

CV

Etienne COYAUD, PhD

Associate Researcher

156 rue du Molinel, 59800 LILLE, FRANCE | coyaud@gmail.com

November 21st, 1981 (Strasbourg, France), French and Canadian citizen

Languages: French (native), English (fluent)

Work Address

PRISM - Unité Inserm 1192

Université de Lille

Faculté des Sciences et Technologies - Département de Biologie

Rue Paul Langevin - Bâtiment SN3 - 1er étage

59655 Villeneuve d'Ascq Cedex

Tel. + 33 (0)3 20 43 40 50

Cell. +33 (0)6 13 67 43 90

etienne.coyaud@uhnresearch.ca

https://www.researchgate.net/profile/Etienne_Coyaud

Molecular and cell biologist, with a background in Cancer biology. Expert in spatial and functional Proteomics. Extensive experience in discovery and biological analysis of human protein-protein interaction Systems.

EDUCATION

01/09/2007-29/04/2011 – PhD in Hematology-oncology, University Paul Sabatier (Toulouse, France)

- Title: Characterization of *PAX5* rearrangement in B-cell acute lymphoblastic leukemia
- Director: Pr. Pierre Brousset, MD, PhD

01/10/2006-20/06/2007 – Master 2 Research in Oncology, University Paul Sabatier (Toulouse, France)

- Health and biotechnologies
- Director: Pr. Pierre Brousset, MD, PhD

01/10/2005-30/06/2006 – Master 1 Cell Biology and Physiology, University Paul Sabatier (Toulouse, France)

- Laboratory internship in Immunology: Calcium signalling function in T CD4+ lymphocyte activation
- Supervisor: Dr Lucette Pelletier, MD, PhD

01/10/2002-30/06/2005 – B.S. Animal Sciences, University Rabelais (Tours, France)

RESEARCH EXPERIENCE

01/09/2019 to present – Associate Researcher (MSCA), PRISM laboratory Inserm U1192, Villeneuve d'Ascq

- Merkel cell carcinoma oncogenic network (project head)
- SARS-CoV-2 proximal proteomic network and impact on innate immune response (project head)
- Implementation of proximal proteomics in PRISM
- Method optimization and technical training of multiple staff and student personal
- Master 2 trainee supervision
- Coordinator of multiple grants (see funding section)

01/01/2016 to 03/08/2019 – Scientific Associate (staff), Princess Margaret Cancer Centre, Toronto, Dr Brian Raught laboratory

- Global analysis of the human SUMOylation system (in progress)

- Biochemical and functional characterization of Zika virus-human host cell interactome (Coyaud et al, Mol Cell Proteomics)
- Leading role in many local, national and international collaborations
- Method optimization and technical training of multiple staff and student personal (Raught lab and external teams)

01/07/2011 to 31/12/2015 – Post-doctoral fellow, Princess Margaret Cancer Centre, Toronto, Dr Brian Raught laboratory

- Application of BioID in human ubiquitin E3 ligase target identification (Coyaud et al., MCP, 2015)
 - Mass spectrometry-based interaction landscape of the human the centrosome-cilia (Gupta*, Coyaud* et al., Cell, 2015; *co-first author)
 - BioID characterization of hundreds of bait proteins in human cells
- Leading role in multiple local, national and international collaborations

10/10/2006 to 29/04/2011 – Master, then PhD candidate, INSERM U563, Toulouse (France), Pr Pierre Brousset laboratory

- Characterization of PAX5 alterations in acute lymphoblastic leukemias (Coyaud et al., Blood, 2011)
- Implementation of new molecular biology techniques (e.g. RCA-RACE)
- Extensive experience in *in vitro* B-cell differentiation system (from primary mouse B-cell progenitors)

SELECTED SKILLS

Mass Spectrometry – Protein-protein interaction system characterization in human cells.

