

## RIGHT Publications

2009

**A large-scale chemical modification screen identifies design rules to generate siRNAs with high activity, high stability and low toxicity.**

Bramsen JB, Laursen MB, Nielsen AF, Hansen TB, Bus C, Langkjær N, Babu BR, Højland T, Abramov M, Van Aerschot A, Odadzic D, Smicius R, Haas J, Andree C, Barman J, Wenska M, Srivastava P, Zhou C, Honcharenko D, Hess S, Müller E, Bobkov GV, Mikhailov SN, Fava E, [Meyer TF](#), [Chattopadhyaya J](#), [Zerial M](#), [Engels JW](#), [Herdewijn P](#), [Wengel J](#), [Kjems J](#).

*Nuc Acid Res.* 2009

**A new molecular network comprising PU.1, interferon regulatory factor proteins and miR-342 stimulates ATRA-mediated granulocytic differentiation of acute promyelocytic leukemia cells.**

De Marchis ML, Ballarino M, Salvatori B, Puzzolo MC, [Bozzoni I](#), Fatica A.

*Leukemia.* 2009

**Stable knockdown of microRNA in vivo by lentiviral vectors.**

Gentner B, Schira G, Giustacchini A, Amendola M, Brown BD, Ponzoni M, [Naldini L](#).

*Nat Methods.* 2009

**Fine tuning of electrostatics around the internucleotidic phosphate through incorporation of modified 2',4'-carbocyclic-LNAs and -ENAs leads to significant modulation of antisense properties.**

Zhou C, Liu Y, Andaloussi M, Badgujar N, Plashkevych O, [Chattopadhyaya J](#).

*J Org Chem.* 2009

2008

**Hierarchical involvement of Bak, VDAC1 and Bax in cisplatin-induced cell death.**

Tajeddine N, Galluzzi L, Kepp O, Hangen E, Morselli E, Senovilla L, Araujo N, Pinna G, Larochette N, Zamzami N, Modjtahedi N, [Harel-Bellan A](#), [Kroemer G](#).

*Oncogene.* 2008

**Efficient nucleic acid transduction with lipoplexes containing novel piperazine- and polyamine-conjugated cholesterol derivatives.**

Islam RU, Hean J, van Otterlo WA, de Koning CB, [Arbuthnot P](#).

*Bioorg Med Chem Lett.* 2008

**Efficient Inhibition of Hepatitis B Virus Replication In Vivo using PEG-modified Adenovirus Vectors.**

Crowther C, Ely A, Hornby J, Mufamadi MS, Salazar F, Marion P, [Arbuthnot P](#).

*Hum Gene Ther.* 2008

**Expressed anti-HBV primary microRNA shuttles inhibit viral replication**

**efficiently in vitro and in vivo.**

Ely A, Naidoo T, Mufamadi S, Crowther C, [Arbuthnot P.](#)

*Mol Ther.* 2008

**Harnessing the RNA interference pathway to advance treatment and prevention of hepatocellular carcinoma.**

[Arbuthnot P.](#) , Thompson LJ.

*World J Gastroenterol.* 2008

**Systemic Delivery of DNA or siRNA Mediated by Linear Polyethylenimine (L-PEI) Does Not Induce an Inflammatory Response.**

Bonnet ME, [Erbacher P.](#), Bolcato-Bellemin AL.

