

## Keyword index

### **Aging**

Glucose; Insulin; Glucose transporter; Memory; Attention; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

Insulin-like growth factor-I; Growth hormone; Cognition (Sytye van Dam, P. (490) 87)

### **Akt**

Insulin; Metabolism; GSK3 $\beta$  (Glycogen synthase kinase 3 $\beta$ ); Tau; Ketogenic diet (Bondy, C.A. (490) 25)

### **Alzheimer disease**

Brain; Glucose/energy metabolism; Insulin; Insulin receptor; Glucose (Hoyer, S. (490) 115)

### **Alzheimer's disease**

Insulin receptor; Learning and memory; Signal transduction; Receptor trafficking; Diabetes mellitus (Zhao, W.-Q. (490) 71)

Cognitive ageing; Cognitive impairment, vascular; Cognitive impairment, mild (Lindeboom, J. (490) 83)

Memory; Glucose; Insulin (Watson, G.S. (490) 97)

Insulin; Insulin-like growth factor I;  $\beta$  Amyloid; Blood–brain barrier; Tau (Carro, E. (490) 127)

Diabetes; Cognition; Dementia (Allen, K.V. (490) 169)

### **$\beta$ Amyloid**

Alzheimer's disease; Insulin; Insulin-like growth factor I; Blood–brain barrier; Tau (Carro, E. (490) 127)

### **Attention**

Glucose; Insulin; Glucose transporter; Memory; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

### **Blood–brain barrier**

Insulin; Central nervous system; Transport; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

Alzheimer's disease; Insulin; Insulin-like growth factor I;  $\beta$  Amyloid; Tau (Carro, E. (490) 127)

### **Brain**

Glucose/energy metabolism; Alzheimer disease; Insulin; Insulin receptor; Glucose (Hoyer, S. (490) 115)

### **Central nervous system**

Insulin; Blood–brain barrier; Transport; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

### **Cerebral glucose metabolism**

Diabetes mellitus; Hypoglycemia (McCall, A.L. (490) 147)

### **Cerebrovascular alteration**

Type 1 diabetes; Diabetic encephalopathy; Cognition; Insulin; Hypoglycaemia (Brands, A.M.A. (490) 159)

### **CNS complication**

Type 1 and type 2 diabetes; Insulin; C-peptide; Hyperglycemia (Sima, A.A.F. (490) 187)

### **Cognition**

GLUT; Glucose; Insulin; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Insulin-like growth factor-I; Growth hormone; Aging (Sytye van Dam, P. (490) 87)

Type 1 diabetes; Diabetic encephalopathy; Insulin; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

Diabetes; Alzheimer's disease; Dementia (Allen, K.V. (490) 169)

### **Cognitive ageing**

Alzheimer's disease; Cognitive impairment, vascular; Cognitive impairment, mild (Lindeboom, J. (490) 83)

### **Cognitive impairment, mild**

Cognitive ageing; Alzheimer's disease; Cognitive impairment, vascular (Lindeboom, J. (490) 83)

### **Cognitive impairment, vascular**

Cognitive ageing; Alzheimer's disease; Cognitive impairment, mild (Lindeboom, J. (490) 83)

### **C-peptide**

CNS complication; Type 1 and type 2 diabetes; Insulin; Hyperglycemia (Sima, A.A.F. (490) 187)

### **Dementia**

Diabetes; Alzheimer's disease; Cognition (Allen, K.V. (490) 169)

### **Diabetes**

GLUT; Glucose; Insulin; Cognition; Hippocampus (McEwen, B.S. (490) 13)

Glucose; Insulin; Glucose transporter; Memory; Attention; Aging; Glucose tolerance; Vagus (Messier, C. (490) 33)

Alzheimer's disease; Cognition; Dementia (Allen, K.V. (490) 169)

### **Diabetes mellitus**

Insulin; Central nervous system; Blood–brain barrier; Transport; Leptin; Lipopolysaccharide (Banks, W.A. (490) 5)

Insulin receptor; Learning and memory; Signal transduction; Receptor trafficking; Alzheimer's disease (Zhao, W.-Q. (490) 71)

Insulin; Obesity (Lebovitz, H.E. (490) 135)

Cerebral glucose metabolism; Hypoglycemia (McCall, A.L. (490) 147)

Synaptic plasticity; Long-term potentiation; Glutamate receptor (Trudeau, F. (490) 177)

#### **Diabetic encephalopathy**

Type 1 diabetes; Cognition; Insulin; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

#### **Energy homeostasis**

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

#### **Feeding**

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

#### **Glucose**

GLUT; Insulin; Cognition; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

Insulin; Glucose transporter; Memory; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Alzheimer's disease; Memory; Insulin (Watson, G.S. (490) 97)

Brain; Glucose/energy metabolism; Alzheimer disease; Insulin; Insulin receptor (Hoyer, S. (490) 115)

#### **Glucose/energy metabolism**

Brain; Alzheimer disease; Insulin; Insulin receptor; Glucose (Hoyer, S. (490) 115)

#### **Glucose tolerance**

Glucose; Insulin; Glucose transporter; Memory; Attention; Aging; Diabetes; Vagus (Messier, C. (490) 33)

#### **Glucose transporter**

Glucose; Insulin; Memory; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

#### **GLUT**

Glucose; Insulin; Cognition; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

