

**VI European Meeting on  
GLIAL CELL FUNCTION IN HEALTH  
AND DISEASE**



**Berlin, September 3 - 6, 2003**

Max Delbrück Communications Center (MDC.C.) Berlin-Buch  
Robert Rössle Str. 10  
13125 Berlin  
Germany

<http://euroglia2003.glia.mdc-berlin.de>



VI European Meeting on  
**Glial Cell Function in Health  
and Disease**

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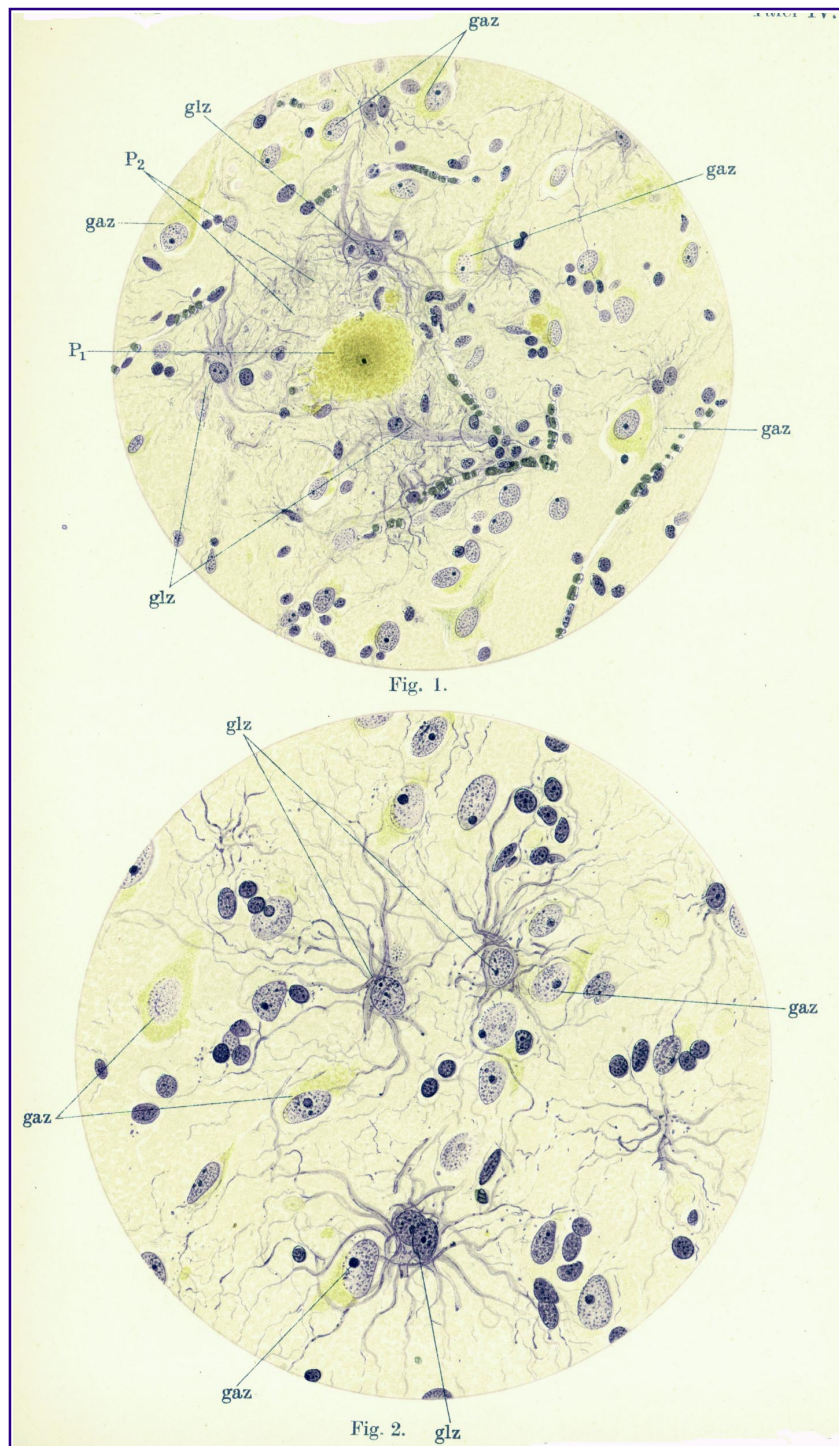
**DFG**



**GLIA**

**MDC**  
Berlin-Buch

Max Delbrück Center for Molecular Medicine



**Alois Alzheimer, "Krankheitsfälle des späteren Alters" in: *Zeitschrift für die gesamte Neurologie und Psychiatrie*, 1911, pp. 356-387 (glz = glial cells).  
First histopathological characterization of Alzheimer's disease.**

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# Committees and Organizers

## **Scientific Organizer:**

Helmut Kettenmann  
Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch  
Cellular Neurosciences  
Robert-Rössle-Str. 10  
13092 Berlin  
Phone.: 030 9406 3325  
Fax: 030 9406 3819  
eMail: hketten@mdc-berlin.de

## **Scientific Committee:**

*Chair:* Helmut Kettenmann (Berlin)  
*Members:* Anne Baron-van Evercooren (France)  
Bernardo Castellano López (Spain)  
Christian B. Giaume (France)  
Magdalena Goetz (Germany)  
Harold K. Kimelberg (USA)  
Giulio Levi (Italy)  
Klaus-Armin Nave (Germany)  
Nancy Rothwell (UK)  
Eva Sykova (Czech Republic)  
Dionysia Theodosia (France)

## **Local Organizing Committee:**

*Chair:* Helmut Kettenmann (MDC)  
*Members:* Carmen Birchmeier (MDC)  
Ulrich Dirnagl (Charité)  
Uwe Heinemann (Charité)  
Gerd Kempermann (MCD)  
Robert Nitsch (Charité)  
Andreas von Deimling (Charité)  
Frauke Zipp (Charité)

## **Organizing Office:**

Meino Alexandra Gibson  
Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch  
Robert-Rössle-Str. 10  
13092 Berlin  
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eMail: gibson@mdc-berlin.de

# General Information

## VENUE

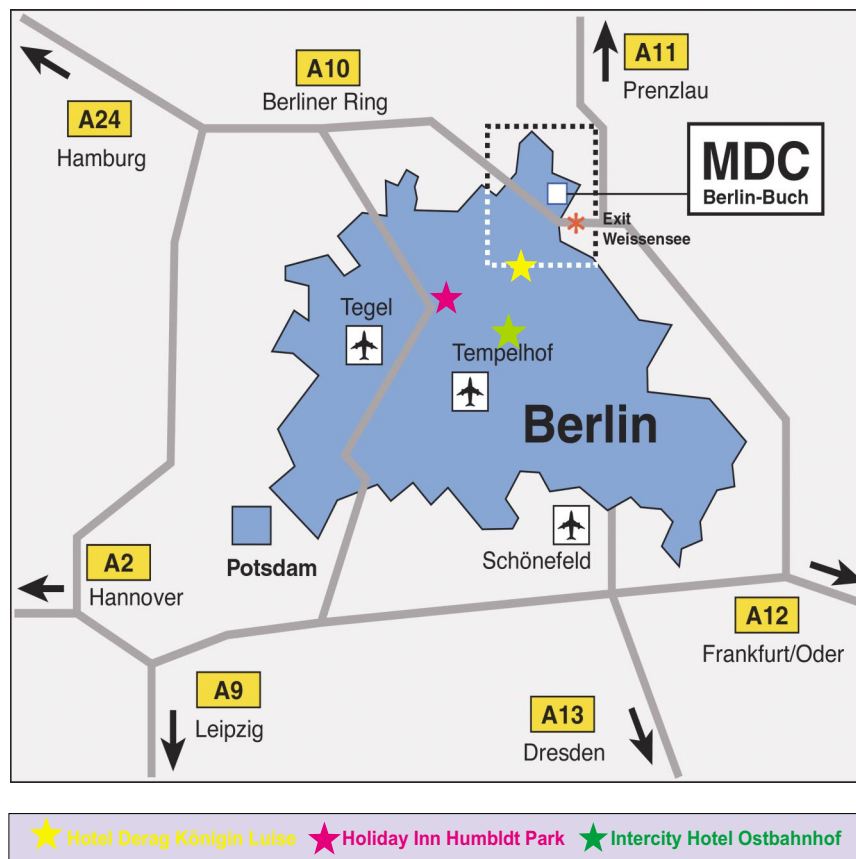
Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch  
Max Delbrück Communications Center (MDC.C)  
Robert-Rössle-Str. 10  
D-13125 Berlin-Buch

The Max-Delbrück-Communications Center (<http://www.md-communications-center.de>) is located on the campus Berlin-Buch to the north-east of the city.

## PUBLIC TRANSPORTATION AND TRAVEL

Berlin's public transportation system is comprehensive and efficient. Berlin has two underground lines: the S-Bahn and the U-Bahn. Furthermore, there are bus and tram lines. The MDC.C is located in 15 minutes walking distance from the S-Bahn station Buch.

A regular bus shuttle to the main congress hotels will bring the participants downtown and back to the center.



### How to get to the MDC.C by car?

Drive out from Berlin City Center on the Prenzlauer Promenade (in the direction of the Prenzlau Autobahn). From this Autobahn feeder come off at the exit signposted "Bucher Strasse". At the traffic lights go right towards Buch on the Hobrechtsfelder Chaussee.

Drive straight on past Units 6 and 7 of the Buch Clinic and take a right at the next intersection into the Wiltbergstrasse. On this street, go through an S-Bahn (train) underpass and then a further ca. 500 meters until Wiltbergstrasse turns right into the Karower Chaussee. After a further ca. 500 meters take a left from the Karower Strasse into the Robert Roessle Strasse and this will take you to the Berlin-Buch Campus.

## How to get to MDC.C by public transport

### 1. From Tegel Airport

● Take the 128 bus (blue airport shuttle) to the U-Bahn station, Osloer Strasse. Then take the 150 Bus (direction S-Bahnhof Buch) to the Theodor Brugsch Strasse stop and then walk to the MDC or

● Take the TXL Bus to the S Bahnhof Beusselstr. Then transfer to S-Bahn line S41 heading in the direction Gesundbrunnen. At the Bahnhof Gesundbrunnen change to S2 in the direction Buch or Bernau and get out at the S-Bahnhof Berlin-Buch (total journey time about 35 min). At the S-Bahnhof Berlin-Buch (get out in the direction of travel, the bus stop is left at the station) you may either: take the 351 Bus in the direction of the Robert Rössle Klinik and stay on to the terminus.

or

● Take the 150 bus and travel to Theodor-Brugsch-Straße or take a taxi.

or

● Take the TXL Bus to the S+U Bahn station Potsdamer Platz and change there to the S-Bahn Line S2 in the direction of Buch/Bernau. Get off at Berlin-Buch.