*Pharm Res.* 2008

**Modulation of Pyrene Fluorescence in DNA Probes Depends upon the Nature of the Conformationally Restricted Nucleotide.**

Honcharenko D, Zhou C, [Chattopadhyaya J.](#)

*J Org Chem.*2008

**Unusual radical 6-endo cyclization to carbocyclic-ENA and elucidation of its solution conformation by 600 MHz NMR and ab initio calculations.**

Zhou C, Plashkevych O, [Chattopadhyaya J.](#)

*Org Biomol Chem.* 2008

**The anaplastic lymphoma kinase in the pathogenesis of cancer.**

Chiarle R, Voena C, Ambrogio C, Piva R, [Inghirami G.](#)

*Nat Rev Cancer.* 2008

**Expression characteristics of triplet repeat-containing RNAs and triplet repeat-interacting proteins in human tissues.**

Jasinska AJ, Kozlowski P, [Krzyzosiak WJ.](#)

*Acta Biochim Pol.*2008

**Reduced display of tumor necrosis factor receptor I at the host cell surface supports infection with Chlamydia trachomatis.**

Paland N, Böhme L, Gurusurthy RK, Mäurer A, Szczepek AJ, [Rudel T.](#)

*J Biol Chem.*2008

**Systemic AAV6 delivery mediating RNA interference against SOD1: neuromuscular transduction does not alter disease progression in fALS mice.**

Towne C, Raoul C, Schneider BL, [Aebischer P.](#)

*Mol Ther.*2008

**Preparation of Zwitterionic Ribonucleoside Phosphoramidites for Solid-Phase siRNA Synthesis.**

Smicius R, [Engels JW.](#)

*J Org Chem.2008*

**Role of microRNAs in myeloid differentiation.**

Fatica A, Rosa A, Ballarino M, De Marchis ML, Rasmussen KD, [Bozzoni I](#).  
*Biochem Soc Trans. 2008*

**Long-Term Benefit of Adeno-Associated Virus/Antisense-Mediated Exon Skipping in Dystrophic Mice.**

Denti MA, Incitti T, Sthandier O, Nicoletti C, De Angelis FG, Rizzuto E, Auricchio A, Musarò A, [Bozzoni I](#).  
*Hum Gene Ther.2008*

**Critical involvement of the ATM-dependent DNA damage response in the apoptotic demise of HIV-1-elicited syncytia.**

Perfettini JL, Nardacci R, Bourouba M, Subra F, Gros L, Séror C, Manic G, Rosselli F, Amendola A, Masdehors P, Chessa L, Novelli G, Ojcius DM, Siwicki JK, Chechlinska M, Auclair C, Regueiro JR, de Thé H, Gougeon ML, Piacentini M, [Kroemer G](#). .  
*PLoS ONE. Ther.2008*

**The anticancer immune response: indispensable for therapeutic success?**

Zitvogel L, Apetoh L, Ghiringhelli F, André F, Tesniere A, [Kroemer G](#). .  
*J Clin Invest. 2008*

**The co-translocation of ERp57 and calreticulin determines the immunogenicity of cell death.**

Panaretakis T, Joza N, Modjtahedi N, Tesniere A, Vitale I, Durchschlag M, Fimia GM, Kepp O, Piacentini M, Froehlich KU, van Endert P, Zitvogel L, Madeo F, [Kroemer G](#). .  
*Cell Death Differ. 2008*

**Regulation of autophagy by cytoplasmic p53.**

Tasdemir E, Maiuri MC, Galluzzi L, Vitale I, Djavaheri-Mergny M, D'Amelio M, Criollo A, Morselli E, Zhu C, Harper F, Nannmark U, Samara C, Pinton P, Vicencio JM, Carnuccio R, Moll UM, Madeo F, Paterlini-Brechot P, Rizzuto R, Szabadkai G, Pierron G, Blomgren K, Tavernarakis N, Codogno P, Cecconi F, [Kroemer G](#). .  
*Nat Cell Biol. 2008*

**Autophagy in the pathogenesis of disease.**

Levine B, [Kroemer G](#). .  
*Cell. 2008*

**Molecular characteristics of immunogenic cancer cell death.**

Tesniere A, Panaretakis T, Kepp O, Apetoh L, Ghiringhelli F, Zitvogel L, [Kroemer G](#). .  
*Cell Death Differ. 2008*