- Daily use and maintenance of mass spectrometer (Thermo QEHF and Velos Orbitrap)
- MS sample preparation; Protocol development and optimization
- Bioinformatics: analysis of MS data and construction/interpretation of complex protein networks
- Expert in BioID (proximal interactors identification by *in vivo* proximal labelling) and standard IP-MS analysis

Biology and biochemistry

- Classical molecular and biochemical techniques (e.g. PCR and derivatives, WB, recombinant protein synthesis for *in vitro* binding assays...etc.)
- Classical cell biology techniques (e.g. cell culture, transfection/transduction, confocal imaging, flow cytometry, survival assays, flow cytometry...etc.)

TEACHING AND MENTORING EXPERIENCE

Teaching assistant

- Hydrology and Toxicology, 3rd year of Pharmacy, University Paul Sabatier, Toulouse (France).
Supervisor: Pr Bernard Salles
120hrs/2 years

Student supervision and technical training

- **Kamel Bachiri** (Master 2 candidate – starting 03 February 2020)
- **Lauren Van Overbeke** (Master 1 candidate – starting 06 April 2020)
- **Dr Audrey Astori**, PhD, Toronto (Raught laboratory, Toronto, Canada)
- **Dr Estelle Laurent**, PharmD, Toronto (Raught laboratory, Toronto, Canada)
- **Jérémy Benedetti**, Master, Paris (PhD candidate, University Paris VII, France)

Qualification MCU (Assistant Professor)

- section 64 Biochemistry and Molecular Biology (France, February 2019)
- section 65 Cell Biology (France, February 2019)

FELLOWSHIPS AND FUNDINGS

- Application in progress to ANR2020 (project selected for phase 2)
- Co-coordinator ANR Flash COVID-19 (with Caroline Demeret, Institut Pasteur Paris; 82kE)
- Coordinator of Operational grant i-Site (130kE)
- Coordinator of Operational grant Métropole Européenne de Lille (148kE)

- Coordinator of Operational grant Région Hauts-de-France (96kE)
 - Junior Researcher Award: 2-years European Council Marie Skłodowska-Curie Actions Individual Fellowship (197kE)
 - PhD: 3-years governmental fellowship (Ministère de l'Éducation Nationale, de l'Enseignement Supérieur, et de la Recherche)
 - PhD : 6-months private fellowship (Association pour la Recherche contre le Cancer)
- Note: No grant applied to as a PDF or scientific associate in Canada, for statutory reasons (my fellowship was already covered by operating funding). Contribution to all grants submitted by the team (through writing and preliminary data).*

SELECTED PRESENTATIONS

- Upcoming: 02/03/2020 – **Chasing MCPyV TAs oncogenic interactions in Merkel Cell Carcinoma**. INRA UMR ISP, Université de Tours, Faculté de Pharmacie – **Invited oral presentation**
- 24/09/2019 - **La protéomique proximale, un outil de découverte de nouveaux mécanismes cellulaires**. Atelier OMICS. Clubster NSL, Eurasanté, Lille, France – **Invited oral presentation**
- 11/01/2018 - **Unravelling the hairball: Proximal proteomics-based exploration of physical and functional systems in human cells**. Young Investigator Research Symposium, Montreal, Canada – **Invited oral presentation**
- 27/11/2017 - **Proximal proteomics applications to human biology**. LSRU seminar, Esch-sur-Alzette, Luxembourg – **Invited oral presentation**
- 18/05/2017 - **Global Interactomics uncovers extensive organellar targeting by Zika virus**. Canadian Society for Molecular Biosciences, Ottawa, Canada – **Selected Oral presentation**
- 13/04/2016 - **BioID application to finding SCF/C-BTrcP substrates**. Canadian National Proteomic Network, Montreal, Canada - **Selected Oral presentation**
- 29/09/2015 - **A dynamic interaction landscape of the human centrosome-cilium interface**. HUPO world congress, Vancouver, Canada - **Selected Oral presentation and Poster**
- 20/02/2014 - **A global human SUMO system BioID interactome uncovers the biological functions of individual PIAS and SENP proteins**. Omics Meets Cell Biology: Applications to Human Health and Disease. Keystone Symposia, Taos, NM, USA - **Poster**

