



## Lubka T. Roumenina

Date of birth: **24/02/1979**; Nationality: **Bulgarian/French**

Married, mother of **two children** age 17 and 19 years old

Researcher unique identifier(s): **ORCID**: [orcid.org/0000-0002-9940-0324](https://orcid.org/0000-0002-9940-0324); twitter @roumenina

- **MAIN AREA OF RESEARCH: Complement system**

**Intracellular complement, Complement in heme-mediated diseases and in cancer**

- **CURRENT POSITION(S)**

2019 – now **Deputy Director** of the InC2 lab: Inflammation, Complement and Cancer, Cordeliers Research Center, group leader: Complement in physiology and pathology

2021 – now **Senior researcher (DR2) of Inserm**, group leader, at Cordeliers Research Center

- **PREVIOUS POSITIONS**

2011 – 2021 **Researcher** (staff, INSERM CR), group leader at Cordeliers Research Center, Paris, France.

2008 – 2011 **Postdoctoral research**, Cordeliers Research Center, INSERM UMRS 872, Complement and diseases group, **EMBO Long Term Fellowship**

2004 – 2007 Assistant professor in Biochemistry, Faculty of Biology, University of Sofia, responsible for seminars and laboratory practicals in Immunology for bachelor students (parallel to my PhD)

- **EDUCATION**

2014 **Habilitation** to supervise scientific research (HDR), University Paris 5, Paris, France

2004 – 2007 **PhD** from the Faculty of Biology of the University of Sofia, Sofia, Bulgaria.

2003 **Summer internship** in the Department of Microbiology, University of Helsinki, Finland, **FEBS summer fellowship**

2003 **Master** of Biochemistry, Faculty of Biology, University of Sofia, Bulgaria

- **PUBLICATIONS AND INVITED PRESENTATIONS**

**H-factor=37. 108 scientific publications, 3 patents, 19 invitations for conferences and 21 seminars**

**65 original** research articles (**14 first** or co-first author and **12 as last** author); 29 review articles; 5 editorials and 7 book chapters, 4 as last author. Editor for the book The complement system - innovative diagnostic and research protocols (Springer).

Total **citations** [Web of science, 06/02/2022]: 5368

- **AWARDS**

2021 **Innovation in cancer award**, Les Entreprises contre le Cancer

2021 **Reviewer of the Year** award from Kidney International, 2021

2018 **Young Investigator Award for Research in Complement**, by the International Complement Society

2018 **Award for PhD students' supervision and research** (PEDR), by INSERM

2007 Post-doctoral EMBO Long Term Fellowship.

- **LEADERSHIP**

I am the deputy director of the Inflammation, Complement and Cancer team (45 members), and a leader of the Complement in health and disease group (18 members: 4 researchers, 1 post doc, 5 PhD students, 3 engineers and 5 master students). Over the years I supervise(d) or co-supervised 2 post docs, 8 PhD students, 4 foreign PhD student internships; 15 Master M2 students, 13 Master M1 students, 9 bachelor students and 2 visiting scientists. My PhD student Dr. N. Merle obtained the prestigious award **Prix de la Chancellerie des Universités de Paris** for a remarkable thesis in 2018.

