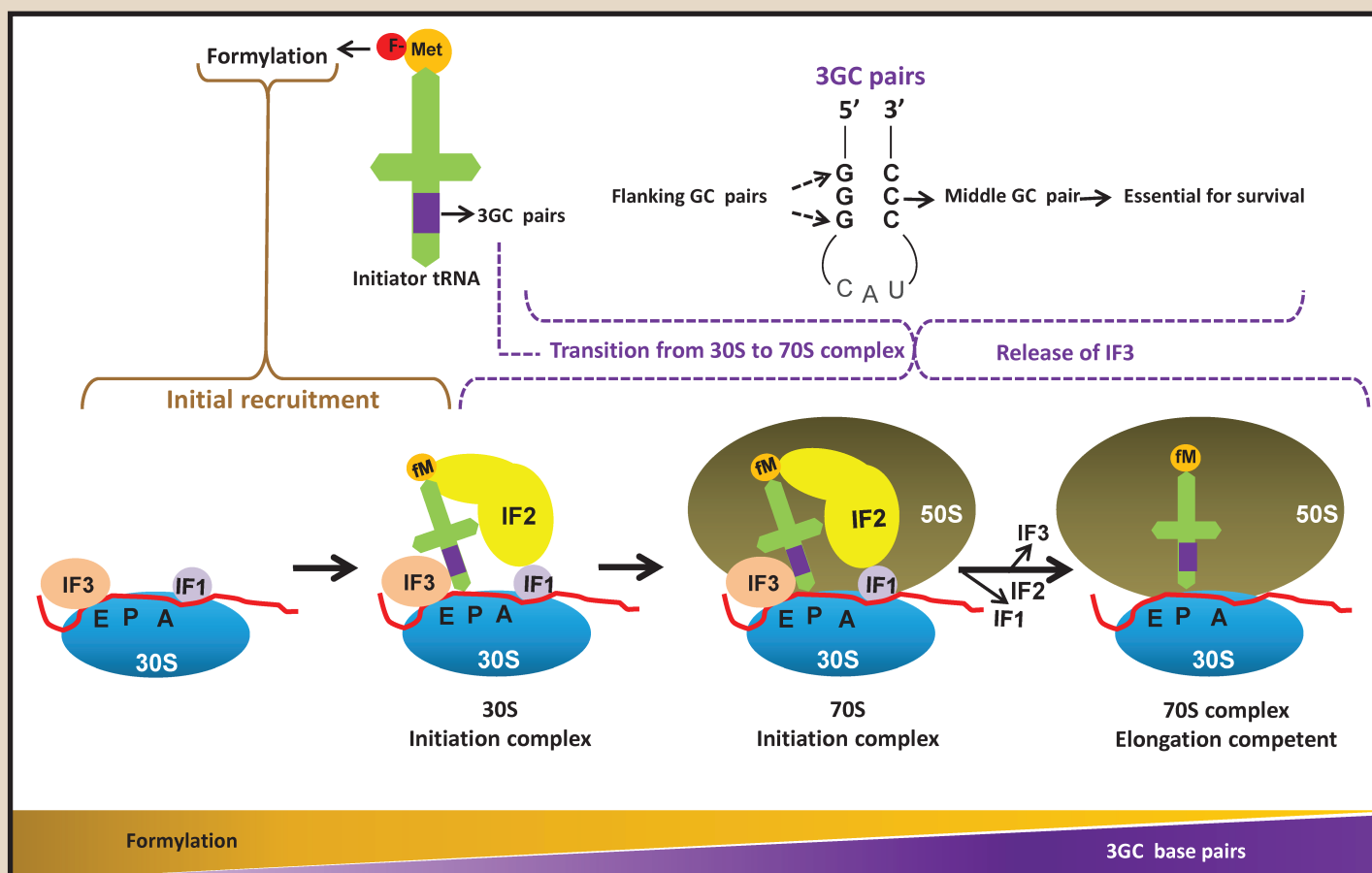


Proceedings of the Indian National Science Academy



Full text available at: <http://www.insa.nic.in>



PROCEEDINGS OF THE INDIAN NATIONAL SCIENCE ACADEMY

Editor-in-Chief — S C Lakhotia, Varanasi

Tel: (0542) 236-8145 (Lab), 231-2012 (R), 94-530-48657 (M); E-mails: lakhotia.eic.insa@gmail.com, eicproceedings@insa.nic.in, proceedingsinsa@gmail.com, procinsa@insa.nic.in

SECTIONAL EDITORS

<i>Mathematical Sciences</i>	: IBS Passi , Chandigarh	(9872448638; ibspassi@yahoo.co.in)
<i>Physics</i>	: Sanjay Puri , New Delhi	(9818552477; puri@mail.jnu.ac.in, purijnu@gmail.com)
<i>Chemical Sciences</i>	: Anunay Samanta , Hyderabad	(9440499681; anunay@uohyd.ac.in)
<i>Earth & Planetary Sciences</i>	: AK Singhvi , Ahmedabad	(9099061962; singhvi@prl.res.in)
<i>Engineering & Technology</i>	: Suman Chakraborty , Kharagpur	(9831402939; suman@mech.iitkgp.ernet.in)
<i>Material Sciences & Engineering</i>	: CS Sundar , Kalpakkam	(9790522807; sundarcss@gmail.com)
<i>Plant Sciences</i>	: AN Lahiri Majumdar , Kolkata	(9433027050; lahiri@jcbse.ac.in)
<i>Animal Sciences</i>	: BA Shanbhag , Karnataka	(9448184536; bhagyashrishanbhag@gmail.com)
<i>Microbiology & Immunology</i>	: Dipankar Chatterji , Bengaluru	(080-23600137; dipankar@mbu.iisc.ernet.in)
<i>Cell & Biomolecular Sciences</i>	: SK Dhar , New Delhi	(9810018272; skdhar@mail.jnu.ac.in)
<i>Health Sciences</i>	: Madhubala Rentala , New Delhi	(011-26742630, Ext. 4521; rentala@outlook.com)
<i>Agricultural Sciences</i>	: R Khanna Chopra , New Delhi	(9899017170; renu.chopra3@gmail.com)

