

References

1. Abbas-Terki,T., Blanco-Bose,W., Deglon,N., Pralong,W. and Aebischer,P. (2002) Lentiviral-mediated RNA interference. *Hum. Gene Ther.*, **13**, 2197-2201.
2. Agrawal,N., Dasaradhi,P.V., Mohmmmed,A., Malhotra,P., Bhatnagar,R.K. and Mukherjee,S.K. (2003) RNA interference. Biology, mechanism, and applications. *Microbiol. Mol. Biol. Rev.*, **67**, 657-685.
3. Aikawa,M., Miller,L.H., Rabbege,J.R. and Epstein,N. (1981) Freeze-fracture study on the erythrocyte membrane during malarial parasite invasion. *J. Cell Biol.*, **91**, 55-62.
4. Al-Anouti,F. and Ananvoranich,S. (2002) Comparative analysis of antisense RNA, double-stranded RNA, and delta ribozyme-mediated gene regulation in *Toxoplasma gondii*. *Antisense Nucleic Acid Drug Dev.*, **12**, 275-281.
5. Bailly,E., Jambou,R., Savel,J. and Jaureguiberry,G. (1992) *Plasmodium falciparum*: differential sensitivity in vitro to E-64 (cysteine protease inhibitor) and Pepstatin A (aspartyl protease inhibitor). *J. Protozool.*, **39**, 593-599.
6. Bitko,V. and Barik,S. (2001) An endoplasmic reticulum-specific stress-activated caspase (caspase-12) is implicated in the apoptosis of A549 epithelial cells by respiratory syncytial virus. *J. Cell Biochem.*, **80**, 441-454.
7. Banerjee,R., Liu,J., Beatty,W., Pelosof,L., Klemba,M. and Goldberg,D.E. (2002) Four plasmepsins are active in the *Plasmodium falciparum* food vacuole, including a protease with an active-site histidine. *Proc. Natl. Acad. Sci. U S A.*, **99**, 990-995.
8. Bannister,L.H. (1977) Structural aspects of *Plasmodium* relevant to vaccination against malaria. *Trans. R Soc. Trop. Med. Hyg.*, **71**, 275-276.
9. Bass,B.L. (2000) Double-stranded RNA as a template for gene silencing. *Cell*, **101**, 235-238.

10. Barton.G.M. and Medzhitov,R. (2002) Retroviral delivery of small interfering RNA into primary cells. *Proc. Natl. Acad. Sci. U S A.*, **99**, 14943-14945.
11. Bastin,P., Ellis,K., Kohl,L. and Gull,K.I. (2000) Flagellum ontogeny in t trypanosomes studied via an inherited and regulated RNA interference system. *J. Cell Sci.*, **113**, 3321-3328.
12. Barker,R.H., Metelev,V, Rapaport,E. and Zamecnik,P. (1996) Inhibition of Plasmodium falciparum using antisense oligodeoxynucleoties. *Proc. Natl. Acad. Sci. USA.*, **93**, 514-518
13. Bernstein,E., Caudy,A.A., Hammond,S.M. and Hannon,G.J. (2001) Role for a bidentate ribonuclease in the initiation step of RNA interference. *Nature*, **409**, 363-366.
14. Boshier,J.M., Labouesse,M. (2000) RNA interference: genetic wand and genetic watchdog. *Nat. Cell Biol.*, **2**, E31-6.
15. Caplen,N.J. (2003) RNAi as a gene therapy approach. *Expert Opin. Biol. Ther.*, **4**, 575-586.
16. Catalanotto,C., Azzalin,G., Macino,G. and Cogoni,C. (2000) Gene silencing in worms and fungi. *Nature*, **44**, 245.
17. Catalanotto,C., Azzalin,G., Macino,G. and Cogoni,C. (2002) Involvement of small RNAs and role of the *qde* genes in the gene silencing pathway in *Neurospora*. *Genes Dev.*, **7**, 790-795.
18. Caudy,A.A., Ketting,R.F., Hammond,S.M., Denli,A.M., Bathorn,A.M., Tops,B.B., Silva,J.M., Myers,M.M., Hannon,G.J. and Plasterk,R.H. (2003) A micrococcal nuclease homologue in RNAi effector complexes. *Nature*, **425**, 411-414.