#### **Glutamate receptor**

Diabetes mellitus; Synaptic plasticity; Long-term potentiation (Trudeau, F. (490) 177)

#### **Growth hormone**

Insulin-like growth factor-I; Aging; Cognition (Sytye van Dam, P. (490) 87)

#### **GSK3 $\beta$ (Glycogen synthase kinase 3 $\beta$ )**

Insulin; Metabolism; Akt; Tau; Ketogenic diet (Bondy, C.A. (490) 25)

#### **Hippocampus**

GLUT; Glucose; Insulin; Cognition; Diabetes (McEwen, B.S. (490) 13)

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

#### **5-HT (5-hydroxytryptamine, serotonin)**

Insulin; Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

#### **Hyperglycemia**

CNS complication; Type 1 and type 2 diabetes; Insulin; C-peptide (Sima, A.A.F. (490) 187)

#### **Hypoglycaemia**

Type 1 diabetes; Diabetic encephalopathy; Cognition; Insulin; Cerebrovascular alteration (Brands, A.M.A. (490) 159)

#### **Hypoglycemia**

Cerebral glucose metabolism; Diabetes mellitus (McCall, A.L. (490) 147)

#### **Hypothalamus**

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

#### **Insulin**

Central nervous system; Blood–brain barrier; Transport; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

GLUT; Glucose; Cognition; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

Metabolism; Akt; GSK3 $\beta$  (Glycogen synthase kinase 3 $\beta$ ); Tau; Ketogenic diet (Bondy, C.A. (490) 25)

Glucose; Glucose transporter; Memory; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Alzheimer's disease; Memory; Glucose (Watson, G.S. (490) 97)

Brain; Glucose/energy metabolism; Alzheimer disease; Insulin receptor; Glucose (Hoyer, S. (490) 115)

Alzheimer's disease; Insulin-like growth factor I;  $\beta$  Amyloid; Blood–brain barrier; Tau (Carro, E. (490) 127)

Diabetes mellitus; Obesity (Lebovitz, H.E. (490) 135)

Type 1 diabetes; Diabetic encephalopathy; Cognition; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

CNS complication; Type 1 and type 2 diabetes; C-peptide; Hyperglycemia (Sima, A.A.F. (490) 187)

#### **Insulin-like growth factor-I**

Growth hormone; Aging; Cognition (Sytye van Dam, P. (490) 87)

#### **Insulin-like growth factor I**

Alzheimer's disease; Insulin;  $\beta$  Amyloid; Blood–brain barrier; Tau (Carro, E. (490) 127)

**Insulin receptor**

Learning and memory; Signal transduction; Receptor trafficking; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

Brain; Glucose/energy metabolism; Alzheimer disease; Insulin; Glucose (Hoyer, S. (490) 115)

**Ketogenic diet**

Insulin; Metabolism; Akt; GSK3 $\beta$  (Glycogen synthase kinase 3 $\beta$ ); Tau (Bondy, C.A. (490) 25)

**Learning and memory**

Insulin receptor; Signal transduction; Receptor trafficking; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

**Leptin**

Insulin; Central nervous system; Blood–brain barrier; Transport; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

**Lipopolysaccharide**

Insulin; Central nervous system; Blood–brain barrier; Transport; Leptin; Diabetes mellitus (Banks, W.A. (490) 5)

**Long-term potentiation**

Diabetes mellitus; Synaptic plasticity; Glutamate receptor (Trudeau, F. (490) 177)

**Memory**

Glucose; Insulin; Glucose transporter; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

Alzheimer's disease; Glucose; Insulin (Watson, G.S. (490) 97)

**Metabolism**

Insulin; Akt; GSK3 $\beta$  (Glycogen synthase kinase 3 $\beta$ ); Tau; Ketogenic diet (Bondy, C.A. (490) 25)

**Nutrient**

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

**Obesity**

Insulin; Diabetes mellitus (Lebovitz, H.E. (490) 135)

**Phosphatidylinositol-3 kinase**

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide (Gerozissis, K. (490) 59)

**Receptor trafficking**

Insulin receptor; Learning and memory; Signal transduction; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

**Regulatory peptide**

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

**Signal transduction**

Insulin receptor; Learning and memory; Receptor trafficking; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

**Synaptic plasticity**

Diabetes mellitus; Long-term potentiation; Glutamate receptor (Trudeau, F. (490) 177)

**Tau**

Insulin; Metabolism; Akt; GSK3 $\beta$  (Glycogen synthase kinase 3 $\beta$ ); Ketogenic diet (Bondy, C.A. (490) 25)

Alzheimer's disease; Insulin; Insulin-like growth factor I;  $\beta$  Amyloid; Blood–brain barrier (Carro, E. (490) 127)

**Transport**

Insulin; Central nervous system; Blood–brain barrier; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

**Type 1 and type 2 diabetes**

CNS complication; Insulin; C-peptide; Hyperglycemia (Sima, A.A.F. (490) 187)

**Type 1 diabetes**

Diabetic encephalopathy; Cognition; Insulin; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

**Vagus**

Glucose; Insulin; Glucose transporter; Memory; Attention; Aging; Diabetes; Glucose tolerance (Messier, C. (490) 33)