| Project no. | Name of the project | Principal | Years | Agency |
|-------------|--|-------------------|---------------|--------|
| | | investigator | | |
| 309/93/0584 | Time-contingent neuronal integration in schizophrenics | R. Jirsa | 1993- 1995 | GAÈR |
| 204/93/0703 | Quaternary structure of Na,K-ATPase and its dynamics: Localization of the subunits in the native enzyme complex | E. Amler | 1993- 1995 | GAÈR |
| 306/93/0581 | Cholesterol esterification in high density lipoproteins: A quantitative prognostic indicator for the risk of coronary artery diseases | M. Dobiášová | 1993- 1995 | GACR |
| 309/93/0574 | Inductive influence on regeneration of lamellar mechanoreceptors during development and after cross-reinnervation: axon or basal lamina? | I. Jirmanová | 1993- 1995 | GAÈR |
| 309/93/2364 | Entrainment of the mammalian circadian clock by photic and non-photic stimuli | H. Illnerová | 1993- 1995 | GACR |
| 311/93/2130 | The influence of dietary protein on some hemodynamic and transport processes in hypertensive and uremic rats | J. Heller | 1993- 1995 | GAÈR |
| 309/93/0592 | Convulsant effects of homocysteine and homocysteic acid in the developing brain | J. Folbergrová | 1993- 1995 | GAÈR |
| 306/93/0614 | Increased sensitivity of spinothalamic neurones as a basis for chronic pain during experimental arthritis | J. Palecek | 1993- 1995 | GACR |
| 305/93/0578 | Regulation of epithelial sodium and potassium transport during early ontogenesis | J. Pácha | 1993- 1995 | GAÈR |
| 306/93/0582 | Regression of chronic hypoxia – induced cardiopulmonary changes, effect of angiotension – converting enzyme inhibitors | B. Oštádal | 1993- 1995 | GACR |

| 309/93/0579 | What is the role of amino | P. Mareš | 1993- | GAÈR |
|-------------|---|---|---------------|---------|
| | acids in the generation of | | 1995 | |
| | epileptic spike-and-wave | | | |
| | rhythm | | | |
| 204/93/0700 | Transport systems of the | A. Kotyk | 1993- | GAÈR |
| | yeast plasma membrane: | | 1995 | |
| | Regulation of their | | | |
| | expression and function | | | |
| 306/93/0573 | Disturbances of lipid | J. Kuneš | 1993- | GACR |
| | metabolism and ion | | 1995 | |
| | transport in | | | |
| | hypertriglyceridemia and | | | |
| | hypertension: genetic | | | |
| | analysis | _ | | _ \ |
| 301/93/0589 | Effect of gene transfer of | J. Kopecký | 1993- | GAÈR |
| | the mitochondrial | | 1995 | |
| | uncoupling protein into | | | |
| 000/00/000 | white adipose tissue | | | 0.4.0.0 |
| 303/93/0598 | Hormonal regulation of | J. Kolínská | 1993- | GACR |
| | terminal glycosylation of | | 1995 | |
| | membrane-bound enzymes | | | |
| | in the small intestine during | | | |
| 205/02/0602 | ontogeny | E Musicasil | 1002 | GACR |
| 305/93/0603 | Mechanismus of | F. Vyskocil | 1993- 1995 | GACK |
| | neuromuscular adaption to natural hypothermia – | | 1995 | |
| | hibernation | | | |
| 204/93/0704 | Correlation between | F. Vyskocil | 1993- | GACR |
| 204/33/0704 | membrane potential and | i . Vyskocii | 1995 | OACK |
| | membrane ionic channels | | 1000 | |
| | of neural and non-neural | | | |
| | cells | | | |
| 305/93/0591 | Functional properties of | F. Vyskocil | 1993- | GACR |
| | chimeric and natural | , | 1995 | |
| | acetylcholine receptors | | | |
