



**Mewa Singh, Ph.D., FASc, FNA, FNASc, FNAPsy**

**SERB Distinguished Fellow (SERB, DST, Govt. of India)**

Distinguished Professor (for Life)

Department of Psychology and Institute of Excellence, University of Mysore,  
Mysuru – 570006. India

Chief Editor

Dialogue: Science, Scientists, and Society

Indian Academy of Sciences, Bangalore

### **Honors and awards**

University of Mysore Golden Jubilee Science Award 2004

Elected Fellow (FASc), Indian Academy of Sciences, Bangalore

Elected Fellow (FNA), Indian National Science Academy, New Delhi.

Elected Fellow (FNASc) The National Academy of Science, India, Allahabad

Elected Fellow (FNAPsy) National Academy of Psychology India

Ramanna Fellow, DST, Government of India 2009-2012

Ramanna Fellow, SERB, DST, Government of India 2012-2015

J.C. Bose National Fellow, SERB, DST, Government of India 2016-2019

Sunder Lal Hora Medal 2017. Indian National Science Academy, New Delhi

SEB Distinguished Fellow. SERRB, Government of India 2019-2022

Visiting Professor, Adichunchanagiri University, Karnataka

Honorary Professor (former), JNCASR, Bangalore

Adjunct Professor (Former), NIAS, Bangalore

## **CAREER**

Master's	1973	Panjab University, Chandigarh
Research Fellow	1973-74	Meerut University, Meerut
Research Fellow	1974-77	University of Mysore, Mysore
Lecturer	1977-1985	University of Mysore, Mysore
Reader	1985-1994	University of Mysore, Mysore
Professor	1994 –2013	University of Mysore, Mysore
Life-long Distinguished Professor, University of Mysore. 2013 .....		

## **Academic Positions**

Member DST, PAC (Animal Sciences) 2001-2004, 2004-2007, 2007-2012

Chairman DST GOI Committee on Ornithology (PAC Animal Sciences)

Chairman DST GOI Committee on Mammalian Ecology

Chairman DST Committee for LACON grants

Chairman DST committee for Science Communication Impact Centre

Chairman DST, PAC in NCSTC 2013-

Member CDC University Grants Commission

Editorial Board, Resonance, India 2002-2011

Editorial Board, International Journal of Primatology, USA since December 2002

Guest Editor, Primate Report, Germany, 2000, 2001

Editorial Board, Review of General Psychology (APA), USA since August 2003

Editorial Board, Psychological Studies, India since July 2003

Edited Special Section in Current Science, India on Animal Behavior October 2005

Editorial Board, Current Science since January 2008

## **Membership of academic bodies (Past and Present)**

Chairman Department of Studies in Psychology, University of Mysore

Chairman Board of Studies in Psychology, University of Mysore

Dean Faculty of Arts, University of Mysore

Senate Member, University of Mysore

Academic Council Member University of Mysore

Academic Council Member, Pondicherry University

Academic Council Sri Satya Sai Institute for Higher Learning, Puttaparti

Member Faculty of Science, University of Mysore

Member Faculty of Science Bangalore University

Member Faculty of Arts Karnataka University Dharwad

Nodal Officer Internal Quality Assurance Cell, University of Mysore

Member External Audit Committee Karnataka University Dharwad

Honorary Director Centre for Ecology and Environment, University of Mysore

Chairman Malpractices and Lapses Committee, University of Mysore

Member Advisory Board of Academic Staff College, University of Mysore

Member Research Monitoring Committee, CES, Indian Institute of Science, Bangalore

Member Board of Studies in Management Science, Anthropology, Social Work, Speech and Hearing, Human Development, Women Studies, Education, Nursing, Zoology – University of Mysore

Member Academic Board Wildlife Sciences, National Centre for Biological Sciences, Bangalore

Dean Faculty of Science, University of Mysore

Member Research Advisory Committee, CCMB, Hyderabad

Member Research Advisory Committee, Wildlife Institute of India, Dehradun

Member Research Advisory Committee Salimali Centre, Coimbatore

### **VISITS AND ASSIGNMENTS ABROAD**

July-Aug., 1984	Kenya	Attended International Conference on Primatology
July-Sep., 1985	U.S.A.	Underwent training in Wildlife Management at Smithsonian Institution, Washington DC.
Aug.-April, 1986-87	U.S.A.	Fulbright "Scholar-in-Residence", Bucknell University, Lewisburg, Pennsylvania.
May-Aug., 1987	U.S.A.	Smithsonian Institution, Washington DC - Faculty at Wildlife Management Courses.
Sep.-Nov. 1987	Malaysia	Faculty at Wildlife Management Courses by Smithsonian Institution, Washington DC.
June-July, 1997	U.S.A.	Fellow: Zoological Society of San Diego. USA
August, 1998	Madagascar	Attended International Congress on Primatology
January 1999	Germany	German primate center, Gottingen – Worked out details of international collaborative project

June-July 1999	USA	Attended Animal Behavior Society Conference at Bucknell University, Pennsylvania
November 2000	Germany	Cologne Zoo and German Primate Center, Gottingen: Edited Primate Report & Discussed Macaque meeting
January 2001	Australia	Attended XVIIIth Congress of the International Primatological Society at Adelaide
June-July 2002	Russia	Lecturer at the 2 <sup>nd</sup> Summer School on "Evolution, Behavior and Society: Human Ethology" organized by Institute of Ethnology and Anthropology, Russian Academy of Sciences, Moscow, at Puschino
Oct-Nov. 2002	Germany	Cologne Zoo: Prepared Master Plan for lion-tailed macaque research and conservation activities. Also worked on editing the book: How Societies Arise: The Macaque Model (Cambridge University Press)
Nov-Dec 2003	Germany	Cologne Zoo: Worked on preparation of Husbandry Guidelines for lion-tailed macaques. Also attended Gottinger Freilandtage at Gottingen
Sep-Oct 2004.	Germany	Worked at Cologne Zoo for ongoing collaborative research. Also attended Fifth International Symposium on Physiology, Behavior and Conservation of Wildlife. Berlin, Germany. 26-29 September.
May 2-27, 2005	Germany	Cologne Zoo: Ongoing collaborative research on the lion-tailed macaque.
Dec 2-19, 2005	Germany	Cologne Zoo: Ongoing collaborative research on the lion-tailed macaque. Attended Gottinger Freilandtage
August 9-31, 2006	Germany	Cologne Zoo: and teaching at Studienstiftung, Salem, Germany (August 13-25).
Sept 7-13, 2006	Cambodia	IUCN RedList Meeting on Asian Primates
July 13-20, 2007	South Africa	International Congress Prosimians2007
August 9-24, 2007	Germany	Collaborative research on lion-tailed macaques
May 1-18, 2008	Germany	Collaborative research on lion-tailed macaques
Feb-March 2009	Germany	Collaborative research on lion-tailed macaques
Feb-March 2009	Germany	Collaborative research on lion-tailed macaques
Sep-Oct 2009	Germany	Collaborative research on lion-tailed macaques
Sep 10-19 2010	Japan	International Primatological Society Congress
June 11-19 2011	Tanzania	Conference of ATBC & SCB (Africa Section)
Dec 4-Dec 18 2011	Germany	Conference Gottinger Freilandtage & Research
July 16-28, 2012	South Africa	Invited presenter at International Congress of

