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### **DIPLÔMES**

2016      DIU Pathologie Fœtale et Placentaire  
2006      Diplôme d'Habilitation à Diriger des Recherches, Paris XII, Faculté de Médecine, Créteil  
1998      Spécialité en Anatomo-pathologie et Cytopathologie, Faculté de Médecine, Sofia  
1994      Thèse de sciences (PhD), Faculté de Médecine, Sofia  
1989      Docteur en Médecine, Faculté de Médecine, Sofia

### **EXPERIENCE PROFESSIONNELLE**

2018 -      INSERM Unité 1256 - NGERE  
2014 -      Service d'Histologie, Faculté de Médecine de Nancy  
2014 -      Laboratoire de Pathologie Fœtale et Placentaire  
2013      PU-PH d'Histologie, Faculté de Médecine de Nancy  
2008 - 12    MCU-PH dans le même Département  
2004 - 11    Responsable scientifique de la Plate-forme d'Imagerie d'IMRB (IM3)  
2003 - 07    Assistant, Département d'Histologie, Faculté de Médecine, Créteil, CHU Henri Mondor  
2002      Professeur Associé, Département d'Histologie, Faculté de Médecine, Créteil, France  
2000 - 01    Poste vert, INSERM U421, Créteil  
1996 - 99    Assistant, Laboratoire de Neuropathologie, Faculté de Médecine, Sofia,  
1991 - 94    Thèse (Ph.D.), Institut National d'Hygiène et Nutrition, Sofia, Bulgarie

### **COMPETENCES**

- histologie et histopathologie	- microscopie confocale et multiphotonique
- cytologie	- microscopie « time-lapse and real-time »
- morphométrie	- microscopie en illumination structurée
- stéréologie	- immunohistochimie
- biostatistique	- microscopie électronique
- reconstructions et mesures 3D (IRM, CT)	- hybridation in situ
- analyse d'images	- culture cellulaire
- FRET, FRAP	- FLIM

### **LANGUES**

Anglais, Russe

## ARTICLES

### 2020

1. Harb Z, Deckert V, Bressenot AM, Christov C, Guéant-Rodriguez RM, Raso J, Alberto JM, de Barros JP, Umoret R, Biroulet LP, Lagrost L, Bronowicki JP, Guéant JL. The deficit in folate and vitamin B12 triggers liver macrovesicular steatosis and inflammation in rats with dextran sodium sulfate-induced colitis. *J Nutr Biochem.* 2020 May 20;84:108415 [IF 2019 4.5].
2. Losson H, Gajulapalli SR, Lernoux M, Lee JY, Mazumder A, Gérard D, Seidel C, Hahn H, Christov C, Dicato M, Kirsch G, Han BW, Schnekenburger M, Diederich M. The HDAC6 inhibitor 7b induces BCR-ABL ubiquitination and downregulation and synergizes with imatinib to trigger apoptosis in chronic myeloid leukemia. *Pharmacol Res.* 2020 Jun 30:105058 [IF 2019 5.7].
3. Lernoux M, Schnekenburger M, Losson H, Vermeulen H, Hahn H, Gérard D, Jin-Young Lee J-Y, Aloran Mazumder, Muneer Ahamed, Christov C, Kim D-W, Dicato M, Bormans M, Han B-W, Diederich M. Novel HDAC inhibitor MAKV-8 and imatinib synergistically kill chronic myeloid leukemia cells via inhibition of BCR-ABL/MYC-signaling: effect on imatinib resistance and stem cells. *Clinical Epigenetics* 2020 21:69 [IF 2019 5.5].
4. Song S, Lee JY, Ermolenko L, Mazumder A, Ji S, Ryu H, Kim H, Kim DW, Lee JW, Dicato M, Christov C, Schnekenburger M, Cerella C, Gérard D, Orlikova-Boyer B, Al-Mourabit A, Diederich M. Tetrahydrobenzimidazole TMQ0153 triggers apoptosis, autophagy and necroptosis crosstalk in chronic myeloid leukemia. *Cell Death Dis.* 2020;11:109 [IF 2018: 6.20].
5. Ha YN, Song S, Orlikova-Boyer B, Cerella C, Christov C, Kijjoa A, Diederich M. Petromurin C Induces Protective Autophagy and Apoptosis in FLT3-ITD-Positive AML: Synergy with Gilteritinib. *Mar Drugs.* 2020; 18. pii: E57. [IF 2019: 4.40].
6. Grandjenette C, Schnekenburger M, Gaigneaux A, Gérard D, Christov C, Mazumder A, Dicato M, Diederich M. Human telomerase reverse transcriptase depletion potentiates the growth-inhibitory activity of imatinib in chronic myeloid leukemia stem cells. *Cancer Lett.* 2020; 469:468-80. [IF 2018: 6.50].

