission to upgrade the clinical Nuclear Medicine services at **University Clinic Kinshasa, Republic Democratic of Congo** from 1-28 October 2000

3. Expert mission to assess the clinical Nuclear Medicine services at **Addis Ababa University, Addis Ababa, Ethiopia** from 16-19 May 2006.

4. IAEA Expert mission to Establish Nuclear Medicine Therapy Facility at Mulago Hospital, **University of Kampala, Uganda** from 25-29th July 2011.

5. As an Expert to conduct AFRA Regional Training Course on PET/CT in Oncology at **Cairo, Egypt** from 16-20th September 2011.

6. As an Expert to conduct Regional Training Course on Nuclear Oncology at **Amman, Jordan** from 2-6th September 2013

7. International Atomic Energy Agency (IAEA) Expert Mission to University Clinic of Kinshasa, **Kinshasa, Democratic Republic of Congo** from 5-9th March 2018.

8. IAEA **Expert Mission to Bangladesh** under TC-BGD6027 "Strengthening Cancer Management through Capacity Building in Molecular Imaging Technology and

Radiation Oncology” from 1-5th October 2018 at Dhaka, Bangladesh

F. Other Contributions:

1. **National Coordinator** for IAEA/RCA Project to the Department of Atomic Energy (DAE), Govt. of India
2. **Expert to DBT on BIRAC**
3. **Associate Editor** of “Indian Journal of Nuclear Medicine
4. Member Editorial Board of “World Journal of Nuclear Medicine”.
5. Member Editorial Board of “Hellenic Journal of Nuclear Medicine”.
6. Member Editorial Board of “Endocrine Oncology and Metabolism”.
7. Associate Editor of “Thyroid Research and Practice”
8. Reviewer for 60 National and International Journals till date (Namely JNMMI, EJNMMI, JCEM, Thyroid, Medicine, AJR, European Radiology, etc)
9. **Assistant Editor of AJR** (American Journal of Radiology)
10. Guided 10 doctoral Students for PhD as Chief Guide
11. **British Nuclear Medicine Society** Journal Nuclear Medicine Communications awarded
“**Top Reviewer Certificate for last 3 years 2017-18-19**”
12. Chairman of the organizing Committee for the “**Annual Conference of Indian Thyroid Society**” at India Habitat Centre, New Delhi from 24-26th February 2017
13. Chairman of the organizing Committee for the “**1st-AIIMS-ANMPI National Update on PET and SPECT Radiopharmaceuticals**” at AIIMS, New Delhi from 9-11th April 2018
14. Chairman of the organizing Committee for the “**54th Annual Conference of Society of nuclear Medicine, India**” at AIIMS, New Delhi from 8-11th December 2022.
15. **Invited Faculty to 6thTheranostic World Congress, Wiesbaden, Germany in June 2022.**
16. **Invited Faculty to 12th Targeted Alpha Therapy at Cape Town, South Africa in February 2023.**

Mentorship for PhD Students

S.No	Candidate Name	Title of thesis	Year
1	Dr. Praveen Kumar, M.Sc, PhD	Dosimetric study in children and young adults with differentiated thyroid cancer undergoing radioiodine therapy	January, 2020
2	Dr. Madhav Prasad Yadav, M.Sc, PhD	¹⁷⁷ Lu-PSMA-617 radioligand and therapy in metastatic castration resistant prostate cancer patients: dosimetry, safety, efficacy, and quality of life assessment.	February, 2019
3	Dr. Sanjana Ballal, M.Sc, PhD	Molecular and imaging characterization of differentiated thyroid cancer	October, 2017
4	Dr. Priyanka Gupta, M.Sc, PhD	Radioactive skin patches for treatment of basal cell carcinoma and keloids	September, 2016
5	Dr. Santosh Gupta, M.Sc, PhD	Dosimetric studies in radionuclide therapy of neuroendocrine tumors with ¹⁷⁷ Lu-DOTATATE	April, 2013
6	Dr. Ajay Kumar MD, PhD	Dosimetric and therapeutic evaluation of trans-arterial ¹⁸⁸ Re in cases of inoperable hepatocellular carcinoma (HCC)	January, 2006