		Psychology at Cape Town
Sep 3-18, 2012	Germany	Collaborative research on lion-tailed macaques
Feb 5-14, 2013	Germany	Conference and collaborative research
Dec 1-10, 2013	Germany	Conference Gottinger Freilandtage & Research
Aug 10-18, 2014	Vietnam	International Primatological Society Conference
Sep 25-Oct 3, 2015	Germany	10 <sup>th</sup> International Conference on Behavior, Physiology and Genetics of Wildlife
Nov 19-24, 2015	Singapore	IUCN Asian Primates Red List Assessment Workshop
Nov 6-13, 2016	Israel	Collaborative research at Bar Ilan University Tel Aviv
Oct 2-9, 2017	Germany	12 <sup>th</sup> International Conference on Behavior, Physiology and Genetics of Wildlife
Feb 17-20, 2018	Nepal	International Satellite Symposium on Asian Primates
August 18-26, 2018	Kenya	Keynote speaker at International Primatological Society Congress, Nairobi

## SELECTED RESEARCH PUBLICATIONS

- Singh, M., Singh, M. And Nagaranjini, H.K. 2018. Evolution of individual and social behaviour: Contribution of animal behaviour research. In Misra, G. (ed.). **ICSSR Research Surveys and Explorations: Psychology**. Springer. (in press).
- Pal, A., Kumara, H.N., Velankar, A.D., Mishra, P.S. and Singh, M. Changes in behavior following a 'rank changeover by challenge' in the Nicobar long-tailed macaque (*Macaca fascicularis umbrosus*). *Current Science* (in press).
- Erinjery, J.J., Singh, M. and Kent, R. 2019. Diet-dependent habitat shifts at different life stages in two sympatric primate species. *Journal of Biosciences*. 44:43. DOI: 10.1007/s12038-019-9865-7.
- Das, S., Erinjery, J.J., Desai, N., Mohan, K., Kumara, H.N. and Singh, M. 2018. Dead-infant carrying in nonhuman anthropoids: insights from systematic analysis and case studies of bonnet macaques, *Macaca radiata*, and lion-tailed macaque, *Macaca silenus*. *Journal of Comparative Psychology (USA)*.  
<http://dx.doi.org/10.1037/com0000140>.
- Kumar, M.A., Vijaykrishnan, S. and Singh, M. 2018. Whose habitat is it anyway? Role of natural and anthropogenic habitats in conservation of charismatic species. *Tropical Conservation Science (Mexico)*. 11:1-5. DOI. 10.1177/1940082918788451.
- Erinjery, J.J., Singh, M. and Kent, R. 2018. Mapping and assessment of vegetation types in the tropical rainforests of the Western Ghats using multispectral Sentinel-2 and SAR Sentinel-1 imagery. *Remote Sensing of Environment (USA)*. 216:345-354.

- Pal, A., Kumara, H.N., Mishra, P.S., Velankar, A. and Singh, M. 2018. Between-group encounters in Nicobar long-tailed macaques (*Macaca fascicularis umbrosus*). ***Ethology, Ecology & Evolution (Italy)***. Doi.org/10.1080/03949370/2018.1459866.
- Pal, A., Kumara, H.N., Velankar, A., Mishra, P.S. and Singh, M. 2018. Demography and birth seasonality in the Nicobar long-tailed macaque (*Macaca fascicularis umbrosus*). ***Current Science***. 114:1732-1737.
- Mohan, K, and Singh, M. Altered habitats, altered behaviors. 2018. ***Current Science***. 114:963.
- Pal, A., Kumara, H.N., Mishra, P.S., Velankar, A. and Singh, M. 2018. Extractive foraging and tool-aided behaviors in the wild Nicobar Long-tailed Macaque (*Macaca fascicularis umbrosus*). ***Primates (Japan)***. 59: 173-183. DOI 10.1007/s10329-017-0635-6.
- Coverage in Science  
<http://www.sciencemag.org/news/2017/11/monkeys-may-have-better-dental-hygiene-you>  
 New Scientist  
<https://www.newscientist.com/article/2152868-watch-a-monkey-floss-its-teeth-with-a-bird-feather/>  
 DailyMail mail online  
<http://www.dailymail.co.uk/sciencetech/article-5093653/Long-tailed-macaques-use-feathers-grass-floss.html>  
 IFL Science  
<http://www.iflscience.com/plants-and-animals/watch-as-monkeys-living-on-islands-in-the-indian-ocean-use-feathers-to-floss-their-teeth/>
- Singh, M. and Joshi, A. 2017. Science, Scientists, and Society: Renewing the Dialogue. ***Current Science*** (Guest Editorial). 113: 2055-2056.
- Erinjery, J.J., Kavana, T.S. and Singh, M. 2017. Behavioral variability in macaques and langurs of the Western Ghats, India. ***Floia Primatologica (Switzerland)***. 88:293-306 (DOI:10.1159/000480010)
- Erinjery, J.J., Kumar, S., Kumara, H.N., Mohan, K., Dhananjaya, T., Sundarraj, P., Kent, R. and Singh, M. 2017. Losing its ground: A case study of fast declining populations of a 'least-concern' species, the bonnet macaque (*Macaca radiata*). ***PlosOne (USA)***.  
<https://doi.org/10.1371/journal.pone.0182140>.
- Erinjery, J.J., Kumara, H.N., Mohan, K. and Singh, M. 2017. Interactions of lion-tailed macaques (*Macaca silenus*) with non-primates in the Western Ghats, India. ***Current Science***. 112:2129-2134.
- Singh, M. and Kumar, V. 2016. Vijay Kumar Sharma. ***Current Science***. 111:711-1721.
- Singh, M., Kumara, H.N., Kavana, T.S., Erinjery, J.J.. and Kumar, S. 2016. Demography and reproductive output in langurs of the Western Ghats, India. ***Primates (Japan)***. 57:501-508. DOI 10.1007/s10329-016-0550-2.
- Mangalam, M., Desai, N. and Singh, M. 2016. Division of labour: A democratic

approach towards understanding manual asymmetries in non-human primates.