### 2019

7. Orsini M, Chateauvieux S, Rhim J, Gaigneaux A, Cheillan D, Christov C, Dicato M, Morceau F, Diederich M. Sphingolipid-mediated inflammatory signaling leading to autophagy inhibition converts erythropoiesis to myelopoiesis in human hematopoietic stem/progenitor cells. *Cell Death Differ.* 2019 26:1796-1812. [IF2017:8.00]

### 2018

8. Ji S, Lee JY, Schrör J, Mazumder A, Jang DM, Chateauvieux S, Schnekenburger M, Hong CR, Christov C, Kang HJ, Lee Y, Han BW, Kim KW, Shin HY, Dicato M, Cerella C, König GM, Orlikova B, Diederich M. The dialkyl resorcinol stemphol disrupts calcium homeostasis to trigger programmed immunogenic necrosis in cancer. *Cancer Lett.* 2018; 416:109-123. [IF2017:6.50].
9. Schneider NFZ, Cerella C, Lee J-Y, Mazumder A, Kim KR, de Carvalho A, Munkert J, Pádua RM, Kreis W, Kim K-W, Christov C, Dicato M, Kim H-J, Han BW, Fernão C, Braga BM, Simões CMO, Diederich M. Cardiac Glycoside Glucoevatomonoside Induces Cancer Type-Specific Cell Death. *Front Pharmacol.* 2018;9:70. [IF2017:4.50].

## 2017

10. Yagdi Efe E, Mazumder A, Lee JY, Gaigneaux A, Radogna F, Nasim MJ, Christov C, Jacob C, Kim KW, Dicato M, Chaimbault P, Cerella C, Diederich M. Tubulin-binding anticancer polysulfides induce cell death via mitotic arrest and autophagic interference in colorectal cancer. *Cancer Lett.* 2017;410:139-157 [IF2017:6.50].
11. Tiotiu A, Chenuel B, Foucaud L, Demoulin B, Demoulin-Alexikova S, Christov C, Poussel M. Lack of desensitization of the cough reflex in ovalbumin-sensitized rabbits during exercise. *PLoS One.* 2017; 12(2):e0171862 [IF2016:4.50].

## 2016

12. Uro-Coste E, Forest F, Maurage CA, Vignaud JM, Polivka M, Lechapt-Zalcman E, Eimer S, Viennet G, Quintin-Roué I, Aubriot-Lorton MH, Diebold MD, Loussouarn D, Lacroix C, Rigau V, Laquerrière A, Vandebos F, Michalak S, Sevestre H, Peoch M, Labrousse F, Christov C, Kemeny JL, Chenard MP, Chiforeanu D, Ducray F, Idbaih A, Delattre JY; POLA Network. Mitotic index, microvascular proliferation, and necrosis define 3 pathological subgroups of prognostic relevance among 1p/19q codeleted anaplastic oligodendrogliomas. *Neuro Oncol.* 2016;18: 888-90. [IF2016:6.77]
13. Duan J, Chabot-Lecoanet AC, Perdrille-Galet E, Christov C, Hossu G, Cherifi A, Morel O. Utero-placental vascularisation in normal and preeclamptic and intra-uterine growth restriction pregnancies: third trimester quantification using 3D power Doppler with comparison to placental vascular morphology (EVUPA): a prospective controlled study. *BMJ Open.* 2016 ;6(3):e009909. [IF2015:2.70].
14. Florean C, Schneckeburger M, Lee JY, Kim KR, Mazumder A, Song S, Kim JM, Grandjette C, Kim JG, Yoon AY, Dicato M, Kim KW, Christov C, Han BW, Proksch P, Diederich M. Discovery and characterization of Isofistularin-3, a marine brominated alkaloid, as a new DNA demethylating agent inducing cell cycle arrest and sensitization to TRAIL in cancer cells. *Oncotarget.* 2016;7:24027-49. [IF2015:6.50].