**Reduction of endoplasmic reticulum Ca<sup>2+</sup> levels favors plasma membrane surface exposure of calreticulin.**

Tufi R, Panaretakis T, Bianchi K, Criollo A, Fazi B, Di Sano F, Tesniere A, Kepp O, Paterlini-Brechot P, Zitvogel L, Piacentini M, Szabadkai G, [Kroemer G](#). .  
*Cell Death Differ. 2008*

**Erlotinib exhibits antineoplastic off-target effects in AML and MDS: a**

**preclinical study.**

Boehrer S, Adès L, Braun T, Galluzzi L, Grosjean J, Fabre C, Le Roux G, Gardin C, Martin A, de Botton S, Fenaux P, [Kroemer G](#).  
*Blood*. 2008

**Investigation of particle-functionalized tissue engineering scaffolds using X-ray tomographic microscopy.**

Nygaard JV, Andersen MØ, Howard KA, Foss M, Bünger C, [Kjems J](#), Besenbacher F.  
*Biotechnol Bioeng*. 2008

**Comparative genomics beyond sequence-based alignments: RNA structures in the ENCODE regions.**

Torarinsson E, Yao Z, Wiklund ED, Bramsen JB, Hansen C, [Kjems J](#), Tommerup N, Ruzzo WL, Gorodkin J.  
*Genome Res*. 2008

**Intracellular siRNA and precursor miRNA trafficking using bioresponsive copolypeptides.**

Rahbek UL, Howard KA, Oupicky D, Manickam DS, Dong M, Nielsen AF, Hansen TB, Besenbacher F, [Kjems J](#).  
*J Gene Med*. 2008

**Delivery of siRNA from lyophilized polymeric surfaces.**

Andersen MØ, Howard KA, Paludan SR, Besenbacher F, [Kjems J](#).  
*Biomaterials*. 2008

**An in vivo model of Met-driven lymphoma as a tool to explore the therapeutic potential of Met inhibitors.**

Accornero P, Lattanzio G, Mangano T, Chiarle R, Taulli R, Bersani F, Forni PE, Miretti S, Scuoppo C, Dastrù W, Christensen JG, Crepaldi T, [Ponzetto C](#).  
*Clin Cancer Res*. 2008

**Bortezomib-mediated proteasome inhibition as a potential strategy for the treatment of rhabdomyosarcoma.**

Bersani F, Taulli R, Accornero P, Morotti A, Miretti S, Crepaldi T, [Ponzetto C](#).  
*Eur J Cancer*. 2008

**2007****Improved silencing properties using small internally segmented interfering RNAs.**

Bramsen JB, Laursen MB, Damgaard CK, [Lena SW](#), Babu BR, [Wengel J](#), [Kjems J](#).  
*Nucleic Acids Res*. 2007

**Efficient inhibition of HIV-1 expression by LNA modified antisense oligonucleotides and DNazymes targeted to functionally selected binding sites.**

Jakobsen MR, Haasnoot J, [Wengel J](#), Berkhout B, [Kjems J](#).

*Retrovirology* 2007

**Synthesis of 2'-O-modified adenosine building blocks and application for RNA interference.**

Odadzic D, Bramsen JB, Smicius R, Bus C, [Kjems J](#), [Engels JW](#).

*Bioorg Med Chem.* 2007

**A novel epidermal growth factor receptor inhibitor promotes apoptosis in non-small cell lung cancer cells resistant to erlotinib.**

De la Motte Rouge T, Galluzzi L, Olausson K, Zermati Y, Tasdemir E, Robert T, Ripoche H, Lazar V, Dessen P, Harper F, Pierron G, Pinna G, Araujo N, [Harel-Bellan A](#), Armand JP, Soria JC, [Kroemer G](#).

*Cancer Res.* 2007

**Endogenous microRNA can be broadly exploited to regulate transgene expression according to tissue, lineage and differentiation state.**

Brown BD, Gentner B, Cantore A, Colleoni S, Amendola M, Zingale A, Baccarini A, Lazzari G, Galli C, [Naldini L](#).