**Current Science.** 110:1630-1638

Classen, D., Kiessling, S., Mangalam, M., Kaumanns, W. and Singh, M. 2016. Fission-fusion species under restricted living conditions: a comparative study of dyadic interactions and physical proximity in captive bonobos, and Bornean orangutans. **Current Science.** 110:839-850.

Mangalam, M., Desai, N. and Singh, M. 2016. Self-organization of laterally asymmetrical movements as a consequence of space-time optimization. **Journal of Theoretical Biology (USA)** 390:50-60.

Velankar, A.D., Kumara, H.N., Pal, A., Mishra, P.S. and Singh, M. 2016. Population recovery of Nicobar long-tailed macaque *Macaca fascicularis umrosus* in the Nicobar islands, India. **PlosOne (USA)**. 11(2):e0148205. doi:10.1371/journal.pone.0148205.

Das, S., Dutta, S., Chaudhuri, A., Erinjery, J.J. and Singh, M. 2016. Extension of the known range of *Drycalamus nympha* (DAUDIN, 1803) in India. **Herpetozoa (Germany)**. 28:206-209.

Erinjery, J.J., Kumara, H.N., Kavana, T.S. and Singh, M. 2016 Are interspecific associations of primates in the Western Ghats a matter of chance? A case study of the lion-tailed macaque. **Journal of Tropical Ecology (England)**. 32:41-49.

Kavana, T.S., Erinjery, J.J. and Singh, M. 2015. Diet of Nilgiri langurs (*Semnopithecus johnii*) inhabiting tropical montane shola in the Nilgiri Hills, south India. **Asian Primates (IUCN Switzerland)** 5:3-11.

Ram, M.S., Marne, M., Gaur, A., Kumara, H.N., Singh, M., Kumar, A. and Umapathy, G. 2015. Pre-historic and recent vicariance events shape genetic structure and diversity in endangered lion-tailed macaque in Western Ghats: Implications for conservation. **PloS ONE (USA)** 10(11): e0142597. doi:10.1371/journal.pone.0142597. doi:10.1017/S0266467415000528.

Kavana, T.S., Erinjery, J.J. and Singh, M. 2015. Folivory as a constraint on social behavior of langurs in South India. **Folia Primatologica (Switzerland)** 86:420-431.

Kaumanns, W. and Singh, M. 2015. Towards more individual-based and fitness-oriented captive mammal population management. **Current Science.** 109:1121-1129.

Zaunmair, P., Mangalam, M., Kaumanns, W., Singh, M. and Slotta-Bachmayr, S. 2015. Reverse dominance hierarchy and temporary changes in dominance hierarchy following the introduction of a new male among the females of a captive female-only group of lion-tailed macaques, *Macaca silenus*. **Current Science.** 109:803-807.

Nettimi, R.P., Mangalam, M. & Singh, M. 2015. Why not be an early bird researcher? **Current Science Guest Editorial.** 108:1027-1028.

Mangalam, M., Desai, N. and Singh, M. 2015. Division of Labor in Hand Usage Is

- Associated with Higher Hand Performance in Free-Ranging Bonnet Macaques, *Macaca radiata*. **PLoS ONE (USA)** 10.1371/journal.pone.0119337..
- Erinjeri, J., Kavana, T.S. and Singh, M. 2015. Food resources, distribution and seasonal variations in ranging in lion-tailed macaques, *Macaca silenus* in the Western Ghats, India. **Primates (Japan)**. 56:45-54. DOI.1007/s10329-014-0447-x.
- Das, S., Dutta, S., Sen, S., Jijumon, A.S., Babu, S., Kumara, H.N. and Singh, M. 2014. Identifying regions for conservation of sloth bears through occupancy modeling in north-eastern Karnataka, India. **Ursus (USA)** 25:111-120.
- Sfar, N., Mangalam, M., Kaumanns, W. and Singh, M. 2014. A comparative assessment of hand preference between red howler monkeys, *Alouatta seniculus* and yellow breasted capuchin monkeys, *Sapajus xanthosternos*. **PLoS ONE (USA)** 9(10):e107838.doi:10.1371/journal.pone.0107838.
- Kumara, H.N., Singh, M., Sharma, A.K., Santosh, K. and Pal, A. 2014. Impact of forest fragment size on between-group encounters in lion-tailed macaques. **Primates (Japan)** 55:543-548. DOI 10.1007/s10329-014-0437-z.
- Kavana, T.S., Erinjeri, J.J. and Singh, M. 2014. Male takeover and infanticide in Nilgiri langurs *Semnopithecus johnii* in the Western Ghats, India. **Folia Primatologica (Switzerland)**. 85:164-177. DOI: 10.1159/000362546.
- Singh, M. & Ananda Kumar, M. 2014. Our backyard wildlife: Challenges in coexisting with uneasy neighbors. **Current Science (Guest Editorial)**. 1463-1464.
- Mangalam, M., Desai, N. & Singh, M. 2014. Do right-handed monkeys use the right cheek pouch before the left? **PLoS ONE (USA)**. 9(5):e97971.doi: 10.1371/journal.pone.0097971.
- Kumara, H.N., Sasi, R., Suganthasakthivel, R., Singh, M., Sushma, H.S., Ramachandran, K.K. & Kaumanns, W. 2014. Distribution, demography, and conservation of lion-tailed macaques (*Macaca silenus*) in the Anamalai Hills landscape, Western Ghats, India. **International Journal of Primatology (USA)**. 35:976-989. DOI 10.1007/s10764-014-9776-2.
- Datta-Roy, A., Singh, M. & Karanth, P.K. 2014. Phylogeny of endemic skinks of the genus *Lygosoma* (Squamata: Scincidae) from India suggests an situ radiation. **Journal of Genetics**. 93: 163-167.
- Mangalam, M. and Singh, M. 2014. Division of labor in hand usage in urban free-ranging bonnet macaques, *Macaca radiata*. **American Journal of Primatology (USA)**.76:576-585. DOI:10.1002/ajp.22250.
- Mangalam, M and Singh, M. 2014. Flexibility in food extraction techniques in urban free-ranging bonnet macaques, *Macaca radiata*. **PLOS ONE (USA)**. 8(12):e85497. doi:10.1371/journal.pone.0085497
- Kaumanns, W., Singh, M. and Sliwa, A. 2013. Captive propagation of threatened