G. List of Important Research Projects As Principal Investigator

1. A randomized, double-blinded, placebo-controlled phase III study to evaluate the efficacy and safety of dabrafenib plus trametinib in previously treated patients with locally advanced or metastatic, radioactive iodine refractory BRAFV600E mutation-positive differentiated thyroid cancer. 2022 to ongoing. **NOVARTIS. Project No: N2275. PI: Chandrasekhar Bal**
2. Comparison of Alpha Emitting ²²⁵Ac-DOTATATE Versus Beta Emitting ¹⁷⁷Lu-DOTATATE Therapy in Advanced End-stage Gastroenteropancreatic Neuroendocrine Tumor (GEP-NET) Patients. **ICMR-ICRC2019-2024. PI: Chandrasekhar Bal**
3. Mutation spectrum of BRAF gene among patients with papillary thyroid carcinoma: A pathogenetic study in Indian population. **ICMR:2018-2021. PI: Chandrasekhar Bal**

4. Dosimetry Of ^{177}Lu -Labelled PSMA-617 In Castration-Resistant Prostate Cancer Patients. **ICMR 2017-2020. PI: Chandrasekhar Bal**

5. Title: "Prospective Single Arm Post Marketing Phase IV study to assess the Safety and Efficacy of Lenvatinib in Subjects with Locally Recurrent or Metastatic, Progressive, Radioiodine Refractory Differentiated Thyroid Cancer." Expected Duration for one patient from Screening till Post-Study Safety Follow-up: 31 Weeks. Multicentric Study by Essai Pharma from 2018-2023. **PI: Chandrasekhar Bal**

6. Biodistribution and radiation dosimetry of ^{68}Ga -DATA.SA.FAPi in patients diagnosed with various cancers. **2019-2021. Collaborative project with the University of Mainz, Germany. PI: Chandrasekhar Bal.**

7. Role of ^{68}Ga -DOTA/DATA.SA.FAPi in the staging of breast cancer. **2019-2021. Collaborative project with the University of Mainz, Germany. PI: Chandrasekhar Bal**

8. Dosimetric study in children and young adults with differentiated thyroid cancer undergoing radioiodine therapy. Department Project. **PI: Chandrasekhar Bal.**

H. Summary of research publications as per Pubmed and Google Scholar Search

- a. List of Journal Publications down loaded from Pubmed: 606
- b. **Total Citations-11,899, h index-56 and i10 index - 266**

***** Complete list is attached as separate PDF**


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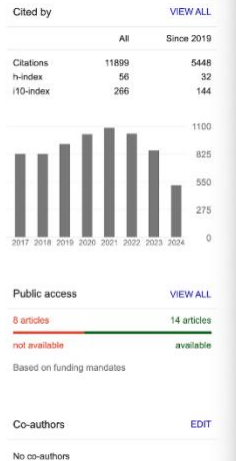
 Prof and Head Department of Nuclear Medicine, [AIMS](#)

Verified email at aims.ac.in

Thyroid

FOLLOWING

TITLE	CITED BY	YEAR
Surgery for drug-resistant epilepsy in children R Dhevi, B Ramanujan, PS Chandra, S Sapra, S Gulati, M Kalavani, ... New England Journal of Medicine 377 (17), 1639-1647	519	2017
Prospective randomized clinical trial to evaluate the optimal dose of ¹³¹I for remnant ablation in patients with differentiated thyroid carcinoma C Bal, AK Padhy, S Jana, GS Pant, AK Basu Cancer: Interdisciplinary International Journal of the American Cancer ...	231	1996
Radioiodine dose for remnant ablation in differentiated thyroid carcinoma: a randomized clinical trial in 509 patients CS Bal, A Kumar, GS Pant The Journal of Clinical Endocrinology & Metabolism 89 (4), 1666-1673	228	2004
Radioligand Therapy With ¹⁷⁷Lu-PSMA for Metastatic Castration-Resistant Prostate Cancer: A Systematic Review and Meta-Analysis MP Yadav, S Ballal, RK Sahoo, SN Dwivedi, C Bal American Journal of Roentgenology 213 (2), 275-285	176	2019
¹⁷⁷Lu-DKFZ-PSMA-617 therapy in metastatic castration resistant prostate cancer: safety, efficacy, and quality of life assessment MP Yadav, S Ballal, M Tripathi, NA Damle, RK Sahoo, A Seth, C Bal European journal of nuclear medicine and molecular imaging 44, 81-91	165	2017
Broadening horizons with ²²⁵Ac-DOTATATE targeted alpha therapy for gastroenteropancreatic neuroendocrine tumour patients stable or refractory to ¹⁷⁷Lu ... S Ballal, MP Yadav, C Bal, RK Sahoo, M Tripathi European journal of nuclear medicine and molecular imaging 47, 934-946	164	2020
Randomized safety and efficacy study of fosbretabulin with paclitaxel/carboplatin against anaplastic thyroid carcinoma JA Sosa, R Elisei, B Jarzab, J Baksksson, S Lu, C Bal, S Marur, A Gramza, ... Thyroid 24 (2), 232-240	163	2014
The role of 18 F-fluoride PET-CT in the detection of bone metastases in patients with breast, lung and prostate carcinoma: a comparison with FDG PET/CT and 99m Tc-MDP bone scan NA Damle, C Bal, GP Bandopadhyaya, L Kumar, P Kumar, A Malhotra, ... Japanese journal of radiology 31, 262-269	163	2013
Gallium-68-DOTA-NOC PET/CT of patients with gastroenteropancreatic neuroendocrine tumors: a prospective single-center study N Naswa, P Sharma, A Kumar, AH Nazir, R Kumar, S Chumber, C Bal American Journal of Roentgenology 197 (5), 1221-1228	155	2011
Prevalence of urinary tract infection and renal scars in patients with diabetes mellitus R Goswami, CS Bal, S Tejwari, GV Purjabi, A Kapil, N Kochupillai Diabetes research and clinical practice 53 (3), 181-186	153	2001
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Technetium Tc-99m ethyl cysteinate dimer brain single-photon emission CT in mild traumatic brain injury: a prospective study	132	2006