*Nat Biotechnol.* 2007

**A microRNA-regulated lentiviral vector mediates stable correction of hemophilia B mice.**

Brown BD, Cantore A, Annoni A, Sergi L, Lombardo A, Della Valle P, D'Angelo A, [Naldini L](#).

*Blood* 2007

**The Inhibitory Efficacy of RNA POL III-Expressed Long Hairpin RNAs Targeted to Untranslated Regions of the HIV-1 5' Long Terminal Repeat.**

Barichievy S, Saayman S, von Eije KJ, Morris KV, [Arbuthnot P](#), Weinberg MS.

*Oligonucleotides* 2007

**Opportunities for treating chronic hepatitis B and C virus infection using RNA interference.**

[Arbuthnot P](#), Longshaw V, Naidoo T, Weinberg MS.

*J Viral Hepat.* 2007

**Specific inhibition of HBV replication in vitro and in vivo with expressed long hairpin RNA.**

Weinberg MS, Ely A, Barichievy S, Crowther C, Mufamadi S, Carmona S, [Arbuthnot P](#).

*Mol Ther.* 2007

**Effective anti-hepatitis B virus hammerhead ribozymes derived from multimeric precursors.**

Weinberg MS, Ely A, Passman M, Mufamadi SM, [Arbuthnot P](#).

*Oligonucleotides* 2007

**The interplay between the master transcription factor PU.1 and miR-424 regulates human monocyte/macrophage differentiation.**

Rosa A, Ballarino M, Sorrentino A, Sthandier O, De Angelis FG, Marchioni M,

Masella B, Guarini A, Fatica A, Peschle C, [Bozzoni I](#).

*Proc Natl Acad Sci U S A. 2007*

**The interplay between microRNAs and the neurotrophin receptor tropomyosin-related kinase C controls proliferation of human neuroblastoma cells.**

Laneve, P Di Marcotullio, L Gioia, U, E Fiori M E, Ferretti E, Gulino A, [Bozzoni I](#), Caffarelli E.

*Proc Natl Acad Sci U S A. 2007*

**Emerging role for microRNAs in acute promyelocytic leukemia.**

Nervi C, Fazi F, Rosa A, Fatica A, [Bozzoni I](#).

*Curr Top Microbiol Immunol. 2007*

**Heterochromatic gene repression of the retinoic acid pathway in acute myeloid leukemia.**

Fazi F, Zardo G, Gelmetti V, Travaglini L, Ciolfi A, Di Croce L, Rosa A, [Bozzoni I](#), Grignani F, Lo Coco F, Pelicci PG, Nervi C.

*Blood 2007*

**Ribonuclease Dicer cleaves triplet repeat hairpins into shorter repeats that silence specific targets.**

Krol J, Fiszer A, Mykowska A, Sobczak K, de Mezer M, [Krzyzosiak WJ](#).

*Mol Cell. 2007*

**CAG and CTG repeat polymorphism in exons of human genes shows distinct features at the expandable loci.**

Rozanska M, Sobczak K, Jasinska A, Napierala M, Kaczynska D, Czerny A, Koziel M, Kozlowski P, Olejniczak M, [Krzyzosiak WJ](#).

*Hum Mutat. 2007*

**Comparative genomics beyond sequence-based alignments: RNA structures in the ENCODE regions.**

Torarinsson E, Yao Z, Wiklund ED, Bramsen JB, Hansen C, [Kjems J](#), Tommerup N, Ruzzo WL, Gorodkin J.

*Genome Res. 2007*

**Nanocarrier stimuli-activated gene delivery.**

Howard KA, Dong M, Oupicky D, Bisht HS, Buss C, Besenbacher F, [Kjems J](#).

*Small 2007*

**Delivery of siRNA from lyophilized polymeric surfaces.**

Andersen MØ, Howard KA, Paludan SR, Besenbacher F, [Kjems J](#).