- primates – the example of the lion-tailed macaque *Macaca silenus*. **Journal of Threatened Taxa**, 5: 4825-4839.
- Kaumanns, W., Singh, M. and Schwibbe, M. 2013. Environmental change and housing conditions result in disappearance and return of reproductive seasonality in rhesus macaques (*Macaca mulatta*). **Current Science**, 105:517-521.
- Roy, K., Singh, M. and Singh, M. 2013. Estimation of Resource Availability with Special Reference to Nonhuman Primates in a Rainforest Region in the Central Western Ghats, South India. **Proceedings of the National Academy of Sciences India: Section B: Biological Sciences**. 83:659-667.
- Mangalam, M. and Singh, M. 2013. Differential foraging strategies: motivation, perception and implementation in urban free-ranging dogs, *Canis familiaris*. **Animal Behaviour (England)**. 85:763-770.
- Mangalam, M. and Singh, M. 2013. Sex and physiological state influence the rate of resource acquisition and monopolisation in urban free-ranging dogs, *Canis familiaris*. **Behavior (The Netherlands)**. 150:199-213.
- Singh, M., Kauamanns, W. and Umapathy, G. 2012. Conservation-oriented captive breeding programs in India: Is there a perspective?. **Current Science**. 103:1399-1400.
- Kumara, H.N. and Singh, M. 2012. Distribution, den characteristics and diet of the Indian fox *Vulpes bengalensis* (Mammalia: Canidae) in Karnataka, India, preliminary observations. **Journal of Threatened Taxa**. 4:3349-3354.
- Kumara, H.N., Singh, M., Irfan-Ullah, M. and Kumar, S. 2012. Status, distribution and conservation of slender lorises in India. In Master, J., Gamba, M. and Genin, F (eds). **Leaping Ahead: Advances in Prosimian Biology**. New York:Springer. Pp. 343-352.
- Kumara, H.N., Rathnakumar, S., Sasi, R. and Singh, M. 2012. Conservation status of wild mammals in Biligiri Rangaswamy Temple Wildlife Sanctuary, the Western Ghats, India. **Current Science**. 103:933-940.
- Kaumanns, W. and Singh, M. 2012. Social relationships among lion-tailed macaque (*Macaca silenus*) males in differently structured social units. **Current Science**. 102:1451-1455.
- Kumara, H.N., Rathnakumar, S., Ananda Kumar, M.A. and Singh, M. 2012. Estimating Asian elephant, *Elaphas maximums*, density through distance sampling in the tropical forests of Biligiri Rangaswamy Temple Tiger Reserve, India. **Tropical Conservation Science (Mexico)**. 5:163-172.
- Datta-Roy, A., Singh, M., Srinivasulu, C. and Karanth, K.P. 2012. Phylogeny of Asian skink genus *Eutropis* (Squamata: Scincidae) reveals an 'into India' endemic Indian radiation. **Molecular Phylogenetics and Evolution (USA)** 63:817-824.

- Roy, K., Singh, M., and Singh, M. 2011. Diet and dietary niche breadth in diurnal rainforest primates in the central Western Ghats. ***Folia Primatologica (Switzerland)*** 82:283-298.
- Das, S., Dutta, S., Mangalam, M., Verma, R.K., Rath, S., Kumara, H.N. and Singh, M. 2011. Prioritizing Remnant Forests for the Conservation of Mysore Slender Loris in Karnataka, India through Estimation of Population Density. ***International Journal of Primatology (USA)*** 32:1153-1160.
- Singh, M., Erinjeri, J., Kavana, T.S., Roy, K. and Singh, M. 2011 Drastic population decline and conservation prospects of roadside dark bellied bonnet macaques (*Macaca radiata raditata*) of southern India. ***Primates (Japan)*** 52:149-154.
- Singh, M., Roy, K. and Singh, M. 2011. Resource partitioning in sympatric langurs and macaques in tropical rainforests of the Central Western Ghats, South India. ***American Journal of Primatology (USA)*** 73:335-346.
- Singh, M., Jeyraj, T., Prashanth, U. and Kaumanns, W. 2011. Male-male Relationships in Lion-tailed Macaques (*Macaca silenus*) and Bonnet Macaques (*Macaca radiata*). ***International Journal of Primatology (USA)***, 32:167-176.
- Kumar, M.A. and Singh, M. 2010. Behavior of Asian elephant (*Elephas maximus*) in a land-use mosaic: Implications for human-elephant coexistence in the Anamalai Hills, India. ***Wildlife Biology in Practice (Portugal)***. 6:69-80.
- Kumara, H.N., Singh, M., Kumar, S. and Sinha, A. 2010. Distribution, abundance, group size and demography of dark- bellied bonnet macaque *Macaca radiata radiata* in Karnataka, south India. ***Current Science***, 99:663-667.
- Roy, K., Singh, M., Sushma, H.S. and Singh, M. 2010. Stand structure of a primate rich rainforest region in the central Western Ghats of Southern India. ***Journal of Threatened Taxa***, 2:930-939.
- Umapathy, G. and Singh, M. (2010). Long tailed macaques (*Macaca fascicularis umbrosa*) in Nicobar Islands, India. In Ramakrishna, Raghunathan, C. Sivaperuman, C. (eds.), Recent Trends in Biodiversity of Andaman and Nicobar Islands, Zoological Survey of India, Kolkata, p.449-454.
- Kumara, H.N., Kumar, S. and Singh, M. 2010. Of how much concern are the 'least concern' species? Distribution and conservation status of bonnet macaques, rhesus macaques and Hanuman langurs in Karnataka, India. ***Primates (Japan)***. 51:37-42.
- Molur, S. and Singh, M. 2009. Non-volant small mammals of the Western Ghats of Coorg District, Southern India. ***Journal of Threatened Taxa***, 1:589-608.
- Rangaiah, B. and Singh, M. 2009. Eco-cultural influences on time perception. ***Journal of Human Ecology***. 27:35-40.
- Rangaiah, B. and Singh, M. 2009. Eco-culture and illusion. ***Behavioural Scientist***. 10:133-138.

