



Passport Size photograph of Faculty.

Name: Dr. Gautam Chel

Designation: Associate Professor

Educational Qualification: M.Sc. , Ph.D.

Research Completed: Nil

Research Topic: Nil

Research Interest: Natural Products Chemistry and related subjects

Research Publications:

1. B. Hazra, R. Sarkar, S. Bhattacharyya, P K. Ghosh, **G. Chel** & B. Dinda (2002). Synthesis of plumbagin derivatives and their inhibitory activities against Ehrlich ascites carcinoma *in vivo* and Leishmania donovani Promastigotes *in vivo*. **Phytother. Res.**, **16**, 133.
2. S. Sengupta, D. Ghosh, **G. Chel** & S.G. Pal (2000). Some observations on haemolymph of male *Oxya hyla hyla* Serville (Orthoptera : Acrididae): A SEM and electrophoretic study. **Proc. Zool. Soc.**, **53**, 87.
3. D. Ghosh & **G. Chel** (2000). Electrophoretic analysis of male haemolymph, female haemolymph and ovary proteins of *Oxya hyla hyla* (Orthoptera : Acrididae) and preliminary identification of female specific protein- vitellin. **Entomon**, **25**, 73.

4. D. Ghosh, P. Das & **G. Chel** (1999). Effect of neem seed extract (Azadirachtin) on growth and reproductive development of *Gesonula punctifrons* (Orthoptera). *Proc. Zool. Soc.*, **52**, 80.
5. A.K. Saha, **G. Chel** & D. Ghosh (1999). Ovipositional biology of *Boophilus microplus* Canestrini (Acari : Ixodidae). *Uttarpradesh J. Zool.*, **19**, 31.
6. D. Ghosh, **G. Chel** & S.G. Pal (1999). RNA-synthesis in the oocytes of *Gesonula punctifrons* (Orthoptera : Acrididae): An autoradiography and α -amanitin inhibition studies. *Entomon*, **24**, 1.
7. B. Dinda, S.K. Das, A.K. Hajra, A. Bhattacharya, K. De, **G. Chel** & B. Achari (1999). Chemical constituents of *Plumbago indica* roots and reactions of plumbagin: Part II. *Indian J. Chem.*, **38B**, 557.
8. S. Nath, **G. Chel** & D. Ghosh (1998). Some observations on the neuroendocrine system of female *Oxya hyla hyla*. *Indian J. Entomol.*, **60**, 233.
9. A.K. Saha, **G. Chel** & D. Ghosh (1998). Histophysiology of female reproductive system of nymph and adult *Boophilus microplus* Canestrini (Acari: Ixodidae). *Uttarpradesh J. Zool.*, **18**, 9.
10. D. Ghosh, **G. Chel** & S.G. Pal (1998). Ultrastructure of the female accessory reproductive gland of *Gesonula punctifrons* (Orthoptera : Acrididae) in relation to its secretion. *Entomon*, **23**, 267.
11. M. Datta, **G. Chel**, M. De & D. Ghosh (1997). Scanning electron microscopic observations of the haemocytes of female *Oxya hyla hyla* (Orthoptera : Acrididae). *Indian Biologist*, **29**, 29.
12. D. Ghosh, **G. Chel** & S.G. Pal (1997). Histophysiology of ovarian development and oogenesis in *Gesonula punctifrons* (Orthoptera : Acrididae). *Uttarpradesh J. Zool.*, **17**, 139.
13. C. Bhattacharya, S. Sil, S. Sengupta, **G. Chel** & D. Ghosh (1997). Plumbagin alters the acid and alkaline phosphatase level in fat body of *Periplaneta americana*. *J. Adv. Zool.*, **18**, 77.
14. B. Dinda, A.K. Hajra & **G. Chel** (1997). Naphthoquinones of *Plumbago* species: A review. *J. Indian Chem. Soc.*, **74**, 974.
15. D. Ghosh, **G. Chel** & S. Roy (1996). Foreign body induced changes in the haemocytes of Eri silk worm (*Philosomia ricini* : Lepidoptera). *J. Adv. Zool.*, **17**, 34.
16. B. Dinda, A.K. Hajra, S.K. Das, **G. Chel**, R. Chakraborty & B.C. Ranu (1995). Reactions on naturally occurring triterpene: Part 1. *Indian J. Chem.*, **34B**, 624.
17. D. Ghosh, K. Som, B. Dinda & **G. Chel** (1994). Potentiality of plumbagin to control *Culex fatigans* as a growth inhibitor. *J. Adv. Zool.*, **15**, 112.
18. B. Dinda, **G. Chel**, S. Saha & A. Patra (1994). Reactions of naturally occurring α -naphthoquinone: Part I. *Indian J. Chem.*, **33B**, 502.
19. B. Dinda, **G. Chel** & B. Achari (1994). A dihydroflavonol from *Plumbago indica*. *Phytochemistry*, **35**, 1083.
20. B. Dinda & **G. Chel** (1992). 6-Hydroxyplumbagin, a naphthoquinone from *Plumbago indica*. *Phytochemistry*, **31**, 3652.
21. B. Dinda, S. Saha & **G. Chel** (1991-92). Recent advances in the chemistry of vegetable tannins. *Indian Leather*, **25-26**, 1 (Serial).
22. B. Dinda, **G. Chel**, A. Das, M. Poria & S. Debnath (1990). Fatty acid composition of *Fleurya interrupta* and *Ajuga macrosperma*. *J. Indian Chem. Soc.*, **67**, 528.