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Randomized, double-blind, placebo-controlled trial to evaluate efficacy of ketodiet in predialytic chronic renal failure S Prakash, DP Franco, S Sharma, D Sharma, CS Bal, H Kukam Journal of renal nutrition 14 (2), 89-96	121	2004
A randomized controlled trial to evaluate the adjuvant effect of lithium on radioiodine treatment of hyperthyroidism CS Bal, A Kumar, RM Pandey Thyroid 12 (6), 399-405	121	2002
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Evaluation of gastroesophageal reflux before and after sleeve gastrectomy using symptom scoring, scintigraphy, and endoscopy A Sharma, S Aggarwal, V Ahuja, C Bal Surgery for Obesity and Related Diseases 10 (4), 600-605	107	2014
Potential Role of 18F-FDG PET/CT in Patients With Fungal Infections P Sharma, A Mukherjee, S Karunanthi, C Bal, R Kumar American Journal of Roentgenology 203 (1), 180-189	99	2014
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Is chest x-ray or high-resolution computed tomography scan of the chest sufficient investigation to detect pulmonary metastasis in pediatric differentiated thyroid cancer? CS Bal, A Kumar, P Chandra, SN Dwivedi, S Mukhopadhyaya Thyroid 14 (3), 217-225	82	2004

Publications


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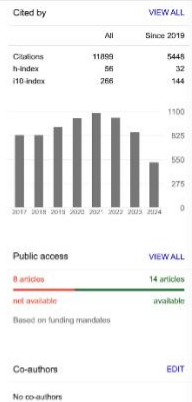
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List of publications

S.No	Authors	Title of the Paper	Journal, Volume, Year, Page and Impact Factor	Status of the Nominee in the Paper
1.	Satapathy S, Chandekar KR, Bal C	Gastro-Enteric-Pancreatic Neuroendocrine Tumor Treatment: Actinium-225-DOTATATE and Combined Therapies.	PET Clin. 2023;18(2):215-221. IF: 2.1	Corresponding author
2.	Satapathy S, Tupalli A, Chandekar KR, Ballal S, Bal C.	Radioiodine versus no radioiodine outcomes in low-risk differentiated thyroid cancers: A propensity-score matched analysis.	Clin Endocrinol (Oxf). 2023;99(5):483-491. IF: 6.13	Corresponding author
3.	Chandekar KR, Satapathy S, Sharma A, Taneja N, Tripathi M, Bal C.	Utility of 18F-FDG PET/CT in Assessment of Disease Extent and Response to Treatment in Xanthoma Disseminatum.	J Nucl Med Technol. 2023;51(4):335-336. IF:9.3	Corresponding author
4.	Chandekar KR, Satapathy S, Bal C.	Impact of radioiodine therapy on recurrence and survival outcomes in intermediate-risk papillary thyroid carcinoma -A systematic review and meta-analysis.	Clin Endocrinol (Oxf). 2024;100(2):181-191 IF: 6.1	Corresponding author
5.	Chandekar KR, Satapathy S, Bal C.	Positron Emission Tomography/Computed Tomography in Thyroid Cancer: An Updated Review.	PET Clin. 2024;19(2):131-145. IF: 2.1	Corresponding author
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