*Biomaterials 2007*

**Intracellular siRNA and precursor miRNA trafficking using bioresponsive copolypeptides.**

Rahbek UL, Howard KA, Oupicky D, Manickam DS, Dong M, Nielsen AF, Hansen TB, Besenbacher F, [Kjems J](#).

*Biomaterials 2007*

**Polycation-based nanoparticle delivery for improved RNA interference therapeutics.**

Howard KA, [Kjems J](#).

*Expert Opin Biol Ther.* 2007

**Direct force measurements between siRNA and chitosan molecules using force spectroscopy.**

Xu S, Dong M, Liu X, Howard KA, [Kjems J](#), Besenbacher F.

*Biophys J.* 2007

**Translational repression of E2F1 mRNA in carcinoma in situ and normal testis correlates with expression of the miR-17-92 cluster.**

Novotny GW, Sonne SB, Nielsen JE, Jonstrup SP, Hansen MA, Skakkebaek NE, Meyts ER, [Kjems J](#), Leffers H.

*Cell Death Differ.* 2007

**The influence of polymeric properties on chitosan/siRNA nanoparticle formulation and gene silencing.**

Liu X, Howard KA, Dong M, Andersen MO, Rahbek UL, Johnsen MG, Hansen OC, Besenbacher F, [Kjems J](#).

*Biomaterials* 2007

**Reduced display of tumor necrosis factor receptor I at the host cell surface supports infection with *Chlamydia trachomatis*.**

Paland N, Böhme L, Gurumurthy RK, Mäurer A, Szczepek AJ, [Rudel T](#).

*J Biol Chem.* 2007

**Smac/DIABLO is required for effector caspase activation during apoptosis in human cells.**

Rajalingam K, Oswald M, Gottschalk K, [Rudel T](#).

*Apoptosis.* 2007

**NF-kappaB inhibition sensitizes to starvation-induced cell death in high-risk myelodysplastic syndrome and acute myeloid leukemia.**

Fabre C, Carvalho G, Tasdemir E, Braun T, Ades L, Grosjean J, Boehrer S, Metivier D, Souquere S, Pierron G, Fenaux P, [Kroemer G](#).

*Oncogene.* 2007

**Calreticulin exposure dictates the immunogenicity of cancer cell death.**

Obeid M, Tesniere A, Ghiringhelli F, Fimia GM, Apetoh L, Perfettini JL, Castedo M, Mignot G, Panaretakis T, Casares N, Metivier D, Larochette N, van Endert P, Ciccocanti F, Piacentini M, Zitvogel L, [Kroemer G](#).

*Nat Med.* 2007

**Functional and physical interaction between Bcl-X(L) and a BH3-like domain in Beclin-1.**

Maiuri C, Le Toumelin G, Criollo O, Rain J-C, Gautier F, Juin, Tasdemir E, Pierron G, Troulinaki K, Tavernarakis N, Hickman JA, Geneste O, [Kroemer G](#).

*EMBO J.* 2007

**Depletion of endonuclease g selectively kills polyploid cells.**

Büttner S, Carmono-Gutierrez D, Vitale I, Castedo M, Rull D, Eisenberg T, [Kroemer G](#), Madeo F.

*Cell Cycle. 2007*

**Five- and six-membered conformationally locked 2',4'-carbocyclic ribothymidines: synthesis, structure, and biochemical studies.**

Srivastava P, Barman J, Pathmasiri W, Plashkevych O, Wenska M, [Chattopadhyaya J](#).

*J Am Chem Soc. 2007*

**Chemical and structural implications of 1',2'- versus 2',4'- conformational constraints in the sugar moiety of modified thymine nucleosides.**

Plashkevych O, Chatterjee S, Honcharenko D, [Chattopadhyaya J](#).

*J Org Chem. 2007*

**Comparison of the RNase H cleavage kinetics and blood serum stability of the north-conformationally constrained and 2'-alkoxy modified oligonucleotides.**

Honcharenko D, Barman J, Varghese OP, [Chattopadhyaya J](#).