## 2015

15. Radogna F, Cerella C, Gaigneaux A, Christov C, Dicato M, Diederich M. Cell type-dependent ROS and mitophagy response leads to apoptosis or necroptosis in neuroblastoma. *Oncogene.* 2015 35:3839-53. [IF2015: 8.50].
16. Danin PE, Girou E, Legrand P, Louis B, Fodil R, Christov C, Devaquet J, Isabey, D, Brochard L. Description and microbiology of endotracheal tube biofilm in mechanically ventilated subjects. *Respir Care.* 2015;60:21-9. [IF2015: 1.53].

## 2014

17. Birner P, Pusch S, Christov C, Mihaylova S, Toumangelova-Uzeir K, Natchev S, Schoppmann SF, Tchobanov A, Streubel B, Tuettenberg J, Guentchev M. Mutant IDH1 inhibits PI3K/Akt signaling in human glioma. *Cancer.* 2014 ; 15: 2440-7. [IF2010: 4.90].
18. Figarella-Branger D, Mokhtari K, Dehais C, Jouvét A, Uro-Coste E, Colin C, Carpentier C, Forest F, Maurage CA, Vignaud JM, Polivka M, Lechapt-Zalcman E, Eimer S, Viennet G, Quintin-Roué I, Aubriot-Lorton MH, Diebold MD, Loussouarn D, Lacroix C, Rigau V, Laquerrière A, Vandebos F, Michalak S, Sevestre H, Peoch M, Labrousse F, Christov C, Kemeny JL, Chenard MP, Chiforeanu D, Ducray F, Idbaih A; the POLA Network. Mitotic index, microvascular proliferation, and necrosis define 3 groups of 1p/19q codeleted anaplastic oligodendrogliomas associated with different genomic alterations. *Neuro Oncol.* 2014 16:1244-54 [IF2010: 6.20].

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## 2013

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## 2011

22. Acquistapace A, Bru T, Lesault PF, Figeac F, Coudert AE, le Coz O, Christov C, Baudin X, Auber F, Yiou R, Dubois-Randé JL, Rodriguez AM. Human mesenchymal stem cells reprogram adult cardiomyocytes toward a progenitor-like state through partial cell fusion and mitochondria transfer. *Stem Cells.* 2011 ;29::812-24. [IF2007: 7.53]

## 2010

23. Khouzami L, Bourin MC, Christov C, Damy T, Escoubet B, Caramelle P, Perier M, Wahbi K, Meune C, Pavoine C, Pecker F. Delayed cardiomyopathy in dystrophin deficient mdx mice relies on intrinsic glutathione resource. *Am J Pathol.* 2010; 177:1356-64. [IF2007: 5.49]
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## 2009

25. Desguerre I, Mayer M, Christov C, Leturcq F, Chelly J, Gherardi RK. [Phenotypic heterogeneity of Duchenne myopathy and prognosis criteria]. *Arch Pediatr.* 2009;16:681-3. [IF2007: 0.30]
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27. Desguerre I, Christov C, Mayer M, Zeller R, Becane HM, Bastuji-Garin S, Leturcq F, Chiron C, Chelly J, Gherardi RK. Clinical heterogeneity of duchenne muscular dystrophy (DMD): definition of sub-phenotypes and predictive criteria by long-term follow-up. *PLoS One.* 2009;4(2):e4347. [IF 2010: 4.35]

## 2008

28. Vidal B, Serrano AL, Tjwa M, Suelves M, Ardite E, De Mori R, Baeza-Raja B, Martínez de Lagrán M, Lafuste P, Ruiz-Bonilla V, Jardí M, Gherardi R, Christov C, Dierssen M, Carmeliet P, Degen JL,

Dewerchin M, Muñoz-Cánoves P. Fibrinogen drives dystrophic muscle fibrosis via a TGFbeta/alternative macrophage activation pathway. *Genes Dev.* 2008;22:1747-52. [IF2007: 14.80]