PRINCIPAL COLLABORATORS

Past collaborators

- Prof. John Brumell, Sickkids, Toronto, Canada
- Prof. Stephane Angers, L.Dean Faculty of Pharmacy, University of Toronto, Toronto, Canada
- Prof. Laurence Pelletier, Lunenfeld-Tanenbaum Research Institute, Toronto, Canada
- Prof. Peter Kim, Sickkids, Toronto, Canada
- Prof. Michael Matunis, John Hopkins Bloomberg School of Public Health, Baltimore, MD, USA
- Prof. Heidi McBride, McGill University, Montreal, Canada
- Dr. Travis Stracker, Institute for Research in Biomedicine, Barcelona, Spain
- Prof. Dante Neculai, Biomedical Sciences, Zhejiang University, Hangzhou, China
- Prof. Shoukat Dedhar, University of British Columbia, Vancouver, Canada
- Dr. Nadeem Moghal, Princess Margaret Cancer Centre, Toronto, Canada

Merkel Cell Carcinoma Project

- **Pr. Jürgen Becker**, Universität Duisburg-Essen, Allemagne
- **Pr. Antoine Touzé**, Université François Rabelais, Tours, France
- **Dr. Thibault Kervarrec**, Université François Rabelais, Tours, France
- **Pr. Roland Houben**, Universität Würzburg, Allemagne
- **Dr. David Schrama**, Universität Würzburg, Allemagne

SARS-CoV-2 protein interactomics - project consortium member

- **Dr. Marc Vidal**, Dana Farber, Harvard Medical School, Boston, USA
- **Dr. Michael Calderwood**, Dana Farber, Harvard Medical School, Boston, USA
- **Dr. David Hill**, Dana Farber, Harvard Medical School, Boston, USA
- **Dr. Frederik Roth**, Lunenfeld-Tanenbaum, Toronto, Canada

- Dr. Anne-Claude Gingras, Lunenfeld-Tanenbaum, Toronto, Canada
- Dr. Mikko Taipale, Donnelly Centre, Toronto, Canada
- Dr. Patrick Aloy, IRB, Barcelone, Espagne
- Dr. Yorgos Sofianatos, BSRC Alexander Fleming, Athènes, Grèce
- Dr. Pascal Braun, Institute of Network Biology, Munich, Allemagne
- Dr. Yves Jacob, Institut Pasteur, Paris, France

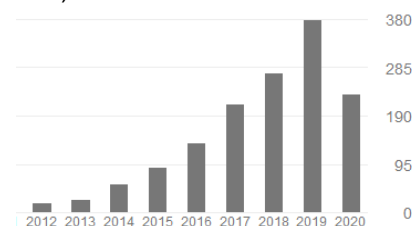
ADDITIONAL COLLABORATORS (SELECTION OF 10):

- Prof. Mikael Sigvardsson, Faculty of Medicine and Health Sciences, Linköping, Sweden
- Prof. Philip Barker, University of British Columbia, Kelowna, Canada
- Dr. Eric Benett, University of California San Diego, San Diego, CA
- Dr. Lyn Gibbons, The University of Texas MD Anderson Cancer Center, TX
- Prof. Reuven Stein, Sagol School of Neurosciences, Tel-Aviv, Israel
- Prof. Shai Izraeli, Sheba Cancer Research Center, Tel-Aviv University, Ramat Gan, Israel
- Prof. Robert Rottappel, University Health Network, Toronto, Canada
- Prof. Helena Soares, University of Lisbon, Portugal
- Dr. Jens Luders, Institute for Research in Biomedicine, Barcelona, Spain
- Prof. Senthil Muthuswami, Dana-Farber/Harvard Cancer Center, Boston, MA

SCIENTIFIC IMPACT STATISTICS (GOOGLE SCHOLAR, JUNE 9, 2019)

h-index: 17, i10-index: 26 (25 since 2015) total citations: 1456 (1324 since 2015)

- 7 first author articles
- 38 contributing author articles
- Average impact factor ~10



https://www.researchgate.net/profile/Etienne_Coyaud

<https://scholar.google.com/citations?user=vd2LolqAAAAJ>

<https://orcid.org/0000-0002-5893-4557>

PEER-REVIEWED PUBLICATIONS (1ST AUTHOR)