| 309/93/0587 | Study of calcium-mediated | L. Vyklický | 1993- | GACR |
| | modulation of glutamate | | 1995 | |
| | receptors and excitatory | | | |
| | synaptic transmission | | | |
| 305/93/0585 | Mechanisms of melatonin in | J. Vanecek | 1993- | GACR |
| | gonatotrophs | | 1995 | |
| 309/93/0588 | Allosteric control of | S. Tucek | 1993- | GACR |
| | muscarinic receptors | | 1995 | |
| 309/93/0577 | Role of free radicals in | F. Štastný | 1993- | GACR |
| | ischemic-hypoxic and | | 1995 | |
| | degenerative damage of | | | |
| | the brain by endogenous | | | |
| | excitotoxins | | | |

| A 74 4 4 0 0 | Francisco et accessors | C Total | 14000 | C A A \ / |
|---------------------|---------------------------------------|-------------|-------|-----------|
| A711103 | Expression of muscarinic | S. Tucek | 1993- | GAAV |
| | receptors in | | 1995 | |
| | cardiomyocytes | | | |
| A511103 | Ultrastructural and | T. Soukup | 1993- | GAAV |
| | immunocytochemical | | 1995 | |
| | analysis of muscle lineages | | | |
| | in intrafusal fibres after | | | |
| | muscle denervation and | | | |
| | transplantation | | | |
| A511101 | Coding of stimulus intensity | P. Lánský | 1993- | GAAV |
| | and information processing | | 1995 | |
| | in small neuronal networks. | | | |
| | Theoretical analysis | | | |
| A711104 | Disturbances of lipid | J. Kuneš | 1993- | GAAV |
| | metabolism and ion | 0.110.100 | 1995 | |
| | transport in | | 1000 | |
| | hypertriglyceridemia and | | | |
| | hypertension: genetic | | | |
| | analysis | | | |
| A511104 | Heterologous expression of | J. Kopecký | 1993- | GAAV |
| A31110 4 | mitochondrial uncoupling | о. Кореску | 1995 | OAAV |
| | protein gene in white | | 1333 | |
| | adipose tissue | | | |
| 202/94/1712 | Mapping of intracellullar | J. Slavík | 1994- | GACR |
| 202/94/1712 | concentrations of ions | J. Slavik | 1994- | GACK |
| | | | 1990 | |
| 305/94/1719 | inside living cells The role of 11? – | J. Pácha | 1994- | GAÈR |
| 303/94/17 19 | | J. Patria | 1994- | GAEK |
| | hydroxysteroid | | 1990 | |
| | dehydrogenase in the | | | |
| | regulation of intestinal Na+ | | | |
| | transport and maturation by | | | |
| 000/04/4700 | corticosteroids | F 17-14 | 4004 | 0400 |
| 306/94/1723 | Functional and structural | F. Kolár | 1994- | GACR |
| | properties of the unloaded | | 1996 | |
| 000/04/4740 | heart | NA IZalawa | 4004 | OAÈD |
| 303/94/1718 | Changes in enrgetic | M. Kalous | 1994- | GAÈR |
| | metabolism during | | 1996 | |
| | postnatal development and | | | |
| | during liver regeneration | | | |
| 303/94/1715 | Interaction of long-lived | Z. Deyl | 1994- | GACR |
| | proteins with exo and | | 1996 | |
| | endogenous stressors | | | |
| | carrying an aldehydic group | | | |
| A511408 | Molecular mechanism of | J. Vanecek | 1994- | GAAV |
| | melatonin action in | | 1996 | |
| | gonadotrophs | | | |
| A511403 | Expression of heterologous | H. Sychrová | 1994- | GAAV |
| | membrane carriers in | | 1996 | |

| | veasts | | | |
|--------------|--|-------------|--------------------------------|-----------|
| A711404 | The neural basis of fast | R. Jirsa | 1994- | GAAV |
| 71711404 | time-locked segmentation | it. onsa | 1996 | 0,0,0 |
| | of sensorymotor integration | | 1000 | |
| A511407 | Regulation of biosynthesis | J. Houštek | 1994- | GAAV |