### 2. From Schönefeld Airport:

● Take the S-Bahn Line S9 in the direction of Zoologischer Garten to the S-Bahnhof Friedrichstrasse and then change to the S2 in the direction of Buch or Bernau.

or

● Take the S-Bahn Line S45 in the direction of Westend. At the S-Bahn station Papestraße change to the S2 in the direction of Buch or Bernau. Get off at Berlin-Buch.

### 3. From Tempelhof Airport:

● Take the U-Bahn Line U6 in the direction Alt-Tegel until the S+U Bahnhof Friedrichstrasse and change there to the S-Bahn Line S2 in the direction Buch or Bernau. Get off at Berlin-Buch.

### 4. From Bahnhof Zoologischer Garten:

● Take the S-Bahn to the Friedrichstrasse Bahnhof. You can then choose either the S-Bahn Line S7 in the direction of Ahrensfelde, S75 in the direction of Wartenberg or the S9 in the direction of Schönefeld. At the Bahnhof Friedrichstrasse change to the S-Bahn Line S2 in the direction of Buch or Bernau. Get off at Berlin-Buch.





#### 5. From Ostbahnhof:

● Take the S-Bahn to the Bahnhof Friedrichstrasse. You can choose the S-Bahn Line S5 in the direction of Friedrichstrasse or S75, S7, S9 in the direction of Zoologischer Garten. Change at the Bahnhof Friedrichstrasse and get on the S-Bahn Line S2 in the direction of Buch or Bernau

or

● Take the S-Bahn to the Bahnhof Ostkreuz. You can choose the S-Bahn Line S75 in the direction of Wartenberg, S3 in the direction of Erkner, S5 in the direction of Strausberg Nord, the S7 in the direction of Ahrensfelde or the S9 in the direction of Schönefeld. At the Bahnhof Ostkreuz change to the S-Bahn Line 8 in the direction of Pankow and change there to the S-Bahn Line S2 in the direction of Buch or Bernau

or

● Take the S-Bahn to the Bahnhof Alexanderplatz. You can choose either the S-Bahn Line S3 or S9 in the direction of Westkreuz, the S5 or S75 in the direction of Spandau or the S7 in the direction of Potsdam. At the Bahnhof Alexanderplatz change to the U-Bahn Line U2 in the direction of Pankow and change there to the S-Bahn Line S2 in the direction of Buch or Bernau. Get off at Berlin-Buch.

#### 6. From Bahnhof Lichtenberg:

● Take either the S-Bahn Line S5 in the direction of Friedrichstrasse or the S75, S7 in the direction of Zoologischer Garten. Change at the S-Bahnhof Ostkreuz to the S8 in the direction of Pankow and change there to the S-Bahn Line S2 in the direction of Buch or Bernau. Get off at Berlin-Buch.

or

● Take the S-Bahn to Bahnhof Friedrichstrasse. You can take either the S-Bahn Line S5 in the direction of Friedrichstrasse or the S75, S7 in the direction of Zoologischer Garten. Change at the Bahnhof Friedrichstrasse to the S-Bahn Line S2 in the direction of Buch or Bernau. Get off at Berlin-Buch.

#### 7. From Bahnhof Friedrichstraße

● Take the S-Bahn Line S2 in the direction of Buch or Bernau. Get off at Berlin-Buch.

At the S-Bahnhof Berlin-Buch (get out in the direction of travel, the bus stop is left at the Station) you may either: take the 351 Bus in the direction of the Robert Rössle Klinik and stay on to the terminus

or

● Take the 150 bus and travel to Theodor-Brusch-Straße or take a taxi.

## **HOTELS**

The travel agency responsible for hotel reservation is the Deutsche Reisebüro. There are three major congress hotels downtown where we made reservation. A regular bus shuttle will take you from there to the congress center and bring you back. However, also other hotels have been booked via the Deutsche Reisebüro. Participants staying in these hotels are also welcome to join the bus shuttle at the three major congress hotels:

DERAG Königin Luise, Parkstrasse, Berlin-Weissensee (Phone: +49 30 96247 0)

Holiday Inn Humboldt-Park, Hochstrasse, Berlin-Wedding (Phone: +49 30 460030)

Intercity Hotel, Ostbahnhof, Berlin-Friedrichshain (Phone: +49 30 292680)

## **SOCIAL PROGRAM**

On Wednesday evening a reception with food and drinks will take place at the meeting site.

On Friday evening a boat trip on the Spree river will lead you through the historical part of Berlin. The participation fee is Euro 5,—. On site registration is still possible.

The boat trip will start at 8 p.m. at the pier “Friedrichstrasse”. We will provide a bus shuttle to take you down town from the congress center after the plenary lecture at 7.00 p.m. The boats will come back to the pier at about 11.00 p.m.

We have hired two large boats: “Spreekrone” for 236 people and “MS Charlottenburg” for 136. Food and drinks will be served on board. The tour will be accompanied by an English speaking guide. The city tour will take you under the bridges of the Spree river through the city of Berlin and along its historical sites such as Reichstag, Castle Bellevue, Castle Charlottenburg and many more. This offers an exciting opportunity to see Berlin from a new perspective and to chat with your colleagues sipping a nice glass of wine or beer.

## **LANGUAGE**

The official language of this meeting is English.

## **REGISTRATION**

On site registration will be available. Please pay in cash.

Regular late registration Euro 350,--  
Student late registration Euro 200,—

Students must register with their Student Identity Card.

The registration fee includes:

- free access to the scientific program
- congress bag
- abstract book (supplement to the journal GLIA)
- program booklet
- welcome reception with food and drinks at the meeting site
- coffee breaks
- three lunches at the meeting site

## **VISAS**

No visas are required for visitors from most European countries, USA, Japan, South America and British Commonwealth. For doubts and further details it is advisable to contact the German Embassy or Consulate in your country. Airlines and travel agents are also well informed about such requirements.

## **INSURANCE**

The organization does not take responsibility for individual medical, travel or personal insurance. Participants are advised to take out their own insurance policies.

## **WEATHER**

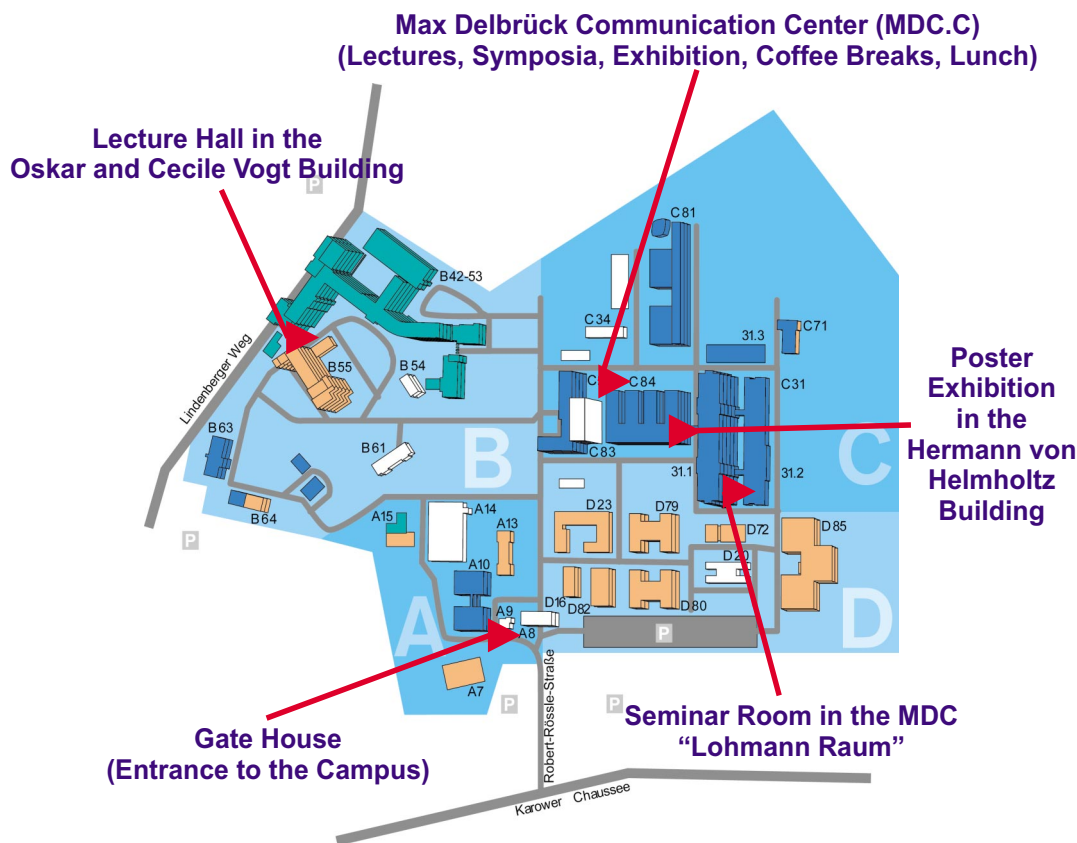
The weather in Berlin in September is usually mild with temperatures between 15° - 20°. We expect sunny weather, but cannot exclude rain.

## **SHOPS**

The shops are generally open on workdays from 9 a.m. to 20 p.m. Shops are closed on Saturday afternoon and on Sundays.

## **ELECTRICITY SUPPLY**

220 V - 50 Hz AC



## PROGRAM INFORMATION

The meeting starts on Wednesday, September 3, 2003 at 6 p.m. with a plenary lecture. Registration is possible from 4 p.m. on. In the morning and early afternoon a satellite Symposium "Functions of microglial cells in diseases of the central nervous system" takes place in the congress center which is open to everyone.