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30. Christov C,\* Chrétien F,\* Rana Abou Khalil C, Bassez G, Vallet G, Authier FJ, Bassaglia Y, Shinin V, Tajbakhsh S, Chazaud B, Gherardi RK. Muscle satellite cells and endothelial cells: close neighbours and privileged partners *Mol Cell Biol* 2007 *Mol Cell Biol.* 2007; 18: 1397-409 [IF2007: 6.42]  
\*premiers auteurs
31. Chretien F, Djindjian M, Gherardi R, Christov C. A 42-old man with a densely vascular spinal mass. *Brain Pathol* 2007; 17: 119-21. [IF2007: 3.66]

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33. Aubert M, Badoual M, Féreol S, Christov C, Grammaticos B. A cellular automaton model for the migration of glioma cells. *Phys. Biol.* 2006; 3 93–100. [IF2007: 3.12]
34. Authier FJ, Sauvat S, Christov C, Chariot P, Raisbeck G, Poron MF, Yiou F, Gherardi RK. Al(OH)3-adjuvanted vaccine-induced macrophagic myofasciitis in rats is influenced by the genetic background. *Neuromuscular Disorders* 2006, 16: 347-52. [IF2007: 2.67]
35. Demoule A, Decailliot F, Jonson B, Christov C, Maitre B, Touqui L, Brochard L. Relationship between pressure-volume curve and markers for collagen turn-over in early acute respiratory distress syndrome *Intensive Care Med* 2006; 32:413–420 [IF2007: 2.31]

## 2005

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38. Oliveira R\*, Christov C\*, Guillamo JS, de Bouard S, Palfi S, Venance L, Tardy M, Peschanski M. Contribution of gap junctional communication between tumor cells and astroglia to the invasion of the brain parenchyma by human glioblastomas. *BMC Cell Biol* 2005;6(1):7 [IF2007: 2.62] \* premiers auteurs

## 2004

39. Palfi S, Swanson KR, De Bouard S, Chretien F, Oliveira R, Gherardi RK, Kros JM, Peschanski M, Christov C. Correlation of in vitro infiltration with glioma histological type in organotypic brain slices. *Br J Cancer.* 2004; 91: 745-52. [IF2007: 4.64]
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41. Laurent N, de Bouard S, Guillamo JS, Christov C, Zini R, Jouault H, Andre P, Lotteau V, Peschanski M. Effects of the proteasome inhibitor ritonavir on glioma growth in vitro and in vivo. *Mol Cancer Ther* 2004; 3: 129-36. [IF2003: 3.21]

### 2003

42. De Bouard S, Guillamo JS, Christov C, Lefèvre N, Brugières P, Cola E, Devanz P, Indraccolo S, Peschanski M. Antiaangiogenic therapy of experimental glioma using genetically engineered cells producing interferon- $\alpha$ , angiostatin, or endostatin. *Human Gene Therapy* 2003, 14: 883-95. [IF2001: 5.75]

### 2002

43. de Bouard S\*, Christov C\*, Guillamo JS, Kassar-Duchossoy L, Palfi S, Leguerinel C, Masset M, Cohen-Hagenauer O, Peschanski M, Lefrancois T. Invasion of human glioma biopsy specimens in cultures of rodent brain slices: a quantitative analysis. *J Neurosurg* 2002; 97: 169-76. [IF2001: 2.75] \*  
\*premiers auteurs

### 2001

44. Chazaud B, Ricoux R, Christov C, Plonquet A, Gherardi RK, Barlovatz-Meimon G. Promigratory effect of plasminogen activator inhibitor-1 on invasive breast cancer cell populations. *Am J Pathol* 2002; 160: 237-46. [IF2001: 7.10]
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### 1999

46. Christov C, Adle-Biassette H, Le Guerinel C, Gherardi RK. Vascular permeability factor/vascular endothelial growth factor (VPF/VEGF) and its receptor flt-1 and microcyst formation in meningiomas. *Acta Neuropathol* 1999; 98: 414-420. [IF2001:2.15]
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### 1998

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1997

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### Citations Google Scholar 2002 -2021