19. Caudy,A.A., Myers,M., Hannon,G.J. and Hammond,S.M. (2002) Fragile X-related protein and VIG associate with the RNA interference machinery. *Genes Dev.*, **16**, 2491-2496.
20. Clemens,C.J., Worby,C.A., Simonson-Leff,N., Muda,M., Maehama,T., Hemmings,B.A. and Dixon,J.E. (2000) use of double stranded RNA interference in *Drosophila* cell lines to dissect signal transduction pathways. *Proc. Natl. Acad. Sci. USA.*, **97**, 6499-6503.
21. Clarke,P.A. and Mathews,M.B. (1995) Interaction between double stranded RNA binding motif and RNA: Definition of binding site for the interferon induced protein kinase DAI (PKR) an adenovirus VA RNA. *RNA*, **1**, 7-20.
22. Cioca,D.P., Aoki,Y. and Kiyosawa,K. (2003) RNA interference is a functional pathway with therapeutic potential in human myeloid leukemia cell lines. *Cancer Gene Ther.*, **10**, 125-133.
23. Cogoni,C. and Macino,G. (1997) Isolation of quelling-defective (qde) mutants impaired in posttranscriptional transgene-induced gene silencing in *Neurospora crassa*. *Proc. Natl. Acad. Sci. U S A.*, **94**, 10233-10238.
24. Cogoni,C., Romano,N. and Macino,G. (1994) Suppression of gene expression by homologous transgenes. *Antonie Van Leeuwenhoek*, **65**, 205-209.
25. Cowman,A.F. and Crabb,B.S. (2003) Functional genomics: identifying drug targets for parasitic diseases. *Trends Parasitol.*, **19**, 538-543.
26. Cowman,A.F., Karcz,S., Galatis,D. and Culvenor,J.G. (1991) A P-glycoprotein homologue of *Plasmodium falciparum* is localized on the digestive vacuole. *J. Cell Biol.*, **113**, 1033-1042.
27. Crabb,B.S., Triglia,T., Waterkey,J.G. and Cowman,A.F. (1997) Stable transgene expression in *Plasmodium falciparum*. *Mol. Biochem. Parasitol.*, **90**, 131-144.

28. Dalmay,T., Hamilton,A., Rudd,S., Angell,S. and Baulcombe,D.C. (2000) An RNA-dependent RNA polymerase gene in *Arabidopsis* is required for posttranscriptional gene silencing mediated by a transgene but not by a virus. *Cell*, **10**, 543-553.
29. de Koning-Ward,T.F., Fidock,D.A., Thathy,V., Menard,R., Van Spaendonk,R.M., Waters,A.P. and Janse,C.J. (2000) The selectable marker human dihydrofolate reductase enables sequential genetic manipulation of the *Plasmodium berghei* genome. *Mol. Biochem. Parasitol.*, **106**, 199-212.
30. Desai,S.A., Krogstad,D.J. and McCleskey,E.W. (1993) A nutrient-permeable channel on the intraerythrocytic malaria parasite. *Nature*. **362**. 643-646.
31. Dhawan,S., Dua,M., Chishti,A.H. and Hanspal,M. (2003) Ankyrin peptide blocks falcipain-2-mediated malaria parasite release from red blood cells. *J. Biol. Chem.*, **278**, 30180-30186.
32. Divo,A.A., Vande Waa,J.A., Campbell,J.R. and Jensen,J.B. (1985) Isolation and cultivation of *Plasmodium falciparum* using adult bovine serum. *J. Parasitol.*, **71**, 504-509.
33. Domeier,M.E., Morse,D.P., Knight,S.W., Portereiko,M., Bass,B.L. and Mango, S.E. (2000) A link between RNA interference and nonsense-mediated decay in *Caenorhabditis elegans*. *Science*, **289**, 1928-1931.
34. Duraisingh,M.T., Triglia,T. and Cowman,A.F. (2002) Negative selection of *Plasmodium falciparum* reveals targeted gene deletion by double crossover recombination. *Int. J. Parasitol.*, **32**, 81-89.
35. Eggleston,K.K., Duffin,K.L. and Goldberg,D.E. (1999) Identification and characterization of falcilysin, a metallopeptidase involved in hemoglobin catabolism within the malaria parasite *Plasmodium falciparum*. *J. Biol. Chem.*, **274**, 32411-32417.