1. Lu Y*, Zheng Y*, **Coyaud E***, Zhang C*, Slevabaskaran A, Yu Y, Xu Z, Weng X, Warner N, Cheng X, Liu Y, Yao B, Hu H, Xia Z, Muise A, Klip A, Brumell JH, Girardin S, Ying S, Fairn GD, Raught B, Sun Q, Neculai D. Palmitoylation of NOD1 and NOD2 is required for bacterial sensing. (2019) *Science* . **366**(6464):460-467. **IF: 41.040**. (Publication category Exceptional)
2. Mangé A*, **Coyaud E***, Desmetz C, Laurent E, Béganton B, Coopman P, Raught B, Solassol J. FKBP4 connects mTORC2 and PI3K to activate the PDK1/Akt-dependent cell proliferation signaling in breast cancer (2019). *Theranostics* **9**(23):7003-7015. **IF: 8.712**. (Publication category A+)
3. **Coyaud E**, Ranadheera C, Cheng D, Gonçalves J, Dyakov B, Laurent E M.N., Jonathan Saint-Germain, Pelletier L, Gingras A-C, Brumell J, Kim P, Safronetz D, and Raught B. Global Interactomics uncovers extensive organellar targeting by Zika virus. *Molecular and Cellular Proteomics* **17**(11):2242-2255. **IF: 6.759**; Note: article highlighted by the ASBMB and released to the general press (Altmetrics score >350). (Publication category A)
4. Gupta G*, **Coyaud E***, Gonçalves J*, Mojarad B A.*, Liu Y, Wu Q, Gheiratmand L, Comartin D, Tkach J M., Cheung S W.T., Bashkurov M, Hasegan M, Knight J D., Lin Z-Y, Schueler M, Hildebrandt F, Moffat J, Gingras A-C, Raught B[§], and Pelletier L[§]. A dynamic protein interaction landscape of the human centrosome-cilium interface. (2015) *Cell* **163**(6):1484-99. (* co-first; § co-corresponding). **IF: 34.103**. (Publication category A+)
5. **Coyaud E***, Mis M*, Laurent E M.N., Dunham W H., Couzens A L., Robitaille M, Gingras A-C, Angers S and Raught B. BioID-based identification of SCF^{B-TrCP1/2} E3 ligase substrates. (2015) *Molecular and Cellular Proteomics* **14**(7):1781-95. (* co-first authors). **IF: 6.759**. (Publication category A)
6. **Coyaud E**, Struski S, Dastugue N, Brousset P, Broccardo C, Bradtke J. PAX5-AUTS2 fusion resulting from t(7;9)(q11.2;p13.2) can now be classified as recurrent in B cell acute lymphoblastic leukemia. (2010) *Leukemia Research* **34**(12): 323-5. **IF: 2.370**. (Publication category A)