23. B. Dinda, **G. Chel** & A. Das (1988). Amino acids of *Fleurya interrupta*. *J. Indian Chem. Soc.*, **65**, 227.

No of Books and Chapters in Edited Volumes/Books published:

1. P. Saha & **G. Chel** (2017). Medicinal plants: Tripura scenario. In '**Tribal Life and Forest Resource Management**' Tribal Research and Cultural Institute, Government of Tripura, Agartala, pp. 252-261 [ISBN: 978-81-932589-9-6]
2. P. Saha & **G. Chel** (2015). Carbon-sequestration and Other Properties of Some Soils of Tripura under Different Plantations. In '**Emerging Environmental Issues in Today's Society with Special Reference to North East India**' Supriya Books, New Delhi-2, pp. 339-347 [ISBN: 978-93-84471-07-1]
3. A. Saha, **G. Chel**, P. Deb & D. Ghosh (2006). Ultrastructural studies on ovarian development and oogenesis of *Boophilus microplus*. In '**Integrated Pest Management and Biocontrol**' (Eds. S.C. Dwivedi & N. Dwivedi) Pointer Publishers, Jaipur 302003 (Raj.) India. pp. 374. [ISBN-10: 8171324584, ISBN-13: 978-8171324583]
4. **G. Chel** (2006). Bamboo in the economy of Tripura- an entrepreneur's view-point. In '**Entrepreneurship and Small Business Development**' (Ed. K.S. Chakraborty), Mittal Publication, New Delhi (India). pp. 223. [ISBN: 81-8324-125-5]

Resource Person: Nil

Conference attended:

1. Workshop on Statistical Data Analysis, M.B.B. College, Agartala, November 21-25, 2016
2. National Seminar on Tribal Life and Forest Resource Management, M.B.B. College, Agartala, 12th & 13th March, 2015
3. National Workshop on Process Control, Improvement and Optimization, M.B.B. College, Agartala, 16th - 18th February, 2015
4. Indian Science Congress, 100th Session, Kolkata, 3rd - 7th January, 2013
5. Tripura Science Congress, Agartala, 8th & 9th September, 2011
6. International Conference on Emerging Areas of Chemistry, Tripura University, Agartala, 12th - 14th January, 2011
7. National Seminar on Capacity Building of Students in Higher Education with Special Reference to Tribal Students in Tripura, 16th & 17th November, 2010
8. National Seminar on Scope & Recent Development of Natural Products, Iswarchandra Vidyasagar College, Belonia, South Tripura, 12th & 13th November, 2010
9. National Seminar on Management of Environment: North East India Perspective, Iswarchandra Vidyasagar College, Belonia, South Tripura, 11th & 12th September, 2010
10. Regional Seminar on Recent Trends in Chemistry, Government Degree College, Dharmanagar, North Tripura, 12th & 13th September, 2009

Organized National/International Seminars/Workshops/Training: Nil

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