*Biochemistry. 2007*

**High quality oligo-RNA synthesis using the New 2'-O-TEM protecting group by selectively quenching the addition of p-tolyl vinyl sulphone to exocyclic amino functions**

C Zhou, W Pathmasiri, D Honcharenko, S Chatterjee, J Barman, [Chattopadhyaya J](#).

*Can J Chem. 2007*

**2-(4-Tolylsulfonyl)ethoxymethyl (TEM)-a new 2'-OH protecting group for solid-supported RNA synthesis.**

Zhou C, Honcharenko D, [Chattopadhyaya J](#).

*Org Biomol Chem. 2007*

**RNAi activity of siRNAs modified with 2'-aminoalkyl-substituted fluorinated nucleobases.**

Haas J, Mueller-Kuller T, Klein S, [Engels JW](#) .

*Nucleosides Nucleotides Nucleic Acids. 2007*

**Different strategies for the synthesis of 2'-O-aminoethyl adenosine building blocks.**

Odadzic D, [Engels JW](#) .

*Nucleosides Nucleotides Nucleic Acids. 2007*

## 2006

**Endogenous microRNA regulation suppresses transgene expression in hematopoietic lineages and enables stable gene transfer.**

Brown BD, Venneri MA, Zingale A, Sergi LS, [Naldini L](#).

*Nat Med. 2006*

**The microRNA miR-181 targets the homeobox protein Hox-A11 during mammalian myoblast differentiation.**

Naguibneva I, Ameyar-Zazoua M, Polesskaya A, Ait-Si-Ali S, Groisman R, Souidi M,



Cuvellier S, [Harel-Bellan A.](#)

*Nat Cell Biol.* 2006

**An LNA-based loss-of-function assay for micro-RNAs.**

Naguibneva I, Ameyar-Zazoua M, Nonne N, Poleskaya A, Ait-Si-Ali S, Groisman R, Souidi M, Pritchard LL, [Harel-Bellan A.](#)

*Biomed Pharmacother.* 2006

**Ablation of oncogenic ALK is a viable therapeutic approach for anaplastic large-cell lymphomas.**

Piva R, Chiarle R, Manazza AD, Taulli R, Simmons W, Ambrogio C, D'Escamard V, Pellegrino E, [Ponzetto C](#), Palestro G, [Inghirami G.](#)

*Blood.* 2006

**Functional validation of the anaplastic lymphoma kinase signature identifies CEBPB and BCL2A1 as critical target genes.**

Piva R, Pellegrino E, Mattioli M, Agnelli L, Lombardi L, Boccalatte F, Costa G, Ruggeri BA, Cheng M, Chiarle R, Palestro G, Neri A, [Inghirami G.](#)

*J Clin Invest.* 2006

**Validation of met as a therapeutic target in alveolar and embryonal rhabdomyosarcoma.**

Taulli R, Scuoppo C, Bersani F, Accornero P, Forni PE, Miretti S, Grinza A, Allegra P, Schmitt-Ney M, Crepaldi T, [Ponzetto C.](#)

*Cancer Res.* 2006

**c-Myb is an essential downstream target for homeobox-mediated transformation of hematopoietic cells.**

Hess JL, Bittner CB, Zeisig DT, Bach C, Fuchs U, [Borkhardt A](#), Frampton J, Slany RK.

*Blood.* 2006

**Chemosensitization by knockdown of adenine nucleotide translocase-2.**

Le Bras M, Borgne-Sanchez A, Touat Z, El Dein OS, Deniaud A, Maillier E, Lecellier G, Rebouillat D, Lemaire C, [Kroemer G](#), Jacotot E, Brenner C.