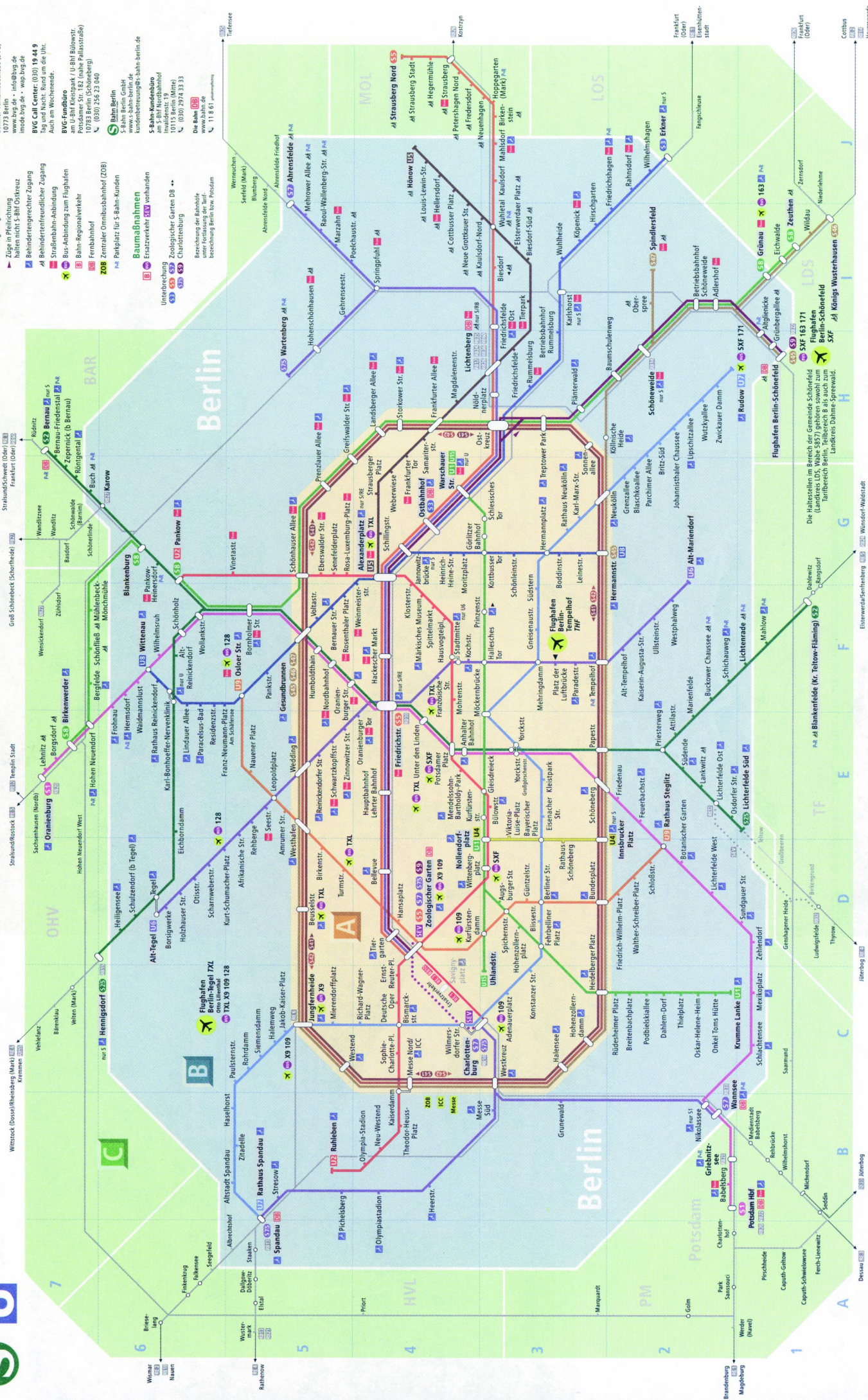
The scientific program of the VI European Meeting on Glial Cell Function in Health and Disease consists of:

- 6 Plenary Lectures
- 15 Symposia (3 sessions with 5 parallel symposia)
- 4 Postersessions

There are poster sessions on Thursday and on Friday. Posters will be displayed during the whole day. Posters P 1 – P 129 will hang on Thursday, posters P 130 – P 251 will hang on Friday. In poster session I the presenting authors of the posters with odd numbers are requested to be by their poster, in poster session II the posters with even numbers will be presented. On Friday the posters with odd numbers are presented in the morning session, the posters with even numbers are presented in the late afternoon session.

The poster area is in the Hermann-von-Helmholtz-Building. The poster boards are numbered and the posters must be placed on the boards in accordance with the numbers. The poster size is 1 m width and 1 m height.

- ★ Poster Session I (Thursday, September 4, 2003, 13.00 – 15.00 h) Posters P 1 – P 129 (odd numbers)
- ★ Poster Session II (Thursday, September 4, 2003, 16.00 – 18.00 h) Posters P 1 – P 129 (even numbers)
- ★ Poster Session III (Friday, September 5, 2003, 10.00 – 12.00 h) Posters P 130 – P 251 (odd numbers)
- ★ Poster Session IV (Friday, September 5, 2003, 10.00 – 12.00 h) Posters P 130 – P 251 (even numbers).



**BVG**  
 Berliner Verkehrsbetriebe (BVG)  
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**BVG Call Center: (030) 19 44 9**  
 Tag und Nacht. Rund um die Uhr.  
 Auch am Wochenende.

**BVG-Fandbüro**  
 am U-BH Mieskopark / U-BH Röllowstr.  
 Potsdamer Str. 182 (nahe Pallasstraße)  
 (030) 255 23 040

**S-Bahn Berlin**  
 www.s-bahn-berlin.de  
 www.s-bahn-berlin.de  
 Kundendienst: www.s-bahn-berlin.de  
 5-Bahn-Kundenservice  
 10115 Berlin (Mitte)  
 (030) 29 74 33 33

**Die Bahn**  
 www.bahn.de  
 11 8 61 (europaweit)

**U-Bahn-Netz**  
 5 U-Bahn-Linien mit Umsteigemöglichkeit  
 Züge in Pfeilrichtung  
 Halten nicht S-Bahn-Östkreuz  
 Behindertengerechter Zugang  
 Straßenbahn-Abbindung  
 Bus-Abbindung zum Flughafen  
 U-Bahn-Regionalverkehr  
 Zentraler Omnibusbahnhof (ZOB)  
 Parkplatz für S-Bahn-Kunden

**Baumaßnahmen**  
 Ersatzverkehr S+U vorhanden  
 Zoologischer Garten DB  
 Charlottenburg  
 Unternehmung  
 Besetzung der Bahnhöfe unter Fortlassung der Tarifbesetzung Berlin bzw. Potsdam

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# Satellite

WEDNESDAY, SEPTEMBER 3, 2003

9.00 - 15.30

**SATELLITE SYMPOSIUM**

**FINAL COLLOQUIUM OF THE DFG GROUP GRANT**

**„FUNCTIONS OF MICROGLIAL CELLS IN DISEASES OF THE CENTRAL NERVOUS SYSTEM“**

**MDC.C DENDRIT II**

9.00 – 9.10

**Opening and Welcome Address**

9.10 – 9.30

**Ingo Bechmann, Berlin, Germany**

Invasion of blood macrophages and their transformation into microglia in zones of axonal degeneration

9.30 – 9.50

**Helmut Kettenmann, Berlin, Germany**

Ca<sup>2+</sup> signalling and microglial activation

9.50 – 10.10

**Peter Joachim Gebicke-Härter, Mannheim, Germany**

Effects of fractalkine on expression patterns in rat microglia

10.10 – 10.30

**Andrew Chan, Würzburg, Germany**

Phagocytosis of apoptotic inflammatory cells by microglia and its functional consequences

10.30 – 11.00

**Coffee Break**

11.00 – 11.20

**Sebastian Jander, Düsseldorf, Germany**

Microglia/macrophage responses in CNS injury: from phenotypic to functional heterogeneity

11.20 – 11.50

**Peter Rieckmann, Würzburg, Germany**

Oncostatin produced by human microglia as an important mediator of immunomodulation at the blood-brain-barrier

11.50 – 12.10

**Rita Naskar, Münster, Germany**

Microglial cells and retinal degenerative diseases

12.10 – 13.00

**Lunch Break**

13.00 – 13.20

**Eberhard Weihe, Marburg, Germany**

The role of microglia C1q in CNS disease

13.20 – 13.50

**Marcus Müller, Münster, Germany**

Resident endonurial macrophages: the PNS counterpart of CNS microglial cells?

13.50 – 14.10

**Rudolf Martini, Würzburg, Germany**

Role of immune cells in inherited demyelination

14.10 – 14.30

**Coffee Break**

14.30 – 14.50

**Klaus Fassbender, Göttingen, Germany**

Mechanisms of microglial activation in Alzheimer disease

14.50 – 15.10

**Martina Deckert, Köln, Germany**

Regulation and function of microglia in murine Toxoplasma encephalitis

15.10 – 15.30

**Rüdiger Dörries, Mannheim, Germany**

Letivirus infection of microglia

15.30 – 15.45

**Closing Remarks**

# Schedule

	Wednesday, Sept. 3, 2003	Thursday, Sept. 4, 2003	Friday, Sept. 5, 2003	Saturday, Sept. 6, 2003
9.00 - 10.00			Plenary Lecture L 4 Marie T. Filbin	
10.00 - 11.00	Satellite Symposium	Symposia S 1 - S 5	Poster Session III P 130 - P 251 (odd numbers)	Symposia S 11 - S 15
11.00 - 12.00	Final Colloquium of the DFG Group Grant		Lunch	Plenary Lecture L 6 Dominique Poulain
12.00 - 13.00		Lunch		Lunch and Departure
13.00 - 14.00	“Functions of microglial cells in diseases of the central nervous system”	Poster Session I P 1 - P 129 (odd numbers)		
14.00 - 15.00			Symposia S 6 - S 10	
15.00 - 16.00		Plenary Lecture L 2 Bente Finsen		
16.00 - 17.00	Arrival and Registration	Poster Session II P 1 - P 129 (even numbers)	Poster Session IV P 130 - P 251 (even numbers)	
17.00 - 18.00				
18.00 - 19.00	Plenary Lecture L 1 Oliver Brüstle	Plenary Lecture L 3 David H. Rowitch	Plenary Lecture L 5 Giorgio Carmignoto	
19.00 - 20.00	Welcome Reception		Social Event Boat Trip	

# Scientific Program

WEDNESDAY, SEPTEMBER 3, 2003

16.00 – 18.00 Arrival and Registration

18.00 – 19.00 **PLENARY LECTURE I**

Chairperson: Magdalena Götz, Martinsried, Germany

**Oliver Brüstle, University of Bonn, Germany**

ES cell-derived glia: Perspectives for neural repair

**MDC.C AXON I + II**

19.00 **WELCOME RECEPTION**

**MDC.C FOYER**

THURSDAY, SEPTEMBER 4, 2003

9.00 – 12.00 **SYMPOSIA**

9.00 - 12.00 SYMPOSIUM 1

NEUROTRANSMITTER REGULATION OF GLIAL INFLAMMATORY RESPONSES

ORGANIZED BY DOUGLAS L. FEINSTEIN, (UNIVERSITY OF ILLINOIS, USA)

**Douglas L. Feinstein, University of Illinois, USA**

Regulation of inducible nitric oxide synthase by noradrenaline

**Michael T. Heneka, University of Bonn, Germany**

Loss of locus ceruleus neurons potentiates glial inflammation, amyloid- $\beta$  deposition and cognitive decline in APP transgenic mice

**Patrick Michel, Centre de Recherche Fabre, Castres, France**

Neuroprotective function of noradrenaline for dopaminergic Neurons

**Jacques De Keyser, Academisch Ziekenhuis, Groningen, Netherlands**

Perturbations in beta-adrenergic receptor signaling in Multiple Sclerosis and possible contribution to the pathogenesis

**Celia Brosnan, Albert Einstein College of Medicine, New York, USA**

Differential regulation of human astroglial inflammatory responses by extracellular nucleotides

9.00 - 12.00 SYMPOSIUM 2

THE REGULATION OF AND ROLES FOR EXOCYTOTIC RELEASE OF GLUTAMATE FROM ASTROCYTES

ORGANIZED BY PHILIP G. HAYDON (UNIVERSITY OF PENNSYLVANIA MEDICAL SCHOOL PHILADELPHIA, USA)