7. **Coyaud E***, Struski S*, Prade N, Familiades J, Eichner R, Quelen C, Bousquet M, Mugneret F, Talmant P, Pages MP, Lefebvre C, Penther D, Lippert E, Nadal N, Taviaux S, Poppe B, Luquet I, Baranger L, Eclache V, Radford I, Barin C, Mozziconacci MJ, Lafage-Pochitaloff M, Antoine-Poirel H, Charrin C, Perot C, Terre C, Brousset P, Dastugue N, Broccardo C. Wide diversity of PAX5 alterations in B-ALL: a Groupe Francophone de Cytogenetique Hematologique study. (2010) *Blood* **115**(15): 3089-97. **IF: 10.891**. (Publication category A+)
8. Gonçalves J, Sharma A, **Coyaud E**, Laurent EMN, Raught B, Pelletier L. LUZP1 and the tumor suppressor EPLIN modulate actin stability to restrict primary cilia formation. (2020) *Journal of Cell Biology* **219**(7):e201908132. **IF: 8.891** (Publication category A)
9. Cardon T, Franck J, **Coyaud E**, Laurent EMN, Damato M, Maffia M, Vergara D, Fournier I, Salzet M. Alternative proteins are functional regulators in cell reprogramming by PKA activation. (2020) *Nucleic Acids Research* **23**:gkaa277. . **IF: 10.727** (Publication category A)
10. Botham A, **Coyaud E**, Gronda M, Hurren R, Maclean N, St-Germain J, Mirali J, Laurent E, Raught B, Schimmer A. Global Interactome Mapping of Mitochondrial Intermembrane Space Proteases Identifies a Novel Function for HTRA2 (2019). *Proteomics* e1900139. doi: 10.1002/pmic.201900139. [Epub ahead of print] **IF: 2.106**. (Publication category A)
11. Manshoury R, **Coyaud E**, Kundu S, Peng D, Stratton S, Allton K, Bajaj R, Fradette J, Minelli R, Peoples M, Carugo A, Chen F, Bristow C, Kovacs J, Barton M, Heffernan T, Creighton C, Raught B, Gibbons D. ZEB1/NuRD Complex Suppresses TBC1D2b to Stimulate E-cadherin Internalization and Promote Metastasis in Lung Cancer. (2019) *Nature Communications* **10**(1):5125. **IF: 13.811**. (Publication category A+)
12. Dho SE, Silva-Gagliardi N, Morgese F, **Coyaud E**, Lamoureux E, Berry DM, Raught B, McGlade CJ. Proximity interactions of the ubiquitin ligase Mind bomb 1 reveal a role in regulation of epithelial polarity complex proteins. (2019) *Scientific Reports* **9**(1):12471. **IF: 4.847**. (Publication category A)
13. Frendo-Cumbo S, Jaldin-Fincati JR, **Coyaud E**, Laurent EMN, Townsend L, Tan JMJ, Xavier RJ, Pillon NJ, Raught B, Wright DC, Brumell JH, Klip A. Deficiency of the autophagy gene ATG16L1 induces insulin resistance through KLHL9/KLHL13/CUL3-mediated IRS1 degradation. (2019) *Journal of Biological Chemistry* doi:10.1074/jbc.RA119.009110. **IF: 4.106**. (Publication category A)
14. Chan CJ, Le R, Burns K, Ahmed K, **Coyaud E**, Laurent EMN, Raught B, Melancon P. BioID performed on Golgi enriched fractions identify C10orf76 as a GBF1 Binding Protein essential for Golgi maintenance and secretion. (2019) *Molecular and Cellular Proteomics* doi: 10.1074/mcp.RA119.001645. **IF: 4.787**. (Publication category A)
15. Gheiratmand L, **Coyaud E**, Gupta GD, Laurent EMN, Hasegan M, Prosser SL, Gonçalves J, Raught B, Pelletier L. Spatial and proteomic profiling reveals centrosome-independent features of centriolar satellites. (2019) *EMBO J* doi: 10.15252/embj.2018101109. **IF: 10.557**. (Publication category A+)
16. D'Costa VM, **Coyaud E**, Boddy KC, Laurent EMN, St-Germain J, Grinstein S, Raught B, Brumell JH. BioID screen of Salmonella type 3 secreted effectors reveals host factors involved in vacuole positioning and stability during infection. (2019) *Nature Microbiology* **4**(12):2511-2522. **IF: 14.182**. (Publication category A+)
17. Demian W L., Persaud A, Jiang C, **Coyaud E**, Liu S, Kapus A, Kafri R, Raught B and Rotin D. The ion transporter NKCC1 links cell volume to cell mass regulation by suppressing mTORC1. (2019) *Cell Reports* **27**(6):1886-1896.e6. **IF: 8.032** (Publication category A+)
18. Ceccarelli DF, Ivantsiv S, Mullin AA, **Coyaud E**, Manczyk N, Maisonneuve P, Kurinov I, Zhao L, Go C, Gingras AC, Raught B, Cordes S, Sicheri F. FAM105A/OTULINL Is a Pseudodeubiquitinase of the OTU-Class that Localizes to the ER Membrane. (2019) *Structure* **27**(6): 1000-1012.e6. **IF: 4.907** (Publication category A)
19. Saito Y, Li L, **Coyaud E**, Luna A, Sander C, Raught B, Asara JM, Brown M, Muthuswamy SK. LLGL2 Rescues Nutrient Stress by Promoting Leu Uptake in ER+ Breast Cancer. (2019) *Nature* May;569(7755):275-279. doi: 10.1038/s41586-019-1126-2. [Epub ahead of print]. **IF: 41.157**. (Publication category Exceptional)
20. Vendrell JA, Mazieres J, Senal R, Rouquette I, Quantin X, Pujol JL, Roch B, Bouidioua A, Godreuil S, **Coyaud E**, Brousset P, Solassol J. Ultra-sensitive EGFR^{T790M} detection as an independent prognostic marker for lung cancer patients harboring EGFR^{del19} mutations and treated with first-generation TKIs. (2019) *Clinical Cancer Research* (in press). **IF: 10.199**. (Publication category A)
21. Georges A, **Coyaud E**, Marcon E, Greenblatt J, Raught B and Frappier L. USP7 Regulates Cytokinesis through FBXO38 and KIF20B. (2019) *Scientific reports* **9**(1):2724. **IF: 4.847**. (Publication category A)