*Cancer Res.* 2006

**Inhibition of NEMO, the regulatory subunit of the IKK complex, induces apoptosis in high-risk myelodysplastic syndrome and acute myeloid leukemia.**

Carvalho G, Fabre C, Braun T, Grosjean J, Ades L, Agou F, Tasdemir E, Boehrer S, Israel A, Veron M, Fenaux P, [Kroemer G.](#)

*Oncogene.* 2006

**hTERT: a novel endogenous inhibitor of the mitochondrial cell death pathway.**

Massard C, Zermati Y, Pauleau AL, Larochette N, Metivier D, Sabatier L, [Kroemer G](#), Soria JC.

*Oncogene* 2006

**GAPDH, a novel regulator of the pro-apoptotic mitochondrial membrane**

**permeabilization.**

Tarze A, Deniaud A, Le Bras M, Maillier E, Molle D, Larochette N, Zamzami N, Jan G, [Kroemer G](#), Brenner C.

*Oncogene* 2006

**HIV-1 protease inhibitors and cytomegalovirus vMIA induce mitochondrial fragmentation without triggering apoptosis.**

Roumier T, Szabadkai G, Simoni AM, Perfettini JL, Paulau AL, Castedo M, Metivier D, Badley A, Rizzuto R, [Kroemer G](#).

*Cell Death Differ.* 2006

**Targeting NF-kappaB in hematologic malignancies.**

Braun T, Carvalho G, Fabre C, Grosjean J, Fenaux P, [Kroemer G](#).

*Cell Death Differ.* 2006

**NF-kappaB constitutes a potential therapeutic target in high-risk myelodysplastic syndrome.**

Braun T, Carvalho G, Coquelle A, Vozenin MC, Lepelley P, Hirsch F, Kiladjian JJ, Ribrag V, Fenaux P, [Kroemer G](#).

*Blood.* 2006

**Cytopathic effects of the cytomegalovirus-encoded apoptosis inhibitory protein vMIA.**

Poncet D, Pauleau AL, Szabadkai G, Voza A, Scholz SR, Le Bras M, Briere JJ, Jalil A, Le Moigne R, Brenner C, Hahn G, Wittig I, Schagger H, Lemaire C, Bianchi K, Souquere S, Pierron G, Rustin P, Goldmacher VS, Rizzuto R, Palmieri F, [Kroemer G](#).

*J Cell Biol.* 2006

**Interactions of drugs and an oligonucleotide with charged membranes analyzed by immobilized liposome chromatography.**

Lundquist A, Engvall C, Boija E, Kurtovic S, [Chattopadhyaya J](#), Hagglund CL, Lundahl P.

*Biomed Chromatogr.* 2006

**Conformationally constrained 2'-N,4'-C-ethylene-bridged thymidine (aza-ENA-T): synthesis, structure, physical, and biochemical studies of aza-ENA-T-modified oligonucleotides.**

Varghese OP, Barman J, Pathmasiri W, Plashkevych O, Honcharenko D, [Chattopadhyaya J](#).

*J Am Chem Soc.* 2006

**The chemical nature of the 2'-substituent in the pentose-sugar dictates the pseudoaromatic character of the nucleobase (pKa) in DNA/RNA.**

Chatterjee S, Pathmasiri W, Plashkevych O, Honcharenko D, Varghese OP, Maiti M, [Chattopadhyaya J](#).

*Org Biomol Chem.* 2006

**Non-identical electronic characters of the internucleotidic phosphates in RNA modulate the chemical reactivity of the phosphodiester bonds.**

Barman J, Acharya S, Zhou C, Chatterjee S, Engstrom A, [Chattopadhyaya J](#).