**Philip G. Haydon, University of Pennsylvania Medical School Philadelphia, USA**

The secretory machinery of astrocytes *in situ*

**Andrea Volterra, University of Lausanne, Switzerland**

Stimulus-secretion coupling in astrocytes and signaling to the synapse

**Alfonso Araque, Institute Cajal, Madrid, Spain**

Synaptic regulation of astrocytic calcium

**Robert Zorec, University of Ljubljana, Slovenia**

Calcium-dependent exocytosis in astrocytes

**LECUTRE HALL VOGT BUILDING**

9.00 - 12.00

SYMPOSIUM 3

MDC.C. DENDRIT II

NEUROENERGETICS: THE CENTRAL ROLE OF GLIAL CELLS

A SYMPOSIUM IN HONOR OF DR. MARCO TSACOPOULOS

ORGANIZED BY LUC PELLERIN (INSTITUTE OF PHYSIOLOGY, LAUSANNE, SWITZERLAND)

**Pierre J. Magistretti, Institute of Physiology, Lausanne, Switzerland**

Nursing role of glia: recent implications for functional brain imaging and a tribute to Marco Tsacopoulos' work

**Jonathan A. Coles, INSERM U438, Grenoble, France**

Glia-neuron transfer of metabolic substrate in bee retina and mammalian peripheral nerve

**Bruce R. Ransom, University of Washington School of Medicine, Seattle, USA**

Astrocytic glycogen and energy metabolism in CNS axons

**Luc Pellerin, Institute of Physiology, Lausanne, Switzerland**

Monocarboxylate transporters in CNS: bridges for the astrocyte-neuron lactate shuttle

**Rolf Gruetter, University of Minnesota, Minneapolis, USA**

Noninvasive measurement of glycogen/glucose and glial neurochemistry *in vivo* using NMR spectroscopy

9.00 - 12.00

SYMPOSIUM 4

MDC.C AXON I

INTERACTIONS BETWEEN DAMAGED NEURONS AND MICROGLIA

ORGANIZED BY H. W. G. M. BODDEKE AND KNUT BIBER (STATE UNIVERSITY GRONINGEN, NETHERLANDS)

**Antonio Contestabile, University of Bologna, Italy**

Damaged neurons induce production of neuroprotective substances from microglia

**Nils. P. Hailer, Hospital of the Goethe-University, Frankfurt/M., Germany**

Killers or watchers - the role of microglial cells in excitotoxic neuronal injury

**Stuart M. Allan, University of Manchester, UK**

Interleukin-1 and neuronal death in the CNS

**Knut Biber, State University Groningen, The Netherlands**

Neuronal chemokine expression: implications for neuron-microglia signaling?

**Wolfgang J. Streit, University of Florida College of Medicine, Gainesville, USA**

Microglia and motoneuron regeneration

9.00 - 12.00

SYMPOSIUM 5

MDC.C AXON II

GLIAL CELL LINEAGES AND GLIAL FATE DETERMINATION

ORGANIZED BY VITTORIO GALLO (CENTER FOR NEUROSCIENCE RESEARCH, WASHINGTON, USA)

**Vittorio Gallo, Center for Neuroscience Research, Washington, USA**

Postnatal NG2 proteoglycan-expressing progenitor cells are intrinsically multipotent and generate functional neurons

**Kristjan Jessen, University College London, UK**

Signals that control Schwann cell specification and myelination

**Paolo Malatesta, MPI for Neurobiology, Martinsried, Germany**

Glial cells generate neurons: cellular and molecular mechanisms of neurogenesis

**Jacqueline Trotter, University of Mainz, Germany**

Enigmatic NG2-expressing glial cells

12.00 - 13.00

LUNCH BREAK

13.00 - 15.00

POSTER SESSION I (P 1 - P 129 - ODD NUMBERS) AND COFFEE BREAK



15.00- 16.00 **PLENARY LECTURE II** **MDC.C AXON I + II**  
Chairperson: Robert Nitsch, Berlin, Germany  
*Bente Finsen, University of Southern Denmark, Odense, Denmark*  
Microglial cell population dynamics in injured adult CNS

16.00 – 18.00 **POSTERSESSION II (P 1 - P 129 - EVEN NUMBERS) AND COFFEE BREAK**

18.00 – 19.00 **PLENARY LECTURE III** **MDC.C AXON I + II**  
Chairperson: Carmen Birchmeier, Berlin, Germany  
*David H. Rowitch, Dana-Farber Cancer Institute, Boston USA*  
Olig2 regulation and function during CNS development and tumorigenesis

## FRIDAY, SEPTEMBER 5. 2003

9.00 – 10.00 **PLENARY LECTURE IV** **MDC.C AXON I + II**  
Chairperson: Anne Baron-van Evercooren, Paris, France  
*Marie T. Filbin (Hunter College, New York, USA)*  
Receptors, ligands and signaling - synergistic or redundant forces to inhibit axonal regeneration by myelin?

10.00 – 12.00 **POSTER SESSION III (POSTER P 130 - P 251 - ODD NUMBERS) AND COFFEE BREAK**

12.00 – 13.00 **LUNCH BREAK**

13.00 – 16.00 **SYMPOSIA**

13.00 - 16.00 **SYMPOSIUM 6** **MDC.C DENDRIT II + III**  
INTERACTIONS BETWEEN GLIAL CELLS AND BLOOD PROTEINS IN NERVOUS SYSTEM PATHOPHYSIOLOGY  
ORGANIZED BY KATERINA AKASSOGLOU (NEW YORK UNIVERSITY MEDICAL CENTER, USA) AND  
STELLA TSIRKA (STATE UNIVERSITY OF NEW YORK AT STONY BROOK, USA)  
*Joel Levine, State University of New York at Stony Brook, USA*  
Functions of the NG2 proteoglycan in brain injury and repair  
*Hans Lassmann, University of Vienna, Austria*  
Microvessel pathology and blood brain barrier disturbance in Multiple Sclerosis lesions  
*Katerina Akassoglou, New York University Medical Center, USA*  
Fibrin functions and signaling in nervous system regeneration  
*Stella Tsirka, State University of New York at Stony Brook, USA*  
Tissue plasminogen activator and microglial activation  
*Barry Festoff, University of Kansas School of Medicine, Kansas City, USA*  
Thrombin/PAR signaling in neurons and glial cells and proinflammatory responses to CNS injury

13.00 - 16.00 **SYMPOSIUM 7** **LECTURE HALL VOGT BUILDING**  
EXPRESSION AND FUNCTION OF METABOTROPIC GLUTAMATE RECEPTORS ON MICROGLIA AND ASTROCYTES  
ORGANIZED BY JENNIFER POCOCK AND DEANNA TAYLOR (UNIVERSITY COLLEGE LONDON, UK)  
*Eleanora Aronica, Academic Medical Center, Amsterdam, Netherlands*  
Expression and functional role of mGlu receptors in rat and human reactive astrocytes  
*Renata Ciccarelli, University of Chieti Medical School, Italy*  
Functional interactions between metabotropic receptors of purines and glutamate in astrocytes

**Jennifer Pocock, University College London, UK**

Expression and function of microglial metabotropic glutamate receptors; implications for microglial reactivity and neurotoxicity

**Ken McCarthy, University of North Carolina, Chapel Hill, USA**

The role of metabotropic glutamate receptors in astrocytic-neuronal interactions *in situ*

13.00 - 16.00

SYMPOSIUM 8

**MDC LOHMANN ROOM**

THE GLIAL EXTRACELLULAR MATRIX

ORGANIZED BY HERBERT M. GELLER (NATIONAL INSTITUTE OF HEALTH, BETHESDA, USA)

**Herbert M. Geller, National Institute of Health, Bethesda, USA**

Neuronal guidance by astrocyte extracellular matrix

**James Fawcett, University of Cambridge, UK**

The role of proteoglycans in axon regeneration and plasticity

**Andreas Faissner, Ruhr-University Bochum, Germany**

Glial-derived extracellular matrix in neural development and regeneration

**Charles ffrench-Constant, University of Cambridge, UK**

Integrin/growth factor interactions as regulators of neural development

13.00 - 16.00

SYMPOSIUM 9

**MDC.C AXON II**

INNATE IMMUNITY IN THE CNS: ROUTES TO HOST DEFENSE AND TISSUE REPAIR

ORGANIZED BY PHILIPPE GASQUE (UWCM, CARDIFF, UK)

**Philippe Gasque, UWCM, Cardiff, UK**

The AA4 stem cell marker antigen (CD93) is abundantly expressed by ramified microglia, a subset of granular neurons and endothelial cells following CNS stroke inflammation

**Serge Rivest, Centre Hospitalier de l'Université Laval, Québec, Canada**

Molecular insights on the cerebral innate immune system: TLRs and NF- $\kappa$ B signaling cascade in microglial cells *in vivo*

**Scott Barnum, UAB, Birmingham, USA**

C3, the central complement protein in demyelinating disease?

**Philip Stahel, Free University of Berlin, Germany**

The impact of posttraumatic neuroinflammation in traumatic brain injury

**Cornelia Speth, Institute of Hygiene and Social Medicine, Innsbruck, Austria**

The role of complement in viral infection: a two-edged sword?

13.00 - 16.00

SYMPOSIUM 10

**MDC.C AXON I**

SIGNALS THAT INFLUENCE MYELIN-FORMING CELL SPECIFICATION/DIFFERENTIATION IN DEVELOPMENT AND AFTER INJURY

ORGANIZED BY MONIQUE DUBOIS-DALCQ (INSTITUT PASTEUR, PARIS, FRANCE) AND LYNN D. HUDSON (NATIONAL INSTITUTE OF HEALTH, BETHESDA, USA)

**Ueli Suter, Institute of Cell Biology ETH-Hoenggerberg, Zurich, Switzerland**

Neuron-glia interactions: Lessons from development and disease of the nervous system

**Patrizia Casaccia-Bonnel, UMDNJ R.Wood Johnson Medical School, Piscataway, USA**

What can we learn about myelination by studying modifications of chromatin components?

**Patrick Küry, University of Düsseldorf, Germany**

Mash2, a transcriptional regulator of Schwann cell growth and differentiation

**Eva-Maria Krämer, University of Mainz, Germany**

Raft-mediated src kinase signalling in oligodendrocyte differentiation and myelination

**Lynn Hudson, National Institute of Health, USA**

What neuronal cues direct oligodendrocytes to remyelinate?