36. Elbashir,S.M., Harborth,J., Lendeckel,W., Yalcin,A., Weber,K. and Tuschl,T. (2001) Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells. *Nature*, **411**, 494-498.
37. Elbashir,S.M., Lendeckel,W. and Tuschl,T. (2001) RNA interference is mediated by 21- and 22-nucleotide RNAs. *Genes Dev.*, **15**, 188-200.
38. Elbashir,S.M., Martinez,J., Patkaniowska,A., Lendeckel,W. and Tuschl,T. (2001) Functional anatomy of siRNAs for mediating efficient RNAi in *Drosophila melanogaster* embryo lysate. *EMBO J.*, **20**, 6877-6888.
39. Elmendorf,H.G. and Haldar,K. (1993) Identification and localization of ERD2 in the malaria parasite *Plasmodium falciparum*: separation from sites of sphingomyelin synthesis and implications for organization of the Golgi. *EMBO J.*, **12**, 4763-4773.
40. Fire,A., Xu,S., Montgomery,M.K., Kostas,S.A., Driver,S.E. and Mello,C.C. (1998) Potent and specific genetic interference by double-stranded RNA in *Caenorhabditis elegans*. *Nature*, **391**, 806-811.
41. Francis,S.E., Gluzman,I.Y., Oksman,A., Banerjee,D. and Goldberg,D.E. (1996) Characterization of native falcipain, an enzyme involved in *Plasmodium falciparum* hemoglobin degradation. *Mol. Biochem. Parasitol.*, **83**, 189-200.
42. Fraser,A.G., Kamath,R.S., Zipperlen,P., Martinez-Campos,M. and Sohrmann,M., Ahringer,J. (2000) Functional genomic analysis of *C. elegans* chromosome I by systematic RNA interference. *Nature*, **408**, 325-330.
43. Gamboa de Dominguez,N.D., Rosenthal,P.J. (1996) Cysteine proteinase inhibitors block early steps in hemoglobin degradation by cultured malaria parasites. *Blood*, **87**, 4448-4454.

44. Gardner,M.J., Hall,N., Fung,E., White,O., Berriman,M., Hyman,R.W., Carlton,J.M., Pain,A., Nelson,K.E., Bowman,S., Paulsen,I.T., James,K., Eisen,J.A., Rutherford,K., Salzberg,S.L., Craig,A., Kyes,S., Chan,M.S., Nene,V., Shallom,S.J., Suh,B., Peterson,J., Angiuoli,S., Pertea,M., Allen,J., Selengut,J., Haft,D., Mather,M.W., Vaidya,A.B., Martin,D.M., Fairlamb,A.H., Fraunholz,M.J., Roos,D.S., Ralph,S.A., McFadden,G.I., Cummings,L.M., Subramanian,G.M., Mungall,C., Venter,J.C., Carucci,D.J., Hoffman,S.L., Newbold,C., Davis,R.W., Fraser,C.M. and Barrell,B. (2002) Genome sequence of the human malaria parasite *Plasmodium falciparum*. *Nature*, **419**, 498-511.
45. Gil,J., Alcamí,J. and Esteban,M. (1999) Induction of apoptosis by double-stranded-RNA-dependent protein kinase (PKR) involves the alpha subunit of eukaryotic translation initiation factor 2 and NF-kappaB. *Mol. Cell. Biol.*, **7**, 4653-4663.
46. Ginsburg,H., Kutner,S., Zangwil,M. and Cabantchik,Z.I. (1986) Selectivity properties of pores induced in host erythrocyte membrane by *Plasmodium falciparum*. Effect of parasite maturation. *Biochim. Biophys. Acta.* **861**, 194-196
47. Gluzman,I.Y., Francis,S.E., Oksman,A., Smith,C.E., Duffin,K.L. and Goldberg,D.E. (1994) Order and specificity of the *Plasmodium falciparum* hemoglobin degradation pathway. *J. Clin. Invest.*, **93**, 1602-1608.
48. Goldberg,D.E., Slater,A.F., Beavis,R., Chait,B., Cerami,A. and Henderson,G.B. (1991) Hemoglobin degradation in the human malaria pathogen *Plasmodium falciparum*: a catabolic pathway initiated by a specific aspartic protease. *J. Exp. Med.*, **173**. 961-969.
49. Goldberg,D.E., Slater,A.F., Cerami,A. and Henderson,G.B. (1990) Hemoglobin degradation in the malaria parasite *Plasmodium falciparum*: an

