

CURRICULUM VITAE



1. **Name** : Dr. Sunakar Panda
2. **Father's Name** : Sri Brundaban Panda
3. **Date of Birth** : 25th May 1960
4. **Address for Correspondence** : Reader, P.G. Department of Chemistry
Berhampur University, Bhanjabihar
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5. **Permanent Address** : At - Jariabar,
Po. Basupur, Dist. Kendrapada
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6. **Academic Record** :

Exam Passed	Year	University	Div/Grade	Subjects
I.Sc.	1979	Sambalpur University	First	Physics, Chemistry, mathematics, Biology, English, Oriya
B.Sc.	1981	Sambalpur University	First (Hons.) with dist.	Chemistry (Honours), Physics, Mathematics
M.Sc.	1983	Sambalpur University	First	Chemistry, Specialisation (Biochemistry and Organic Reaction Mechanism)
M.Phil	1985	Sambalpur University		Physico-organic Chemistry & Biochemistry
Ph.D.	1989	Sambalpur University		Aging induced changes in membrane lipid peroxidation and stability of cell free chloroplasts.

7. Distinctions Gained:

- a) Secured first position in Annual M.Sc. Exam. 1983 (Chemistry) from P.G. Department of Chemistry, Sambalpur University.
- b) Awarded C.S.I.R. Research Fellowship (Chemistry) qualifying NET, 1984.
- c) Selected among 20 young Indian Scientists to participate in the workshop on spectroscopy at Bose Institute, Calcutta in 1985.
- d) Invited to attend Gordon Research Conference on Magnesium at California, U.S.A. 1987.
- e) Invited by American Society for Photobiology to attend its 15th Annual Meeting at Bal Harbour, Florida, U.S.A. 1987 and successfully participated the same as an Indian Scientist.
- f) Awarded C.S.I.R. Research Associateship for the year 1989.
- g) Selected by Service Selection Board, Orissa in 1989 for the Lectureship.
- h) Delivered a number of invited talks in different National and International symposia as Resource person.
- i) Selected as a member of advisory committee of an International Journal, Journal of Environment Research & Development.

8. **Foreign Country Visited** : U.S.A. (Bal Harbour, Florida),
Thailand(Bangkok)

9. **Research & Teaching Experience** : More than 25 years

10. **Field of special interest** : Organic Chemistry, Physical Chemistry,
Biochemistry & Environmental Chemistry.

11. List of Publications

- a. **List of papers published** - 33 papers in different journals & books of International repute.
- b. **List of books published** - 09 text books for different Indian Universities & Autonomous Colleges as per UGC guidelines.

12. Membership of Professional Bodies:

- a. Patron member of Orissa Chemical Society
- b. Life member of Indian Photobiology Society
- c. Life member of Journal of Environmental Research and Development.

d. Fellow member of International Congress of Chemistry and Environment

13. **Research Project:**

A major Research Project has been sanctioned by U.G.C. which will continue for three years.

LIST OF PAPERS PUBLISHED IN JOURNALS

Sl. No.	Author	Title	Name of JRL/Year Vol. Page	Press/Country
1.	Sunakar Panda M.K. Raval U.C.Biswal	Manganese induced modification of thylakoid lipid peroxidation during aging of cell free chloroplast.	<i>Photobiochem. and Photobiophys.</i> 1986 Vol. 13, P. 33-61	Elsevier Press, The Netherlands
2.	Sunakar Panda A.K. Mishra U.C.Biswal	Manganese induced modification in membrane lipid peroxidation and changes in chl-a fluorescence.	<i>Phyto chemistry</i> 1987 Vol. 26, P. 3217 - 3219	Pergamon Press, Great Britain
3.	Sunakar Panda M.K. Raval U.C.Biswal	Differential action of cations on peroxidation of membrane lipids during aging of cell free chloroplast.	<i>Current Trends in life science</i> " 1987, Vol. 13, P.155-164	Today & Tomorrow Printers, India
4.	Sunakar Panda A.K. Mishra M.K. Raval U.C. Biswal	Lipid peroxidation and membrane disorganisation of aging cell free chloroplasts.	<i>Photochem Photobiol.</i> 1987, Vol. 45, P. 655	Pergamon Press, New York, USA
5.	A. Patnaik Sunakar Panda B. Biswal	Stability of cell free chloroplast: Effect of in vivo status.	<i>Proc Ind.National Science Academy</i> 1988 Vol. B/53, P.487-492	INSA, India
6.	Sunakar Panda U.C. Biswal	Aging induced changes thylakoid organization and photo inhibition of pigments.	<i>Photo synthetica</i> 1989, Vol. 23 (4) P. 507-516	Czechoslovakia