- Singh, M., Kaumanns, W., Singh, M., Sushma, H.S. and Molur, S. 2009. The lion-tailed macaque *Macaca silenus* (Primates: Cercopithecidae): conservation history and status of a flagship species of the tropical rainforests of the Western Ghats, India. ***Journal of Threatened Taxa***. 1(3) 151-157.
- Sushma, H.S. and Singh, M. 2008. Hunting of Indian giant squirrel (*Ratufa indica*) by the lion-tailed macaque (*Macaca silenus*) in the Western Ghats, India. ***Current Science***. 95:1535-1536.
- Kaumanns, W., Singh, M., Krebs, E. And Schwitzer, C. 2008. Primate populations in zoos: A case of fragmentation. ***Primate Report (Germany)***. 76:41-54.
- Singh, M. and Singh, M. 2008. From conflict to conflict resolution in nature. ***Psychological Studies***. 53:20-27.
- Krishna, B.A., Singh, M., Singh, M. and Kaumanns, W. 2008. Infant development and weaning in *Macaca silenus* in the natural habitats of the Western Ghats, India. ***Current Science***. 94: 347-355.
- Kumar, S., Kumara, H.N. and Singh, M. 2008. Observations in tool use in captive lion-tailed macaque (*Macaca silenus*). ***Current Science***. 94: 925-928.
- Singh, M. and Singh, M. 2008. Western Ghats: Book Review. ***Current Science***. 94:1319-1320.
- Singh, M., Malik, I., Dittus, W., Sinha, A., Belsare, A., Wlaker, S.R., Molur, S., Wright, B., Lenin, J. and Chaudhuri, S. 2007. Action Plan for the Control of Commensal Nonhuman Primates in Public Places. Zoo Outreach Organization, Coimbatore.
- Cooper, M.A., Aureli, F., & Singh, M. 2007. Sex-Differences in Reconciliation and Post-Conflict Anxiety in Bonnet Macaques. ***Ethology (USA)***. 113:26-38.
- Rangaiah, B. & Singh, M. 2007. Impact of eco-culture on psychological differentiation. ***Psychological Studies***. 52: 253-257.
- Rangaiah, B., Singh, M. & Gangadhara, B. 2007. An empirical study of time perception among tribes and non-tribes: Influence of domestication and non-domestication of livestock. ***Asia Pacific Review of Rural and Tribal Issues***. 1: 22-28.
- Kumara, H.N. and Singh, M. 2007. Small carnivores of Karnataka: Distribution and sight records. ***Journal of Bombay Natural History Society***. 104: 153-160.
- Singh, M., Krishna, B.A. and Singh, M. 2007. Maternal parental investment in the lion-tailed macaque (*Macaca silenus*): Dominant females are biased towards sons. ***Psychological Studies***. 52: 348-356.
- Sushma, H.S. & Singh, M. 2006. Resource partitioning and interspecific interactions among **sympatric rainforest arboreal mammals of the Western Ghats, India**. ***Behavioral Ecology (USA)***. 17:479-490.
- Singh, M., Sharma, A.K., Krebs, E., & Kaumanns, W. 2006. Reproductive biology of lion-

- tailed macaque (*Macaca silenus*): An important key to the conservation of an endangered species. **Current Science**. 90:804-811.
- Singh, M., Kumara, H.N., Kumar, M.A., Singh, M., & Cooper, M. 2006. Male influx, infanticide and female transfer in *Macaca radiata radiata*. **International Journal of Primatology (USA)**. 27:515-528.
- Krishna, B.A., Singh, M. & Singh, M. 2006. Population Dynamics in a group of Lion-tailed Macaques (*Macaca silenus*) Inhabiting a Rainforest Fragment in the Western Ghats, India. **Folia Primatologica (Switzerland)**. 77:377-386.
- Singh, M. & Kumara, H.N. 2006. Distribution, Status and Conservation of Indian Gray Wolf (*Canis lupus pallipes*) in Karnataka, India. **Journal of Zoology (London)**. 270:164-169.
- Singh, M., Krishna, B.A. & Singh, M. 2006. Dominance hierarchy and social grooming in female lion-tailed macaques (*Macaca silenus*) in the Western Ghats, India. **Journal of Biosciences**. 31:369-377.
- Kumara, H.N., Singh, M., & Kumar, S. 2006. Distribution, Habitat Correlates and Conservation of *Loris lydekkerianus* in Karnataka, India. **International Journal of Primatology (USA)** 27:941-969.
- Sharma, A.K., Singh, M., Kaumanns, W., Krebs, E., Singh, M., Kumar, M.A., & Kumara, H.N. 2006. Birth patterns in wild and captive *Macaca silenus*. **International Journal of Primatology (USA)**. 27:1429-1439.
- Kumara, H.N. & Singh, M. Ceylon frogmouth (*Batrachostomus moniliger*) in rainforests of the Western Ghats, Karnataka. 2006. **Journal of Bombay Natural History Society**. 103:6-7.
- Kumara, H.N. & Singh, M. 2006. Distribution and relative abundance of giant squirrels and flying squirrels in Karnataka, India. **Mammalia (France)**. 40-47.
- Kumara, H.N., Kumar, S., & Singh, M. 2005. A novel foraging technique observed in slender loris (*Loris lydekkerianus malabaricus*) feeding on red ants. **Folia Primatologica (Switzerland)**. 76:116-118.
- Singh, M., & Kaumanns, W. 2005. *In Situ* and *Ex Situ* Research and Conservation Perspective for the Lion-Tailed Macaque (*Macaca silenus*): A Model for Planning Conservations Strategies for Other Endangered Primates. In Puri, C. P., and Ganguly, N.K. (eds.). National Center for primate Breeding and Research: Vision, Challenges and Opportunities. Mumbai: National Institute for Research In Reproductive Health. Pp. 127-139.
- Schulz, H., Ramanathan, A., Fith-Snyder, H., Nekaris, K.A.I., Singh, M., & Kaumanns, W. 2005. Care of rescued south Indian lorises with guidelines for hand-rearing infants. In: Menon, V., Ashraf, N.V.K., Panda, P., & Mainkar, K. (eds). Back to the Wild: Studies in Wildlife Rehabilitation. New Delhi: Wildlife Trust of India. Pp. 104-118.