*Org Biomol Chem.* 2006

**Synthesis and structure of novel conformationally constrained 1',2'-azetidine-fused bicyclic pyrimidine nucleosides: their incorporation into oligo-DNAs and thermal stability of the heteroduplexes.**

Honcharenko D, Varghese OP, Plashkevych O, Barman J, [Chattopadhyaya J](#).  
*J Org Chem*. 2006

**A microRNA detection system based on padlock probes and rolling circle amplification.**

Jonstrup SP, Koch J, [Kjems J](#).  
*RNA* 2006

**RNA interference in vitro and in vivo using a novel chitosan/siRNA nanoparticle system.**

Howard KA, Rahbek UL, Liu X, Damgaard CK, Glud SZ, Andersen MO, Hovgaard MB, Schmitz A, Nyengaard JR, Besenbacher F, [Kjems J](#).  
*Mol Ther*. 2006

**IAP-IAP complexes required for apoptosis resistance of *C. trachomatis*-infected cells.**

Rajalingam K, Sharma M, Paland N, Hurwitz R, Thieck O, Oswald M, Machuy N, [Rudel T](#).  
*PLoS Pathog*. 2006

**NF-kappaB and inhibitor of apoptosis proteins are required for apoptosis resistance of epithelial cells persistently infected with *Chlamydia pneumoniae*.**

Paland N, Rajalingam K, Machuy N, Szczepek A, Wehrl W, [Rudel T](#).  
*Cell Microbiol*. 2006

**Huntingtin-HAP40 complex is a novel Rab5 effector that regulates early endosome motility and is up-regulated in Huntington's disease.**

Pal A, Severin F, Lommer B, Shevchenko A, [Zerial M](#).  
*J Cell Biol*. 2006

**MicroRNAs and hematopoietic differentiation.**

Fatica A, Rosa A, Fazi F, Ballarino M, Morlando M, De Angelis FG, Caffarelli E, Nervi C, [Bozzoni I](#).  
*Cold Spring Harb Symp Quant Biol*. 2006

**Preferential silencing of a common dominant rhodopsin mutation does not inhibit retinal degeneration in a transgenic model.**

Tessitore A, Parisi F, Denti MA, Allocca M, Di Vicino U, Domenici L, [Bozzoni I](#), Auricchio A.  
*Mol Ther*. 2006

**Structure analysis of microRNA precursors.**

Krol J, [Krzyzosiak WJ](#).

*Methods Mol Biol.* 2006

2005

**A minicircuitry comprised of microRNA-223 and transcription factors NFI-A and C/EBPalpha regulates human granulopoiesis.**

Fazi F, Rosa A, Fatica A, Gelmetti V, De Marchis ML, Nervi C, [Bozzoni I](#).

*Cell* 2005

**A loxP-containing pol II promoter for RNA interference is reversibly regulated by Cre recombinase.**

Iovino N, Denti MA, [Bozzoni I](#), Cortese R.

*RNA Biol.* 2005

**Caspase-dependent immunogenicity of doxorubicin-induced tumor cell death.**

Casares N, Pequignot MO, Tesniere A, Ghiringhelli F, Roux S, Chaput N, Schmitt E, Hamai A, Hervas-Stubbs S, Obeid M, Coutant F, Métévier D, Pichard E, Aucouturier P, Pierron G, Garrido C, Zitvogel L, and [Kroemer G](#)

*J Exp Med* 2005

**The apoptosis/autophagy paradox: autophagic vacuolization before apoptotic death.**

Gonzalez-Polo RA, Boya P, Pauleau AL, Jalil A, Larochette N, Souquere S, Eskelinen EL, Pierron G, Saftig P, [Kroemer G](#).

*J Cell Sci.* 2005

**Mitochondrial permeability transition in apoptosis and necrosis.**

Zamzami N, Larochette N, [Kroemer G](#).

*Cell Death Differ.* 2005

**Physical interaction of apoptosis-inducing factor with DNA and RNA.**

Vahsen N, Cande C, Dupaigne P, Giordanetto F, Kroemer RT, Herker E, Scholz S, Modjtahedi N, Madeo F, Le Cam E, [Kroemer G](#).

*Oncogene.* 2005

**PK11195 potently sensitizes to apoptosis induction independently from the peripheral benzodiazepin receptor.**

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