7.	Sunakar Panda U.C. Biswal	Effect of magnesium and calcium ions on photo induced lipid peroxidation and thylakoid breakdown of cell. free chloroplast	<i>Ind.J.Biochem. Biophys</i> 1990, Vol. 27, P.159-163	CSIR, India
8.	Sunakar Panda	Consequences of Air pollution in environment and some remedial measures	" <i>Res.link</i> ", 2004, Vol. 12, P 12-14	Research Link Press, India
9.	Sunakar Panda	Environmental degradation due to accumulaiton of particulates	" <i>J. Env.Res. Dev.</i> 2006 Vol. I, P. 22-25.	Bhopal, India
10.	Sunakar Panda, J.K.Tripathy	Monitoring of environmental pollution through inclusion complex formation: study of Benzathin Penicillin & β -CD complex.	<i>J. Env.Res. Dev</i> 2008 Vol.3,P.45-50	Bhopal, India
11	S.S. Nayak Sunakar Panda	Study of inclusion complexes of acridone and its thiosemi-carbazone derivative with β -cyclodextrin	<i>Res J. Chem. Env.</i> 2009 Vol. 13(12), P. 57-61.	Indore, India
12	Sunakar Panda & Sumita K. Panda	Impact of lead ion on the stability of lipid protein organization of photosynthetic organelle	<i>Res. J. Biotech.</i> 2009 Vol. 4(1), P. 57-61.	Indore, India
13	Sunakar Panda & Sumita K. Panda	Effect of mercury and ion on the stability of lipid protein complex of isolated chloroplast	<i>Ind. J. of Biochem.Biophys.</i> 2009 Vol. 46, P. 405-408.	CSIR, Delhi, India

14	Sunakar Panda & S. S. Nayak	Inclusion complex of acridone & its semicarbazone derivatives with β -cyclodextrin : A thermodynamic, spectral & antimicrobial study .	Asian J. Res. Chem. 2009 Vol.2 (4), P. 539-543	India
15	S. S. Nayak & Sunakar Panda	Thermodynamic, spectral & antimicrobial activity of inclusion complexes of Acridone & its oxime with β -cyclodextrin .	J. Iranian, Chem.Res. 2009 Vol.2 P.257-65	Iran
16	Sunakar Panda & Sumita Panda	Effect of mercury ion on the stability of the lipid-protein complex of isolated chloroplasts	Ind. J.Biochem.Biophys. 2009,vol.46, P.405-408	CSIR,India.
17	Sunakar Panda & J.K.Tripathy	Studies on inclusion complexes of substituted indole derivatives with activating and deactivating group	J. Chem. Pharm.Res., 2010,vol.2(3), P. 722-732	India
18	P. M. Nanda, B.K.Garnaik Sunakar Panda	Study of physico-chemical characteristics of water of river Brahmani at the vicinity of Angul-Talcher industrial complex of Orissa	Asian. J. Chem. Env.Res.2010 Vol.3, P. 72-78	India
19	Sunakar Panda & H.K. Dash	Environmental impact Of Nitrogen oxide accumulation and some remedial measures .	J.Env.Res. Dev. 2010 Vol.3, P. 803-806	India

20	S. S. Nayak Sunakar Panda P.M. Panda S.Padhy	Studies on acridone derivatives with and without inclusion complex formation with β -CD	Bul.Chem. Com.2010 Vol.42. P. 147-152.	Bulgaria
21	Sunakar Panda & S. K. Dash	Synthesis and biological significance of inclusion complexes of 2-[5'-benzylidene-2'-phenyl-4'-oxo-1', 3'-thiazolidine]-1, 3-benzothiazole and 2-[5'-(o-nitrobenzylidene)-2'-phenyl-4'-oxo-1', 3'-thiazolidine]-1, 3-benzothiazole with β -cyclodextrin	J.Chem. Pharm.Res. 2010 vol.2(5) P. 449-457	India
22	P. M. Nanda, B.K.Garnaik Sunakar Panda	Studies on fluoride pollution in ground water of Angul-Talcher industrial complex of Odisha, India	Asian.J.Chem. Env.Res. 2011 vol.4(1) P. 13-16	India
23	Sunakar Panda & J.K.Tripathy	Thermodynamic and spectral studies of inclusion complexes of substituted indole derivatives with β -CD	Asian .J. Chem. 2011 Vol.23(4) P.1631-1635	India
24	U.P.Tripathy, J.C.Panigrahy Sunakar Panda	Kinetics of Ozone induced decolourization of effluents of pulp and paper industry	Asian.J.Res. Chem.2011 Vol.4(2) P.195-199	India
25	Sunakar Panda Sumita K. Panda A.K. Dash	Differential action of mercury and lead ion on the stability of lipid-protein organisation of Photosynthetic assembly.	Res.J.Chem. Env. 2011 Vol.15(1) P.42-46	India