- ordered process in a unique organelle. *Proc. Natl. Acad. Sci. U S A.*, **87**, 2931-2935.
50. Goldberg,D.E. (1993) Hemoglobin degradation in *Plasmodium*-infected red blood cells. *Seminal Cell Biol.*, **4**, 355-361.
51. Goonewardene,R., Daily,J., Kaslow,D., Sullivan,T. J., Duffy,P., Carter,R., Mendis,K. and Wirth,D. (1993) Transfection of the malaria parasite and expression of firefly luciferase. *Proc. Natl. Acad. Sci. U.S.A.*, **90**, 5234-5236
52. Grams,J., Morris,J.C., Drew,M.E., Wang,Z., Englund,P.T. and Hajduk,S.L. (2002) A trypanosome mitochondrial RNA polymerase is required for transcription and replication. *J. Biol. Chem.*, **277**, 16952-16959.
53. Greenbaum,D.C., Baruch,A., Grainger,M., Bozdech,Z., Medzihradzsky,K.F., Engel,J., DeRisi,J., Holder,A.A. and Bogyo,M. (2002) A role for the protease Falcipain 1 in host cell invasion by the human malaria parasite. *Science*, **298**, 2002-2006.
54. Guerra-Giraldez,C., Quijada,L. and Clayton,C.E. (2002) Compartmentation of enzymes in a microbody, the glycosome, is essential in *Trypanosoma brucei*. *J. Cell Sci.*, **115**, 2651-2658.
55. Hadley,T.J. (1986) Invasion of erythrocytes by malaria parasites: a cellular and molecular overview. *Annu. Rev. Microbiol.*, **40**, 451-477.
56. Hamilton,A.J. and Baulcombe,D.C. (1999) A species of small antisense RNA in posttranscriptional gene silencing in plants. *Science*, **286**, 950-952.
57. Hammond,S.M., Bernstein,E., Beach,D. and Hannon,G.J. (2000) An RNA-directed nuclease mediates post-transcriptional gene silencing in *Drosophila* cells. *Nature*, **404**, 293-296.

58. Hammond,S.M., Boettcher,S., Caudy,A.A., Kobayashi,R. and Hannon,G.J. (2001) Argonaute2, a link between genetic and biochemical analyses of RNAi. *Science.*, **293**, 1146-1150.
59. Hammond,S.M., Caudy,A.A. and Hannon,G.J. (2001) Post-transcriptional gene silencing by double-stranded RNA. *Nat. Rev. Genet.*, **2**, 110-119.
60. Herold,A., Teixeira,L. and Izaurralde,E. (2003) Genome-wide analysis of nuclear mRNA export pathways in *Drosophila*. *EMBO J.*, **22**, 2472-2483.
61. Holen,T., Amarzguioui,M., Wiiger,M.T., Babaie,E. and Prydz,H. (2002) Positional effects of short interfering RNAs targeting the human coagulation trigger Tissue Factor. *Nucleic Acids Res.*, **30**, 1757-1766.
62. Hutvagner,G. and Zamore,P.D. (2002) RNAi: Nature abhors a double stranded RNA. *Curr.Opini. in Gen and Dev.*, **12**, 225-232.
63. Ishizuka,A., Siomi,M.C. and Siomi,H. (2002) A *Drosophila* fragile X protein i interacts with components of RNAi and ribosomal proteins. *Genes Dev.*, **16**, 2497-2508.
64. Kamath,R.S., Fraser,A.G., Dong,Y., Poulin,G., Durbin,R., Gotta,M., Kanapin,A., Le Bot,N., Moreno,S., Sohrmann,M., Welchman,D.P., Zipperlen,P. and Ahringer,J. (2003) Systematic functional analysis of the *Caenorhabditis elegans* genome using RNAi. *Nature*, **421**, 231-237.
65. Karcz,S.R., Herrmann,V.R., Trottein,F. and Cowman,A.F. (1994) Cloning and characterization of the vacuolar ATPase B subunit from *Plasmodium falciparum*. *Mol. Biochem. Parasitol.*, **65**, 123-133.
66. Ketting,R.F., Haverkamp,T.H., van Luenen,H.G. and Plasterk,R.H. (1999) Mut-7 of *C. elegans*, required for transposon silencing and RNA interference, is a homolog of Werner syndrome helicase and RNaseD. *Cell.*, **99**, 133-141.