22. Tan JMJ, Mellouk N, Osborne S, Ammendolia DA, Dyer DN, Brunen D, Van Rijn JM, Czuzman MA, Cemina M, Won AN, Yip CM, Xavier RJ, MacDuff D, Virgin HW, Reggiori F, Debnath J, Yoshimori T, Kim PK, Fairn G, **Coyaud E**, Raught B, Muise AM, Higgins DE, Brumell JH. An ATG16L1-dependent pathway promotes plasma membrane repair and limits pathogen spread. (2018) *Nature Microbiology* **3**(12):1472-1485. **IF: 14.182.** (Publication category A+)
23. Sydor AM, **Coyaud E**, Rovelli C, Laurent E, Liu H, Raught B, Mennella V. PPP1R35 is a novel centrosomal protein that regulates centriole length in concert with the microcephaly protein RTTN. (2018) *eLife* **31**;7. pii: e37846. **IF: 7.725.** (Publication category A+)
24. Truong D, Boddy KC, Canadien V, Brabant D, Fairn GD, D'Costa VM, **Coyaud E**, Raught B, Perez-Sala D, Park WS, Do Heo W, Grinstein S, Brumell JH. Salmonella exploits host Rho GTPase signalling pathways through the phosphatase activity of SopB. (2018) *Cell Microbiol* **16**:e12938. **IF: 4.554.** (Publication category A)
25. Odeh HM, **Coyaud E**, Raught B, Matunis MJ. The SUMO-Specific Isopeptidase SENP2 is Targeted to Intracellular Membranes via a Predicted N-Terminal Amphipathic α -Helix. (2018) *Molecular Biology of the Cell* mbcE17070445. **IF: 4.037.** (Publication category A)
26. Liu Y, Gupta GD, Barnabas DD, Agircan FG, Mehmood S, Wu D, **Coyaud E**, Johnson CM, McLaughlin SH, Andreeva A, Freund SMV, Robinson CV, Cheung SWT, Raught B, Pelletier L, van Breugel M. Direct binding of CEP85 to STIL ensures robust PLK4 activation and efficient centriole assembly. (2018) *Nature Communication* **9**(1):1731. **IF: 12.124.** (Publication category A+)
27. Baczyk D, Audette MC, **Coyaud E**, Raught B, Kingdom JC. Spatiotemporal distribution of SUMOs during human placental development and in response to oxidative and inflammatory stress. (2018) *Journal of Physiology* doi: 10.1113/JP275288. **IF: 4.739.** (Publication category A)
28. Silva J, Aivo S, Knobel P A., Bailey L J., Casali A, Vinaixa M, Garcia-Cao I, **Coyaud E**, Jourdain A A., Perrez-Ferreros P, Rojas A M., Antolin-Fontes A, Samino-Gene S, Raught B, Gonzales-Reyes A, Ribs de Pouplana L, Doherty A J., Yanes O, and Stracker T H.. EXD2 governs germ stem cell homeostasis and lifespan by promoting mitoribosome integrity and translation. (2018) *Nature Cell Biology* **20**, (162–174). **IF: 20.060.** (Publication category A)
29. Sandi M J., Marshall C B., Balan M, **Coyaud E**, Monson D M., Ishiyama N, Couzens A L, Gingras A-C, Raught B, Ikura M, Morrison D K., Rottapel R. MARK3-mediated phosphorylation of ARHGEF2 couples the actin and tubulin cytoskeletons to establish cell polarity. (2017) *Science Signaling* **10**(503):eaan3286 **IF: 6.494.** (Publication category A)