- Kaumanns, W., Krebs, E., & Singh, M. 2005. An endangered species in captivity: Husbandry and management of the lion-tailed macaque (*Macaca silenus*). **myScience**. 1:43-71.
- Kaumanns, W., Krebs, E., Schwitzer, C., & Singh, M. 2005. Primates in Europe. **Zeitschrift Des Kolner Zoo (Germany)**. 48:85-96.
- Singh, M. & Kaumanns, W. 2005. Behavioural studies: A necessity for wildlife management. **Current Science**. 89:1230-1236.
- Kumara, H.N., & Singh, M. 2005. New site record of small Travancore flying squirrel (*Petinomys fuscocapillus fuscocapillus*) from Karnataka. **Journal of Bombay Natural History Society**. 102:97.
- Kumara, H.N. & Singh, M. Disappearance of elephants in Uttara Canara. 2005. **Journal of Bombay Natural History Society**.102:337.
- Kumara, H.N. & Singh, M. 2005. Occurrence of the rusty-spotted cat (*Felis rubiginosa*) in Nugu Wildlife Sanctuary, Karnataka. **Journal of Bombay Natural History Society**.102:336.
- Thierry, B., Singh, M., & Kaumanns, W. (eds). 2004. *Macaque societies: A model for the study social organization*. **Cambridge: Cambridge University Press (England)**. p 418.
- Radhakrishna, S., & Singh, M. 2004. Reproductive biology of the slender loris (*Loris lydekkerianus lydekkerianus*). **Folia Primatologica (Switzerland)**. 75:1-13.
- Cooper, M.A., Chaitra, M.S., & Singh, M. 2004. Body weight in bonnet macaques (*Macaca radiata*): The effect of dominance, reproductive state and group size. **International Journal of Primatology (USA)**. 25:165-168.
- Radhakrishna, S., & Singh, M. 2004. Infant development in the slender loris (*Loris lydekkerianus lydekkerianus*). **Current Science**. 86:1121-1127.
- Singh, M. & Raghunatha Rao, N. 2004. Population dynamics and conservation of commensal bonnet macaques. **International Journal of Primatology (USA)**. 25:847-859.
- Kumara, H.N., & Singh, M. 2004. Distribution of primates and conservation of *Macaca silenus* in rainforests of the Western Ghats, Karnataka, India. **International Journal of Primatology (USA)**. 25:1001-1018.
- Kumara, H.N., & Singh, M. 2004. The influence of differing hunting practices on the relative abundance of in two rainforest areas of the Western Ghats, India. **Oryx (England)**. 38: 321-327.
- Cooper, M.A., Aureli, F., & Singh, M. 2004. Between-Group Encounters among Bonnet Macaques (*Macaca radiata*). **Behavioral Ecology and Sociobiology (USA)**. 56:217-227.
- Singh, M., & Sinha, A. 2004. Life-history traits: Ecological adaptations or phylogenetic

- relics? In Thierry, B., Singh, M., & Kaumanns, W. (eds). ***Macaque societies: A model for the study social organization***. Cambridge: Cambridge University Press (England). 80-83.
- Kumara, H.N., Sharma, A.K., Kumar, M.A., Sushma, H.S., Singh, M. & Singh, M. 2004. Diversity and management of wild mammals in tea gardens in the rainforest regions of the Western Ghats, India: A case study from a tea estate in the Anaimalai Hills. ***Current Science***. 87:1282-1287.
- Thierry, B., Singh, M. and Kaumanns, W. 2004. Why macaque societies. In Thierry, B., Singh, M., & Kaumanns, W. (eds). ***Macaque societies: A model for the study social organization***. Cambridge: Cambridge University Press (England). pp 3-10.
- Thierry, B., Singh, M. and Kaumanns, W. 2004. Towards integrating multiple dimensions of societies. In Thierry, B., Singh, M., & Kaumanns, W. (eds) ***Macaque societies: A model for the study social organization***. Cambridge: Cambridge University Press (England). Pp 335-340.
- Singh, M., Singh, M., Sharma, A.K., & Krishna, B.A. (2003). Methodological considerations in measurement of dominance in primates. ***Current Science*** 84:709-713.
- Umapathy, G.U., Singh, M., & Mohnot, S.M. (2003). Status and distribution of *Macaca fascicularis umbrosa* in Nicobar Islands, India. ***International Journal of Primatology (USA)***. 23:281-293.
- Molur, S., Brandon-Jones, D., Dittus, W., Eudey, A., Kumar, A., Singh, M., Feeroz, M.M., Chalise, M., Priya, P. and Walker, S. (eds) 2003. *Status of South Asian Primates: Conservation Assessment and Management Plan (C.A.M.P.) Workshop Report 2003*. Zoo Outreach Organization/CBSG-South Asia, Coimbatore.
- Singh, M., Singh, M., Kumar, M.A., Kumara, H.N., Sharma, A.K. & Kaumanns, W. 2002. Distribution, population structure and conservation of lion-tailed Macaque (*Macaca silenus*) in Anaimalai Hills, Western Ghats, India. ***American Journal of Primatology (USA)*** 57:91-102.
- Radhakrishna, S., & Singh, M. 2002. Home range and ranging pattern in the slender loris (*Loris tardigradus lydekkerianus*). ***Primates (Japan)*** 43:237-248.
- Kumar, M.A., Singh, M., Srivastava, S., Udhayan, A., Kumara, H.N., & Sharma, A.K. 2002. Distribution and management of wild mammals in Indira Gandhi Wildlife Sanctuary, Tamilnadu, India. ***Journal of Bombay Natural History Society*** 99:184-210.
- Radhakrishna, S., & Singh, M. Social behavior of slender loris (*Loris tardigradus lydekkerianus*). 2002. ***Folia Primatologica (Switzerland)*** 73:181-196.
- Radhakrishna, S., & Singh, M. 2002. Conserving the slender loris. ***Proceedings of***