67. Khvorova,A., Reynolds,A., Jayasena,S.D. (2003) Functional siRNAs and miRNAs exhibit strand bias. *Cell*, **115**, 209-216.
68. Kim,V.N. (2003) RNA interference in functional genomics and medicine. *J Korean Med, Sci.*, **3**, 309-318.
69. Knight,S.W. and Bass,B.L. (2001) role for the RNase III enzyme DCR-1 in RNA interference and germ line development in *Caenorhabditis elegans*. *Science*, **293**, 269-271.
70. Kolakovich,K.A., Gluzman,I.Y., Duffin,K.L., Goldberg,D.E. (1997) Generation of hemoglobin peptides in the acidic digestive vacuole of *Plasmodium falciparum* implicates peptide transport in amino acid production. *Mol. Biochem. Parasitol.*, **87**, 123-135.
71. Kumar,R., Adams,B., Oldenburg,A., Musiyenko,A. and Barik,S. (2002) Characterisation and expression of a PP1 serine/threonine protein phosphatase (PfPP1) from the malaria parasite, *Plasmodium falciparum*: demonstration of its essential role using RNA interference. *Malar. J.*, **1**, 5.
72. Lambros,C. and Vanderberg,J.P. (1979) Synchronisation of *Plasmodium falciparum* erythrocytic stage in culture., *J.Parasitol.*, **65**, 418-420.
73. Laemmli,U.K. (1970) Cleavage of structural proteins during the assembly of the head of bacteriophage T4. *Nature*, **227**, 680-685.
74. Lee,N.S., Dohjima,T., Bauer,G., Li,H., Li,M.J., Ehsani,A., Salvaterra,P. and Rossi,J. (2002) Expression of small interfering RNAs targeted against HIV-1 rev transcripts in human cells. *Nat.Biotechnol.*, **5**. 500-505.
75. Leeds,P., Wood,J.M., Lee,B.S. and Culbertson,M.R. (1992) Gene products that promote mRNA turnover in *Saccharomyces cerevisiae*. *Mol. Cell Biol.*, **2**, 2165-2177.

76. Lipardi,C., Wei,Q. and Paterson,B.M. (2001) RNAi as random degradative PCR.siRNA primers convert mRNA into dsRNAs that are degraded to generate new siRNAs. *Cell*, **107**, 297-307.
77. Lippincott-Schwartz,J. (1998) Cytoskeletal proteins and Golgi dynamics. *Curr. Opin. Cell Biol.*, **10**, 52-59.
78. Liu,Q., Rand,T.A., Kalidas,S., Du,F., Kim,H.E., Smith,D.P. and Wang,X. (2003) R2D2, a bridge between the initiation and effector steps of the *Drosophila* RNAi pathway. *Science*, **301**, 1921-1925.
79. Loria,P., Miller,S., Foley,M. and Tilley,L. (1999) Inhibition of the peroxidative degradation of haem as the basis of action of chloroquine and other quinoline antimalarials. *Biochem. J.*, **339**, 363-370.
80. Lyon,J.A., and Haynes,J.D. (1986) Plasmodium falciparum antigens synthesized by schizonts and stabilized at the merozoite surface when schizonts mature in the presence of protease inhibitors. *J.Immunol.*, **136**, 2245-2251.
81. Martens,H., Novotny,J., Oberstrass,J., Steck,T.L., Postlethwait,P., Nellen,W. (2002) RNAi in *Dictyostelium*: the role of RNA-directed RNA polymerases and double-stranded RNase. *Mol. Biol. Cell*, **3**, 445-453.
82. Martinez,L.A., Naguibneva,I., Lehrmann,H., Vervisch,A., Tchenio,T., Lozano,G., Harel-Bellan,A. (2002) Synthetic small inhibiting RNAs. efficient tools to inactivate oncogenic mutations and restore p53 pathways. *Proc.Natl. Acad. Sci U S A*. **99**. 14849-14854.
83. McCaffrey,A.P., Meuse,L., Pham,T.T., Conklin,D.S., Hannon,G.J., Kay,M.A. (2002) RNA interference in adult mice. *Nature*, **418**, 38-39.

84. McCormick,G.J. (1970) Amino acid transport and incorporation in red blood cells of normal and *Plasmodium knowlesi*-infected rhesus monkeys. *Exp Parasitol.*, **27**, 143-149.
85. McManus,M.T., Haines,B.B., Dillon,C.P., Whitehurst,C.E., van Parijs,L., Chen,J., Sharp,P.A. (2002) Small interfering RNA-mediated gene silencing in T lymphocytes. *J Immunol.*, **169**, 5754-5760.
86. McManus,M.T., Petersen,C.P., Haines,B.B., Chen,J., Sharp,P.A. (2002) Gene silencing using micro-RNA designed hairpins. *RNA*, **6**, 842-850.
87. McRobert.L. and McConkey. G.A. (2002) RNA interference (RNAi) inhibits growth of Plasmodium falciparum. *Mol. Biochem. Parasitol.*, **19**, 273-278
88. Mitchell,G.H. and Bannister,L.H. (1988) Malaria parasite invasion:interactions with the red cell membrane. *Crit. Rev. Oncol. Hematol.*, **8**, 225-310.
89. Miyagishi,M. and Taira,K. (2002) Development and application of siRNA expression vector. *Nucleic Acids Res. Suppl.*, **2**, 113-114.
90. Morris,J.C., Wang,Z., Drew,M.E. and Englund,P.T. (2002) Glycolysis modulates trypanosome glycoprotein expression as revealed by an RNAi library. *EMBO J.*, **21**, 4429-4438.
91. Myers,J.W., Jones,J.T., Meyer,T. and Ferrell,J.E.Jr. (2003) Recombinant Dicer efficiently converts large dsRNAs into siRNAs suitable for gene silencing. *Nat. Biotechnol.*, **3**, 324-328.
92. Napoli,C., Lemieux,C. and Jorgensen,R. (1990) Introduction of a Chimeric Chalçone Synthase Gene into *Petunia* Results in Reversible Co-Suppression of Homologous Genes in trans. *Plant Cell.* **2**, 279-289.