30. Bertomeu T, Coulombe-Huntington J, Chatr-aryamontri A, Bourdages K, **Coyaud E**, Raught B, Xia Y and Tyers M. A high-resolution genome-wide CRISPR/Cas9 viability screen reveals structural features and contextual diversity of the human cell-essential proteome. (2017) *Molecular and Cellular Biology* pii: MCB.00302-17. doi: 10.1128/MCB.00302-17. **IF: 4.780.** (Publication category A)
31. Kim B R., **Coyaud E**, Laurent E M.N., St-Germain J, Van de Laar E, Tsao M S., Raught N and Moghal N. Identification of the SOX2 interactome by BioID reveals EP300 as a mediator of SOX2-dependent squamous differentiation and lung squamous cell carcinoma growth. (2017) *Molecular and Cellular Proteomics* **16**(10):1864-1888. **IF: 6.759.** (Publication category A)
32. Segura-Bayona S, Knobel P, González Burón H, Youssef S, Peña-Blanco A, **Coyaud E**, López-Rovira T, Rein K, Palenzuela L, Colombelli J, Forrow S, Raught B, Groth A, De Bruin A, Stracker T. Differential requirements for Tausled like kinases 1 and 2 in mammalian development. (2017) *Cell Death and Differentiation* **24**(11):1872-1885. **IF: 8.251.** (Publication category A)
33. Swayampakula M, McDonald P, Vallejo M, **Coyaud E**, Chafe S, Westerback A, Venkateswaran G, Shankar J, Gao G, Laurent E M.N., Lou Y, Bennewith K, Supuran C, Nabi I, Raught B, Dedhar S. The interactome of metabolic enzyme Carbonic Anhydrase IX reveals novel roles in tumor cell migration and invadopodia/MMP-14-mediated invasion. (2017) *Oncogene* doi: 10.1038/onc.2017.219. **IF: 7.272.** (Publication category A)
34. Doiron K, Goyon V, **Coyaud E**, Rajapakse S, Raught B, McBride HM. The dynamic interacting landscape of MAPL reveals essential functions for SUMOylation in innate immunity. (2017) *Scientific reports* **7**(1):107. **IF: 4.847.** (Publication category A)
35. Hua R, Cheng D, **Coyaud E**, Freeman S, Di Pietro E, Wang Y, Vissa A, Yip CM, Fairn GD, Braverman N, Brumell JH, Trimble WS, Raught B, Kim PK. VAPs and ACBD5 tether peroxisomes to the ER for peroxisome maintenance and lipid homeostasis. (2017) *Journal of Cell Biology* **216**(2):367-377. **IF: 9.306.** (Publication category A)
36. Liyanage SU, **Coyaud E**, Laurent EM, Hurren R, Maclean N, Wood SR, Kazak L, Shamas-Din A, Holt I, Raught B, Schimmer A. Characterizing the mitochondrial DNA polymerase gamma interactome by BioID identifies Ruvbl2 localizes to the mitochondria. (2017) *Mitochondrion* **32**:31-35. **IF: 3.586.** (Publication category A)