18.00 – 19.00

**PLENARY LECTURE V**

Chairperson: Harold K. Kimelberg, Albany, USA

**MDC.C AXON I + II**

**Giorgio Carmignoto, University of Padova, Italy**

Exploring the peculiar features of neuron-to-astrocyte signaling

19.00

**SOCIAL EVENT: BOAT TRIP**

**SATURDAY, SEPTEMBER 6, 2003**

9.00 – 12.00

**SYMPOSIA**

9.00 - 12.00

**SYMPOSIUM 11**

**MDC.C AXON I**

**MYELIN REPAIR IN THE CNS – HOW CLOSE ARE WE TO THERAPY?**

ORGANIZED BY ROBIN J. M. FRANKLIN (UNIVERSITY OF CAMBRIDGE, UK) AND FRANCOIS LACHAPELLE (CHU PITIÉ SALPÊTRIÈRE, PARIS, FRANCE)

**Robin J. M. Franklin, University of Cambridge, UK**

Mechanisms of spontaneous CNS remyelination

**Bert A. 'tHart, Biomedical Primate Research Center, Rijswijk, Netherlands**

The immunopathogenesis of inflammatory demyelinating disease in nonhuman primates

**Gianvito Martino, San Raffaele Scientific Institute, Milan, Italy**

Neural stem cell transplantation in EAE - a way to induce remyelination?

**Francois Lachapelle, CHU Pitié Salpêtrière, Paris, France**

Schwann cell transplantation in a primate model of CNS demyelination

9.00 - 12.00

**SYMPOSIUM 12**

**MDC.C DENDRIT II + III**

**POINT – COUNTERPOINT: WHAT IS THE ROLE OF GAP JUNCTIONS IN GLIAL CELL FUNCTION?**

ORGANIZED BY MARIO DELMAR (SUNY UPSTATE MEDICAL UNIVERSITY, SYRACUSE, USA)

**Roberto Bruzzone, University of Heidelberg, Germany**

Overview: Gap junctions, connexons and connexins

Part I. Are gap junctions neuroprotective during brain ischemia/injury?

**Christian Naus, University of British Columbia, Vancouver, Canada**

Are gap junctions neuroprotective during brain ischemia/injury? - Point

**Jose Luis Perez Velazquez, Toronto, Canada**

Are gap junctions neuroprotective in brain ischemia/injury?-Counterpoint

Part II. Are there functional connexin hemichannels in glia?

**Rolf Dermietzel, Ruhr University Bochum, Germany**

Are there functional connexin hemichannels in glia? - Point

**David C. Spray, Albert Einstein College of Medicine, Bronx NY, USA**

Are there functional connexin hemichannels in glia? - Counterpoint

9.00 - 12.00

SYMPOSIUM 13

LIPID RAFTS AND GLIA FUNCTION

ORGANIZED BY BERND HAMPRECHT (UNIVERSITY OF TÜBINGEN, GERMANY)

LECTURE HALL VOGT BUILDING

**Elina Ikonen, National Public Health Institute, Helsinki, Finland**

Role of cholesterol-sphingolipid rafts in membrane trafficking and signal transduction

**Frank W. Pfriege, CNRS UPR-2356, Strasbourg, France**

Glial-derived cholesterol promotes synaptogenesis

**Steven E. Pfeiffer, University of Connecticut, Farmington, USA**

Antibody crosslinking of Myelin Oligodendrocyte Glycoprotein (MOG) leads to its rapid repartitioning into detergent insoluble fractions, and altered protein phosphorylation and cell morphology

**Mart Saarma, University of Helsinki, Finland**

Role of lipid rafts in neurotrophic factor signaling

9.00 - 12.00

SYMPOSIUM 14

MICROGLIA IN DEMENTIA

ORGANIZED BY KLAUS FASSBENDER (UNIVERSITY OF GÖTTINGEN, GERMANY) AND UWE-KARSTEN HANISCH (UNIVERSITY OF APPLIED SCIENCES LAUSITZ, SENFTENBERG, GERMANY)

MDC.C AXON II

**Richard Banati, Imperial College, London, UK**

Peripheral benzodiazepine binding sites in neurodegenerative brain disease

**Klaus Fassbender, University of Göttingen, Germany**

Mechanisms of microglial activation by Alzheimer amyloid peptide

**Karsten-Uwe Hanisch, University of Applied Sciences Lausitz, Senftenberg, Germany**

Integration of extracellular signals in microglia

**Jari Koistinaho, University of Kuopio, Finland**

Inhibition of microglial activation by minocycline, a neuroprotective tetracycline antibiotic

**Piet Eikelenboom, Valeriuskliniek, Amsterdam, The Netherlands**

The role of activated microglia and Abeta associated proteins in the pathogenesis of Alzheimer disease

**Patrick L. McGeer, University of British Columbia, Vancouver, Canada**

What Alzheimer disease has taught us about the nature of inflammation

9.00 - 12.00

SYMPOSIUM 15 (ISN SYMPOSIUM)

ROLES OF CANNABINOIDS IN THE CONTROL OF GLIAL CELL FUNCTION

ORGANIZED BY MANUEL GUZMÁN (COMPLUTENSE UNIVERSITY, MADRID, SPAIN) AND NEPHI STELLA (UNIVERSITY OF WASHINGTON, SEATTLE, USA)

MDC LOHMANN ROOM

**Nephi Stella, University of Washington, Seattle, USA**

Endocannabinoids are produced by glial cells and regulate their function

**Eduardo Molina-Holgado, Institute Cajal, Madrid, Spain**

Oligodendrocytes as targets of cannabinoids: Protective actions

**Guillermo Velasco, Complutense University, Madrid, Spain**

Cannabinoids protect astrocytes from apoptosis

**Laurent Venance, Collège de France, Paris, France**

Cannabinoids control intercellular calcium signalling between astrocytes

**Roger Pertwee, University of Aberdeen, UK**

Cannabinoids and Multiple Sclerosis

**Ismael Galve-Roperh, Complutense University, Madrid, Spain**

Anti-tumoral action of cannabinoids in malignant gliomas

12.00 – 13.00

**PLENARY LECTURE VI**

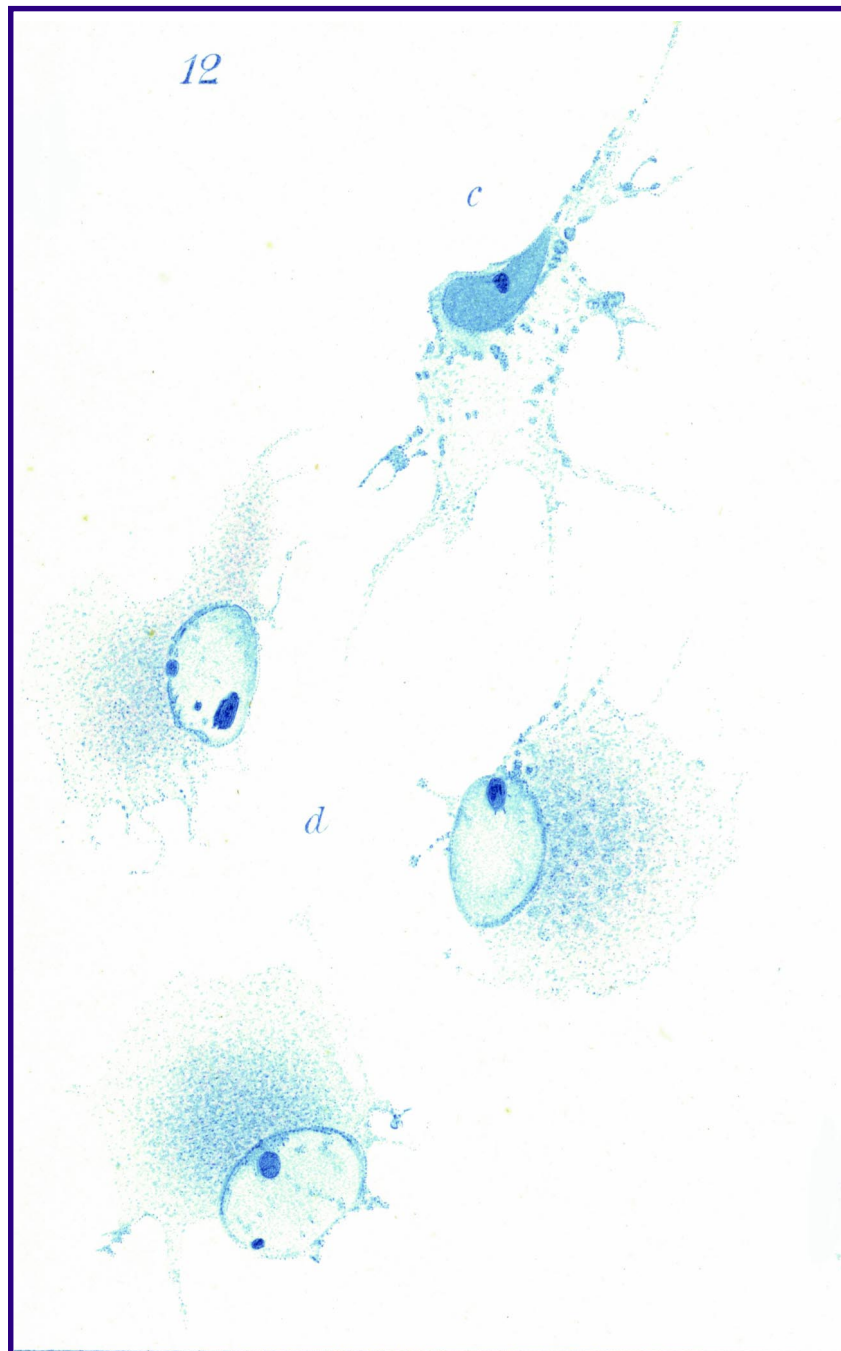
Chairperson: Eva Sykova, Prague, Czech Republic

**MDC.C AXON I + II**

*Dominique Poulain, University Victor Segalen, Bordeaux, France*  
Hypothalamic neuroglial remodelling and its functional significance

13.00 – 14.00

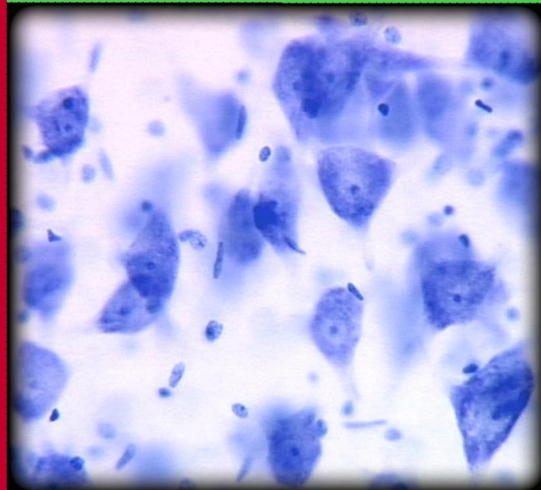
**LUNCH AND DEPARTURE**



*Franz Nissl, Histologische und Histopathologische Arbeiten über die Grosshirnrinde, 1904 (Table IX, Fig. 12: Glial Cells)*