93. Ngo,H., Tschudi,C., Gull,K. and Ullu,E. (1998) Double-stranded RNA induces mRNA degradation in m *Trypanosoma brucei*. *Proc. Natl. Acad. Sci U S A*, **95**. 14687-14692.
94. Novina,C.D., Murray,M.F., Dykxhoorn,D.M., Beresford,P.J., Riess,J., Lee,S.K., Collman,R.G., Lieberman,J., Shankar,P. and Sharp,P.A. (2002) siRNA-directed inhibition of HIV-1 infection. *Nat. Med.*, **7**. 681-686.
95. Nykanen,A., Haley,B. and Zamore,P.D. (2001) ATP requirements and small interfering RNA structure in the RNA interference pathway. *Cell*, **107**, 309-321.
96. Paddison,P.J., Caudy,A.A. and Hannon,G.J. (2002) Stable suppression of gene expression by RNAi in mammalian cells. *Proc.Natl.Acad. Sci. U SA*. **99**, 1443-1448.
97. Paddison,P.J. and Hannon,G.J. (2003) siRNAs and shRNAs: skeleton keys to the human genome. *Curr. Opin. Mol. Ther.*, **5**, 217-224.
98. Paul,C.P., Good,P.D., Winer,I. and Engelke,D.R. (2002) Effective expression of small interfering RNA in human cells. *Nat. Biotechnol.*, **5**, 505-508.
99. Provost,P., Dishart,D., Doucet,J., Friendewey,D., Samuelsson,B. and Radmark,O. (2002) Ribonuclease activity and RNA binding of recombinant human Dicer. *EMBO J.*, **21**, 5864-5874.
100. Randall,G., Grakoui,A. and Rice,C.M. (2003) Clearance of replicating hepatitis C virus replicon RNAs in cell culture by small interfering RNAs. *Proc. Natl. Acad. Sci. U S A*. **100**, 235-240.
101. Rangachari,K., Dluzewski,A.R., Wilson,R.J. and Gratzer,W.B. (1987) Cytoplasmic factor required for entry of malaria parasites into RBCs. *Blood*, **70**, 77-82.

102. Rosenthal,P.J., McKerrow,J.H., Rasnick,D., Leech,J.H. (1989) *Plasmodium falciparum*: inhibitors of lysosomal cysteine proteinases inhibit a trophozoite proteinase and block parasite development. *Mol. Biochem. Parasitol.*, **35**, 177-183.
103. Rosenthal PJ. (2002) Hydrolysis of erythrocyte proteins by proteases of malaria parasites. *Curr. Opin. Hematol.*, **9**, 140-145.
104. Rosenthal,P.J., Semenov,A., Ploplis,V.A. and Plow,E.F. (1998) Plasminogen activators are not required in the erythrocytic life cycle of malaria parasites. *Mol.Biochem. Parasitol.*, **97**, 253-257.
105. Rosenthal,P.J., Olson,J.E., Lee,G.K., Palmer,J.T., Klaus,J.L. and Rasnick,D. (1996) Antimalarial effects of vinyl sulfone cysteine proteinase inhibitors. *Antimicrob. Agents Chemother.*, **40**, 1600-1603.
106. Rosenthal,P.J. and Nelson,R.G. (1992) Isolation and characterization of a cysteine proteinase gene of *Plasmodium falciparum*. *Mol. Biochem. Parasitol.*, **51**, 143-152.
107. Rosenthal,P.J. (1995) *Plasmodium falciparum*: Effects of proteinase inhibitors on globin . Hydrolysis by cultured malaria parasites. *Exp.Parasitol.*, **80**, 272-281.
108. Rapaport,E., Misiura,K., Agrawal,S. and Zamecnik,P. (1992) Antimalarials activities of oligodeoxynucleotides phosphorothioates in cloroquine-resistant *Plasmodium falciparum*. *Proc.Natl.Acad.Sci.USA.*, **89**, 8577-8580
109. Romano,N. and Macino,G. (1992) Quelling: transient inactivation of gene expression in *Neurospora crassa* by transformation with homologous sequences. *Mol.Microbiol.*, **6**, 3343-3353.