| A311401 | of mammalian | J. Houstek | 1996 | OAAV |
| | mitochondrial ATP- | | 1990 | |
| | synthase | | | |
| A711402 | Functional organization of | J. Bureš | 1994- | GAAV |
| A711402 | the neural circuits of | J. Dules | 1994- | GAAV |
| | | | 1990 | |
| A 74 4 4 0 4 | conditioned taste aversion | I Dura ¥ | 4004 | C A A \ / |
| A711401 | Neural mechanismus of | J. Bureš | 1994- | GAAV |
| 000/05/0044 | spatial memory | 1 7 1 | 1996 | O A È D |
| 306/95/0614 | Salt sensitivity of blood | J. Zicha | 1995- | GAÈR |
| | pressure in the rat: | | 1997 | |
| | membrane-related markers | | | |
| | and genetic factors | , | | |
| 309/95/0617 | Presynaptic modulation of | H. Zemková | 1995- | GACR |
| | non-quantal release of | | 1997 | |
| | neurotransmitter | | | |
| 304/95/0626 | Structural and functional | Z. Zemanová | | GACR |
| | analysis of development of | | 1997 | |
| | embryonic kidney | | | |
| | components | | | , |
| 303/95/0615 | Lipid peroxidation and its | H. Rauchová | 1995- | GAÈR |
| | effects. Some biochmical | | 1997 | |
| | defense mechanismus | | | |
| | against effects of oxygen | | | |
| | tree radicals and | | | |
| | lipoperoxides | | | |
| 309/95/0616 | Nitric oxide participations | V. Lisý | 1995- | GACR |
| | of glutamate receptor | | 1997 | |
| | induced by action of | | | |
| | endogenous excitotoxins | | | |
| 309/95/0627 | Stochastic bursting in | P. Lánský | 1995- | GACR |
| | neuronal activity and | | 1997 | |
| | information coding | | | |
| 301/95/0620 | Molecular biology and | P. Ježek | 1995- | GACR |
| | studie of uncoupling mutant | | 1997 | |
| | expressed in yeast | | | |
| 204/95/0612 | Regulation of expression | L. Burýšek | 1995- | GACR |
| | and function of pyrogenic | | 1997 | |
| | cytokines in the somatic | | | |
| | cells | | | |
| 204/95/0624 | Are the high and low affinity | E. Amler | 1995- | GAÈR |
| | ATP binding sites of Na,K- | | 1997 | |
| | ATPase different or | | | |
| | identical? | | | |
| 204/95/0612 | information coding Molecular biology and studie of uncoupling mutant expressed in yeast Regulation of expression and function of pyrogenic cytokines in the somatic cells Are the high and low affinity ATP binding sites of Na,K- ATPase different or | L. Burýšek | 1995- 1997 1995- 1997 | GACR |

| | | I | | |
|-------------|--|--------------|---------------|------|
| A7011508 | To characterize the rat circadian pacemaker in the suprachiasmatic nucleus of the hypothalamus after birth and to clarify the | H. Illnerová | 1995- 1997 | GAAV |
| | involvement of photic and non-photic stimuli in its entrainment | | | |
| A5011504 | 3-D reconstruction of biological objects and measurement of their geometrical characteristics by using confocal microscopy | L. Kubínová | 1995- 1997 | GAAV |
| A7011505 | Genetic analysis of plasma cholesterol response and its interactions with other risk factors of atherosclerosis in the rat | M. Pravenec | 1995- 1997 | GAAV |
| A7011506 | Acetylcholine release modulation by presynaptic muscarinic receptors | V. Doležal | 1995- 1997 | GAAV |
| A5011503 | Effect of magnesium ions on secondary, tertiary and quaternary structure of Na,K-ATPase | E. Amler | 1995- 1997 | GAAV |