# STEREO INVESTIGATOR

$$\text{est } S_V = 2(p/l) \frac{\sum_{i=1}^n I_i}{\sum_{i=1}^n P_i}$$



$$\hat{S} = 2\pi \sum_{j=1}^{2r} \ell_j^2 \cdot c(\beta)$$

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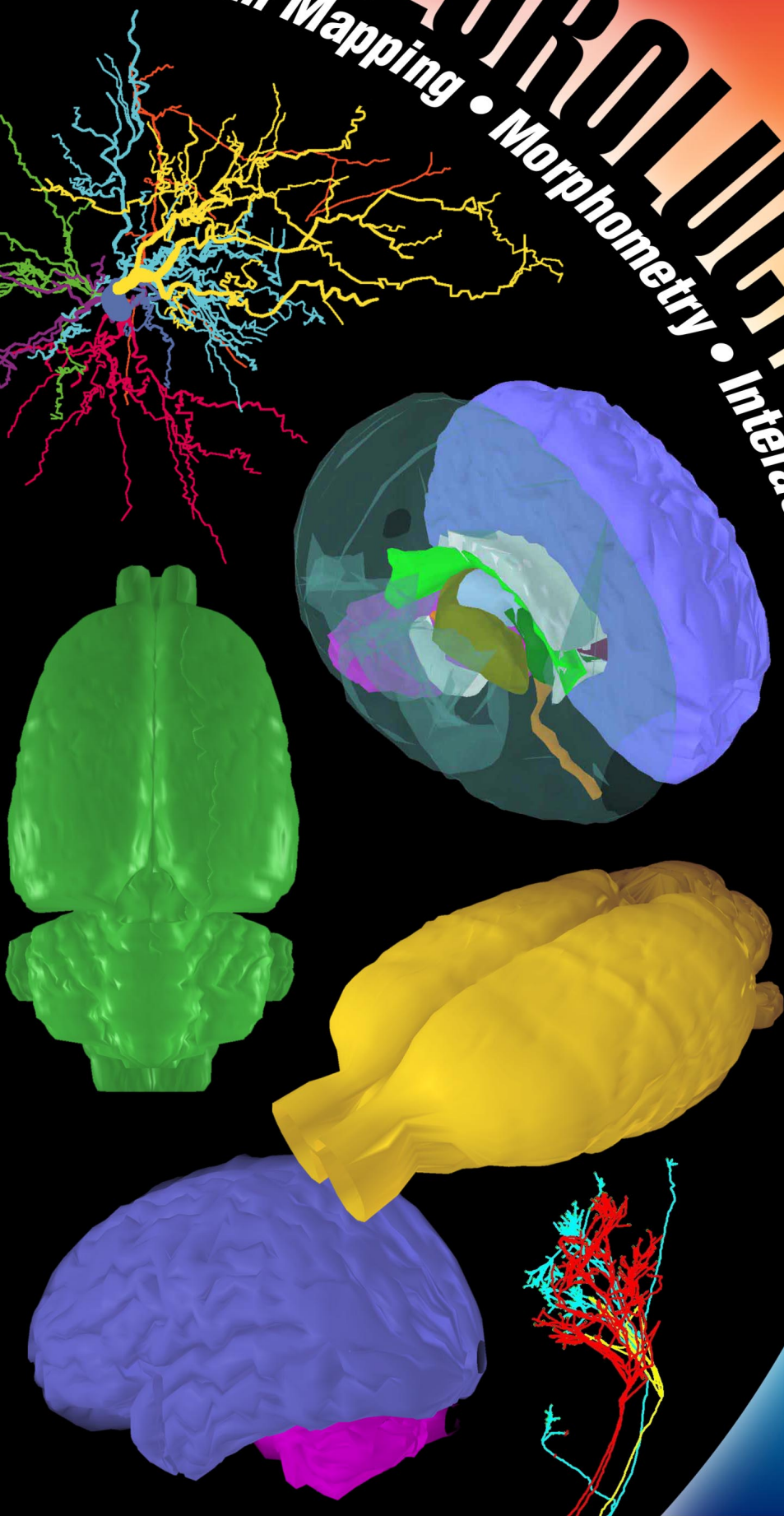
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# Poster sessions I and II

## CELL PROLIFERATION AND LINEAGE (P 1 - P 18)

P 1

CYLIN D1, TRANSGLUTAMINASE, AND HEME-OXYGENASE IN STEROID-GROWTH FACTOR CO-TREATED PRIMARY ASTROGLIAL CELL CULTURES

Ientile<sup>1</sup>, R.; Caccamo<sup>1</sup>, D.; Campisi<sup>2</sup>, A.; Cannavò<sup>1</sup>, G.; Currò<sup>1</sup>, M.; Li Volti<sup>2</sup>, G.; Raciti<sup>2</sup>, G.; Mazza<sup>2</sup>, F.; Macaione<sup>1</sup>, S.; Vanella<sup>2</sup>, A.; Avola,<sup>3</sup>R.\*

<sup>1</sup>Dept. of Biochemical Sciences, University of Messina, <sup>2</sup> Dept. of Biological Chemistry, Medical Chemistry and Molecular Biology; <sup>3</sup>Dept. of Chemical Sciences, Section of Biochemistry, University of Catania, Italy

P 2

HETEROGENEITY IN PERINATAL OLIGODENDROCYTE PERCUSOR CELLS

Bousslama, L.\*; Sotelo, C.; Dusart, I.

UMR 7102, 9 quai Saint Bernard 75005 Paris, France

P 3

THE ECTO-ATPASE NTPDASE2 IS EXPRESSED BY ASTROCYTIC TYPE-B CELLS OF THE ADULT NEUROGENIC SUBVENTRICULAR ZONE AND IN GERMINAL ZONES OF THE DEVELOPING RAT BRAIN

<sup>1</sup>Braun, N.\*; <sup>2</sup>Sévigny, J.; <sup>1</sup>Mishra, S. K.; <sup>3</sup>Robson, S. C.; <sup>4</sup>Barth, S. W.; <sup>5</sup>Gerstberger, R.; <sup>1</sup>Hammer, K.; <sup>1</sup>Zimmermann, H. <sup>1</sup>J.W. Goethe-Universitaet, Zoologisches Institut, Frankfurt, Germany, <sup>2</sup>Centre de Recherche en Rhumatologie et Immunologie, Sainte-Foy, Canada, <sup>3</sup>Harvard Medical School, Boston, Massachusetts, <sup>4</sup>Bundesforschungsanstalt für Ernährung, Karlsruhe, Germany, <sup>5</sup>Universitaet Gießen, Gießen, Germany

P 4

IN VITRO AND IN VIVO FATE POTENTIAL OF THE OLIGODENDROCYTE PRECURSOR CELL

Gaughwin, P. M.\*; Chandran, S.; Caldwell, M. A.; Compston, D. A. S.

University of Cambridge Centre for Brain Repair

P 5

THE NEURONAL AND GLIAL PROGENY OF RADIAL GLIA

Götz, M.\*; Haubst, N.; Malatesta, P.; Hack, M.

MPI of Neurobiology, Am Klopferspitz 18A, D-82152 Martinsried/Munich, Germany

P 6

ISOLATION OF NEURONAL AND GLIAL CNS PRECURSOR CELLS AND THEIR MOLECULAR CHARACTERIZATION

Hack, M. A.; Heins, N.; Malatesta, P.; Götz, M.\*

Max Planck Institute of Neurobiology, D-82152 Martinsried-Munich, Germany

P 7

STROGLIAL DEVELOPMENT IN THE LOWER BRAIN STEM AND CEREBELLUM, AS VISUALIZED USING THE IMMUNOHISTOCHEMICAL DETECTION OF NESTIN: EARLY APPEARANCE OF ASTROCYTES

Kálmán, M.\*

Dept. of Anatomy, Histology and Embryology, Semmelweis Univ., Budapest, Hungary

P 8

IMMORTALIZATION OF TPA<sup>-/-</sup> MICROGLIA

Kokkosis, A. A.\*; Tsirka, S. E.

Department of Pharmacology, State University of New York at Stony Brook, USA

P 9

ACTIVATED MICROGLIA EXPRESS THE HAEMATOPOIETIC STEM CELL MARKER CD34 DURING PROLIFERATION AFTER CNS INJURY

Ladeby, R.1\*; Wirenfeldt, M.1; Dalmau, I.1; García Ovejero, D.2; Finsen, B.1

<sup>1</sup>Anatomy and Neurobiology, University of Southern Denmark, Odense, Denmark <sup>2</sup>Department of Neural Plasticity, Cajal Institute, Madrid, Spain

P 10

LYSOPHOSPHATIDIC ACID REGULATION OF CEREBELLAR RADIAL GLIA PHENOTYPE

Leprince, P.\*; Chanas, G.; Wislet, S.; Deroanne, C.; Rogister, B.

Center for Molecular and Cellular Neurobiology, University of Liège, 17 place Delcour, 4020 Liège, Belgium

P 11

GENERATION OF A TRANSGENIC MOUSE MODEL TO ASSESS THE FUNCTION OF GLIAL CELLS MISSING IN NEURAL SPECIFICATION

Nait-Oumesmar, B.\*; Maire, C.; Deboux, C.; Lazzarini, R. A.1; Baron-Van Evercooren, A.

INSERM U 546, CHU Pitié-Salpêtrière, Paris. <sup>1</sup>Dept. of Mol., Cell. & Dev. Biol., Mount Sinai School of Medicine, New York, NY, USA

P 12

OLIGODENDROCYTE PROLIFERATION IN RESPONSE TO WALLERIAN DEGENERATION IN MURINE CNS

Nielsen, H. H.\*; Drøjdahl, N.; Ladeby, R.; Peterson, A. C.; Finsen, B.

Anatomy and Neurobiology, Institute of Medical Biology, SDU-Odense, Denmark, and Molecular Oncology Group, McGill University

P 13

BRAIN DENDRITIC CELLS: ORIGIN, MATURATION, FUNCTION

Reichmann<sup>1</sup>, G.\*; Schwarzenberg<sup>1</sup>, A.; Jander<sup>2</sup>, S.; Schlüter<sup>3</sup>, D.; Fischer<sup>1</sup>, H. G.

<sup>1</sup> Inst. for Med. Microbiology, Heinrich-Heine-University, Düsseldorf, <sup>2</sup> Dept. of Neurology, Heinrich-Heine-University Düsseldorf, <sup>3</sup> Inst. for Med. Microbiology and Hygiene, University Mannheim-Heidelberg, Germany

P 14

GENERATION OF NEURONS AND GLIA FROM CORTICAL PRECURSORS: A TIME LAPSE STUDY

Pringle, N. P.; Forster, U.; Callard, N.; Kessar, N.; Richardson, W. D.\*

Wolfson Institute for Biomedical Research and Department of Biology, University College London, Gower Street, London WC1E 6BT, UK

P 15

DISTRIBUTION PATTERN OF TENASCIN-R IN THE VISUAL PATHWAY OF THE LIZARD GALLOTIA GALLOTI

<sup>1</sup>Santos, E.\*; <sup>1</sup>Casañas, N.; <sup>1</sup>Viñoly, R.; <sup>2</sup>Romero Alemán, M. M.; <sup>1</sup>Yanes, C.; <sup>3</sup>Lang, D.; <sup>2</sup>Monzón-Mayor, M.