110. Salas,F., Fichmann,J., Lee,G.K., Scott,M.D. and Rosenthal,P.J. (1995) Functional expression of falcipain, a *Plasmodium falciparum* cysteine proteinase, supports its role as a malarial hemoglobinase. *Infect Immun*, **63**, 2120-2125.
111. Salmon,B.L., Oksman,A. and Goldberg,D.E. (2001) Malaria parasite exit from the host erythrocyte: a two-step process requiring extra-erythrocytic proteolysis. *Proc. Natl. Acad. Sci. U S A.*, **98**, 271-276.
112. Scherr,M., Morgan,M.A. and Eder,M. (2003) Gene silencing mediated by small interfering RNAs in mammalian cells. *Curr. Med. Chem.*, **10**, 245-256.
113. Schwarz,D.S., Hutvagner,G., Du,T., Xu,Z., Aronin,N. and Zamore,P.D. (2003) Asymmetry in the assembly of the RNAi enzyme complex. *Cell*, **115**, 199-208.
114. Schwarz,D.S, Hutvagner,G., Haley,B. and Zamore,P.D. (2002) Evidence that siRNAs function as guides, not primers, in the *Drosophila* and human RNAi pathways. *Mol. Cell*, **3**, 537-548.
115. Semenov,A., Olson,J.E. and Rosenthal,P.J. (1998) Antimalarial synergy of cysteine and aspartic protease inhibitors. *Antimicrob. Agents Chemother.*, **42**, 2254-2258.
116. Shen,C., Buck,A.K., Liu,X., Winkler,M. and Reske,S.N. (2003) Gene silencing by adenovirus-delivered siRNA. *FEBS Lett.*, **539**, 111-114.
117. Shenai,B.R., Sijwali,P.S., Singh,A. and Rosenthal,P.J. (2000) Characterization of native and recombinant Falcipain-2, a principal trophozoite cysteine protease and essential hemoglobinase of *Plasmodium falciparum*. *J.Biol. Chem.*, **275**. 29000-29010.

118. Sijen,T., Fleenor,J., Simmer,F., Thijssen,K.L., Parrish,S., Timmons,L., Plasterk,R.H. and Fire,A. (2001) On the role of RNA amplification in dsRNA-triggered gene silencing. *Cell*, **107**, 465-476.
119. Sijwali,P.S, Shenai,B.R, Gut,J., Singh,A. and Rosenthal,P.J. (2001) Expression and characterization of the *Plasmodium falciparum* hemoglobinase Falcipain-3. *Biochem. J.*, **360**, 481-489.
120. Slomianny,C. (1990) Three-dimensional reconstruction of the feeding process of the malaria parasite. *Blood Cells*, **16**, 369-378.
121. Song,E., Lee,S.K., Wang,J., Ince,N., Ouyang,N., Min,J., Chen,J., Shankar,P.and Lieberman,J. (2003) RNA interference targeting Fas protects mice from fulminant hepatitis. *Nat. Med.*, **9**, 347-351.
122. Tabara,H., Sarkissian,M., Kelly,W.G., Fleenor,J., Grishok,A., Timmons,L., Fire,A. and Mello,C.C. (1999) The *rde-1* gene, RNA interference, and transposon silencing in *C. elegans*. *Cell*, **99**, 123-132.
123. Trager,W. and Jensen,J.B. (1976) Human Malaria parasite in continuous culture. *Science*, **193**, 673-675.
124. Tijsterman,M., Ketting,R.F. and Plasterk,R.H. (2002) The genetics of RNA silencing. *Annu. Rev. Genet.*, **36**, 489-519.
125. Towbin,H., Staehelin,T. and Gordon,J. (1979) Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets:procedure and some applications. *Proc. Natl. Acad. Sci. U S A.* **76**, 4350-4354.
126. Tuschl,T., Zamore,P.D., Lehmann,R., Bartel,D.P. and Sharp,P.A. (1999) Targeted mRNA degradation by double-stranded RNA *in vitro*. *Genes Dev.*, **13**, 3191-3197.