| A5011501 | The role of GTP-binding proteins in hormonal stimulation of brown adipose tissue | P. Svoboda | 1995- 1997 | GAAV |
| A7011502 | Quantal and non-quantal acetylcholine release at motor endplate | F. Vyskocil | 1995- 1997 | GAAV |
| 303/96/1318 | Glucocorticoid and cytokine regulation of enterocyte and thymocyte differentiation and glycosylation of membrane glycoproteins during ontogeny | | 1996- 1998 | GACR |
| 203/96/K128 | Capillary electromigration methods and their application for the separation of proteins and peptides | Z. Deyl | 1996- 2000 | GACR |
| 406/96/1314 | Temporal aspects of perception and the action perception of temporal aspects | J. Mates | 1996- 1998 | GACR |

| 306/96/1283 | Growth of vascular smooth muscle cells isolated from | J. Kuneš | 1996- 1998 | GACR |
|-----------------|---|-------------|---------------|------|
| | SHR: the influence of gender | | | |
| 204/96/1313 | Mechanisms of acidification in yeasts | A. Kotyk | 1996- 1998 | GAÈR |
| 311/96/0681 | Role of mitochondria in control of adiposity and regional fat distribution | J. Kopecký | 1996- 1998 | GAÈR |
| 204/96/1315 | Biogenesis and regulation by degradation of model yeast transporters | J. Horák | 1996- 1998 | GACR |
| 306/96/1289 | Metabolism of articesterone and sodium transport in the Sidney and in the Time of hypertensione and normotensive ruts | J. Pácha | 1996- 1998 | GAÈR |
| 305/96/0680 | Role of glultamate receptors during postnatal development in motoneurones | J. Palecek | 1996- 1998 | GACR |
| 302/96/1282 | Mapping of genetic determinants of spontaneous hypertension in recombinant inbred and congenic strains of the rat | M. Pravenec | 1996- 1998 | GACR |
| 305/96/067 8 | Role of cytosolic and membrane bound forms of trimeric GTP –binding proteins in desensitization of beta-adrenergic stimulus | P. Svoboda | 1996- 1998 | GAÈR |
| 309/96/128 7 | Alosteric modulation of muscarinic receptors | S. Tucek | 1996- 1998 | GACR |
| 309/96/068 2 | Mechanisms of melatonin action in suprachiasmatic neurones | J. Vanecek | 1996- 1998 | GACR |
| A1011601 | Forster energy transfer in the mutants of uncoupling protein /Ucp/ - Photophysics of single-tryptophan mutants of Ucp | J. Polecha | 1996- 1998 | GAAV |
| A7011603 | Functional and structural consequences of pilocarpine-induced status epilepticus in immature and adult rats | H. Kubová | 1996- 1998 | GAAV |
| A7011604 | Human circadian clock: | I. Hájek | 1996- | GAAV |

| | offect of appulations | | 1998 | |
|-------------|--|------------------|-------|------------|
| | effect of annual season, daily schedule and genetics | | 1990 | |
| 3508-3 | Tolerance of the neonatal | I. | 1996- | IGAMZ |
| 3506-3 | heart to ischemia | ı. Oštádalová | 1996- | IGAIVIZ |
| 2500.2 | | | | 10 4 14 7 |
| 3509-3 | Abnormalities of red cell | J. Zicha | 1996- | IGAMZ |
| | potassium and sodium | | 1998 | |
| | transport as markers for | | | |
| | salt sensitivity of blood | | | |
| 0540.0 | pressure | D.14. Y | 4000 | 10 4 4 4 7 |
| 3510-3 | Behavioral consequences | P. Mareš | 1996- | IGAMZ |
| | of epileptic seizures | | 1998 | |
| 309/97/055 | Central vestibular | G. Brožek | 1997- | GACR |
| 6 | projections: experimental | | 1999 | |
| | and clinical studies | | | |
| 309/97/055 | Hippocampal place cells | J. Bureš | 1997- | GACR |