37. Yeh C, **Coyaud E**, Bashkurov M, van der Lelij P, Cheung SW, Peters JM, Raught B, Pelletier L. The Deubiquitinase USP37 Regulates Chromosome Cohesion and Mitotic Progression. (2015) *Current Biology* **25**(17):2290-9. **IF: 9.704.** (Publication category A)
38. Badouel C, Zander MA, Liscio N, Bagherie-Lachidan M, Sopko R, **Coyaud E**, Raught B, Miller FD, McNeill H. Fat1 interacts with Fat4 to regulate neural tube closure, neural progenitor proliferation and apical constriction during mouse brain development. (2015) *Development* **142**(16):2781-91. **IF: 6.216.** (Publication category A+)
39. Cole A, Wang Z, **Coyaud E**, Voisin V, Gronda M, Jitkova Y, Mattson R, Hurren R, Babovic S, Maclean N, Restall I, Wang X, Jeyaraju D, Sukhai M A., Prabha S, Bashir S, Ramakrishnan A, Leung E, Qia Y H., Zhang N, Combes K R., Ketela T, Lin F, Houry W A., Anan A, Al-Awar R, Zheng W, Wienholds E, Xu C J., Dick J, Wang J C.Y., Moffat J, Minden M D., Eaves C J., Bader G D., Hao Z, Kornblau S M., Raught B, Schimmer A D. Inhibition of the mitochondrial protease, CLPP, as a therapeutic strategy for human acute myeloid leukemia. (2015) *Cancer Cell* **27**(6):864-76. **IF: 27.660.** (Publication category A+)
40. Hong JH, Kaustov L, **Coyaud E**, Srikumar T, Wan J, Arrowsmith C, Raught B. KCMF1 (potassium channel modulatory factor 1) Links RAD6 to UBR4 (ubiquitin N-recognition domain-containing E3 ligase 4) and Lysosome-Mediated Degradation. (2015) *Molecular and Cellular Proteomics* **14**(3): 647-85. **IF: 6.759.** (Publication category A)
41. Wei Y, Vellanki RN, **Coyaud E**, Ignatchenko V, Li L, Krieger JR, Taylor P, Tong J, Pham NA, Liu G, Raught B, Wouters BG, Kislinger T, Tsao MS, Moran MF. CHCHD2 is Co-amplified with EGFR in NSCLC and Regulates Mitochondrial Function and Cell Migration. (2015) *Molecular Cancer Research* **13**(7):1119-29. **IF: 5.041.** (Publication category A)
42. Dingar D, Kalkat M, Chan PK, Srikumar T, Bailey SD, Tu WB, **Coyaud E**, Ponzielli R, Kolyar M, Jurisica I, Huang A, Lupien M, Penn LZ, Raught B. BioID identifies novel c-MYC interacting partners in cultured cells and xenograft tumors. (2014) *Journal of Proteomics* pii: S1874-3919(14)0. **IF: 3.926.** (Publication category A)
43. Comartin D, Gupta GD, Fussner E, **Coyaud E**, Hasegan M, Archinti M, Cheung SW, Pinchev D, Lawo S, Raught B, Bazett-Jones DP, Lüders J, Pelletier L. CEP120 and SPICE1 cooperate with CPAP in centriole elongation. (2013) *Current Biology* **14**: 1360-6. **IF: 9.704.** (Publication category A)
44. Puissegur MP, Eichner R, Quelen C, **Coyaud E**, Mari B, Lebrigand K, Broccardo C, Nguyen-Khac F, Bousquet M, Brousset P. B-cell regulator of immunoglobulin heavy-chain transcription (Bright)/ARID3a is a direct target of the oncomir microRNA-125b in progenitor B-cells. (2012) *Leukemia* **26**(10):2224-32. **IF: 9.923.** (Publication category A+)
45. Familiades J, Bousquet M, Lafage-Pochitaloff M, Béné MC, Beldjord K, De Vos J, Dastugue N, **Coyaud E**, Struski S, Quelen C, Prade-Houdellier N, Dobbelsstein S, Cayuela JM, Soulier J, Gardel N, Preudhomme C, Cavé H, Blanchet O, Lhéritier V, Delannoy A, Chalandon Y, Ifrah N, Pigneux A, Brousset P, Macintyre EA, Huguet F, Dombret H, Broccardo C, Delabesse E. PAX5 mutations occur frequently in adult B-cell progenitor acute lymphoblastic leukemia and PAX5 haploinsufficiency is associated with BCR-ABL1 and TCF3-PBX1 fusion genes: a GRAALL study. (2009) *Leukemia* **23**(11):1989-98. **IF: 9.923.** (Publication category A+)