- the National Seminar on Conservation of Eastern Ghats.** Gachibowli: EPTRI. p 227-231.
- Radhakrishna, S., & Singh, M. 2002. Activity schedule and habitat use of slender loris (*Loris tardigradus lydekkerianus*). **Journal of Bombay Natural History Society** 99:400-407.
- Singh, M., Kumara, H.N., Ananda Kumar, M., & Sharma, A.K. 2001. Behavioral responses of lion-tailed macaque to a changing habitat in a tropical rainforest fragment in Western Ghats, India. **Folia Primatologica (Switzerland)** 72:278-291.
- Kumar, M.A., Singh, M., Kumara, H.N., Sharma, A.K., & Bertsch, C., 2001. Male migration in lion-tailed macaques. **Primate Report (Germany)**. 59:5-18.
- Schwibbe, M., Singh, M., Kaumanns, W., & Knogge, C. 2001. Editors. **Primate Report (Germany)**. Volume 59.
- Singh, M. 2000. Animal behaviour: A review of research in India between 1982-1992. In Pandey, J. (Ed.), **Psychology in India: State of the Art**. Delhi: Sage Publications. Pp 14-55.
- Singh, M., Kumar, M.A., Kumara, H.N., & Mohnot, S.M. 2000. Distribution and conservation of slender loris (*Loris tardigradus lydekkerianus*) in southern Andhra Pradesh, south India. **International Journal of Primatology (USA)**, 21:721-730.
- Basavarajappa, D'Souza, L., Singh, M., & John, R. 2000. Level of Stress and peptic ulcer in south India. **Pakistan Journal of Psychological Research (Pakistan)**. 15:99-105.
- Kumara, H.N., Sharma, A.K., Kumar, M.A., & Singh, M. 2000. Roadkills of wild fauna in Indira Gandhi Wildlife Sanctuary: Lessons for conservation and management. **Biosphere Conservation (Japan)**. 3:41-47.
- Singh, M., Kumara, H.N., Kumar, M.A., Sharma, A.K., & DeFalco, K. 2000. Status and conservation of lion-tailed macaque and other arboreal mammals in tropical rainforests of Sringeri Forest Range, Western Ghats, Karnataka, India. **Primate Report (Germany)**. 58:5-16.
- Singh, M., & Kumar, M.A. 2000. Disappearing act: Only special breeding programmes and creation of corridors can save the lion-tailed macaque from extinction. **Down to Earth**. July 2000. 29-31.
- Kumara, H.N., Singh, M., Sharma, A.K., Singh, Mridula, & Kumar, M.A. 2000. Faunal component in the diet of lion-tailed macaques. **Primate Report (Germany)**. 58:57-66.
- Kaumanns, W., Singh, M., Beisenherz, W., Schwitzer, C., & Knogge, C. 2000. Bartaffen und ihr Lebensraum. **Zeitschrift Des Kolner Zoo (Germany)**. 43:147-168.
- Singh, Mridula., Singh, M., Kumar, M.A., Kumara, H.N., Sharma, A.K., & Sushma,

- H.S. 2000. Niche separation in sympatric lion-tailed macaques (*Macaca silenus*) and Nilgiri langur (*Presbytis johnii*) in an Indian tropical rain forest. **Primate Report (Germany)**. 83-95.
- Schwibbe, M., Singh, M., Kaumanns, W., & Knogge, C. 2000. Editors. **Primate Report (Germany)**. Volume 58.
- Singh, M., Lindburg, D.G., Udhayan, A., Kumar, M.A. & Kumara, H.N. 1999. Status survey of slender loris (*Loris tardigradus lydekkerianus*) in Dindigul, Tamil Nadu, India. **Oryx (England)**. Vol 33 (1):31-37.
- Singh, M. 1999. *Studies on the ecology, adaptation and evolution of sociality in non-human primates of south India*. Mimeographed. University of Mysore : Report submitted to Ministry of Environment & Forests on 5-Year project. Pages 234.
- Singh, M., Singh, Mridula, Kumar, M.A., Kumara, H.N., D'Souza, L., & Sharma, A.K. 1998. Behavior of lion-tailed macaque (*Macaca silenus*) in vulnerable and relatively secure habitats in rain forest of Western Ghats, India. **TigerPaper (Thailand)**, 25 (4), 19-25.
- Basavarajappa, Kaveri, K., D'Souza, L. & Singh, M. 1998. Analysis of defense mechanisms and normative data on CAT for Indian children. **Indian Journal of Clinical Psychology**, 25:50-56.
- Singh, M., D'Souza, L., Singh, Mridula, Venkatesh, G., & Manjunatha, S.C. 1997. An Experimental demonstration of induction and reduction of 'anxiety' in laboratory rats. **Indian Journal of Clinical Psychology**, 24:70-74.
- Kalaiah, P. & Singh, M. 1997. A package of treatment for stutterers. **Indian Journal of Clinical Psychology**, 24:144-149.
- Singh, M., Singh, Mridula, Kumar, M.A., Kumara, H.N., & D'Souza, L. 1997. Distribution and research potential of non-human primates in the Aliyar-Valparai sector of Indira Gandhi Wildlife Sanctuary, Tamil Nadu, India. **Tropical Biodiversity (Indonesia)**,4:197-208.
- Singh, M., Singh, Mridula, Kumara, H.N., Kumar, M.A., & D'Souza, L. 1997. Inter- and intra-specific associations of non-human primates in Anaimalai Hills, South India. **Mammalia (France)**, t.61:17-28.
- Singh, M., D'Souza, L., & Singh, Mridula. 1996. The effect of maternal protein deficiency on growth and behavior in albino rats. **Psychological Studies**, 41:108-114
- Singh, M., Venkatesh, G., D'Spouza, L. & Singh, MR. 1996. The effect of test anxiety, intelligence and failure stress on motor-perceptual learning. **Indian Journal of Clinical Psychology**, 23:156-160.
- D'Souza, L., Singh, Mridula & Singh, M. 1995. Effect of age on development and behavior in albino rats. **Psychological Studies**, 40:18-27.
- Vidyasagr, P. & Singh, M. 1993. Psychological aspects among the hearing impaired