26	Sunakar Panda & J.K. Tripathy	Studies on inclusion complexes of nitro substituted indole derivatives	Asian.J.Res. Chem.2011 Vol.4(5) P.805-809	India
27	Sunakar Panda & S.K. Dash	Studies on Inclusion Complex of 2-[4'-Benzylidene-2'-phenyl-5'-oxo-1',3'-thiazolidine]-1,3-benzothiazole	Asian.J.Chem. 2011 Vol.23(7) P.3040-3044	India
28	Sunakar Panda & S.K. Dash	A Comparative Study of the Inclusion Complexes of 2-[5'-benzylidene-2'-phenyl-4'-oxo-1',3'-thiazolidine]-1,3-benzothiazole and 2-[5'-(<i>p</i> - <i>N,N</i> -dimethylaminobenzylidene)-2'-phenyl-4'-oxo-1',3'-thiazolidine]-1,3-benzothiazole with β -Cyclodextrin	E.J.Chem. 2011 Vol.8(3) P.1030-1037	India
29	Sunakar Panda & S.K. Dash	Spectral, Thermodynamic and Antimicrobial Studies of the inclusion complexes of 2-aminobenzothiazole derivatives with β -Cyclodextrin"	Chinese. J. Chem.2011 (in press)	China

LIST OF BOOKS PUBLISHED

Sl. No.	Author	Title of the book	Publisher	Year of publication
1.	Sunakar Panda	"A New model salt Analysis"	M.M. Publisher, K.S. Nagar, India	1996
2.	S.N. Tripathy Sunakar Panda	"Fundamentals of Environmental studies" First Edition	Vrinda Publication (P) Ltd., Delhi	1999
3.	Sunakar Panda Basanta Panda	"Elective Biology" First Edition	Vrinda Publication (P) Ltd., Delhi	2004
4.	S.N. Tripathy Sunakar Panda	"Fundamentals of Environmental studies" Second Edition	Vrinda Publication (P) Ltd., Delhi	2004
5.	Sunakar Panda	Physical Chemistry, Vol. I	Vrinda Publication (P) Ltd., Delhi	2005
6.	Sunakar Panda Basanta Panda	"Elective Biology" Second Edition	Vrinda Publication (P) Ltd., Delhi	2005
7.	Sunakar Panda	Environment & Ecology 1st edition	Vrinda Publication (P) Ltd., Delhi	2005
8.	Sunakar Panda	Physical Chemistry Vol. - II	Vrinda Publication (P) Ltd., Delhi	2006
9.	Sunakar Panda	Environmental Education	Vrinda Publication (P) Ltd., Delhi	2007
10.	Sunakar Panda	Environment & Ecology 2nd revised edition	Vrinda Publication (P) Ltd., Delhi	2007
11.	Sunakar Panda	Organi Reaction Mechanism	Vrinda Publication (P) Ltd., Delhi	2010

LIST OF PAPERS PUBLISHED IN PROCEEDINGS OF CONFERENCES

Sl. No.	Author	Title of the paper	Name of Proceedings	Press/Country
1.	Sunakar panda U.C. Biswal	Loss of Carotenoids during aging of cell free chloroplast.	“Trends in Photo synthetic Research” 1989, 187-194 P.	Agro botanical publishers, India
2.	M.K. Raval Sunakar Panda U.C.Biswal	Magnesium modulation of the stability of oxygen evolving system in chloroplast.	“Trends in Photo synthetic Research” 1989, 259-265 P	Agro botanical Publishers, India
3.	A.Patnaik Sunakar Panda B. Biswal	Impact of in vivo modulation on the in vitro stability of radish chloroplast.	“Trends in Photo synthetic Research” 1989, 195-202 P.	Agro botanical publishers, India
4.	Sunakar Panda U.C. Biswal	Kinetin modulation of chloroplast stability.	“Proceedings of plant growth regulatory research”, 1990	CSIR, India