<sup>1</sup>University of La Laguna, Canary Islands, Spain, <sup>2</sup>University of Las Palmas de Gran Canaria, C. Islands, Spain, <sup>3</sup>University of Cape Town, South Africa



**P 16**

**MICROGLIA GIVE RISE TO NEURONS, ASTROCYTES, OR OLIGODENDROCYTES**

Tanaka, J.\*; Yokoyama, Y.; Yang, L.  
*Department of Physiology, Ehime University School of Medicine*

**P 17**

**INDUCTION OF CELL PROLIFERATION BY A DEVASCULARIZING LESION IN RAT CORTEX**

Walz, W.\*; Wang, K.  
*Department of Physiology, University of Saskatchewan, Saskatoon, Canada*

**P 18**

**A2B5 LINEAGES OF HUMAN ASTROCYTIC TUMORS AND THEIR RECURRENCE**

Xia<sup>1</sup>, C.-L.\*; Du<sup>1</sup>, Z.; Chan<sup>2</sup>, W.  
<sup>1</sup>*Medical College of Soochow University, Suzhou 215007, China* ; <sup>2</sup>*Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, China*

## TROPHIC FACTORS (P 19 - P 26)

**P 19**

**TARGETED TRANSPORT OF THE STEALTH IMMUNOLIPOSOMES TO THE BRAIN ASTROCYTES**

Chekhonin, V. P.\*; Zhirkov, Y. A.; Gurina, O. I.; Rjabukhin, I. A.; Dmitrieva, T. B.  
*Laboratory of Immunochemistry, Serbsky National Research Center for Social and Forensic Psychiatry, Kropotkinsky per. 23, 119992 Moscow, Russia*

**P 20**

**INTEGRIN-MEDIATED CONTROL OF SRC-FAMILY KINASES REGULATES CNS MYELINATION**

Cognato, H.\*; Ramachandrapa, S.; Decker, L.; French-Constant, C.  
*Departments of Pathology and Medical Genetics, University of Cambridge, Cambridge CB21QP, UK*

**P 21**

**REGULATION OF OLIGODENDROCYTE CELL SURVIVAL BY LIPID RAFTS AND INTEGRIN ACTIVATION**

Decker, L.\*; French-Constant, C.  
*Department of Pathology, University of Cambridge, UK*

**P 22**

**A ROLE FOR TGF- $\beta$ 1, FGF-2 AND PDGF-AA IN MYELINATION OF CNS AGGREGATE CULTURES ENRICHED WITH MACROPHAGES**

Diemel, L. T.\*; Jackson, S. J.; Cuzner, M. L.  
*Department of Neuroinflammation, Institute of Neurology, University College London, London, WC1N 1PJ, UK*

**P 23**

**HIV-DRIVEN BDNF AND NT3 OVEREXPRESSION PROMOTE ADULT MACAQUE SCHWANN CELLS PARTICIPATION IN MYELIN REPAIR AND AXONAL PROTECTION**

Girard<sup>1</sup>, C.\*; Bachelin<sup>1</sup>, C.; Dufour<sup>2</sup>, N.; Bebelmans<sup>2</sup>, A.; Baron-van Evercooren<sup>1</sup>, A.; Lachapelle<sup>1</sup>, F.  
<sup>1</sup> *INSERM U546, BIOVECTIS, Pitié-Salpêtrière, Paris, France*

**P 24**

**RPTP $\beta$ , A RECEPTOR PROTEIN TYROSINE PHOSPHATASE REGULATING MYELINATION**

Harroch, S.\*; Vacaresse, N.; Murray, K.; Lambrianou, S.  
*The Pasteur Institute. Department of Neurosciences. Unit of Neurovirology and regeneration of the nervous system. 75 724 Paris, France*

**P 25**

**TGF- $\beta$  REVERSES THE DELETERIOUS EFFECT OF LONG-TERM SCHWANN CELL DENERVATION ON NERVE REGENERATION BY INDUCING ERBB3 RECEPTOR EXPRESSION**

Sulaiman<sup>1</sup>, O. A. R.\*; Gordon<sup>2</sup>, T.  
<sup>1</sup>*Section of Neurosurgery, University of Manitoba, Winnipeg, Canada R3A 1R9*; <sup>2</sup>*Ctr for Neuroscience, University of Alberta, Edmonton, Alberta T6G 2S2, USA*

**P 26**

**RESENSITISATION OF P2Y RECEPTORS BY RECEPTOR TYROSINE KINASES ON CULTURED RETINAL GLIA CELLS**

Weick, M.<sup>1\*</sup>; Milenkovic, I.<sup>2</sup>; Bringmann, A.<sup>3</sup>; Reichenbach, A.  
<sup>1</sup> *Paul Flechsig Institut for Brain Research, University of Leipzig*, <sup>2</sup> *Zoological Institut, Bioscience Department, University of Leipzig*, <sup>3</sup> *Department of Ophthalmology, Eye Hospital, University of Leipzig*

## APOPTOSIS AND CELL DEATH (P 27 - P 43)

**P 27**

**DIFFERENT PATTERNS OF GLIAL REACTIVITY AND NEURODEGENERATION AFTER AN EXCITOTOXIC LESION IN THE OLD VERSUS ADULT RAT BRAIN**

Castillo-Ruiz, M. M.\*; Campuzano, O.; Acarin, L.; Gonzalez, B.; Castellano, B.  
*Dpt. Cell Biol, Physiol and Immunol, Autonomous Univ of Barcelona, Spain*

**P 28**

**SUBCELLULAR DISTRIBUTION OF SIGNALING COMPONENTS DURING PHAGOCYTOSIS IN MICROGLIA: EFFECT OF FIBRILLAR PRION PEPTIDE**

Ciesielski-Treska, J.\*; Ulrich, G.; Grant, N. J.; Corrotte, M.; Chasserot-Golaz, S.; Bader, M. F.  
*CNRS UPR 2356 Neurotransmission et Sécrétion Neuroendocrine, 5 rue Blaise Pascal 67084 Strasbourg Cedex, France*

**P 29**

**THE INFLUENCE OF SYSTEMIC INFECTION ON CHRONIC CNS INFLAMMATION AND NEURODEGENERATION**

Cunningham, C.\*; Hugh Perry, V.  
*University of Southampton, School of Biological Sciences, Bassett Crescent East, SO16 7PX Southampton, UK*

- P 30** INTERLEUKIN-10 MODULATES THE IMMUNE STIMULANT EFFECT OF BILIRUBIN IN RAT ASTROGLIAL CELLS  
Fernandes, A.\*; Falcao, A. S.; Silva, R. F. M.; Brito, M. A.; Brites, D.  
*Centro de Patogénese Molecular, Faculdade de Farmacia, University of Lisbon, Portugal*
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Bozzali, M.\*; Campanella, S.; Pizzagalli, A.; Bagnacani, A.; Nisoli, I.; Feltri, M. L.; Wrabetz, L.

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Karbanová, J.\*; Mokry, J.; Mazurová, Y.

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**CALCIUM SIGNALLING TRIGGERED BY CALCITONIN GENE-RELATED PEPTIDE (CGRP) IN ASTROCYTES**

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Nicchia<sup>1,2\*</sup>, G. P.; Scemes<sup>1</sup>, E.; Duval<sup>3</sup>, N.; Frigeri<sup>1,2</sup>, A.; Spray<sup>1</sup>, D. C.<sup>1</sup>Dept of Neuroscience, Albert Einstein College of Medicine, 10461 Bronx, New York, USA; <sup>2</sup>Dept of Gen. and Environ. Physiology, University of Bari, I-70126 Bari, Italy; <sup>3</sup>Inst Pasteur, Unite de Neurovirol. et Regenerat. du Systeme Nerveux, 75015 Paris, France

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GM-CSF INHIBITS MULTINUCLEATED GIANT CELL FORMATION OF PORCINE MICROGLIA *IN VITRO*

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PRIMITIVE HEMATOPOIETIC STEM CELLS ONLY GENERATE MICROGLIA WHEN EXPOSED TO *IN VITRO* AND *IN VIVO* NEURAL ENVIRONMENTSVitry<sup>1</sup>, S.\*; Bertrand<sup>2</sup>, J.; Cumano<sup>2</sup>, A.; Dubois-Dalcq<sup>1</sup>, M.Departments of Neuroscience<sup>1</sup> and Immunology<sup>2</sup>, Pasteur Institute, Paris

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Wang<sup>1</sup>, L. P.\*; Filippov<sup>1</sup>, V.; Kronenberg<sup>2</sup>, G.; Zacharias<sup>1</sup>, R.; Kempermann<sup>2,3</sup>, G.; Kettenmann<sup>1</sup>, H.<sup>3</sup>VolkswagenStiftung Research Group, Dept. of Experimental Neurology, Charité University Hospital, Humboldt University, 10117, Berlin, Germany; <sup>2</sup>Research group „Neuronal stem cell“, <sup>1</sup>Cellular Neurosciences, Max Delbrück Centrum für Molekulare Medizin, 13092, Berlin-Buch, Germany

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## GENE EXPRESSION PROFILING OF THE OLFACTORY SYSTEM

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García-Ovejero, D.<sup>1\*</sup>; Dalmau, I.<sup>2</sup>; Nielsen, M. W.<sup>2</sup>; García-Segura, L. M.<sup>1</sup>; Finsen, B.<sup>2</sup><sup>1</sup>Instituto Cajal (CSIC), Madrid, Spain; <sup>2</sup>University of Southern Denmark, Odense (DK)

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## EXPRESSION OF NOGO-A IN THE AMPHIBIAN CENTRAL NERVOUS SYSTEM

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PHAGOCYtic ACTIVITY OF MICROGLIA IN RESPONSE TO CYTOKINES *IN VITRO* ARE AGE-DEPENDENT

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Alfayate<sup>1</sup>, M. C.\*; Santos<sup>1</sup>, E.; Casañas<sup>1</sup>, N.; Viñoly<sup>1</sup>, R.; Romero-Alemán<sup>2</sup>, M.; Yanes<sup>1</sup>, C.; Monzón-Mayor<sup>2</sup>, M.  
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THE ACTIVITY OF MITOGEN-ACTIVATED PROTEIN KINASE P38 IS CRITICAL FOR PERIPHERAL MYELINATION

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ACTIVATION OF AMPA OR KAINATE RECEPTORS IS SUFFICIENT TO CAUSE WHITE MATTER INJURY

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MODELS OF FOCAL OLIGODENDROCYTE PROGENITOR CELL (OPC) DEPLETION TO STUDY DYNAMICS OF TISSUE COLONISATION BY OPCS IN RAT AND MOUSE

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*Camillo Golgi, Atlas, 1894 (Table 3: Glial cells)*