- children. ***Journal of All India Institute of Speech and Hearing***, 24-25:20-25.
- Singh, M., D'Souza, L., & Singh, Mridula. 1992. Hierarchy, kinship and social interaction among Japanese monkeys (*Macaca fuscata*). ***Journal of Biosciences***, 17:15-27.
- D'Souza, L., & Singh, M. 1992. Density and demography in roadside bonnet monkeys (*Macaca radiata*) around Mysore. ***Journal of Ecobiology***, 4:87-93.
- D'Souza, L., Singh, Mridula & Singh, M. 1992. The behavioural effects of an ayurvedic drug Jyotismati (*Celastrus paniculatus*) on albino rats. ***Psychological Studies***, 37:114-120.
- Singh, M., D'Souza, L., & Singh, Mridula. 1991. The effect of numeric, spatial and resource crowding on behaviour of albino rats. ***Psychological Studies***, 36:156-168.
- D'Souza, L., Mridula, K., & Singh, M. 1990. The speed and the extent of learning to respond under discrimination conditions in rat. ***Psychological Studies***, 35:93-97.
- Singh, M., & Vinathe, S. 1990. Inter-population differences in the time budgets of bonnet monkey (*Macaca radiata*). ***Primates (Japan)***, 31:589-596.
- Shankar, S., & Singh, M. 1990. Inherited and rearing components of aggressive dominance and autonomic reactivity in the rat. ***Proceedings of Indian Academy of Sciences (Animal Sciences)***, 99:493-502.
- Singh, M. 1989. Acorus calamus, an Indian medicinal plant: Its effect on escape/avoidance learning and general activity in albino rats. ***Journal of Scientific Research on Plants and Medicine***, X:34-45.
- Singh, M. 1989. Maternal protein deficiency during different stages of gestation and behaviour of offspring in rats. ***Psychological Studies***, 34:15-20.
- Rudran, R., Wemmer, C.M., & Singh, M. 1988. Teaching applied ecology to nationals of developing countries. In Goodland, R. (Ed.), ***Race to Save the Tropics***. Washington DC: Island Press, pp. 125-140.
- Singh, M., Pillai, S., & Akram, N. 1987. Infant development and mother-infant interactions: An individual selection hypothesis. In Balakrishnan, M., & Alexander, K.M. (Eds.), ***Recent Trends in Ethology in India***. Bangalore: Ethological Society of India, pp. 138-144.
- Singh, M. 1986. Primate consciousness. In Else, J., & Lee, P.C. (Eds.), ***Primate Ontogeny, Cognition and Social Behaviour***, Cambridge: Cambridge University Press, (London) pp.43-51.
- Karant, K.U., & Singh, M. 1986. Dry zone afforestation and its impact on blackbuck populations. ***Journal of Bombay Natural History Society*** (Centenary Proceedings). 565-570.
- Shotake, T., Nozawa, K., Singh, M., Cyril, H.W., & Crusz, H. 1986. Genetic variability within and between Sri Lankan and Indian subspecies of the tamed Asian elephants. ***Report of the Society for Researches on Native Livestock (Japan)***,

11:215-221.

- Shotake, T., Singh, M., Kawamoto, Y., Hayasaka, K., & Nozawa, K. 1986. Genetic variability of the lion-tailed macaque (*Macaca silenus*). ***Journal of Anthropological Society of Nippon (Japan)***, 94:231.
- Pillai, S., & Singh, M. 1984. In search of an index of aggressive dominance in laboratory rats. In Rao, B.S., & Shetty, P.S. (Eds.), ***Studies in Animal Behaviour***, Bangalore: St John's Medical College, pp. 9-16.
- Singh, M., Akram, N., & Pirta, R.S. 1984. Evolution of demographic patterns in the bonnet monkey (*Macaca radiata*). In Roonwal, M.L., Mohnot, S.M., & Rathore, N.S. (Eds.), ***Current Primate Researches***, Jodhpur: Jodhpur University Press, pp.7-16.
- Karant, K.U., & Singh, M. 1982. *Status Survey of Ranebennur Blackbuck Sanctuary*. Mimeographed Research Project Report, World Wildlife Fund-India, Bangalore.
- Pirta, R.S., & Singh, M. 1982. Differences in home ranges of rhesus monkey (*Macaca mulatta*) groups living in three ecological habitats. ***Proceedings of Indian Academy of Sciences (Animal Sciences)***, 91:13-26.
- Pirta, R.S., Prakash, P., & Singh, M. 1981. A population study of two species of non-human primates : *Macaca mulatta* and *Macaca radiata*. ***Journal of Bombay Natural History Society***, 73:429-434.
- Pirta, R.S., & Singh, M. 1981. Forcible snatching and probable killing of infants by a rhesus (*Macaca mulatta*) alpha male in a wild habitat. ***Behaviour Analysis Letters (Holland)***, 1:339-344.
- Singh, M., & Pirta, R.S. 1980. Field experiments on separation effects in rhesus monkey. ***Indian Journal of Clinical Psychology***, 7:35-41.
- Singh, M., & Prakash, P. 1980. A Study of a Protolinguistic System of Communication in the Bonnet Macaques. Mimeographed Project Report, Central Institute of India Languages, Mysore.
- Singh, M., Prakash, P. & Pirta, R.S. 1980. Changing patterns of behaviour during the early stages of bonnet monkey *Macaca mulatta*. ***Proceedings of Indian Academy of Sciences (Animal Sciences)***, 89:101-108.
- Pirta, R.S., & Singh, M. 1980. Changes in the home ranges of rhesus monkey (*Macaca mulatta*) groups living in natural habitats. ***Proceedings of Indian Academy of Sciences (Animal Sciences)***, 89:515-525.
- Pirta, R.S., & Singh, M. 1978. Ecodevelopment of rhesus monkeys (*Macaca mulatta*) in forests of Doon Valley. In: Singh, L. (Ed.), ***Proceedings of Wildlife Workshop***, Dehradun, Zoological Survey of India, pp.151-157.
- Singh, M., & Pirta, R.S. 1978. Movement out of home range and disturbed behavior patterns in a group of bonnet monkeys: *Macaca radiata*. ***American Journal of***

***Physical Anthropology (USA)***, 49:265-269.

Pirta, R.S., & Singh, M. 1978. Establishment of home range, intraspecific and interspecific relations in rhesus monkeys (*Macaca mulatta*) under infant-infant rearing conditions. ***Proceedings of Indian Academy of Sciences (Animal Sciences)***, 87 B :267-278.

Singh, M., & Pirta, R.S. 1977. Hierarchical behaviour in 'peers-only' raised rhesus monkey (*Macaca mulatta*) infants: A qualitative observational study. ***Indian Journal of Behaviour***, 1:43-47.

Singh, M., & Pirta, R.S. 1977. Ethology and Skinnerian analysis: A logical synthesis for the possibility of a science of explanation of behaviour. ***Indian Journal of Behaviour***, 2:11-16.

Singh, M., & Sachdeva, R. 1977. Behaviour of juvenile bonnet monkey before and after his mother gives birth to a new baby. ***Primates (Japan)***, 18:605-610.

Singh, M. 1975. Mother-infant separation in rhesus monkey living in natural environment. ***Primates (Japan)***, 16:471-476.