| 5 | and neural representation | | 1999 | |
| | of space | | | |
| 309/97/051 | The role of glutamate | J. | 1997- | GAÈR |
| 8 | receptor subtypes in the | Folbergrová | 1999 | |
| | convulsant effect of | | | |
| | homocysteic acid in | | | |
| | immature rats | | | |
| 303/97/055 | Regulation of biogenesis | J. Houštek | 1997- | GACR |
| 4 | and genetic defects of | | 1999 | |
| | mammalian ATPsynthase | | | |
| 306/97/052 | Molecular basis of | B. Oštádal | 1997- | GACR |
| 2 | mitochondrial function in | | 1999 | |
| | normal and hypoxic | | | |
| | developing heart | | | |
| 309/97/055 | Is the main inhibitory | P. Mareš | 1997- | GAÈR |
| 2 | systém damaged in | | 1999 | |
| | progressive | | | |
| | epileptogenesis after | | | |
| | pilocarpine-induced | | | |
| | seizures in adult and | | | |
| | immature rats? | | | |
| 306/97/052 | Genetic and correlation | M. Pravenec | 1997- | GACR |
| 1 | analysis of a complex | | 1999 | |
| | metabolic syndrome in | | | |
| | spontaneously hypertensive | | | |
| | rats | | | |
| 304/97/051 | Analysis of the role of | T. Soukup | 1997- | GACR |
| 6 | myogenic and neurogenic | | 1999 | |
| | factors regulating the | | .555 | |
| | expression of specific | | | |
| | phenotypes in intrafusal | | | |
| | muscle fibres | | | |
| 309/97/051 | Effect of photoperiod and | A. Sumová | 1997- | GACR |
| 1 601161600 | Leneor or bilotobellon alin | 71. Ourriova | 1331- | OUCIV |

| 2 | light stimuli on the functional | | 1999 | |
|-------------------|---------------------------------|--------------|-------|-----------|
| | state of the mammalian | | | |
| | circadian clock | | | |
| 309/97/051 | Mechanism of the inhibitory | J. Vanecek | 1997- | GACR |
| 3 | effect of melatonin on Gn | | 1999 | |
| | RH-induced /Ca2+/, | | | |
| | increase and LH release in | | | |
| | neonatal rat gonadotrophs | | | |
| 309/97/051 | Molecular properties and | L. Vyklický | 1997- | GACR |
| 7 | regulation of glutamate | | 1999 | |
| | receptor function | | | |
| 305/97/051 | Molecular mechanisms of | L. Vyklický | 1997- | GACR |
| 9 | nociception | | 1999 | |
| A7011706 | Conditioned taste aversion | E. Bielavská | 1997- | GAAV |
| | /CTA/: the locus and nature | | 1999 | |
| | of the engram | | | |
| A7011707 | Regulation of high density | M. | 1997- | GAAV |
| | lipoprotein /HDL/ particle | Dobiášová | 1999 | |
| | size distribution in relation | | | |
| | to risk of coronary artery | | | |
| | disease. Study in childern | | | |
| A5011710 | Significance of | J. Kopecký | 1997- | GAAV |
| | mitochondrial energetics for | | 1999 | |
| | the phenotype of adipose | | | |
| | cell: in vitro study | | | |
| A7011711 | Hypertension and | J. Kuneš | 1997- | GAAV |
| 7.1. 6 1 1 1 1 1 | metabolic syndrome: | or runnes | 1999 | 0, |
| | causes and consequences | | | |
| A7011712 | Some computational | P. Lánský | 1997- | GAAV |
| 7.1.01.1.12 | aspects of neuronal activity | | 1999 | 0, |
| A7011713 | Mutation of colonic sodium | J. Pácha | 1997- | GAAV |
| 7.1.0117.10 | transport and its regulation | o. r dona | 1999 | 0, |
| A5011705 | Mechanism of the | J. Vanecek | 1997- | GAAV |
| 7.0011700 | melatonin effect on second | o. variotok | 1999 | 07070 |
| | and third messengers in | | 1000 | |
| | neonatal rat gonadotrophs | | | |