EDITORIAL BOARD MEMBERS

SK Apte , Mumbai	(9869480205; aptesk@barc.gov.in)
US Bhalla , Bengaluru	(9482845028; bhalla@ncbs.res.in)
HS Balyan , Meerut	(9412515497; hsbalyan@gmail.com)
DM Banerjee , New Delhi	(9818664238; dhirajmohanbanerjee@gmail.com)
Amalendu Chandra , Kanpur	(9415045276; amalen@iitk.ac.in)
Sudip Chattopadhyay , Durgapur	(9434788029; sudipchatto@gmail.com)
Debashish Chowdhury , Kanpur	(0512-2597039; debch@iitk.ac.in)
PK Das , Kolkata	(033-24140921; pijushdas@iicb.res.in)
Anuradha Dube , Lucknow	(9450931332; anuradha_dube@hotmail.com)
JH Hacker , Germany	(+4934547239-910; joerg.hacker@leopoldina.org)
Thomas Kailath , USA	(001-650-4949401; kailath@stanford.edu)
PV Kamat , USA	(+1-574-6315411; pkamat@nd.edu)
Santosh Kapuria , New Delhi	(9654728776; kapuria@am.iitd.ac.in)
P Kondaiah , Bengaluru	(9448489531; paturu@mrdg.iisc.ernet.in)
Deepak Mathur , Manipal	(9869115322; deepak.mathur@manipal.edu)
Sanjay Mittal , Kanpur	(0512-2597906; smittal@iitk.ac.in)
K Muniyappa , Bengaluru	(080-22932235; kmcb@biochem.iisc.ernet.in)
S Natarajan , Mumbai	(9892361908; saradha54@gmail.com)
AJ Paulraj , USA	(+1-650-3874553; apaulraj@stanford.edu)
Upaasta Ramamurty , Bengaluru	(080-22933241; ramu@materials.iisc.ernet.in)
EV Sampathkumar , Mumbai	(9892100402; sampath@tifr.res.in)
Yadvinder Singh , Ludhiana	(9872218185; yadvinder16@rediffmail.com)
R Sowdhamini , Bengaluru	(080-23666001; mini@ncbs.res.in)
Mriganka Sur , USA	(617-2538784; msur@mit.edu)
K Veluthambi , Madurai	(9443927365; kveluthambi@rediffmail.com)
Anindita Bhadra , INYAS, Kolkata	(9830059960; abhadra@iiserkol.ac.in)
Suryasarathi Bose , INYAS, Bengaluru	(080-22933407; sbose@materials.iisc.ernet.in)
Deepak Sharma , INYAS, Roorkee	(01332-284827; deepak.aiims@gmail.com)

ORDER FORM

I/We wish to subscribe to the **Proceedings of Indian National Science Academy, New Delhi** (ISSN No. 0370-0046)

(Please fill in the form in BLOCK Letters)

Name :

.....

.....

..... PIN

Tel. No. E-mail: D/D No.

Dated Amount (Rs.)

Please tick the appropriate box in the following and send your subscription.

- | | | | |
|--------------------------|------------------------------------------------------|-----|------------|
| <input type="checkbox"/> | Library/Institutional (In India) (Annual – 4 Issues) | ... | Rs. 1800/- |
| <input type="checkbox"/> | Individual/Researchers (In India) (Annual) | ... | Rs. 1000/- |
| <input type="checkbox"/> | Library/Institutional (Foreign) (Annual – 4 Issues) | ... | \$ 300/- |
| <input type="checkbox"/> | Single Issue (In India) | ... | Rs. 500/- |
| <input type="checkbox"/> | Single Issue (Foreign) | ... | \$ 80/- |

All payments by DD/Cheque drawn in favour of **Indian National Science Academy, New Delhi**.

All enquiries regarding subscription should be made to the following : SO (Sales), Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi 110 002, India, (E-mail: sales@insa.nic.in).



Editorial Office

Proceedings of Indian National Science Academy

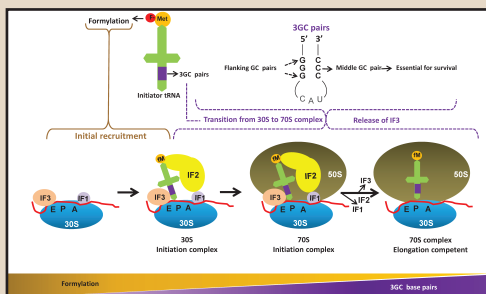
1, Bahadur Shah Zafar Marg, New Delhi 110 002, INDIA

Ph: 91-11-23221931-50 Ext. 457, 459; Journal Office : 011-23221958 (direct)

E-mail: proceedingsinsa@gmail.com, procinsa@insa.nic.in

Website: www.insaindia.org.in; Available online on: www.insa.nic.in

Online Submission: www.insajournal.in



Cover: Roles of formylation and 3GC base pairs in the initiator tRNA - see Shah *et al.*, pp . 429-438.