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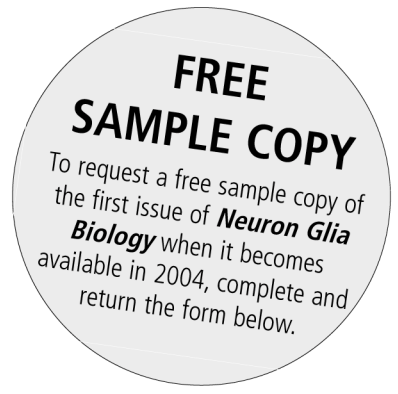
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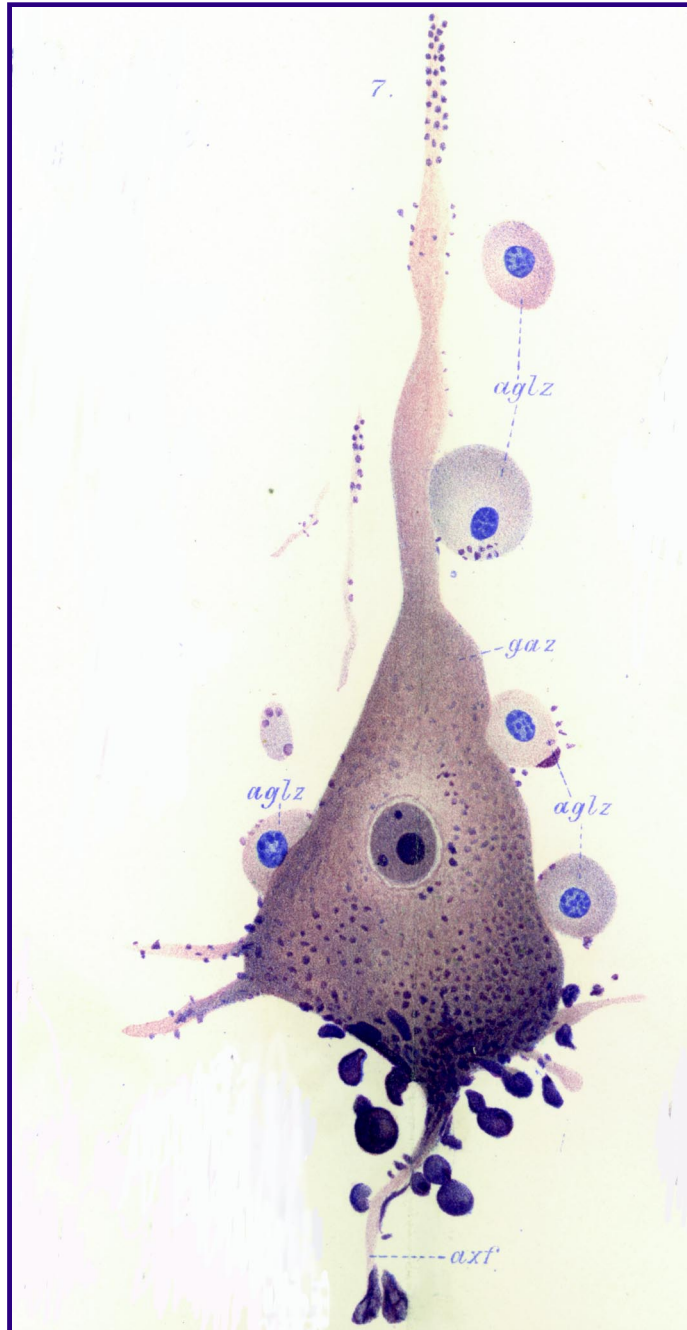
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Austria	3	Nigeria	5
Belgium	7	Poland	5
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Cyprus	1	South Africa	1
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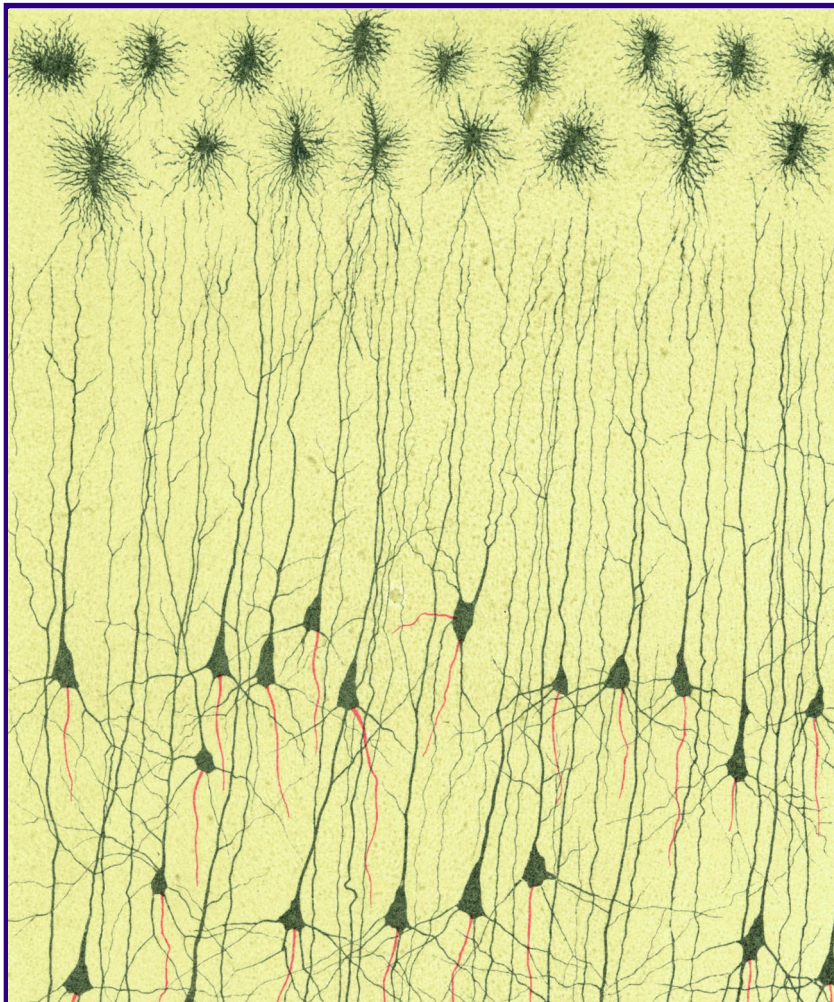
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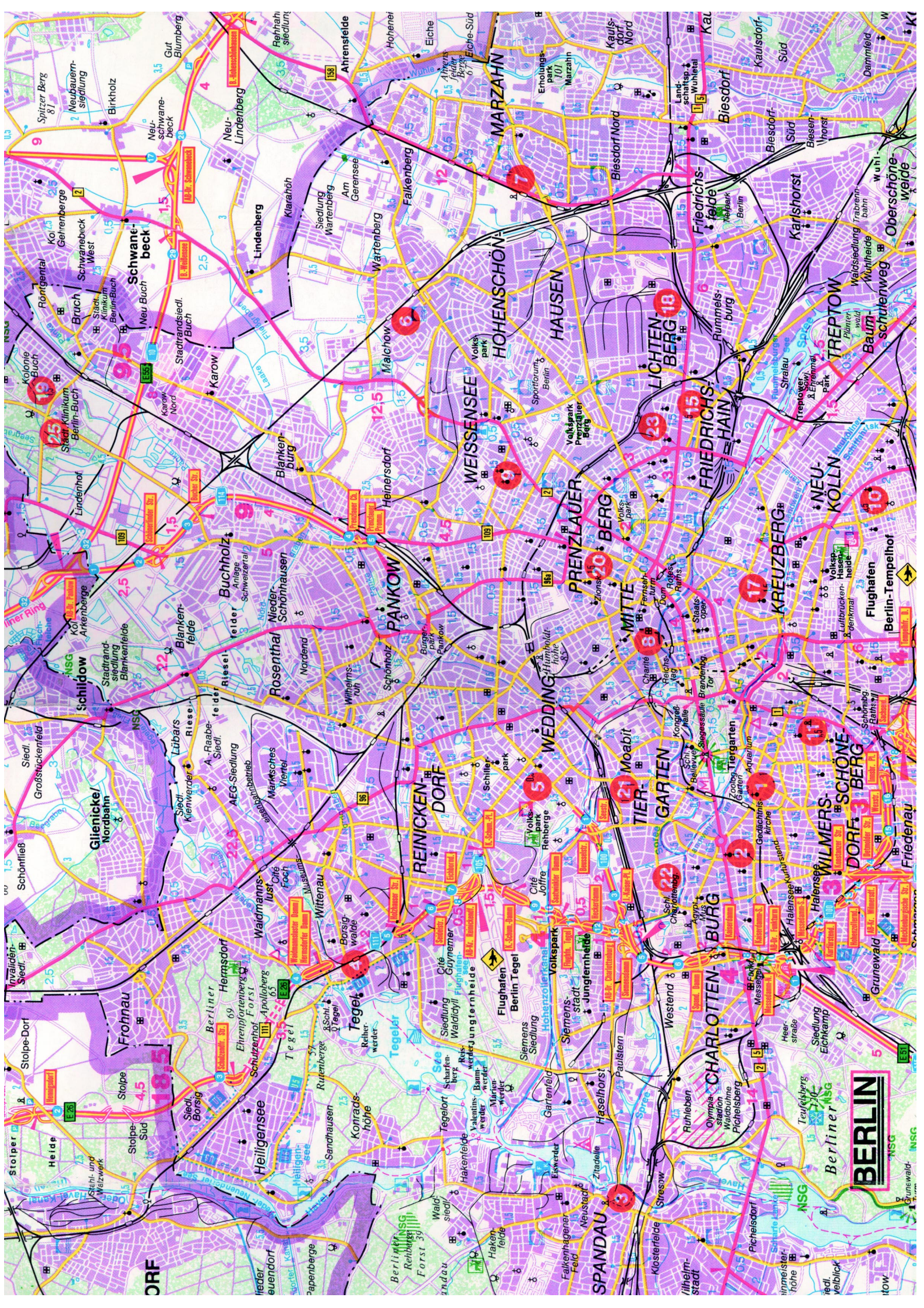
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*Camillo Golgi, Atlas 1894 (Table 9: Glial cells in the cerebellum of a new born cat (on top))*

# Notes

# Notes



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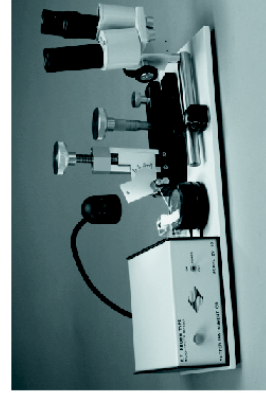
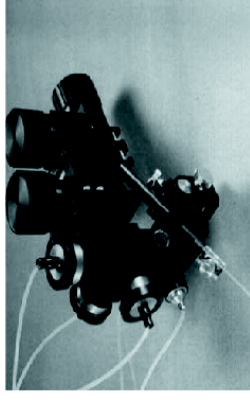
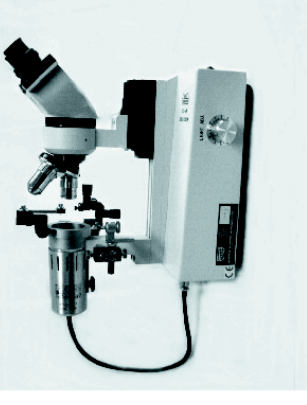
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