## 10 Major publications

1. Daugan MV, Revel M, Russick J, Dragon-Durey MA, Gaboriaud C, Robe-Rybkin T, Poillerat V, Grunenwald A, Lacroix G, Bougouin A, Meylan M, Verkarre V, Oudard SM, Mejean A, Vano YA, Perkins G, Validire P, Cathelineau X, Sanchez-Salas R, Damotte D, Fremeaux-Bacchi V, Cremer I, Sautès-Fridman C, Fridman WH, **and Roumenina LT.**, (2021) Complement C1s and C4d as Prognostic Biomarkers in Renal Cancer: Emergence of Noncanonical Functions of C1s, *Cancer Immunol Res*, 9(8):891-908., with editorial comment, webinar, and feature in Focus of Complement
2. Daugan MV, Revel M, Thouenon R, Dragon-Durey MA, Robe-Rybkin T, Torset C, Merle NS, Noé R, Verkarre V, Oudard SM, Mejean A, Validire P, Cathelineau X, Sanchez-Salas R, Pickering MC, Cremer I, Mansuet-Lupo A, Alifano M, Sautès-Fridman C, Damotte D, Fridman WH, **and Roumenina LT.**, (2021) Intracellular Factor H drives tumor progression independently of the complement cascade, *Cancer Immunol Res.*, 9(8):909-925, with Inserm press release
3. Boudhabhay I, Poillerat V, Grunenwald A, Torset C, Leon J, Daugan MV, Lucibello F, El Karoui K, Ydee A, Chauvet S, Girardie P, Sacks S, Farrar CA, Garred P, Berthaud R, Le Quintrec M, Rabant M, de Lonlay P, Rambaud C, Gnemmi V, Fremeaux-Bacchi V, Frimat M, **and Roumenina LT.**, (2021) Complement activation is a crucial driver of acute kidney injury in rhabdomyolysis, *Kidney Int*, 99(3):581-597, with editorial comment and Inserm press release, best Kidney Int basic research paper of a young nephrologist for 2021 (award to I. Boudhabhay).
4. **Roumenina LT**, Daugan MV, Petitprez F, Sautès-Fridman C, Fridman WH. (2020) Context-dependent roles of complement in cancer., *Nat Rev Cancer*. 19(12):698-715., journal cover feature
5. Merle NS, Paule R, Leon J, Daugan M, Robe-Rybkin T, Poillerat V, Torset C, Frémeaux-Bacchi V, Dimitrov JD, Roumenina LT.. (2019) P-selectin drives complement attack on endothelium during intravascular hemolysis in TLR-4/heme-dependent manner. *Proc. Natl. Acad. Sci. USA*. 116(13):6280-6285.
6. Jourde-Chiche N, Fakhouri F, Dou L, Bellien J, Burtey S, Frimat M, Jarrot PA, Kaplanski G, Le Quintrec M, Pernin V, Rigotherier C, Sallée M, Fremeaux-Bacchi V, Guerrot D, **Roumenina LT.** (2019) Endothelium structure and function in kidney health and disease. *Nat Rev Nephrol*. 5(2):87-108
7. **Roumenina LT**, Daugan M, Noe R, Petitprez F, Vano YA, Sanchez-Salas R, Becht E, Meilleroux J, Le Clec'h B, Giraldo NA, Merle NS, Sun CM, Verkarre V, Validier P, Selves J, Lacroix L, Delfour O, Vandenberghe I, Thuilliez C, Keddani S, Sakhi I, Barret E, Ferre P, Corvaia N, Passioukov A, Chetaille A, Botto M, de Reynies A, Oudard S, Mejean A, Cathelineau X, Sautès-Fridman C, Fridman WH, (2019) Tumor cells highjack macrophage-produced complement C1q to promote tumor growth, *Cancer Immunol Res*, 7(7):1091-1105
8. Merle NS, Grunenwald A, Rajaratnam H, Gnemmi V, Frimat M, Figueres ML, Knockaert S, Bouzekri S, Charue D, Noe R, Robe-Rybkin T, Le-Hoang M, Brinkman N, Gentinetta T, Edler M, Petrillo S, Tolosano E, Miescher S, Le Jeune S, Houillier P, Chauvet S, Rabant M, Dimitrov JD, Fremeaux-Bacchi V, Blanc-Brude OP **and Roumenina LT.** (2018) Intravascular hemolysis activates complement via cell-free heme and heme-loaded microvesicles, *JCI insight*, 3(12). pii: 96910. doi: 10.1172/jci.insight.96910
9. Marinozzi, M. C., Vergoz, L., Rybkin, T., Ngo, S., Bettoni, S., Pashov, A., Cayla, M., Tabarin, F., Jablonski, M., Hue, C., Smith, R. J., Noris, M., Halbwachs-Mecarelli, L., Donadelli, R., Fremeaux-Bacchi, V., **and Roumenina**, L. T. (2014) Complement factor B mutations in atypical hemolytic uremic syndrome-disease-relevant or benign? *Journal of the American Society of Nephrology : JASN* **25**, 2053-2065
10. Frimat, M., Tabarin, F., Dimitrov, J. D., Poitou, C., Halbwachs-Mecarelli, L., Fremeaux-Bacchi, V., **and Roumenina**, L. T. (2013) Complement activation by heme as a secondary hit for atypical hemolytic uremic syndrome. *Blood* **122**, 282-292