SOME IMPORTANT PAPERS PRESENTED/ACCEPTED IN INTERNATIONAL SYMPOSIA

Sl. No.	Author	Title	Name of the Symposium	Year/Place
1.	M.K. Raval Sunakar Panda U.C.Biswal	Thylakoid membrane fluidity and oxidation of water : A model	International symposium on reaction on the micellar and membrane surface	1985, Sambalpur University, jyoti Vihar, Burla (India)
2.	Sunakar Panda M.K. Raval U.C.Biswal	Differential action of cations on membrane lipid peroxidation during aging of cell free chloroplasts.	International symposium on biomembrane	1985, Madurai Kamraj University, Madurai (India)
3.	Sunakar Panda M.K. Raval U.C.Biswal	Magnesium 10odification of thylakoid lipid peroxidation during aging of chloroplasts.	Gordon research conference	1987, Universit of Berkley California (U.S.A.)
4.	A.Patnaik Sunakar Panda B. Biswal	Stability of cell free chloroplasts. Effect of in vivo status.	Indo USSR Binational conference on photo synthesis under environmental stress.	1987, Jawaharlal Nehru University (JNU), New Delhi (India)
5.	Sunakar Panda A.K. Mishra U.C.Biswal	Manganese induced modification of thylakoid membrane lipids during aging of cell free chloroplasts.	7 th International symposium on plant lipids	1987, University of Berkley California (U.S.A.)
6.	Sunakar Panda U.C.Biswal	Lipid peroxidation and membrane disorganization during aging of cell free chloroplasts.	15 th Annual meeting of American society for photo biology	1987, Miami, University, Miami (U.S.A.)
7.	Sunakar Panda U.C.Biswal	Changes in thylakoid lipid peroxidation and chl-a fluorecence: effect of Kinetin	Indo – USA Binational conference on photo synthesis	1988, Jawaharlal Nehru University (JNU), New Delhi (India)
8.	Sunakar Panda U.C.Biswal	Stability of cell free chloroplasts: effect of manganese	International conference of plant physiology	1988, Jawaharlal Nehru University (JNU), New Delhi (India)
9.	Sunakar Panda	Differential actions of toxic metal ions on the stability of lipid-protien organization of photosynthetic organelle.	Fourth International congress of chemistry & environment	2010, Ubon-RatchathaniUniversity Thailand
10.	Sunakar Panda	Differential action of toxic metal ions on the stability of lipid-protein organization of photosynthetic organelle	International Conference on Plant Science in Post Genomic Era	2011, Sambalpur University

PAPERS PRESENTED/ACCEPTED IN NATIONAL SYMPOSIA

Sl. No.	Author	Title	Name of Symposium	Year/Place
1.	Sunakar Panda M.K. Raval U.C.Biswal	Effect of cations on photo peroxidation of thylakoid lipids.	5th Indian photo biology society meeting	1985, Central University of Hyderabad (India)
2.	Sunakar Panda B.Biswal	Loss of carotenoid during aging of cell free chloroplasts.	National Seminar on photo synthesis	1988, Sambalpur University, Jyoti Vihar, Burla (India)
3.	Sunakar Panda B.Biswal	Non-enzymatic photo peroxidation of thylakoid during aging of cell free chloroplasts.	Indian photo biology society meeting	1987, National Plant Resource Centre, Lucknow (India)
4.	M.K. Raval Sunakar Panda U.C.Biswal	Magnesium modulation of the stability of oxygen evolving system	National Seminar on photo synthesis	1988, Sambalpur University, Jyoti Vihar, Burla (India)
5.	A. Patnaik Sunakar Panda U.C.Biswal	Impact of in vivo modulation on in vitro stability of radish chloroplasts.	National Seminar on photo synthesis	1988, Sambalpur University, Jyoti Vihar, Burla (India)
6.	Sunakar Panda U.C.Biswal	Effect of Kinetin on thylakoid lipid peroxidation of isolated chloroplasts aging in vitro.	National Seminar on plant growth regulator research	1988, Jodhpur University, Jodhpur (Rajsthan) India
7.	Sunakar Panda U.C.Biswal	Thylakoid disorganization and photo inhibition of pigments during of cell free chloroplasts.	National Seminar on light & life	1989, Jadavpur University, Calcutta (WB) India
8.	Sunakar Panda	Nitrogen oxide induced environmental hazards	National Seminar on environmental policy & people	2000, Science College, Hinjilicut, Orissa (India)
9.	Sunakar Panda	Consequences of air pollutant accumulation environment.	National Seminar on environmental conservation and planning	2004, Govt. Gitanjali P.G. Women's College, Bhopal, India
10.	Sunakar Panda	Reactions of primary pollutants in environment.	National Seminar on environmental pollution in Hilly area	2005, G.B. Pant University, Pant Nagar, India

11.	Sunakar Panda	Environmental degradation due to accumulation of particulates	National Seminar on new horizons in environment and its derived problems	2006, Govt. Gitanjali P.G. Women's College, Bhopal, India
12.	Sunakar Panda	Waste water management The need of the hour	National Seminar on conservation & water resources	2007, Samantiapali, Orissa, India.