| 4035-3 | New biochemical methods | J. Houštek | 1997- | IGAMZ |
| 4000 0 | in prenatal diagnosis of | o. Houston | 1999 | 107 (IVIZ |
| | mitochondrial diseases | | | |
| 4034-3 | Stochastic model of | P. Lánský | 1997- | IGAMZ |
| -00- 0 | residence time in | i . Laiisky | 1999 | IO/ (IVIZ |
| | pharmacokinetics | | 1000 | |
| 4037-3 | Remodelation of human | V. Pelouch | 1997- | IGAMZ |
| 7001-0 | myocardium in congenital | v. i Gloucii | 1997- | IOAIVIZ |
| | heart disease | | 1999 | |
| 4036-1 | | P. Mareš | 1997- | IGAMZ |
| 4030-1 | Anticonvulsant profile of | r. Maies | 1997- | IGAIVIZ |
| | drugs facilitating gabaergic | | 1999 | |
| | inhibition | | | |

| ME085 | Molecular biology of fatty acid anion binding site of mitochondrial phosphate carrier | P. Ježek | 1997- 1999 | MŠMT |
|-----------------|---|-------------|---------------|------|
| ME 075 | Structure, function and dynamics of sodium pump | E. Amler | 1997- 1998 | MŠMT |
| 204/98/046 8 | Structure and dynamics of high and low affinity ATP binding sites of Na+/K+-ATPase | E. Amler | 1998- 2000 | GAÈR |
| 305/98/046 9 | Mechanisms and possibilities of pharmacological intervention in presynaptic regulation of acetylcholine release | V. Doležal | 1998- 2000 | GACR |
| 301/98/056 8 | Molecular biology and structure function studies of multiple substitution mutants of mitochondrial uncoupling protein | P. Ježek | 1998- 2000 | GACR |
| 306/98/047 | Cardioprotective mechanisms of adaption to chronic hypoxia: relation to preconditioning | F. Kolár | 1998- 2000 | GACR |
| 204/98/047 | Mapping of membrane potential, pH, calcium and other ions in animal and plant cells using fluorescent probes and confocal microscopy with the emphasis on their spatial and temporal relation during the transduction of the signal through the plasma membrane | J. Slavík | 1998- 2000 | GACR |
| 303/98/047 | Characterization of antioxidant capacity of rat brain tissue during ontogenesis | H. Rauchová | 1998- 2000 | GAÈR |
| 204/98/047 5 | Expression of genes involved in the osmotolerance of nonconventional yeasts in Saccharomyces cerevisiae | H. Sychrová | 1998- 2000 | GAÈR |
| 304/98/060 4 | Analysis of the histone model of nephron cystic dilations in the chict emryo | Z. Zemanová | 1998- 2000 | GACR |

| A7044004 | Malagulangaaalagulang | Γ Λ1-· | 4000 | |
|----------|--|-------------|---------------|-------|
| A7011801 | Molecular mechanism of interaction between the H4-H5 loop of Na+/K+-ATPase and the binding site for cardiac glycosides | E. Amler | 1998- 2000 | GAAV |
| A5011810 | 3-D studies of cells and their components: confocal microscopy applied to compare methods for measuring their geometrical characteristics | L. Kubínová | 1998- 2000 | GAAV |
| A7011813 | The influence of an excess of bromine and/or iodine deficiency on the metabolism of thyroid hormones in tissues | S. Pavelka | 1998- 2000 | GAAV |
| A7011805 | Oxygen free radicals and nitric oxide in the pathogenesis of agedependent experimetal hypertension: the attenuation of vasodilator mechanisms by high oxidative stress | J. Zicha | 1998- 2000 | GAAV |
| 4810-3 | Liposomal photodynamic therapy of tumors | J. Borecký | 1998- 2000 | IGAMZ |
| 4643-3 | Tissue and organ maturation in neonates: involvement of uncoupling protein - 2 | J. Kopecký | 1998- 2000 | IGAMZ |