127. Tuschl,T. (2002) Expanding small RNA interference. *Nat. Biotechnol.*, **20**, 446-448.
128. Ullu,E., Tschudi,C. (2000) RNAi- tool in Parasitology. *New Techn, Life.*, **6**, 43-46.
129. Van.Blokland,R., Vander.Geest,J., Mol,J.N.M. and Kooter,J.M. (1994) Transgene-mediated suppression of chalcone synthase expression in *Petunia* hybrid results from increase in RNA turnover. *Science*, **6**, 861-877.
130. van.Dijk,M.R., Waters,A.P. and Janse,C. J. (1995) Stable transfection of malaria parasite blood stages. *Science*, **268**, 1358-1362.
131. Waller,R.F., Reed,M.B., Cowman,A.F. and McFadden,G.I. (2000) Protein trafficking to the plastid of *Plasmodium falciparum* is via the secretory pathway. *EMBO J.*, **19**, 1794-1802.
132. Wianny,F. and Zernicka-Goetz,M. (2000) Specific interference with gene function by double-stranded RNA in early mouse development. *Nat. Cell Biol.* **2**, 70-75.
133. Wickham,M.E., Culvenor,J.G. and Cowman,A.F. (2003) Selective inhibition of a two-step egress of malaria parasites from the host erythrocyte. *J. Biol. Chem.* **278**, 37658-37663.
134. Wickham,M.E., Rug,M., Ralph,S.A., Klonis,N., McFadden,G.I., Tilley,L. and Cowman,A.F. (2001) Trafficking and assembly of the cytoadherence complex in *Plasmodium falciparum*-infected human erythrocytes. *EMBO J.*, **20**, 5636-5649.
135. Wilda,M., Fuchs,U., Wossmann,W. and Borkhardt,A. (2002) Killing of leukemic cells with a BCR/ABL fusion gene by RNA interference (RNAi). *Oncogene*, **21**, 5716-5724.

136. Wilson,J.A., Jayasena,S., Khvorova,A., Sabatino,S., Rodrigue-Gervais,I.G., Arya,S., Sarangi,F., Harris-Brandts,M., Beaulieu,S. and Richardson,C.D. (2003) RNA interference blocks gene expression and RNA synthesis from hepatitis C replicons propagated in human liver cells. *Proc. Natl. Acad. Sci. U S A.*, **100**, 2783-2788.
137. Wu,Y., Sifri,C.D., Lei,H.H., Su,X.Z. and Wellems,T.E. (1995) Transfection of *Plasmodium falciparum* within human red blood cells. *Proc. Natl. Acad. Sci. U.S.A.*, **92**, 973-977.
138. Wu-Scharf,D., Jeong,B., Zhang,C. and Cerutti,H. (2000) Transgene and transposon silencing in *Chlamydomonas reinhardtii* by a DEAH-box RNA helicase. *Science*, **290**, 1159-1162.
139. Yoshida,N., Nussenzweig,R.S., Potocnjak,P., Nussenzweig,V. and Aikawa,M. (1980) Hybridoma produces protective antibodies directed against the sporozoite stage of malaria parasite. *Science*, **207**, 71-73.
140. Yu,J.Y., DeRuiter,S.L. and Turner,D.L. (2002) RNA interference by expression of short-interfering RNAs and hairpin RNAs in mammalian cells. *Proc. Natl. Acad. Sci. U S A.*, **99**, 6047-6152.
141. Zamore,P.D., Tuschl,T., Sharp,P.A. and Bartel,D.P. (2000) RNAi double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals. *Cell*, **101**, 25-33.
142. Zarchin,S., Krugliak,M. and Ginsburg,H.(1986) Digestion of the host erythrocyte by malaria parasites is the primary target for quinoline-containing antimalarials. *Biochem. Pharmacol.*, **35**, 2435-42.
143. Zeng,Y. and Cullen,B.R. (2002) RNA interference in human cells is restricted to the cytoplasm. *RNA*, **7**, 855-860.

144. Zhang, Y.Q., Bailey, A.M., Matthies, H.J., Renden, R.B., Smith, M.A., Speese, S.D., Rubin, G.M. and Broadie, K. (2001) *Drosophila* fragile X-related gene regulates the MAP1B homolog Futsch to control synaptic structure and function. *Cell*, **107**, 591-600.
145. Zipperlen, P., Fraser, A.G., Kamath, R.S., Martinez-Campos, M. and Ahringer, J. (2001) Roles for 147 embryonic lethal genes on *C. elegans* chromosome I identified by RNA interference and video microscopy. *EMBO J.*, **15**, 3984-3992.
146. Zoraghi, R. and Seebeck, T. (2002) The cAMP-specific phosphodiesterase *TbPDE2C* is an essential enzyme in bloodstream form *Trypanosoma brucei*. *Proc. Natl. Acad. Sci U S A.* **99**, 4343-4348.