| 4795-3 | Genetic and correlation analysis of learning and memory processies in the rat | M. Pravenec | 1998- 2000 | IGAMZ |
| 4812-3 | Genetic analysis of experimental compensatory renal hypertrophy | M. Pravenec | 1998- 2000 | IGAMZ |
| 4646-3 | New method for determination of antibodies against nicotinic acetylcholine receptors in patients with myasthenia gravis | J. Rícný | 1998- 2000 | IGAMZ |
| ME158 | Mechanisms of VIP and melatonin action on diurnal rhytm of vasopressin release from neurons of suprachiasmatic nucleus | J. Vanecek | 1998- 2000 | MŠMT |

| ME256 | Computer reconstruction, visualization and analysis of geometry of muscle capillary bed | I. Krekule | 1998- 1999 | MŠMT |
|-----------------|---|-------------|---------------|------|
| ME226 | Mitochondrial diseases caused by depletion and mutations of mitochondrial DNA | J. Houštek | 1998- 2000 | MŠMT |
| OC 918.10 | Body weight and energy expenditure: functional foods | J. Houštek | 1998- 2002 | MŠMT |
| 203/99/019 | Micellar electrokinetic chromatography of posttranslationally modified structural proteins | Z. Deyl | 1999- 2001 | GACR |
| 303/99/019 | Glucocorticoid regulation of membrane glycoproteins as markers of differentation and development: thymocytes in comparison with enterocytes | J. Kolínská | 1999- 2001 | GACR |
| 311/99/019 6 | Fatty acids oxidation in white adipose tissue: systemic effects | J. Kopecký | 1999- 2001 | GAÈR |
| 309/99/020 7 | Does the receptor, the spectrum of G proteins and the role of GABA? system change during development? | P. Mareš | 1999- 2001 | GAÈR |
| 306/99/021 0 | The role of 11? – hydroxysteroid dehydrogenase in hypertension | J. Pácha | 1999- 2001 | GAÈR |
| 309/99/021 1 | Localization, distribution and function of glutamate receptor in brain capillary barrier | F. Štastný | 1999- 2001 | GACR |
| 309/99/021 4 | Allosteric regulation of muscarinic acetylcholine receptors | S. Tucek | 1999- 2001 | GACR |
| 309/99/021 3 | Intracellular mechanisms of entrainment of the circadian pacemaker in hypothalamic suprachiasmatic nucleus | J. Vanecek | 1999- 2001 | GACR |
| 309/99/021 5 | Synaptic transmission in suprachiasmatic nucleus | H. Zemková | 1999- 2001 | GACR |

| A7011908 | Improved cell adhesion on physico-chemically modified polymer surfaces | L. Bacáková | 1999- 2001 | GAAV |
|-----------------|--|-------------|---------------|-------|
| A7011910 | Neurotransmitter receptors and signal transduction in the heart. Their modulation by glucocorticoids | S. Tucek | 1999- 2002 | GAAV |
| A7011801 | Molecular mechanism of the interaction of ATP- derivatives with the H4-H5 cytoplasmic loop | E. Amler | 1999- 1999 | GAAV |
| A7011902 | The structure and function of the nicotinic acetylcholine receptor | F. Vyskocil | 1999- 2002 | GAAV |
| 5183-3 | Beta – amyloid and the function of cholinergic synapses | V. Doležal | 1999- 2001 | IGAMZ |
| 5745-3 | Therapy of convulsative status epilepticus – experimental and clinical study | P. Mareš | 1999- 2001 | IGAMZ |
| OC918.30 | Effect of genetic background on mitochondrial functions in white adipose tissue | J. Kopecký | 1999- 2001 | MŠMT |
| 305/00/166 0 | Physiological significance of the long and short variants of Gs-alpha protein | J.Novotný | 2000- 2003 | GACR |